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VOLUME VIII.

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COPYRIGHT, or, as it was formerly termed, copy, has been defined by Lord Mansfield, 'to signify an incorporeal right to the sole printing and publishing of somewhat intellectual, communicated by letters.' By this 'somewhat intellectual' is to be understood something proceeding from the mind of the person by whom, or through whom, such a right is claimable. Yet, although mere republications of the compositions of others are no subject for copyright, it is her no means limited to such productions as contain new or by no means limited to such productions as contain new or original ideas. Thus translations both from ancient and modern languages, notes and additions to existing works, even mere compilations and abridgements, are similarly protected. As to these last however it is often a question for courts and juries to decide, whether the compiler or abridger really intended to present the original matter in a more useful or agreeable form, expended his own labour upon it, and so entitled himself to protection, or whether he only sought, under false pretexts, to defraud the author or his assigns of a portion of their lawful profits. This decision depends of necessity on the circumstances of each particular case. Further, a right of copy attaches to the authors of ideas expressed by other symbols as well as letters, to musical composers for example.

The origin of copyright must be sought in the general conviction which has always prevailed of its justice and expediency. 'When a man,' says Blackstone, 'by the exertions of his rational powers has produced an original work, he seems to have clearly a right to dispose of that identical he seems to have clearly a right to dispose of that identical work as he pleases; and any attempt to vary the disposition he has made of it, appears to be an invasion of the right. Now the identity of a literary composition consists entirely in the sentiment and the language. The same conceptions, clothed in the same words, must necessarily be the same composition; and whatever method be taken of exhibiting that composition to the eye or ear of another, by registed by writing as by printing in any number of copies recital, by writing, or by printing in any number of copies, or at any period of time, it is always the identical work of the author which is so exhibited, and no other man, it hath been thought, can have a right to exhibit it, especially for profit, without the author's consent.'

Accordingly it has been supposed that a common-law right of copy existed in England previously to any statute on the subject. As a legal proposition however this cannot be supported by the proper and direct proof of a fair judicial decision before the passing of the first statute relating to it in the reign of Queen Anne; inasmuch as it never appears to have been directly controverted up to that time. But, in the absence of positive authority, it may be fairly inferred, from the old charters of the Stationers' Company, and much more from their registers, whence it appears that some thousands of books, even as early as the times of Elizabeth, passed from one owner to another by descent, sale, and con-

evidence of the opinion of many learned men as to the then state of the law. It is further to be noted, that the non-ex istence of express decisions on the point is accounted for down to 1640 by the necessity of obtaining a license prior to the printing of anything, so that authors had no occasion to apply to civil tribunals for protection, as none but them-selves and those claiming under them were so licensed, and he who printed a book without this was subject to enormous penalties.

It has hardly been controverted in the various arguments that exist upon this common-law right of copy that literary compositions in their original state, and the incorporeal right of the publication of them, are the private and exclusive property of the author. The question made has been that this property was put an end to by publication: and yet without publication it is useless to the owner, because yet without publication it is useless to the owner, because it is without profit, and property without the power of use or disposal is not property. In that state it is lost to society as a means of improvement, as well as to the author as a means of gain. Publication is therefore the necessary act and only means to render such a property useful to the public and profitable to the owner. If, says Lord Mansfield, the copy which belonged to the author before publication does not belong to him after where is the common cation does not belong to him after, where is the common law to be found which says there is such a property before. All the metaphysical subtleties from the nature of the the metaphysical subtleties from the nature of the thing may be equally objected to the property before. It is equally detached from the manuscript or any physical existence whatsoever. There is in fact nothing in the act of publication to vary the nature of the right, so that that which is necessary to make a work useful and profitable should be taken as destructive at once of an author's con-fessed original property against his expressed will. It has accordingly been the almost unanimous opinion of the high authorities who were called on to decide the point, that by the common law of England authors were entitled to copyright, and as there was nothing in statute or custom to de-termine it, or distinguish this from other species of property, that such right was once perpetual. The arguments for the contrary opinion are collected in the judgment of Mr. Justice

Yates in the case of Millan v. Taylor, 4th Burrow, p. 2354.

From the above premises arose the question, after the passing of the first statute respecting literary property in 1710, whether by certain of its provisions this perpetual copyright at common law was extinguished for the future. After some less important decisions in the negative on mowas solemly argued before the Court of King's Bench, during the term, when Lord Mansfield presided, in 1769. The result was a decision in favour of the common-law right as unaltered by the statute, with the disapproval however of Mr. Justice Yates. Subsequently, in 1774, the same research one owner to another by descent, sate, and conveyance; from acts and ordinances of parliament which necessarily imply a recognition of it by the nature of their provisions respecting printing; and from decrees of the Star-chamber, which, though not binding precedents, are

fere; it being very unusual, from motives of delicacy, for a peer to support his own judgment on appeal to the House of Lords. It is somewhat remarkable, that although this could be hardly termed a decision, as the judges were in point of fact divided equally, it has since been held so important as a precedent and sustained in so many subsequent cases, that it must now be considered as settled law that perpetual copyright is put an end to by the statutes.

The two universities were not slow to protect themselves from the consequences of this decree in the case of Donald-sons and Beckett, and obtained from Parliament, in 1775, the following year, an act for enabling the two universities in England, the four universities in Scotland, and the several colleges of Eton, Westminster, and Winchester, to hold in perpetuity their copyright in books given or bequeathed to the said universities and colleges for the advancement of useful learning and other purposes of education. This protection, sanctioned by penalty and forfeiture, so long as such books are printed at the presses of the universities and colleges respectively, is still enjoyed, unaffected by the general statutes on the subject; and a similar protection is extended to the university of Dublin by 41 Geo. III.

The chief provisions of the 8 Anne, c.19, entitled 'An act for the encouragement of learning, by vesting the copies of the encouragement of learning, by vesting the copies of printed books in the authors or purchasers of such copies during the times therein mentioned, as regards the effecting of that purpose, were, that the authors of books already printed, and those claiming under the author, should have the sole right and liberty of printing them for a term of 21 years and no longer; and that the authors of books to be printed, and their assigns, should have the same right for 14 years and no longer. And the last clause of the statute directed that after the expiration of these 14 years the same right the authors, if living for another 14 right should return to the authors, if living, for another 14 The persons infringing these provisions were to be punished by forfeiture of the pirated book to the proprietor, and a penalty of one penny for each sheet, one-half to go to the crown and the other half to the informer, provided always the title to the copy of the book had been duly entered with the Stationers Company.

The 41 Geo. III., c. 107, which extended the same law to Ireland, gave a further protection to authors and their assigns by action for damages and double costs, and raised the penalty per aheet to three pence, to be divided in the

The 54 Geo. III., c. 156, by which literary property is at present mainly regulated, is entitled 'An act to amend the several acts for the encouragement of learning by securing the copies and copyright of printed books to the authors of such books and their assigns. By the fourth section of the act, after reciting the statutes of 8 Anne and 41 Geo. III., by which authors and their assigns had the sole liberty of printing for 14 years and no longer, and after reciting that it will afford encouragement to literature if the duration of copyright were further extended; it is enacted, that after the passing of this act, the author of any book, and his assigns, shall have the sole liberty of printing and reprinting such book for the full term of 28 years from the day of publication, and, if the author shall be living

at the end of that period, for the residue of his natural life.
With regard to books at that time already published, it is enacted that if the authors then living should die before the expiration of fourteen years from publication, their re-presentatives should have the benefit of the second fourteen years; and if the authors should survive till twenty-eight years from publication, themselves should have the benefit for the remainder of their lives. But the rights of all assigns are saved in both cases.

The penaltics for the infringement of copyrights are the same as in the former statutes, but with the limitation that all legal proceedings under the act must be commenced

within one year.

The results to be collected from the statute, and from subsequent decisions upon it, as far as protection to the rights of authors is involved, may be briefly stated thus, as a summary of the existing law.

1. The published works of any author deceased before the 29th July, 1814, are wholly unaffected, and at this time public property. 2. The published works of any au-thor at that period living, but who died within fourteen years from the time of first publication, go after his death to benefit his assigns, if he has assigned his interest therein,

for the remainder of that fourteen years; but in all cases, whether he has or has not assigned, to his personal reprewhether he has or has not assigned, to his personal representatives for another fourteen years. They afterwards become public property. 3. The published works of any author at that period living, but who dies more than fourteen, and less than twenty-eight years from the date of publication, go to his assignees if he has assigned, and to his personal representatives if he has not, for the residue of the twenty-eight years. They afterwards become public property, as they are at his death if he survive twenty-eight years. 4. The published works of any author at that period living, more than twenty-eight years having then elapsed since publication, are unaffected by the act, and continue, as they were before, public property. Such is the law with regard to works published before the passing of the 54 Geo. III., c. 156; with regard to works published since it is as follows:—

1. If an author does not assign his interest in the work, and lives more than twenty-eight years after publication, the copyright remains his for life, and after his death becomes public property. 2. If the author does assign his interest, the copyright attaches to his assigns for his life; and if he die within twenty-eight years, it attaches to them for the remainder of that term. It afterwards becomes public property. 3. If the author does not assign his interest, and dies within twenty-eight years from publication, the copyright attaches to his personal representatives for the remainder of that term. It then becomes

public property.

It has been said that the exclusive property of authors in their manuscripts has always been recognized by the law. But this principle extending only to prevent the printing or But this principle extending only to prevent the printing or circulating copies of them without the license of the owner, it was found necessary to pass recently a statute for the peculiar protection of the authors of dramatic compositions. This is the 3 Will. IV., c. 15, entitled 'An Act to amend the Laws relating to Dramatic Literary Property,' which, after reciting the 54 Geo. III. c. 156, provides that the author of any dramatic piece, not hitherto printed or published by authority of him or his assigns, shall have as his property the sole liberty of representing it, or causing it to be represented, at any place of dramatic entertainment; and the author or assignees of any such work, printed and and the author or assignees of any such work, printed and published within ten years before the date of the act, shall have the same privilege for twenty-eight years from publi-cation, and for the remainder of the author's life, if he longer live. The penalty for violating these enactments is to be enforced by action for damages, with double costs, to be brought within twelve months from the commission of the offence.

There are certain works excepted from the benefit of the law of copyright from the nature of their contents. Such are, all publications injurious to public morality, inimical to Christianity, or stimulating, either as libellous or seditious, to a breach of the peace. This must however be understood of their general tenor, and not of isolated passages. As far as a rule on the subject can be laid down, it is, that any work containing matter for which a public indictment or private prosecution could be sustained is not protected by the law, but may be pirated by other parties at pleasure, who, if sued for penalties under the act, are allowed to give in evidence the nature of the composition which they have published, in order to defeat the action. This is a remarkable exception to the general rule of law. that none shall take advantage of his own wrong; and its operation is quite as remarkable, the effect of the rule having often been to disseminate more widely that which the law has declared not to merit protection.

The protection given to authors by the statute of copyright is coupled with conditions of some particularity, al-though it is by express words in the fifth section exempted from depending on them. Besides the registry at Stationers' Hall, which is to be made within one month for books published within the bills of mortality, and within three months for all others, at a penalty of five pounds, and eleven times the price of the book, the 54 Geo. III., c. 156, requires that eleven copies of every work shall be delivered on demand in writing within twelve months for the use of the British Museum, Sion College, London, the Bodleian Library at Oxford, the Public Library at Cambridge, the Library of Advocates at Edinburgh, the libraries of the four Scotch universities, and the libraries of Trinity College and the King's Inns, Dublin. It has been decided, and the decision is most important, as affecting many works of the greatest value and expense, that works published in parts

or numbers are not liable to this tax until completed. 2 Younge and Jervis, 166; 4 Bing. 540. Farther, by a very recent statute, 6 and 7 W. IV., c. 110, the 54 Geo. III., c. 156, is repealed, so far as relates to the delivery of copies of books to the four universities of Scotland, Sion College, and the King's Inns, Dublin, compensation being given to those institutions upon an estimate of the annual value of books supplied upon an average of three years, ending the 30th of June, 1836.

Besides the special copyrights of the universities secured to them as before mentioned by statute, there still exist certain prerogative copyrights attaching to the owners in perpetuity. Of these the chief belong to the king, which were more numberous and considerable formerly than at present. Many are now quite obsolete, such as those of almanacs, law hooks, and Latin grammars; and others very questionable, such as that of the exclusive right to print the English translation of the Bible. The king has a prerogative copyright in the litturgy and other services of the church, in proclamations, orders in council, and other state papers, and in the statutes. It has been decided, that the University of Cambridge shares by letters patent in the king's prerogative of printing acts of parliament. The House of Lords also exercises an exclusive privilege, somewhat fallen into disuse, of publishing its own proceedings

The usual modes of legal proceeding to prevent or punish the infringement of copyright, or as it is more usually termed, piracy, are by action for damages, or for the penalties given by the statute; or more commonly still, by obtaining an injunction in equity to prohibit the un-lawful publication, which affords immediate and summary This is always granted where the legal title of the plaintiff to the work is made out, and the identity of the pirated publication with his own shown to the satisfaction of the court. The proof even of an equitable title has been held sufficient to qualify him for this remedy. Mawman v. Tegg, 2 Russ. 385. Neither will the court be restrained from granting the injunction, by proof that the matter pirated forms only a part of the publication complained of, and that what is original will be rendered useless to the defendant and the public by prohibiting its sale. But as this mode of proceeding presses very severely upon de-fendants, and often inflicts irreparable injury, the court, where any doubt attaches, will either refuse the injunction altogether, or grant it only on condition of the plaintiff's bringing an action immediately, to have the merits of the case decided by a jury with the smallest possible delay.

These legal protections are for the most part found

effectual in restraint of domestic piracy. But over the frequent and daily-increasing practice of foreign piracy, by reprinting English works abroad, they exercise no useful control, although the 54 George III., c. 156, expressly includes within its prohibitions the importers of foreign editions, and the sellers of them with a knowledge of their origin. Notwithstanding this, most popular productions of English authors are immediately reprinted in France and Germany, and are to be obtained in England at little more than their original cost. A practice so destructive of the fair profits of mental labour can only be effectually redressed by prevailing on foreign countries to extend the benefit of their own laws against literary piracy to alien as well as native authors. With respect to America, a memorial has recently (1836) been transmitted from this country to Congress, praying for some law to protect English copyright in the United States. Many English works are reprinted in America; and the reprints may be, and frequently are, with a little contritance sold in England at lower prices than the original publication. In this instance the English author loses in another way: his English edition, which would sell in America, is supplanted there by an American reprint, which costs the publisher only paper and printing. The American author suffers in the same way in England. Some arrangement therefore between these two countries for the extension of copyright would often make a book twice as valuable to the author, and would of course be for the benefit of the reader, as it might be published at a lower price

A notice of the law of copyright would be incomplete which did not advert to some other compositions which receive from statute a protection analogous to that of literature. Such are engravings, etchings, and prints, maps and charts, and sculpture of all kinds. These resemble written works

as regards the incorporeal right in them accruing to the author by the exertion of his mental powers in their production, but differ as they also require a good deal of his manual skill and labour, and are therefore his property upon the same general principles as any other manufacture. Such productions therefore are even more plainly entitled to the protection of the law than books.

The chief statutes affecting the copyright in works of design, engraving, and etching, are the 8 George II., c. 13, which vests it in the inventor, designer, and proprietor, for fourteen years from the first publication, and enforces this provision against any person pirating the same by forfeiture of the plate and prints, and a fine of five shillings for each print, to be recovered by action within three months of the discovery of the offence. The 7 George III., c. 38, extends the term of copyright to twenty-eight years; and in addition to the subjects of the former statute includes maps, charts, and plans, under the same conditions. It also extends the time of bringing an action for the penalties to six months. The 17 George III., c. 57, gives the owner of the copyright a further remedy of action for damages and double costs within the same limits of time.

With regard to models, casts, and other sculptures, the 38 George III., c. 71 vests the right and property in these for fourteen years in the proprietor, and gives him a special action on the case against the offender, if brought within six months. These provisions were rendered more effectual by 54 George III., c. 56, by which double costs were given, and an additional term of fourteen years superadded in case the maker should be living at the end of the first term.

As to sculpture certainly, but more doubtfully as to prints, for there have been conflicting decisions on the point, the work must bear upon it the name of the maker and the date of publication to entitle it to the protection of the law.

The right of patents also presents many legal features analogous to those of copyright, but this subject requires a separate notice. [PATENT.]
COQUIMBO. [CHILE.]

COQUIMBO, a town of Chile, and the capital of the COQUIMBO, a town of Chile, and the capital of the province of Coquimbo, about seven miles from the bay of Coquimbo, was founded in 1544 by Don Pedro Valdivia, was called it La Serena, by which name it is still sometimes known. It is a poor town, with a population which has been estimated at 10,000 souls; but other estimates reduce it to 4000. The streets are all at right angles to each other, of moderate width, but very dirty; the houses, which are generally of one story, have small galdens attached to them, owing to which circumstance the town occupies a much greater surface than the population would lead one to expect. It contains six or seven churches and a public expect. It contains six or seven churches and a public hospital. The Puerto, or port, is nothing more than a collection of about a dozen miserable huts, with a custom house, situated at the head of a small indentation of the coast open to the northward. No fresh water can be procured, and supplies of all kinds are scarce and dear. There are no foreign importations direct to Coquimbo; supplies are no foreign importations direct to Coquambo: supplies are obtained from Santiago or Valparaiso. From 500,000 to 550,000 dollars are annually exported to Europe in British men-of-war, besides gold; but the duty on this article being very heavy, it is always smuggled on board, and consequently no estimate of the quantity shipped can be formed. The port is in 29° 57′ S. lat., 71° 17′ W. long., about 200 miles north of Valparaiso.

The district shounds in mines of gold silver convergence.

The district abounds in mines of gold, silver, copper, and iron: the iron is not worked, on account of the scarcity of fuel. COR CA'ROLI, a name given by Halley to the star of the third (or 2) magnitude in Canes Venatici, in memory of Charles I. It is situated on the neck of the lower dog, and, when figured, has a heart surmounted by a crown. The name is not much in use among astronomers

COR LEO'NIS. [REGULUS.]

CORA'CINA, a genus separated from the crows by Vieillot, and divided by him into four sections. The first comprises those species which have the bill furnished at its base with velvety feathers (Les Col-nus, naked necks); the second those whose nostrils are covered with setaceous feathers, directed forwards, and whose upper mandible is notched towards the end (*Les Choucaris*, Grancalus); the third those whose bill is naked at the base, and notched at the point (Coracina gymnocephala, Vieill., Corvus calvus, Latham, for example); and the fourth, that curious species on which Geoffroy St. Hilaire founded his genus CephaCuvier, in the last edition of the 'Règne Animal,' defines Graucalus to be the Greek name of an ash-coloured bird (oiseau cendré), and says that three Choucaris out of four are of that colour. M. Vicillot, he adds, confounds these birds with his Coracina, which comprise the Gymnoderi and the Gymnocephali.

M. Lesson, who places the group under the Ampelidæ, observes that the genus Coracina is far from being determined. Thus, he observes, M. Vieillot places under it the Cephalopterus of M. Geoffroy-Saint-Hilaire, the Choucari, and the Colnu, or Gymnoderus. (He might have added the Gymnocephalus of Geoffroy and Cuvier.) Temminek adds to it many of the Cotingus of Le Vaillant; but for his own (Lesson's) part, he adopts the term Coracina for that group of birds which Cuvier has collected together under the name of Piauhaus.

Genera. Coracina, Lesson. (Coracina, Temminck; Les Piauhaus, (Cotinga) Cuvier; Piauhau, Querula, Vieillot.)

Bill depressed, smooth, ciliated at the base, thick, narrowed at the point, angular above, a little curved towards the end, slightly toothed at the point; lower mandible a little flattened below; head and neck feathered, but without any ornamental plumes, and without any naked skin.

Example. Coracina scutata, Temm. Coracius scutata, Lath.

This species differs but little from Coractna rubricollis, Muscicapa rubricollis of Gmelin, in the colour of its plumage; but the wings are shorter. In C. rubricollis the plumage is all black, with the exception of the throat and front of the neck, which are of a purpled rose-colour. In C. scutata the red, which covers the throat and breast, goes as low as the upper part of the belly, and the bill is not black, as it is in C. rubricollis. Locality, Brazil, which is also the habitat of C. rubricollis.



[Coracina scutata.]

Gymnocephalus. (Coracina, Vicillot.)

M. Lesson observes that MM. Vieillot and Temminck place the Gymnocephali (Bald heads) among the Coracinæ, and that Cuvier contents himself with observing that Corvus calcus, Latham, the type of this new genus, has the bill of the Tyrants, with the ridge (culmen) a little more arched, and a great portion of the face denuded of feathers. Le Vaillant, he states, regarded this denudation of the skin in the front of the head as the result of a particular habit, and in the 'History of the Birds of Paradise' has printed a note, in which he affirms that he had received from Cayenne a specimen, having this part well covered with feathers; but, M. Lesson adds, that he himself had seen at Rochefort more than twenty skins of Gymnocephali, and that all had the face bare of feathers. However it may be, he continues, this genus entirely requires revision.

nues, this genus entirely requires revision.

Example. Gymnocephalus calcus, Coracina gymnocephala, Vicill., Corvus calcus, Lath., Capachin Bald-Head. Size of the crow, and of the colour of Spanish snuff,

or, as some authors write it, Capuchin colour, whence the Creoles of Cayenne give it the name of 'Oseau mon père.' The quills and the tail-feathers are black. The large beak and ample forehead bare of feathers give a singular air to this bird. Vieillot observes that it has been compared to the rook, on account of the nakedness of the head, a comparison which seems to him just; 'for,' says Vieillot, 'it has not this part naked till it is adult, the young, like the young rook, having the head entirely feathered, and even the nostrils covered with small setaceous feathers, as I can testify, from the inspection of a young individual, of which I have made mention in the first edition of the Noureou Dictionnaire d'Histoire Naturelle.' Locality, Guiana.



Gymnoderus. (Coracina, Vieill., Temm. Cotinga, Le Vaill.)

The principal characters of Gymnoderus, Geoffroy-Saint-Hilaire, rest on the possession of a bill like that of the Coracinæ and Cephalopteri, with a partially naked neck and a head covered with velvety feathers.

Example. Gymnoderus fætidus, Coracina gymnoderu, Vieill., Corvus nudus, Lath., Gracula nudicollis, Shaw., Gracula fætida, Linn., Col-nu, Buff. Rather larger than the jackdaw, but the body is thick and fleshy. The sides of the neck are entirely naked, and only present some traces of down. Buffon's figure, on the contrary (Planches



(Gymuoderus futidus, male.

enlum. 609), represents this part as being clothed with a considerably thick down. Upper part of the head, back of the neck and throat, covered with small close-set feathers like black velvet. External edges of the quills of the middle of the wing, the last quills, and all the wing coverts, bluish grey. Great quills and tail-feathers black, with bluish reflections. The rest of the plumage, bill, and feet, black. Eyes red brown, with a yellow skin beneath. The female is smaller, and of a brownish black. Locality, Brazil and Guiana Brazil and Guiana.

#### Cephalopterus.

Bill strong, robust, mandibles nearly equal, the upper one convex and scarcely curved at the summit, not notched one convex and scarcely curved at the summit, not notched at the point; lower mandible flattened below. Nostrils longitudinal, open, hollowed into an oval excavation; bristles at the border of the bill, which infringe a little on the frontal feathers. Two rows of feathers, taking their origin on the forehead, and elevating themselves into a plume or crest on the head. The feathers of the neck form a kind of product a large in feathers. form a kind of pendant pelerine in front of the neck, which

Example. Cephalopterus ornatus, Coracina cephaloptera, Vieill. Colour a uniform blue black. Head and base of the bill ornamented with a plume or crest, forming a sort of parasol, composed of straight elevated feathers, with white and stiff shafts, and terminated by an ear (épi) of black beards, which projects forwards (se renverse en devant). The sides of the neck are naked, but long feathers form-ing a loose pelerine, and hanging down lower than the breast, spring from beneath the throat and from the sides of the neck. Tail long, slightly rounded. General plumage of a deep black. Crest and feathers of the pelerine giving

metallic reflections (Lesson).

The bird that furnished the description was brought to M. Geoffroy-Saint-Hilaire from Lisbon. M. Lesson states that the belief was that it came from Brazil, but that a wellinformed Portuguese had told him that it was from Goa.

M. Vieillot says that the colour of the naked skin of the neck is cerulean blue. Mr. Swainson, in his 'Natural History and Classification of Birds, London, 1836, says, 'The crest of this extraordinary bird is immensely large, advancing so far in front as to touch the end of the bill, and it is compressed in the same manner as that of Rupicola; but the ends of the feathers, instead of meeting so as to form a sharp ridge, suddenly recede from each other, curve outwards, and form a most elegant drooping line of plumes, hanging over on the sides, so as to shade the face like an umbrella. The figures that have hitherto been given of this rare bird are all taken from the specimen in the Paris Museum, and which has been sadly distorted in the setting A minute examination of this specimen has convinced us that the frontal feathers, instead of being raised over the



[Cephalopterus ornatus

bill, as Temminck represents them, partly repose and over-shadow it, at least as much as do those of Calyptomena and The species above noticed is the Rupicola (vol. i. p. 41).'

Rupicola (vol. i. p. 41).' The species above noticed is the only one known.

CORAL. [POLYPARIA CORTICIFERA.]

CORALLIA. [POLYPARIA CORTICIFERA.]

CORALLINES. [PSEUDOZOARIA.]

CORANTO, a quick dance. [COURANTE.]

CORBEL, a projecting piece of stone, wood, or iron, placed so as to support a weight of materials. Corbels are sometimes in the form of the modillion or mutule employed in entablatures, and also like the console of a window. Small semicircular towers projecting at the angles dow. Small semicircular towers projecting at the angles on perpendicular surfaces of large towers or other edifices are supported on a series of plain or moulded corbel stones. In some of the colleges in Oxford and Cambridge the mullions and roof of semicircular windows are supported mulions and roof of semicircular windows are supported in the same manner. The machicolations of towers are almost always supported on corbel stones, as may be observed in the old gates of Southampton, Canterbury, and York. This projecting of one stone beyond another is technically called 'corbelling out.' This is done in brickwork as well as in masonry. In the interior of some churches the construction of the roof appears to be supported on carbels, the ends of which are often carried and ported on corbels, the ends of which are often carved, and represent an angel holding a shield. In Norman archi-tecture the cornice is supported by a row of corbel stones, the ends of which are also carved. In old English castles the main beams of the floors were frequently carried on large corbel stones, as at Porchester Castle. The term bracket is sometimes used for a corbel. Bracket however wooden brackets often differ from corbels and cantilevers in being merely nailed to a perpendicular piece of wood and not having a bearing on a wall, as is always the case with corbels and cantilevers.

CORCY'RA (Kiprupa, Kerkúra), the Roman name of the modern island of Corru. Though the name is written Kerkura in the Greek authors, it seems that all the extant

coins have KOPKYPA (Korkura). [CORFU.]



[Coin of Corcyra.]

British Museum. Actual size. Silver. Weight, 76 grains.

CORD, frequently spelt chord, means an elastic string fixed at the two extremities and stretched with force suffi-cient to enable it to yield a musical note. [Acoustics, vol. i., p. 97. Throughout this article A means the article Acoustics, and the page and column of vol. i. are referred to.]
The close analogy which exists between a string and a column of air in a state of vibration would require more space to elucidate properly than this subject will allow us to give: we shall therefore assume some results of mathemaconsider the theory of the vibrating cord independently.

Firstly, we suppose our cord to be of uniform thickness

ristly, we suppose our cord to be of uniform thickness and density, so that any given length is precisely of the same quality, from what part soever of the string it may be cut. The want of this condition being practically fulfilled is sometimes sensibly felt in violin and violoncello strings, which are then called false. A player whose intonation is perfect upon a perfect string, has to learn a new instrument when he attempted to be write. ment when he attempts to play with a false string; to say nothing of the harmonics which must be heard more or

less becoming discordant.

Let us first suppose a string of indefinite length, and not so acted upon by gravity as to hang downwards, stretched at the two ends by equal weights. The string is a cylinder of uniform diameter and density. Let us next suppose that a part of the string is placed on a mould which catches two points and holds them fast, and stretches the intermediate part into a curve which differs very little from a straight line. Let the mould be suddenly removed, and let us fur-ther suppose that, in removing it, we are able to communi-cate any velocities we please to the different points of the stretched part. We have then, at the moment of starting, a system represented in the following diagram, where AB



(dotted) represents the part in question before the mould was applied, and it is ACB the instant the mould is taken away, all the points between A and B being in a state of motion upwards or downwards. The string will not remain an instant in its present state: the first presumption is that the moment the points A and B are set free a disturbance will take place in the parts of the string both between P and A, and between Q and B, the disturbance travelling from A towards P as well as from B towards Q. The first point in which we are interested is this: with what velocity will the disturbance be propagated? and the answer is, that the disturbance travels throughout the string with the same velocity, depending upon its material and the weight with which it is is stretched, according to the following law: Let each of the equal weights P and Q be as heavy as c freet of the string: then the velocity of communication is so many feet per second as a bullet would acquire, if it were allowed to fall in vacuo down a perpendicular of c feet, or  $\sqrt{2gc}$  where g is the velocity which gravity communicates in one second, or 321 feet. For instance, let the string be iron wire, every cubic foot of which weighs 7200 ounces avoirdupois. Let the diameter be one-twentieth of an inch, and let the weights P and Q be each 20 pounds or 320 ounces. Then the weight of x feet of the string is (\frac{1}{26}\) of an inch being \frac{1}{26}\) of a foot)

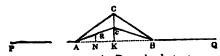
inch being  $\frac{1}{3}$  of a foot)  $3^{1}4159 \times (\frac{1}{48})^{2} \times x \times 7200 \text{ ounces}$ which made equal to 320 gives x = 3259.5 feet and

 $\sqrt{2 \times 32 \frac{1}{6} \times 3259 \cdot 5} = 457.93 = 458$  nearly, or 458 feet per second is the rate at which the disturbance is communicated. [CYLINDER.]

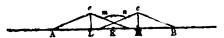
We now ask what is the nature of the disturbance com-municated. It suggests itself as possible, that there may be some species of disturbances which travel only in one direction: for instance, that we might so proportion the velocities of the disturbed points to their positions, that AP should remain undisturbed, that the points from A towards the right should drop one after another into their places, while those from B to Q should be successively disturbed.

The answer, again derived from mathematics, is, that such disturbance is possible, and that the conditions under which it will take place are: 1. That C being the highest of the disturbed points, all the points from A to C must be moving dounwards at the first instant, and all those from B to Q upwards. 2. That the velocity of the points must be as follows: At any point R draw a tangent RT to the curve of disturbance. Then the velocity of the point R must be such as would, if continued uniformly, carry the point R from R to N or from N to R in the same time as the whole disturbance is propagated from T to N. These conditions being fulfilled, we may represent the successive states of the string by cutting out a piece of paper of the form ACB, and carrying it along the string PQ at the uniform rate per second which we have found for the propagation of the disturbance. If the directions of the velocities be all reproduct than the disturbance travels from R tempered. versed, then the disturbance travels from B towards P. Let us call such disturbances simple; and with respect to the direction in which they travel, direct or retrograde. We further learn from mathematical analysis, that any disturbances whatsoever, taking place upon the same points at the same instant, produce a compound disturbance of which the values of RN and the velocities at the point R in the compound disturbances are the algebraical sums of the values of RN, &c., in the component disturbances. And moreover, that any disturbance whatsoever, be the law of its form and velocities what it may, can be compounded of two simple disturbances, one direct and one retrograde. So that the moment the mould is removed, the disturbances will begin to travel in different ways. As long as they have not completely separated, there will be points remaining under the effects of both; but when they have had time to separate completely, we should, were the rapidity of transmission not too great, see the direct disturbance travelling by itself in one direction and the retrograde in the other.

To illustrate this, suppose we wish to ascertain the effect is repeated 250 times per second. From M to N there is of the disturbance ACB, as drawn, the velocities throughout being nothing at all at the instant the mould is without being nothing at all at the instant the mould is without powerful at M and N, owing to the coincidence of the disdrawn. The two simple disturbances which would produce turbances. This is repeated 250 times in a second, and



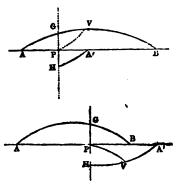
this are two of the form AcB, such that at any point R the velocity would bring the point through RN while the disturbance is communicated through AN. If we suppose a direct and retrograde disturbance of such a kind, there will be at the first moment no velocity at any point of ACB, since those of the direct and retrograde disturbance com-



pensate each other throughout. But let a time elapse during which the direct and retrograde disturbances travel to M and L. Then the form of the string at that moment will be  $Ac\ mn\ c$  B, where the part mn arises from the composition of the two parts of the disturbances which yet remain acting on the same points. (See another in stance of composition, A. 92.)

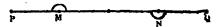
We may thus trace the effect of disturbance upon an in

We may thus trace the effect of disturbance upon an in definitely extended string; but such a string would produce no musical sound, for which (A. 95,2) it is necessary that there should be a continued reiteration of the same action upon the air repeated at equal intervals. Now supposing a finite string, stretched at the ends, we must ask what takes place when the disturbance comes to the end of the string. And from mathematical analysis again, the following is the answer: Let P be the fixed end of the



string, and choose the instant at which, had the string continued, the disturbance would have been BVA. Make a disturbance H A' equal and opposite to GA, and let it be compounded with GVB, on the supposition that it is part of a disturbance proceeding from P, such as would by itself bend the string in the opposite direction. Then PVB or PVA' is the state of the string at that instant. In fact, the disturbance is converted into an equal and opposite disturbance proceeding in the contrary direction.

Now let us suppose a string like that of a piano-forte, sharply struck near one end. It is altogether a gratuitous assumption, knowing what we do of the imperfect elasticity of matter, to suppose that the disturbing effect of the blow immediately affects the whole string. A certain disturbance is produced upon a part (it may be a very small part) of the string. Then what is that perceptible phenomenon, the reiteration of which produces a musical tone? Let us suppose the string struck at one-fourth of the length from its end, and suppose that the tension is such that disturbance is propagated at the rate of 2000 feet a second, the length being four feet. A disturbance is produced at M,



from which two simple disturbances begin to travel towards P and Q, at which they are reflected with the same velocities. They will be at N together producing a disturbance (now recompounded) of the same amount as before, but on the opposite side of the string. This takes place while four feet are described at 2000 feet per second, or is repeated 250 times per second. From M to N there is then a succession of effects upon the air, which are most powerful at M and N, owing to the coincidence of the disturbances. This is repeated 250 times in a second, and

yields the masseal note corresponding to that number of prevolutionists struck deep root in her enthusiastic mind; serial pulsations per second.

We must again advert (A. 97-2) to the use of the term vibration. The complete vibration in our use of the word is made while the disturbance travels from M to N. Thus some writers say 16 vibrations per second give the lowest musical sound, where we say it is 32. But their vibration musical sound, wi

By supposing the whole string put in vibration, or any simultaneous disturbances communicated to it, the effect may similarly be shown to be, that at the end of the time during which disturbance would be propagated along the whole string the effects are all reversed, but are of the same whole string the effects are all reversed, but are of the same magnitude; while in a second of such time they are all restored. We thus easily arrive at what is called the fundamental sound of a string. With regard to the harmonics (A. 96-2) of a string [Harmonics], they are not so easily shown to be necessary. We shall, however, first show that such effects are always possible; that is to say, that if a string begin to vibrate so that its two halves, or its three thirds. As a part disturbed together, such an effect will be thirds, &c. are disturbed together, such an effect will be produced. Suppose, for instance, the initial state of the string to be PMNQ, where PM, MN, and NQ are the



thirds. During the time in which the direct disturbance of PM would be communicated to MN, that of MN would be communicated to NQ, the direct disturbance in NQ would be made retrograde, and so on. Hence though the whole string may vibrate, each of the parts has a vibration by itself in one third of the time. If we were to destroy the vibration of the whole string by compounding with the preceding such a disturbance as would always destroy the velocities at M and N, there would then be three strings, each vibrating in one-third of the time of the whole string. The ear can appreciate such contemporaneous sets of vibrations, and accordingly in this case perceives both the fundamental note of the string and the twelfth above it. If a large and miscellaneous set of disturbances be communicated at once, those only will exhibit cycles of effects, which make the halves, the thirds, &c. vibrate together, and we can say little more without entering into mathematics. But in a string it may always be observed that we seldom hear the octave of the fundamental note, and generally the twelfth and seventeenth. No reason can be given for this which is perfectly unobjectionable we do not know whether it is the aptitude of the ear to distinguish these, or of the string to take the corresponding divisions, which is the cause of the phenomenon.

The time of vibration of a string, that is, of complete reversal of all the initial effects, is  $l = \sqrt{2gc}$ , where l is the length, and c is as before. It is therefore directly as the length and inversely as the square root of the tension; results which are amply confirmed by experiment.

In all that has preceded we have supposed the string perfectly elastic, and without friction. Neither of these suppositions is true, but since the velocity of propagation of every disturbance is independent of its extent, the gradual diminution of the latter will not affect the pheno-

menon on which the musical qualities of the string depend.

(A. 97-2.) The method of observing the curves in which each point of a string vibrates, recommended by Dr. Young, was to use a string round which small wire is coiled, like the larger string of a violencello, and to observe with a the larger string of a violencello, and to observe with a microscope the reflection of a candle or other bright spot on one of the coils. Sir J. Herschel suggests that a thin slit should be made in a window-shutter, and that the string should be placed with the point to be examined cutting the vertical plane of light. This point would therefore appear bright while the rest is dark. In either case the rapidity of the vibrations would make the curve decayibed by the bright point permanent.

described by the bright point permanent.

A single string litted up for experiments is called a MONOCHORD.

MONOCHORD.

CORD (in music). [CHORD.]'

CORDAY D'ARMANS, MARIE ANNE CHARLOTTE, commonly called CHARLOTTE CORDAY, who
numbered among her ancestors the great tragedian Corneille (Lepau, Chefs d'Œuvre de Corneille), and was of

and her zeal for their establishment was heightened after the rise of the Jacobins, and the overthrow and proscription of the Girondists, May 31, 1793, by the presence and conversation of those chiefs of the latter party who fied into Normandy, in hope to rouse the people in their favour. Resolved to advance the cause which she had at heart by some extraordinary action, Charlotte Corday travelled to Paris, where, having gained admission to the galleries of the Convention, she was still more incensed by the threats and invectives which she heard showered upon her own

Being thus confirmed in the determination to assessmate one of the principals of the dominant faction, whether to deter them by terror, as an act of revenge, or as an example of what she regarded public justice, she chose Marat, one of the most violent and bloody of the Jacobins, to be her After two unsuccessful attempts, she obtained admission to the chamber in which he was confined by illness, July 15, under pretence of communicating important news from Caen; and being confirmed in her purpose by his declaration that in a few days the Girondists who had fled thither should be guillotined in Paris, she suddenly stabbed him to the heart: he gave one cry and expired Being immediately arrested and carried before the tribunal revolutionnairs, she avowed and justified the act. 'I have killed one man, she exclaimed, raising her voice to the utmost, to save a hundred thousand; a villain, to rescue innocents; a wild beast, to give peace to my country. I was a republican before the revolution, and I have never was a repulre in energy.' (Mignet, vol. ii., p. 5.) Not-withstanding her confession, the court, with an affectation of impartiality which in this case could be ventured on, as-signed her a defender, and went through all the formalities of trial. The speech of her advocate is rather remarkable. He neither denied nor extenuated the act; and acknowledged it to have been long premeditated. She avows everything, and seeks no means of justification; this, citizen-judges, is her whole defence:—this imperturbable calmness, this total self-abandonment—these sublime feelings, which, even in the very presence of death, show no sign of remorse, are not natural. It is for you, citizenjudges, to fix the moral weight of this consideration in the scales of justice.

Charlotte Corday returned thanks to the pleader. 'You was the only method of defence which could have become me.' She heard her sentence with perfect calmness, which she maintained to the last moment of life. Her personal charms were of a high order; and her beauty and animation of countenance, even during her passage to execution, added greatly to the interest inspired by her courage and loftiness of demeanour. She was guillotined July 17, 1793. (Biog. Univ.; Montgaillard, Hist. de France, &c., vol. iv.,

CORDELIERS, so named from wearing a knotted cord for a girdle, were the strictest branch of the Franciscan or Grey Friars. Chaucer mentions them in the 'Romant of the Rose,' l. 7461, but they were not much known by this appellation in England. The name Cordeliers is said to have been first given to certain Franciscans (at that time but recently established) who accompanied the army under St. Louis to the Holy Land. They served in a Flemish corps, the commander of which considered it his duty to report to the king not only their bravery, but their zeal in re-animating the soldiers of his division, who had been on the point of giving way. The king inquired the designation of the pious man but the officer had less his results. the point of giving way. The king inquired the designa-tion of the pious men, but the officer had lost his recollec-tion of it; he could only say that they were those 'qui sont liés de corde.' From this they received the new appellation of Cordeliers. St. Louis, upon his return to France, gave great encouragement to these Franciscans, and founded a convent for them in Paris. There were ultimately, ac-cording to Moreri, no fewer than 284 male and 123 female convents of Cordeliers in that country. (Moreri Piet Maconvents of Cordeliers in that country. (Moreri, Dict. Historique, chiefly from Hermant, Histoire des Ordres Reli-

gieux.)
CORDIA'CEÆ, a small natural order of Monopetalous exogens, with a shrubby or arborescent habit, a gyrate inflorescence, and a drupaceous fruit. The leaves are alternate, usually covered with asperities, and destitute of stipules. The calyx is inferior and five-toothed; the corolla noble family, was born at St. Saturnin, near Seez, in Nor- regular, with five stamens proceeding from the tube, and mandy, in 1768. The republican principles of the early alternate with the segments. There is a pendulous ovule in each cell, and the style is twice-forked. The cotyledons are crumpled or folded in plaits lengthwise. The affinity of the order is almost equal between Boraginacese and Convolvulacese, but preponderates in favour of the former. The only economical plants contained in it are the Sebesten plums, the produce of Cordia Myxa and Sebestena, the rand of which is succulent and mucilaginous. All the species are tropical.

CORDON, a military term to denote a line of posts and sentries placed around a district or town to prevent any communication between it and the rest of the country. is chiefly resorted to in cases of any contagious disease having broken out in a place, when it is called a cordon sanitaire; and in order to be effectual, each sentry ought to be able to see his two next comrades right and left. This can be done more easily in the day-time by taking advantage of commanding positions or open grounds; but at night the sentries must necessarily be more numerous and nearer each other.

Cordon in French means also the insignia of an order of knighthood, answering to the English word riband when taken in a similar sense: 'cordon bleu,' 'blue riband,' &c.

CORDONNIERS, originally cordonanniers, cordwainers in English, a word derived from cordoban, the soft tanned leather used for the upper part of shoes, which was first brought from Cordova in Spain, where it was manufactured by the Moors. A society existed at Paris in the sixteenth and seventeenth centuries, under the name of Frères Cordonniers, consisting of the shoemakers of that city, who formed a company, having their magistrates and other officers, and a common treasury, from which the indigent of their own trade were supported. The society was placed under the protection of St. Crispin, who had

was piaced under the protection of St. Crispin, who had been himself one of the same trade.

CO'RDOVA, or more properly CO'RDOBA' (Corduba, Colonia Patricia, and simply Patricia), was the birth-place of the two Senecas and Lucan. Cicero in his oration for Archias speaks rather disparagingly of the Cordubese poets of his day. Under the Spanish callphs it became the first cost of learning and the terrain of the cost of learning and the terrain of the cost of learning and the cost of learning a the first seat of learning and the terror and admiration of Europe, from 755 to 1234, when Ferdinand III. of Castile took it. It then contained 300,000 inhabitants. Soon after, in 1238, he repelled its masters, the Moors, as far as Granada, and prepared their total overthrow, which Ferdinand and Isabella accomplished in 1492. Of all the Asiatic grandeur of that empire there is only left its first mosque, which is unique in its kind, but has been partly defaced by its transformation into a Christian cathedral, more particularly since 1528, when some of its 1000 columns were de-stroyed to erect a chapel in the centre.

Cordova was also the centre of an extensive trade, and noted for the preparation of the goat skins called cordoban, a word corrupted into our cordwain, whence shoemakers derived in England their old name of cordwainers, and in France that of cordonanniers, and at last cordonniers.

Although Cordova has sunk into decay under the Christians, it has not ceased to produce literary men, among whom are Juan de Mena, Fernan Perez de Oliva, Ambrosio Morales, Góngora, &c. The great captain, although called

Gonzalo de Cordoba, was a native of Montilla.

Cordova at present contains only 45,000 inhabitants within its vast Roman and Moorish inclosure. The plaza mayor, or great square, is remarkable for its size, regularity, and neat piazzas. The bishop's palace is a massive building. That of the Moorish kings is now turned into stables for stallions of the renowned Cordovese breed. The town is situated on the north bank of the navigable river Guadalquivir, at the commencement of the finest plain of Andalusia, and on a gentle declivity which descends from the Sierra Morena, and shuts out the north and east winds. The climate of Cordova is delightful and healthy, and the ane vinance of Cordova is delightful and healthy, and the soil extremely fertile. It is 75 miles north-east of Seville, 120 north-east of Cadix, and 180 south-south-west of Madrid. It is in 37° 52' N. lat., 4° 45' W. long.

(Ponz, Viaje de España; Laborde, View of Spain, vol. ii., p. 29; Gibbon's Rome; Talbot's Travels; Fisher's Truvels, &c.)

COREA, is a large peniusula on the castern coast of Asia, whose sovereign is tributary to the emperors of China

and Japan, but otherwise independent.

The peninsula is surrounded on the east by the sea of January on the south by the straits of Corea—which di-rom the Japanese island of Kiou-siou—and on the te Hoang-Hai, or Yellow Sea, which separates it an estimate of the population.

from China Proper. It extends, from south to north, from 34° to 40° N. lat., or about 420 miles; but the countries north of the peninsula, as far as 43°, are also subject to the sovereign of Corea, so that the whole country from south to north may be 630 miles. Its width, lying between 124° E. lat., varies from 100 to 200 miles. Its area and 134° may be about 90,000 square miles, or somewhat more than Great Britain.

Corea appears to be a very mountainous country. On its northern boundary is the Chang-pe-shan, a high mountainrange, partly covered with snow, which separates the Coreans from their northern neighbours, the Manchoo. From this chain another branches off in a south-south-east direction, which traverses the whole of the peninsula as far as the strait of Corea. Its highest part is near the shores of the sea of Japan, towards which it descends with great rapidity; and in this part the level or cultivable tracts are of small extent. The numerous offsets to the west, which are less clevated and steep, contain between them large and

well-cultivated valleys.

The largest rivers occur in the northern part of the country, where the Thumen-Kiang, rising in the centre of the Chang-pe-shan, runs north-east, and towards its mouth east. It falls into the sea of Japan. Its banks, though fertile, are uninhabited, in conformity to the order of the Chinese emperor; the object of this policy being to have a well-settled boundary between Corea and the Manchoo. The Yalukiang rises nearly in the same place, and runs first west, then south. It falls into the Hoang-Hai, according to the Chinese geographers, with twelve mouths. It is said to be navigable for junks 35 miles (100 lees), and for barges about 180 miles (520 lees). The rivers which traverse the valleys of the peninsula have a short course.

The coasts of Corea are high and bold, except in the innermost recesses of the numerous bays and harbours. There are few islands along the eastern shores, except in Broughton's Bay (39° 30' N. lat.), where they are numerous. In the strait of Corea they are also very numerous, and still more so between the island of Quelpaerts and the southern coast. Between 34° and 35° N. lat. and 125° and 126° E. long., Captain Maxwell found the sea literally dotted with islands and rocks, which he called the Corean Archipelago, and the most south-western group Amherst Isles. Farther north (38° N. lat.) is another group, called James Hull's Archipelago. These islands are rocky and high, but generally inhabited. They are rarely more than three or four miles in length. The largest, the island of Quelpaerts, south of the peninsula, is about sixty miles in circuit, and in the centre a peak rises upwards of 6000 feet above the sea.

Corea is a very cold country. For four months the northern rivers are covered with ice, and barley only is cultivated along their banks. Even the river near King-ki-tao freezes so hard that carriages pass over the ice. In summer the heat appears not to be great. On the eastern coasts fogs are frequent; and La Perouse thinks he may compare them in density with those along the coasts of Labrador.

Rice is extensively cultivated on the peninsula, as well as cofton and silk, which are employed in the manufactured state. Hemp is also cultivated, and in the northern district ginsong is gathered. Tobacco is raised all over the country.

Horses and cattle are plentiful on the mountain-pastures The former, which are small, are exported to China. In the northern districts the sable and other animals give fur. The royal tiger, which is a native of the country, is covered with a longer and closer hair than in Bengal. On the eastern coast whales are numerous. It seems that Corea is rich in minerals. Gold, silver, iron, salt, and coals, are

noticed in the Chinese geography.

The inhabitants, who are of the Mongol race, resemble the Chinese and Japanese, but they are taller and stouter. Among them are some whose appearance seems to indicate a different origin. They speak a language different from the Chinese and Manchoo, though it contains many Chinese words. They have also a different mode of writing it. though the Chinese characters are in general use among the upper classes. In manner and civilization they much resemble the Chinese, and are likewise Buddkists. Education is highly valued, especially among the upper classes. They seem to have a rich literature of their own, but they have a rich literature of their own, but they have a rich literature of their own, but they have the language is very imperfectly known in Function. language is very imperfectly known in Europe. The valleys seem to be well peopled; but we are so little acquainted with the interior, that hitherto nobody has ventured to give

King-ki-tao, the capital, which is a few miles north of a considerable river Han-kiang, appears to be a large place, and is said to possess a considerable library, of which one of the brothers of the king is chief librarian. The name of this town is properly Kin-phu, near Hanhang, or Hanyang. The

mouth of the river Tsing-kiang (between 34° and 35°), on the western coast, is said to have a very spacious harbour.

Fushan, according to the Chinese geography, called by Broughton Chesan or Thosan, is a bay at the south-eastern extremity of the peninsula, opposite the Japanese island of Tsu-sima, at the innermost recess of which the town of King-tsheou is built, which carries on an active trade with Japan, and is the only place to which the Japanese are permitted to come.

In industry the Coreans do not appear to be much inferior to the Chinese and Japanese. They mainly excel in the manufacture of cotton cloth and cotton paper, both of which are brought in great quanties to Peking. Other manufactured articles which are exported are silk goods, plain and embroidered, and mats. They have attained considerable skill in working iron, as swords are sent, with other articles to the emprove of China as tribute. other articles, to the emperor of China as tribute.

No country is less accessible to Europeans than Corea. They are not permitted to remain even a few days on any part of the coast. It is not well known what is the reason of this policy, but it seems that the mutual jealousy of the neighbouring Chinese and Japanese holds the king in great subjection. The commerce of the country is accordingly subjection. The commerce of the country is accordingly limited to China and Japan; and even with these countries is restricted in a very strange way. No maritime intercourse is allowed between China and Corea, but all commerce is carried on by means of the narrow road which leads along the sea to the town of Fang-hoan, in Leao-tong. But as it traverses the wide district which by order of the Chinese emperor must remain uninhabited, it has become the haunt of numberless ferocious animals, and hence the passage is much dreaded by travellers. Commerce therefore is principally carried on in winter, when the shallow Hoang-Hai is covered with ice along its shores, which are more fa-vourable to the transport of goods than the bad mountainroads. Besides the above-mentioned manufactured goods, gold, silver, iron, rice, fruits, oil, and some other articles, are brought by this road to Peking. We do not know what the Corcans take in return to their country. The commercial in-tercourse between Corea and Japan is limited to that between the island of Tsu-sima and the bay of Chosan, and is carried on by Japanese merchants, who have their warehouses at each place. They import sapan-wood, pepper, alum, and the skins of deer, buffalos, and goats, with the manufactured articles of Japan, and those brought by the Dutch from Europe; they take in return the manufactures of Corea, and a few other

articles, especially ginseng.

We know nothing of the political condition of the country, except what is communicated by Klaproth from the Japanese geographer Rinsifee; according to whom there are sixty-four commanders of 10,000 men, which would give an army of 640,000 men, and 213 war-vessels. Ritter thinks that these and many other statements of the geo-grapher are taken from the court-almanac of King-ki-tao, and that little reliance can be placed on them. (Broughton; Maxwell, in Ellis's Journal of Lord Amherst's Embassy; Mac Leod; Basil Hall; Hamel van Gorcum; Klaproth, in San Kohf Tsou; and Ritter's Asien.)
CORELLI, ARCA'NGELO, on whom his countrymen

bestowed the cognomen of 'Il Divino,' was born at Fusig-nano, in the Bolognese territory, in 1653. Adami says that his instructor in counterpoint was Simonelli; and it appears pretty certain that his master for the violin, the instrument of his early adoption, and which he never abandoned, was of his early adoption, and which he never abandoned, was Giambattista Bassani of Bologna. It is stated by the Rev. Mr. Mainwaring, in his Life of Handel, that Corelli went in 1672 to Paris, but that through the jealousy of Lully he was soon obliged to quit that city. On this fact Dr. Burney attempts to throw discredit, but there is no reason to doube its correctness. In 1680 Corelli visited Germany, where he received extraordinary honours, not only from the public, but from sovereign princes, among whom the elector of Bavaria distinguished himself by the hospitable manner in which he treated the great musical genius. He returned to Rome at the expiration of about two years, and published his first set of 'Twelve Sonatas for two Violins and a Base,' in 1683. A second series appeared in 1685, entitled 'Balletti da Camera.' These were succeeded in 1690

by a third set; and the fourth was published in 1694. His admirable sonatas for violin and base, or harpsichord, in which all violinists are early initiated, were printed, with a dedication to the electress of Brandenburg, in 1700. When James II. sent, in 1686, the earl of Castlemaine as ambassador to the pope, Christina of Sweden, then at Rome, celeperformed, in the holy city. The band employed on this occasion consisted of 150 stringed instruments, a prodigious and unprecedented force for those days, and Corelli was chosen as leader, which duty he performed in so satisfactory a manner, that the Italian opera in Rome was placed under his direction chiefly, and in 1700 had arrived at a degree of excellence which it had never before attained in the capital of Italy. He now gained the friendship of the well-known patron of art, the Cardinal Ottoboni, at one of whose Accademie he met Handel, then travelling in Italy. As a mark of attention to the great German composer, the cardinal had the serenata, Il Trionfo del Tempo e della Verità (afterwards altered into The Triumph of Time and Truth) performed, the overture to which being in a style quite new to Corelli, he led it in a manner that displeased the new to Corelli, he led it in a manner that displeased the irascible composer, who rudely snatched the violin from the hands of the gentle Italian. Corelli no farther resented this indignity than by calmly observing, *Mio caro Sassone*, questa musica è nelle stile Francese, di ch' io non intendo. (My dear Saxon, this music is in the French style, which I do not understand.) Some satire was half concealed in this remark, for Handel at that time certainly imitated Lully's overtures, and the inuendo, which was a lenient punish ment for conduct so violent, could not have been misunderstood by him. Corelli, however, though an exquisite per-former in regard to expression and taste, had devoted more of his attention to those high qualities which ought to be considered paramount to all others, than to what is commonly understood by the term execution; he consequently was sometimes embarrassed by having music placed before him which at first sight he could not easily master, and was abashed on finding that musicians infinitely inferior to himself could play it without preparation or hesitation. It was at Naples that he met with some mortifications of the kind alluded to, which prompted him to quit abruptly, and somewhat chagrined, that city, to which he had been very warmly invited, and where it was intended that he should be received with every mark of distinction.

Corelli's greatest work, his Concerti Grossi, or Twelve Concertos, were written many years before they appeared in print. They were engraved in score at Amsterdam, and published in December, 1712, six weeks only before their author breathed his last, an event which took place on the 18th of January, 1713. He was buried in the church of Santa Maria della Rotunda (the antient Pantheon), where a monument, with a marble bust, is erected to his memory, near that of the greatest of painters, Raffaelle. On the pedestal is a Latin inscription by the cardinal Ottoboni, which records in simple and elegant terms the merits of the composer and the friendship of the writer.

Like many other original geniuses, Corelli was too sensitive to be happy. Occurrences which he should have suffered to pass unnoticed made a deep impression on him, even to the injury of his health. The success of Valentini, whose concertos and performance, though infinitely inferior to Corelli's, became fashionable at Rome, so much affected the great composer—who, having acquired much wealth, ought to have treated fashion with the disdain it generally deserves—that it is supposed to have aggravated the malady which caused his death. Corelli's best works are imperishable. Rousseau has said, that he who without tears can listen to Pergolesi's Stubat Mater may feel assured that he has no genius for music. We will also risk an assertion—that those who can without admiration hear the eighth concerto of Corelli, as performed at the Antient Concert, though they may be able to boast great powers of execution as instrumentalists or vocalists, can have no perception of the higher beauties of composition—can possess

no soul for pure harmony.

CORFE CASTLE. [DORSETSHIRE.]

CORFU, the island of, the antient Corcyra, lies off the coast of Epirus, from which it is separated by a channel of very irregular width, being fourteen miles in some places, eight miles opposite the town of Corfu, and only two at its north outlet near Butrinto. The length of the island, which describes a slight curve from Cape St. Catharine, Cassiope Promentorium, in 39° 51' N. lat., to Cape Bianco, in 39° 21', is about 38 miles. Its breadth is very unequal; in the north part, which is much the widest, it extends nearly 20 miles, from 19° 36' to 19° 57' E. long. Further south, the island becomes very narrow, being only six miles between the Bay of Yliapades to the west, and the harbour of Gouin to the east. It widens again in the latitude of the town of Corfu, where it is about eleven miles; it then contracts to the south of it, to three or four miles in breadth, terminating in a high narrow cape. (Map of the N. part of Greece, published by the Soc. for the Diffusion of Usef. Know.) The surface of the island is of 227 square miles, and is generally mountainous, especially in the north part. The highest point, according to F. Beaujour, is about 1900 feet above the sea. The mountains are rocky and naked, but the valleys are fertile, and watered by many streamlets, which, however, are mostly dry in summer. The most considerable streams are the Missongi and the Potamo. The island produces oil, wine, vegetables, fruit, flax, and some corn and pulse. Unlike most of the other islands, Corfu produces no currants. There are but few timber-trees on the island. The cattle consists of horses, mules, sheep, and pigs. The game consists of wild fowls, snipes, quails, pigeons, &sc. Oil forms the principal article of exportation, and the making of it employs about 1000 presses. The wine, which is mostly of a rough taste, is used at Corfu and in the other islands. Salt is got in considerable quantity in the salt-marshes, which communicate with the sea

The island is divided into seven cantons: 1° . Corfu. with the town of that name, which is the capital of the island, as well as of the Ionian Islands. The town consists of three parts, the citadel, the town properly so called, and the suburbs. The citadel, which is at the extremity of a cape, and divided from the town by wet ditches and an esplanade, forms a little town with several private houses and churches, and the palace of the lord high commissioner, besides the arrenal and barracks. Two strong castles built upon steep rocks command the whole. The town, properly so called, is surrounded by walls and ramparts, and strengthened by everal forts, called Fort Tenedos, Fort Abraham, Fort St. Salvador, and the New Fort. Three gates open on the sea-shore and one on the land-side. The houses are mostly two stories high, with terraces at the top. The streets are tolerably well paved, and are lined with arcades. The cathedral and five other churches belong to the Greek Latin church; there are also many churches and chapels of the Greek communion, among which that of S. Spiridion is the principal. Corfu is the residence of the arch-bishop of the Greek Latin church, of the senate, the high court of appeal for all the islands, as well as the civil, criminal, and commercial courts for Corfu. The university, which was first crened by Lord Guilford as chancellor in 1824, has four faculties, theology, law, medicine, and philosophy, and fourteen professors. The lectures are given in modern Greek. There are also a secondary school or gymnasium, an ecclesiastical seminary, and several pri-mary schools, all supported by the government, at the annual expense of 3483*l*, sterling; and a society for the improvement of agriculture and industry. There is an account of the system of instruction followed in the secondary schools of the Ionian Islands in Journal of Education, No. I.
The harbour of Corfu, which is one of the best in the Levant, and has a depth of about 80 feet, is formed by the island of Vido, the rocks called Condilonisi, the Lazzeretto island, and the New Fort.

There being a great scarcity of spring water in Corfu, cistern water is commonly used, and in summer the water for drinking is brought on assess from the river Potamo, about a mile and a half from the town. The suburbs, called Castrati, S. Rocco, and Mandrachio, are considerable. The whole population of the town and suburbs is 15,800, 4000 of whom are Jews. (Neigebaur.) From the suburb of Castrati a walk of about a mile and a half in a southern direction leads to the small bay of Palsopolis, where Chrysopolis, the town of the Physicians, is said to have stood. The shores of this bay are planted with myrtle, laurel, pomegranate, and orange trees, and are the favourite resort of the citizens. They are called the gardens of Alcinous. (Marmora, Istoria di Corfu, with plates of many fine coins of antient Corcyra.)

The other districts of the island are: 2°, Liapades, with the town of the same name, 2500 inhabitants; and Chorachiana, with 2000; besides several villages. 3°, Perotia,

which comprises the north-eastern part of the island; the little town of the same name lies at the foot of Mount San Salvador, the highest in the island, having a convent on the summit. On the sea-coast, near the site of the old town of Cassiope, rises a village still called Cassopo. 4°, Agrafus occupies the north-western part, with the little town of the same name, and several hamlets. Twelve miles north-west of this part of the coast is the island of Fano, which lies about 50 miles from the nearest point of the coast of Otrapto in Italy. The island is six miles round, barren, and inhabited by a few fishermen. 5°, Spagus, which lies south of the preceding, is the most fertile and populous in the island; it has two good natural harbonrs, San Nicolo and Affiona. On Cape S. Angelos is a monastery, which stands on the ruins of an old castle built in the thirteenth century by Michael duke of Corfu. 6°, Strongili, south of the canton of Corfu, has two small market-towns and several villages. 7°, Milichia, the southernmost canton, is fertile, and contains about 10,000 inhabitants. (Neigebaur, Ionische Inseln.)

island, are mentioned by Homer as a numerous, thriving. and seafaring people; and he paints in pleasing colours their hospitable and primitive manners. (Odyssey, vi. vii.) According to some (Strabo, Casaub. 269), it was called Scheria. and was inhabited by the Liburni, when a Corinthian colony settled on the island, about the time when another colony under Archias founded Syracuse. The Corinthians built the town of Corcyra, which became also the name of the island. This colony rose to be the most powerful naval state of Greece, next to Athens. The Corcyreans having quarrelled with the Corinthians on the subject of Epidamnus [COLONY], a war followed between the two states, which was a prelude to the great Peloponnesian war. had at first the advantage, and defeated the Corinthian fleet off Actium; but the Corinthians being joined by other states of the Peloponnesus, the Corcyrseans had recourse to Athens, which made a defensive alliance with them. The Corcyræan flect of 110 triremes, besides ten Athenian auxiliary ships, engaged with the Corinthian fleet at the south entrance of the channel, near the coast of Thesprotia. The fight ended in favour of the Corinthians, but the appearance of a fresh Athenian squadron of twenty triremes induced them to return home. (Thueyd. i. 50-1.) After this, Corcyra was distracted by civil commotions between the aristocratic and democratic factions, the former being favourable to the Peloponnesian or Spartan alliance, and the latter to the Athenian. Atrocities were committed by both, which ended in a general massacre of the aristocratic party, connived at by the Athenian commander. (Thucyd. iv. 47-8.) This tragedy occurred B.C. 425. The island remained in the Athenian alliance till the end of the war.

The Illyrian pirates took Corcyra, as well as several towns on the coast of Epirus, about 220 B.C.; but the Romans under Caius Fulvius came with a fleet, defeated the Illyrians, and retook Corcyra, which from that time seems to have remained under the patronage of Rome. (Polybius ii. 1.) About 210 B.C., we find the consul Valerius Levinus stationed at Corcyra with his fleet, giving assistance to the Ætolians in their wars against the Acarnanians. (Livy xxvi. 24.) Coreyra under the Romans was an important station for their fleet, and also a resting-place for those who went and came from Greece by way of Brundisium. It continued to belong to the eastern empire until the eleventh century of our wra, when Robert Guiscard, the Norman conqueror of Apulia, took the island. When the Latins took Constantinople, and established fless in the provinces. Corfu had its dukes, who were styled Despots of Epirus and Corfu. It fell afterwards under the Angevins of Naples, but the people revolted and called in the Venetians in 1386. Corfu remained under Venice till the end of the eighteenth century, notwithstanding repeated attacks of the Ottomans, the most remarkable of which was in 1714. when they besieged Corfu with 30,000 men, and made several assaults, but were repulsed by General Schulemburg, who commanded the garrison. The island was administered by Provveditori sent from Venice; but the internal or mucicipal administration was in the hands of the native noble-The judicial system appears to have been bad, and murder, were very frequent. When Bonaparte overthrew the Venetian senate, under pretence of establishing a popular government, the democrats who came into office at Venice sent comment. missioners to Corfu with orders to deliver the forts to their

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allies the French, who sent troops on board the Venetian men of war, and took possession of the island without opposition. In 1799 a united Russian and Turkish force wrested Corfu from the French, and in the following year the republic of the seven united Ionian islands was constituted under the protection of Russia and the Porte. By the peace of Tilsit Russia gave up the seven islands to the French, who sent garrisons from the coast of Naples. The English however took all the islands except Corfu, which was given up by France by the peace of Paris in 1814. The seven islands were then restored to their independence, and formed into a state under the protection of the king of Great Britain, represented by a lord high commissioner who resides at Corfu.

presented by a lord high commissioner, who resides at Corfu.
The present constitution of the seven islands was proclaimed in January, 1818, under the sanction of Great Britain. The parliament or legislative assembly consists of forty members, eleven of whom have their seats de jure, consisting of the six members of the last senate, of the four regents of the larger islands going out of office, and one of the regents of the three smaller islands taken by turns. The other twenty-nine members are elected by the electoral bodies of the different islands, seven for each of the islands of Corfu, Cephalonia, and Zante, four for Santa Maura, and one for each of the other three islands, Cerigo, Ithaca, and Paxo. They are elected for five years, which is the term of duration for each parliament, unless it be dissolved before that period by the lord high commissioner. The members, as well as the electors, are all of the class of nobles, which is numerous, including almost all the landed proprietors. The qualifications requisite in order to be inscribed among the nobles are specified in the constitutional charter given by the Emperor Alexander in 1803, in conformity with the old usages of the country, by which the inhabitants were classed into three orders, nobles, burghers, and peasants. burghers may become nobles on certain conditions. peasants are free in their persons, but have no elective rights, and they are generally very poor.

The senate, which consists of a president and five mem-

bers, all from the class of the nobles, forms the executive.
The president, who has the title of highness, is appointed by the king of Great Britain: the other five members are chosen by the parliament, subject to the approbation of the lord high commissioner. The senators are elected for five years; the president is appointed for two years and a half: the senate appoints to all administrative offices

and situations.

The lord high commissioner convokes the parliament The lord high commissioner convokes the parliament once a year, and opens the session by a speech. He also prorogues or dissolves it. Bills are brought before the House, either from the senate, or from the lord high commissioner through the senate, or lastly, by any member of parliament. After passing the House of Parliament, the bills must be approved by the senate, and lastly must receive the sanction of the lord high commissioner.

In every island there is a regent, or chief civil and political officer, appointed by the senate, and likewise a resident appointed by the lord high commissioner. There is also in each island a municipal council, named by the order of

each island a municipal council, named by the order of nobles; the regent is the ex-officio president of the council. In every island there are also civil, criminal, and commercial courts, the judges of which are appointed by the senate. A high court of appeal for all the islands, called the Supreme Court of Justice, sits at Corfu, and is composed of four judges, two appointed by the senate and two by the lord high commissioner, who may choose them indiscriminately among Ionian natives or British residents.

The lord high commissioner commands the armed force which consists of a British establishment of about 3000

men, and four regiments of native militia.

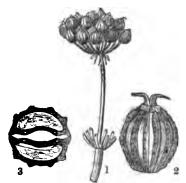
The eastern Greek church is considered as the established religion of the state; but the Roman or Greco-Latin church enjoys equal protection. The archbishop and bishops of the established church are consecrated by the patriarch of Constantinople. (Constitution of the Ionian Islands, in Dufay's Recueil de Constitutions, &c.)

According to the printed official returns of 1833, the whole population of the seven islands was 107,379 males, and population of the seven islands was 107,379 males, and 90,588 female natives, besides 11,179 strangers. That of the island of Corfu was 32,909 male and 27,098 female natives, besides 9040 strangers. Of this population about 15,000 were employed in agriculture, 1621 in manufactures, and 1443 in commerce. There were on the island 4005 acres sown with wheat, about 16,500 acres sown with

Indian corn, barley, oats, and other grain, 75,700 acres planted with olive trees, 13,900 with vines, about 1000 with pulse, 843 with flax, and 7422 in pasture, besides 33,272 acres uncultivated. There were on the island 4194 horses, 2341 horned cattle, 18,585 sheep, and 16,743 goats. value of the exports for that year was 129,000l. sterling, and the imports were 83,000l. The shipping inwards was 254,000 tons, and the outwards 255,000, about one-half of it consisting of Ionian vessels. (Tables of the Revenue, Population, &c., of the United Kingdom and its Colonies, Supplement to Part IV.)

CORIANDRUM SATIVUM or COMMON CORIANDER, is an annual numbelliferous plant, inhebiting the

CORIA'NDRUM SATTYUM or COMMON CORIANDER, is an annual umbelliferous plant, inhabiting the southern parts of Europe, and yielding a globular dry fruit, with slight carminative stomachic properties, and a powerful smell something like that of bugs. The leaves that grow next the root are nearly entire or gashed, and wedgeshaped; the stem-leaves have a bipinnatifid structure, and their segments are deeply divided; while the uppermost leaves are parted in many very narrow linear spreading segments. The flowers are pale pink, with no general involucre, but with partial ones, each of which consists of eight sharp linear leaflets. The fruit is globular, and will separate into two hemispheres, each of which has five very imperfect wavy primary ridges and four secondary straight elevated ones. There are no vitte on the outside of the elevated ones. hemispheres, but two occur in their commissure.



1. A portion of an umbel, in fruit. 2. A fruit magnified. 3. A transection of the same.

Coriander fruit, or seeds as they are incorrectly called, are used in sweetmeats, in certain stomachic liqueurs, and in some countries in cookery; they are little esteemed in

England.
CORIARIA'CER, a very small natural order of gynobasic polypetalous exogens, with opposite or alternate exstipulate leaves, ten stamens with an hypogynous inser



A flower with its bract, the anthers not yet visible, anthers projecting. 3. A cross section of the ovary,

tion, and five distinc. ovaries, with distinct spreading stigmas. The two genera, of which alone the order consits. are nearly allied to Rutacese, but their leaves are not dotted. The only plant that gives the order any interest is Coriaria myrtifolia, a shrub inhabiting the South of Europe, and employed by dyers for staining black. Its fruit is

succulent and said to be poisonous.

CORINTH (Κόρινθος), a city of antient Greece, the capital of a small but wealthy and powerful district in the Peloponnesus. The Corinthian territory was bounded on the north by the Crisman bay, on the north-east by Megaris, on the east by the Saronic bay, on the south by Argolis, and on the west by the territories of Sicyon. The city was built upon a level to the north of a steep and high mountain called the Acrocorinthus, which served as a citadel, and was included within the wall. (Strabo, Casaub., p. 379.) Corinth had two ports; the nearer, Lechseum, on the Crissean bay, was connected with the city by two parallel walls, which were partially destroyed by the Lacedsemonians, B.C. 393. (Xenoph. *Hellen*. iv. 4, § 13.) This harbour, which Colonel Leake conceives to have been for the most part artificial, is now nearly filled up; all that remains of it is a lagoon near the supposed site. (Leake's Morea, iii., The other port, Cenchreize, on the Saronic bay, does not appear to have been connected with the city; it was, however, a more considerable place than Lechseum, and contained several temples. (Pausan. ii. 2.) A few miles to the north of Cenchreize was a small bay, called Here was the narrowest part of the isthmus, and a kind of canal called the Diholcus, of which there are still some remains, was carried from the harbour of Schænus to the eastern extremity of Port Lechæum, and ships were run ashore at one of these points and dragged to the other sea. This work existed in the time of Aristophanes (*Thes*mophor. 645); but in the Peloponnesian War it appears that they had a method of transferring naval operations from the Crissean to the Saronic bay without dragging their ships across the isthmus. (Thucyd. ii. 93.) A little to the south of the Diholcus was a wall, which was always guarded when any danger threatened the Peloponnese.

The old name of Corinth was Ephyra; and under this name it was one of the seats of the Æolian race. Even in the time of Homer it was called 'the wealthy' (Iliad, ii. 570), an epithet which it acquired, according to Thucydides (i. 13), from the commercial spirit of its inhabitants, occasioned by the favourable situation of the town, which threw all the inland carrying trade of Greece into its power; while the difficulty of weathering Cape Maless (which was proverbial) made it the emporium of most of the trade between Asia

and Italy. (Strabo, p. 378.)

About thirty years after the Dorian invasion of the Peloponnese (i. c. about 1074 B.C.), Ephyra fell into the power of Aletes, the son of Hippotes, a Heracleid, who had slain a soothsayer on the passage from Naupactus, and had been compelled to separate himself and his followers from the army of the Dorians. The city then assumed the name of Corinth. or the Corinth of Jupiter (Müller, Dorians, book i. ch. 5, § 8); and the Æolian inhabitants became a subject class, though not altogether deprived of their civic rights. The descendants of Aletes ruled Corinth for five generations with royal power; but at length a rigid oligarchy was substituted for the monarchical form of government, and the power was vested in prytanes chosen annually from the powerful Heracleid clan of the Bacchiadse. The members of this clan intermarried only with one another, and consequently kept aloof from all immediate intercourse with their fellow-citizens, whom besides they did not treat with much forbearance. In the year 660 B.C. Cypselus, an opulent citizen of Æolian descent, putting himself at the head of the lower orders, overthrew the oligarchy without much difficulty, and assumed the sovereign power. Although he taxed and oppressed the Dorian caste so much that many of them were obliged to emigrate, he seemed to have possessed the full confidence of the great mass of the citizens, and always reigned without a body-guard. His son Periander, who succeeded to his authority, occupies a very prominent place in the ancient history of Greece. He was much more despotic than his predecessor; he had a body-guard of 300 men, and trampled at pleasure upon the rights of his countrymer. His reputation for wisdom (by which rust understand that practical wisdom which consists

erning men) procured him a place among the seven of Greece. Upon his death in 579 s.c., his power

devolved to one of his relatives, Psammeticaus, the son of Gordias, who after three years was deposed by the Lace-dæmonians. The former constitution was then restored, but doubtless much modified, and Corinth remained an oligarchical state till the beginning of the fourth century n.c. In the Peloponnesian War, which was in some measure brought about by them, the Corinthians were staunch supporters of the Lacedsmonians, and the bitterest enemies of Athens. About 394 B.C. a democratical faction endeavoured to upset the aristocracy, and to unite Corinth with Argos, but without any permanent success. (Xenoph. Hellen. v. 4.) Timophanes re-established the monarchical form of government by means of the mercenaries which he commanded; but he was soon removed by assassination. (Aristot. Polit. v. 6; Corn. Nepos, Timol., c. i.; Plutarch, Timol. iv.) Like the other states of Greece, Corinth felt the influence of the Macedonian power, and was garrisoned by Macedonians under Antigonus, but liberated by Aratus (Pausan. ii. c. 8, § 4.) The Corinthians took the lead in the Achsean confederacy, and were at first allies of the Romans (Pausan. vii. c. 8, § 3); but at last the temptations held out by the wealth of the place, and the pretext fur nished by some insults which the Corinthians had offered to the Roman embassy (Strabo, p. 381), led to the destruc-tion and plunder of the town by L. Mummius, in 146 B.C., according to an express decree of the Roman senate. (Liv. Epit. lii.) Many works of art were destroyed, but some of the finest pictures and statues were removed to Rome, and contributed to encourage a taste for the fine arts in Italy (Strabo, p. 381.) Corinth was restored by Julius Cæsar about 100 years after its conquest by Mummius, and peopled with freedmen, who enjoyed the privileges of a Colonia. When Pausanias visited Corinth in the second century of our zera, there were still many fine buildings, and other monuments of the former splendour of the city. (Pausan. ii. c. 1, § 7.) There now remains little but the ruins of a Doric temple, probably the oldest existing specimen of that style.

The colonies of Corinth were very numerous; but, as has been justly remarked by Müller (Dorians, i., c. 6, § 7). they were all sent out from Lechæum, and confined to seas west of the isthmus. The most celebrated were Syracuse and Corcyra. Potideea, in Pallene, however, is an exception

to Müller's remark.

Its wealth and the confluence of merchants from all parts favoured everything which ministered to the gratification of the senses; and both architecture and the other fine arts were, according to the testimony of the ancients, successfully cultivated in this wealthy emporium. (Pindar, Olymp. xiii., 25-31.)

The Corinthian territory is fertile and well watered. The fountain Peirene, on the Acrocorinthus, was celebrated by the poets (Strabo, p. 379); but in the time of Hadrian, the inhabitants were so little satisfied with the springs in the town, that they induced the emperor to supply them with water from the Stymphalus by means of an aqueduct twenty miles long. The modern name Gortho is merely twenty miles long. The modern name Gortho is merely an abbreviation of the ancient name of the city. (Leake's Morea, iii. p. 262.)

According to the fable Bellerophon caught the winged horse, Pegasus, while drinking at the fountain of Peirene The Pegasus appears on the coins of Corinth and some of

its colonies.



British Museum. Actual Size Silver. Weight, old com, 131 grams; tother, 132 graine

CORNINGER MAY MINER TOTAL SENS REPORTED TO THE PROBLEM AND ASSESSMENT OF THE PROBLEM ASSESSMENT DOUINTHIAN ORIGIN. Then Assurements in many the provided provided by the control of the control

other of three days, for making up their minds. After thirty days had expired, a deputation of four leading senators came before his tribunal, but were repulsed with threa's if they should again offer anything but unreserved sub-

On the second day the whole body of priests and augurs came in their official garb and implored him, but in vain. On the third and last day which he had allowed them he intended to lead his army against the city, but another expedient was tried, and succeeded. The noblest matrons of the city, led by Veturia, the mother of Coriolanus, and his wife Volumnia, who held her little children by the hand, came to his tent. Their lamentations at last prevailed on his almost unbending resolution, and, addressing his mother, he said with a fixed of tears, take then thy country instead of me, s.nee this is thy choice.' The embassy departed; and dismissing his forces, he returned and lived among the Volcsi to a great age. According to another account he was murdered by some of the Volsci, who were indignant at his withdrawing from the attack.

After his death however the Roman women wore r: ourning for him as they had done for some former heroes. The public gratitude for the patriotic services of Volumnia were acknowledged by a temple, which was erected to Female Fortune. Shakspeare has founded his play of 'Co-

Female Fortune. Shakspeare has founded his play of coriolanus' on certain parts of the legend.

(Dionysius Halicarnassensis, viii.; Plutarch, Life of Coriolanus; Livius ii., 33-40; Florus i., 11: Niebuhr's Hist. of Rome, vol. ii., pp. 234-243.

CORK, botanically considered, is the soft elastic bark of the control of the lastic bark of the legend.

a kind of oak inhabiting Spain and Portugal. [QUERCUS.] The bark of all trees consists of a parenchymatous or soft cellular substance, and of a harder ligneous tubular tissue: in most species the latter is most abundant; in the cork the former constitutes the mass of the bark, and hence its clasticity and the facility with which it is cut in all directhors. When however it is first generated, the bark of the cork-tree is far less elastic than it becomes subse-quently; which is owing to its consisting in the first instance of a large proportion of woody matter. When the latter is once formed, which takes place in the first year of its growth, it never increases, however long the bark may remain in a living state; but the parenchymatous substance will go on growing as long as the bark is alive, a provision of nature connected with the annual increase in diameter of wood and the necessity of the bark giving way to the pressure from within. If the growth of the parenchyma is prolonged and rapid, a corky substance is the necessary consequence, as in certain kinds of elms, the common oak itself, and many other trees; but it does not occur in any European tree in such excess as in the cork. As soon as the bark dies, it of course ceases to grow, and then, not distending as it is pressed upon from within, it falls off in flakes which correspond to the layers that are formed annually. These flakes are the layers of cork which the S aniards collect under the name of the outer bark, while the inner living bark is or rather should be spared. We are told, however, by Captain S. Cook, that recently the Spaniards have committed the inconceivable absurdity of stripping off the inner bark also, although it is of no value except for tanning, and although its removal of course destroys the trees. The same intelligent observer states that atroys the trees. The same intelligent observer states that the cork-tree occurs in Spain throughout the whole extent of the Tierra Caliente, but is most abundant in Catalonia and Valencia, whence the principal exports have been made. Cork appears to be a corruption of the Latin word cortex.

CORK TRADE. [BARK.]
CORK, a maritime county of the province of Munster in Ireland, bounded on the north by the counties of Limerick and Tipperary, on the east by the county of Waterford, on the south by the Atlantic Ocean, and on the west by the county of Kerry. It lies between 51° 27' and 52° 13' N. lat., nearly under the same parallels with South Wales, and is by much the largest county in Ireland. Its greatest length from Youghall on the east to the mouth of the Kenmare river on the west, is 93 Irish or 110 English miles; and its greatest breadth from the Old Head of Kinsale upon the south to Charleville on the north, is 44 Irish or 56 English miles. The area is estimated at 2654; square statute miles, or 1,698,882 English acres; but this estimate is not to be depended on for accuracy: the

indentations of the coast from Youghall to Keumare give a coast-line of about 200 miles. Population in 1821, 629,786: in 1931, 703,716.

Tre chief mountain groups, which with bogs and anprofitable lands occupy upwards of two-minths of the entire surface, may be considered as offsets of the main ridge which separates Cork from Kerry. This ridge, the southern extremity of which separates Bantry Bay from the river of Kenmare, runs N.N.E. and S.S.W., and on the side towards Cork sends off numerous lateral elevations. Of these the two chief are the ranges north and south of the valley of the Lee, which river divides the county into two nearly equal portions. The northern range, which is by much the more extensive, consists of the almost continuous groups of more extensive, consists of the almost continuous groups of the Muskerry, Boggra, and Nagles mountains, and stretches in a uniform direction from the Kerry boundary on one side of the county, to within a few miles of the borders of Waterford on the other. The Shehy group, which forms the southern boundary of the basin of the Lee, runs a much shorter distance from the main ridge; but the upland country of Kinalmeaky, into which it subsides, prolongs the elevation in a line parallel to the direction of the Boggra range across the entire extent of the county, from Dunmanway on the west to the high grounds above Cork and Passage on the east. North and south of this central valley are the districts which form the basins of the Blackwater and the Bandon; the former included between the mountains of Limerick and Tipperary. and the Boggra groups; and the latter between the Shehy range and those elevations which rise southward towards the sea-coast. These three principal valleys are nearly symmetrically situated, and their respective rivers run very nearly parallel to one another, their general course being from west to east: all have their rise among the eastern declivities of the Kerry ridge, and each, as it approaches the termination of its course, takes a southward direction for some miles before entering the sea. In like manner each is naturally navigable throughout this latter portion of its course, as the Blackwater from Youghall at its mouth to Cappoquin; the Lee from the sea to Cork; and the Bandon from Kinsale at its mouth to Inishonan. The Blackwater is by much the largest river of the three, and drains a pro portionately greater extent of country. The bogs and waste lands lie among the mountain groups described; the remainder of the county is well tilled and productive, particularly along the banks of the rivers enumerated, and in the districts included between their embouchures.

Beginning from the east, the harbour of Youghall has a tolerable auchorage in six fathoms water without the bar. where vessels may wait the tide, which gives twenty feet of water on the bar at neaps. Three leagues south is a good anchorage and fishing ground, in five to twelve fathoms water at Ring Point. From this the coast is rocky, with the exception of the extensive strand of Ballycotton Bay, to the entrance of Cork harbour four leagues farther west. This harbour is so commodious, says Smith, that it will admit the largest vessels at any time of the tide without striking sail, and has a land-locked anchorage in ten fathoms water in some places, and in seven fathoms' water within a cable's length of the shore. On the shoalest part of the bar are thirty feet water at ebb-tide. From this westward to Kinsale harbour the coast is rocky and dangerous. The harbour of Kinsale has thirty feet of water on the bar, and anchorage within in seven fathoms; but it is not so capacious as that of Cork. There is also good anchorage in any depth of water on both sides of the promontory to the west called the Old Head of Kinsale. The bay of Courtmasherry, next west, is fit for vessels of 200 tons, but exposed. Cloghnakilty harbour is encumbered with a bar, on which are only two fathoms' water at full sea, and vessels embayed here are in considerable danger. The harbour of Glandure has fourteen to thirty feet of water in its channel, and a land-locked anchorage. Castlehaven Creek has safe an chorage in fourteen feet; and Baltimore Bay pretty good in six fathoms. Baltimore is situated on the eastern side of an extensive bay, bounded on the east by Cape Clear Island. and on the west by Mizen Head: it contains the several minor bays of Baltimore, Roaring Water, Crookhaven and Inisherkin, in all of which merchant vessels may find anchorage. West from Mizen Head the bay of Dunmanu. runs inland twelve miles in a north-east direction, with ten to thirty fathoms of water throughout, and no bar; but it is little frequented, in consequence of the contiguity of Bantry Bay, from which it is separated by the narrow mountainous

<sup>\*</sup> These measurements are given from finith. Doctor Beaufort makes the length 7s Irish or 99 English miles; and the breadth 36 Irish or 71g English

promontory terminating in Minterbana or Sheep's Head. Bantry Bay is forty fathoms deep at the mouth, twenty-six miles long, and from three to five miles broad. Bear Island at its entrance protects it from the south-westerly swell, and affords the land-locked anchorage of Bearhaven in ten to sixteen fathoms' water, for an unlimited number of vessels. Further up, Whiddy Island incloses the minor bays of Bantry and Glengariff, the latter much celebrated for the magnificence of its scenery: it is calculated that all the shipping of Kurope could ride secure in this noble harbour. Bearhaven has been proposed as a station for packet-ships to North America, in connexion with the projected south-western line of rail-road from Dublin.

Facilities for water-carriage are confined to the coast: the inland navigation of the Bandon is very inconsiderable; that portion of the Blackwater which is navigable lies in the county of Waterford; and the traffic between Cork and the sea is more a harbour than a river navigation. It has been proposed to render the Bandon navigable, from Dunmanway, near its source, to Inishonan; also the Blackwater, from Mallow to Cappoquin; but neither design has been practically attempted. The only lakes in the county are two small but very picturesque sheets of water, near the source of the Lee, and some pools on the coast.

The road to Dublin, carried over the eastern flank of

the Nagles mountains by Rathcormack, unites the valleys of the Lee and the Blackwater from Cork to Fermoy. The road from Cork to Mallow, carried over the western tlank of the same range, forms another line of communication between these valleys, and is used as the post-line to Limerick. Westward from Mallow to Millstreet, a distance of nearly eighteen miles, the range of the Boggra mountains formed an impassable barrier, until, in 1823, permission was obtained from government to make a road through the centre of this group at an expense of about 10,000*l*,, one-half to be levied by county presentments, and the other half to be defrayed out of the Consolidated Fund. This road has now been open for several years, and saves the inhabitants of the valley of the Blackwater a distance of fully twenty miles Irish on every journey to and from the Cork market. It also supplies an easy means of transit for fuel to the low countries, both north and south. Before this road was opened, the only means of procuring fuel from the upland bogs was on the backs of small horses, or of men and women. Other new roads have been made at the public expense within the county in the neighbourhoods of Cloghnakilty, Bandon, Skibbereen and Courtmasherry. Prior to the year 1829, a great part of the north-western district of the county was almost inaccessible. This district formed part of a tract of 970 square miles, comprised between the Shannon and the Blackwater, which up to the year 1822 had contained no road passable for horsemen in wet wea-ther. 'The entire district must have remained neglected by the hand of civilization from the period at which its antient proprietors, the later Earls of Desmond, had been dispossessed of it in the reign of Elizabeth.' (Report on the Crown Lands of Poble O'Keefe, 22 March, 1831.) The whole district contained but two resident landed proprietors, whose houses were distant 384 miles from one another. The inhabitants were poor and ignorant, and the inaccessible nature of the country made it the asylum of smugglers and outlaws. Through the northern parts of this district seventy-five miles of good road were made by government in the years 1823—9. The consequences were an immediate increase of industry and produce, and a very rapid improvement in morals and intelligence. Still there remained the southern portion of the district, comprising 128,000 acres in the north-west of Cork through which no road had yet been carried. To open up this tract, a road was projected in 1829, from Castle Island in the county of Kerry eastward, so as to meet the lately-constructed Boggra road at its terminus on the Blackwater, by which a communication would be opened between Castle Island and Mallow, which would shorten the distance from the former town to Cork by twenty-two miles. A second line, connecting this road with the post-line from Cork to Killarney, was also projected, by means of which Killarney would have a direct communica-tion through Mallow with Waterford. About the same time, a tract of 9000 acres in the heart of the unopened district escheated to the crown. Possession being obtained of 5000 acres, the attention of government was, in January, 1831, directed to the best means of improving the wretched tenantry found occupying the estate. It was found that the projected road from Castle Island would cross the head

of the Blackwater within the estate, and that the vicinity of the ridge would be an eligible site for a village. The vil lage of King William's Town has accordingly been built under the superintendence of Mr. Griffith: it consists of a carman's inn, a model farm-house, a few suitable houses for shopkeepers, artisans, and labourers, and a large schoolhouse. The estate, which, on its reversion, 'was saturated with water, and covered with thick matted beds of moss, rushes, and heath, the growth of ages,' unfenced, unmanured and inaccessible, is now to a great extent drained and divided into well-fenced farms for grazing and tillage, to which the newly-opened road affords a ready supply of lime for manure, as well as a convenient means for carriage of produce to market. The condition of the tenantry is rapidly improving, and there is every prospect of complete success attending these benevolent exertions of the government. Up to the 12th February, 1833, the amount granted by the Treasury for the improvement of these estates was 6500l. The estimate for the Castle Island and Mallow, and Killarney and Mallow roads, was 23,8121. 1s. 2d.: of this amount government defrayed 17,0001. A sum has also been advanced by the present Board of Works, for the construction of a new road from Glengariff to Killarney, across the ridge of the Bantry mountains. The remaining roads of the county are under the control of the Grand Jury. A railroad has been projected from Cork to Passage, where there

The climate is moist but genial in the south and east.

The annual average of rain at Cork for the eleven years preceding 1748 was 38 26 inches. The wind blows between south and north-west for more than three-fourths of the

year.

From the east of Limerick and south of Tipperary the limestone field extends towards the Blackwater, which it skirts for a part of its course on both sides between Mallow and Fermoy, until overlaid by the shale and sandstone beds of the Munster coal district, which occupy the whole extent of the uncultivated country described above. The limestone again occurs in stripes along the valley of the Lee, and occupies the basin on which the city of Cork is built, from which it stretches eastward in two parallel belts across the low sandstone country to the banks of the Blackwater. The Boggra and Nagles ranges consist of sandstone, which rock prevails throughout the district watered by the Lee. South of the Lee, the slate-clay, on which the sandstone rests, crops out in longitudinal strata that have a uniform direction from N.N.E. to S.S.W. and a prevalent dip to the S.E. This rock, varying from the kardest grit to clayey rubble, constitutes the whole of the southern portion of the county from the mouth of the Lee to the mountains of Bear and Bantry, where its elevations attain an altitude of above 2500 feet. Among these are some peaks of quartz formation, of which the most remark able is Sugarloaf-hill, which rises over the bay of Glengariff. The veins, which occupy many of the fissures of this rock, abound in ores of iron, copper, lead, and manganese.

The soil of the coal district on the north-west is cold, stiff, and moory. In the north-east, where limestone abounds, it is warm and friable. Along the valley of the Lee is a red, crumbly, and heavy soil, which requires considerable manuring with lime or sea sand. Throughout the schistose formations, south of the valley of the Lee, the earth is generally dry and sandy, requiring much dung to make it bear corn. Marl, fullers' earth, and clay for brick kilns and potteries, are found in considerable abundance. The best cultivated parts of the county are the eastern portions of the basins of the Blackwater and the Lee, and the low district included between their embouchures. The system of agriculture in these districts is good. There is a large resident proprietary, and every evidence of wealth and comfort. The remainder of the county, except in the neighbourhood of towns and gentlemen's demesnes, presents a strong contrast. The extreme west is barren from one extremity of the boundary line to the other. The transverse ranges of moorland and bog are totally unreclaimed, and the population on their borders are poor and ignorant. The county is, nevertheless, improving: this improvement is mainly attributable to the construction of roads by the government.

The county comprehends 22 baronies, one county of a city and sundry corporate districts. Duhallow, Orrery and Kilmore, Fermoy, Condons and Clongibbons, occupy the district of the Blackwater, enumerating from west to east. West Muskerry, East Muskerry, Barretts, Barrymore, Kilnatal loon, and Imokilly, occupy the district of the Lee in the

same order. Bear, Bantry, West Carberry, west and east divisions, East Carberry, west and east divisions; Ibaune and Barryroe, Courcies, Kinnalmeaky, Kinnalea, Kinsale, and Kerrycurrihy, occupy the remainder of the county in

like manner on the south

To these are to be added the county of the city of Cork, and the liberties of Youghall and Mallow. Other corporate towns have liberties, but not extensive enough to come under this division.

Cork county lies within the dioceses of Cork, Cloyne, Ross, and, to a small extent, in Ardfert and Aghadoe, and contained, in 1792, 269 parishes and 105 churches.

The county was formerly represented by 26 members in the Irish parliament, of whom two were returned by the county, and a like number by the city of Cork and each of the following boroughs: Kinsale, Youghall, Bandon, Mallow, Doneraile, Rathcormack, Middleton, Charleville, Castlemartyr, Baltimore and Cloghnakity. These, with the exception of Doneraile and Rathcormack, still present charters of incorporation, and are governed by still possess charters of incorporation, and are governed by

corporate authorities.

With the exception of Cork, Bandon, and Youghall, these boroughs, at the time of the Union, lost their privilege of representation. The representation in the imperial parliament is now confined to two members for the county, two for the city of Cork, one for Bandon, and one for Youghall. The total amount of Union compensations was 150,000l. The other places of importance in the county are Bantry The other places of importance in the county are Bantry (population 4275); Cove (pop. 6966); Dunmanway (pop. 2738); Skibbereen (pop. 4430); Mitchelstown (pop. 3545); Fermoy (pop. 2557); Kanturk (pop. 1349); Newmarket (pop. 1437); Cloyne (pop. 2227); Millstreet (pop. 1935); Macroom (pop. 2058); Buttevant (pop. 1536).

The principal copper-mines in Ireland are situated at Allahies, about ten miles west of Skibbereen. They were first worked in 1814 and now give employment to about

first worked in 1814, and now give employment to about 1500 people. The ore contains from 55 to 65 per cent. of copper. In the same neighbourhood the ashes of a bog im-

profit on the same coast. Veins of sulphate of barytes occur in the neighbourhood of Bantry, and specimens of asbestos have been procured at Bearhaven. The coal of the district of the Blackwater is anthracite or blind coal. The chief workings are at Clonbannon and Dromagh, near the crown estate, where there is a good home consumption at the distilleries in the neighbourhood. The district is, however, still too inaccessible to encourage extensive operations. There is abundance of iron ore, if coal could be had for smelting. While the county was well wooded iron works were carried on to a considerable extent. The East India Company had iron works on the Bandon in 1612, and paid 7000l. for a tract of wood for their furnaces. About the year 1632, the Earl of Cork had in his various bloomeries 1000 tons of bar and 20,000 tons of pig iron; besides 200 tons drawn out and faggotted into rods. Bar-iron was at that time worth 181. per ton.

The export of produce is the principal trade: 30,000 fir kins of butter, value about 50,000£, are annually brought to market from the western district; but a considerable part of this is supplied from the borders of Kerry and Lumerick. The following abstract exhibits the quantities of grain sold at some of the principal market towns in the vear 1835 :--

		rels of Wheat of 20 stone.	Barrels of Barley of 16 stone.	Barrels of Oats of 14 stone
Cork		82,838	64,294	130,826
Bantry .		8,453	200	3,421
Macroom		3,263		12,000
Dunmanwa	y	9,741	578	_
Fermoy .		56,330	12,360	34,384
Mitchelstow	'n	_	1,250	3,429
Kanturk		8,900	100	550
Kinsale .			1.320	
Middleton		12,493	30,225	7,306

No returns from Skibbereen, Cloghnakilty, Bandon, Mai low, Charleville, and Youghall.

The linen and woollen manufactures at one time flourished in several towns of this county; but trade in these pregnated with copper yielded a considerable return until burned out. A deposit of manganese is worked with good branches has for many years back been languishing.

TABLE OF POPULATION.

16

Date.	How ascertained.	No of houses.	Families.	Families chiefly employed in agriculture.	Families chiefly mployed in trade, munufactures, and handiersft.	Families not in- cluded in pre- ceding classes.	Males.	Females.	Total.
1792 1813 1821 1831	Estimated by Dr. Beaufort Under Act of 1812 Under Act 55 G. III., c. 120 Under Act 1 Wm. IV., c. 19	68,639 91,447 103,279 106,893	115,959 118,356	81,623	16,531	20,212	314,172 348,402	315,614 355,314	343,000 523,936 629,786 703,716

Cork is the assize town. The county gaol, about threequarters of a mile from the city, is considered the most perfect institution of the kind in Ireland. There are seventeen bridewells in the other principal towns. Quarter sessions are held twice a year at Bandon, and once at Skibbereen and Bantry respectively. The number of the constabulary in the county of Cork, on the 1st January, 1836, was 15 chief constables, 85 constables, 426 subconstables, and 17 horse do.: total expence for 1835, 19,807l. 15s. 5d., of which 9334. 12s. was chargeable against the county.

Before the coming of the English, Cork was a separate

kingdom, of which the princes were the Mac-Carthys. The antient kingdom of Cork included, besides the present county, a considerable tract in Kerry and Limerick. It was divided into Desmond, or South Munster, on the west; Muskerry, a part of Ormond, or West Munster, on the north-east, and Carbery on the south-west. In all these districts the Mac-Carthys were the most powerful. The native families next in importance were, in Desmond, the O'Sullivans; in Carbery, the O'Donovans, and O'Driscols; and in Muskerry, the O'Learys on the south-west; the or the south-west; the O'Learys on the south-west; the O'Lehans (from whom Castle Lyons) on the south-east, the Mac-Donohys on the north-west, and the O'Keefes on the north-east. In 1172 Dermod Mac-Carthy, king of Cork, swore fealty to King Henry II., but he broke his engagements ten years afterwards by falling on the English under Raymond Le Gross by land, while his ally, Gilbert, on of Targesius, with a fleet of 35 sail from Cork, attacked Earl Strongbow by sea at Dungarvan. His kingdom, thus

forfeited, was bestowed by King Henry, in 1177, on Robert Fitz-Stephen and Milo de Cogan. The city of Cork with the cantred adjoining was reserved to the king. Of the thirty-one cantreds conveyed by the king's grant, Cogan and Fitz-Stephen obtained possession of seven, lying near the city, which they divided, the three eastward cantreds falling to Fitz-Stephen's lot and the four westward to Cogan's. On the remaining 24 cantreds they levied rents from the native princes. Fitz-Stephen dying without issue, his grant went chiefly to the families of Barry and Roche. Cogan's share falling ultimately to coheiresses, was divided among Robert de Carew, Patrick de Courcey, and Maurice Fitz Thomas (Fitz John Fitz Thomas Fitz-Gerald), who was created earl of Desmond in 1329. The estates of this last family were further increased by large grants from Robert Fitz-Geoffrey Cogan, who had intruded on the portions of the Carews and De Courceys in 1438; so that the eighth earl of Desmond found himself in possession of almost the entire kingdom of Cork; but assuming to himself the right of levying separate exactions on the king's subjects, after the Irish manner, was attained of treason and beheaded at Drogheda, 15th February, 1467 Nevertheless his estate passed, and in the person of his descendant Gerald, the fifteenth and last earl; had grown to an amount unexampled in the history of private property in Ireland. They extended upwards of 150 miles throughout the counties of Waterford, Cork, Kerry, and Limerick, and comprehended an area of 574,628 acres, according to the rough estimate of these times, the calculation seeming to have reference

grown to the extent, the suther county of Cork had been accounted to the extent, the suther county of Cork had been accounted by the extent of the suther county of Cork had been accounted by the extent of the suther county of Cork had been accounted by the county of Cork had been accounted by the county of the suther county of the suther county of the county of the suther county would the break of the suther county of the sut

The average of educated persons in the three discusses is an income the forgoth by agent numbers of the mative Irish under Planence Marc Cartly, who had also been created Marc Cartly More by Tyrons, in place of Daniel, lately depend from the chartenestic by the same authority. This war was quested just before the arrival of the Spaniards by the capture of the two bests and the Spaniards by the capture of the two bests and the Spaniards by the capture of the two bests. Marc Cartly was executed, and the Superno Rayl, being impressed in the lower of London, deed those in 180s.

We like latter and of December, 1801, the redelibre was at an ord, numbers of the object robets had fled to Spain, and often the arbitration of Kong James, April, 1603, the country settled into remainfully. So Reduced Royle now began to regulate the robusts beroughly. So Reduced Royle now began to regulate the robusts become observed to the first the substance of the country of the city. It extends in Landon, mixed Madeleon, Demonde, Condomarry, and embraces the country of the city. It extends in Landon, or the next of corporate towns; so that the short of the country of the country of the city. It extends in 172 the numbers were, 24 parishes, 49 benefices. In 172 the numbers were, 24 parishes, 49 benefices, and 41 allurobes. In 1834 the numbers were, churches of the country of the country of the city.

blishment, 58; other places of worship in connexion therewith, 26; Roman Catholic ditto, 73; Presbyterian ditto, 3; other Protestant dissenting ditto, 16. In the latter year the gross population of the diocese was 340,594; of whom there were 35,229 members of the Established Church, 303,984 Roman Catholics, 510 Presbyterians, and 871 other Protestant Dissenters; being in the proportion of 1 Protestant of whatever denomination to 81 Roman Catholics nearly. There were at the same time in this diocese 346 schools, aducating 24,448 young persons, being in the proportion of the entire population under daily instruction; in which respect Cork stands 19th among the 32 dioceses of Ireland, and is on a par with Dublin. Of the above schools 20 were, in 1834, in connexion with the Board of National Education. Education.

The foundation of this see is ascribed to St. Barr. about the beginning of the seventh century. It became united to Cloyne, about 1464, and so continued till 1586, when, together with Cloyne, it was annexed to the diocese of Ross, and so continued till 1678, when these dioceses were again divided, Cork and Ross going together, and Cloyne separately. By the 3rd and 4th Wm. IV., c. 37, these sees are to be again united, on the united see of Cork and Ross becoming vacant. (Beaufort's Memoirs of an Ecclesiastical Map of Ireland.)

CORK, a city, the assize town of the county of Cork, in the province of Munster, in Ireland, situated in the county of the city of Cork, on both sides of the river Lee, four miles from its entrance into Cork harbour. 51°54′ N. lat., 30' W. long. Distant from Dublin 124 Irish, or 158

English miles.

The county of the city consists of the city, suburbs, and liberties, and contains 45,000 statute acres, being a borough subject to the city magistrates, and liable to city taxation. There are numerous charters, of which the earliest bears date 26th Henry III., and the latest 31st Geo. II. By characteristics and the latest 31st Geo. II. ter 10th March, 6th James I., the city and all the lands ex-tending from its walls, for the circuit of three miles on every side, were erected into a separate county, the bounds of which were laid down by commissioners. The suburbs on each side of the island were defined by act 53 Geo. III., c. 3; but since that period, 1813, they have extended con-

siderably.

The school of St. Barr is supposed to have first drawn in-habitants to this neighbourhood. The city was walled in by the Danes in the ninth century, and was afterwards repaired by King John. The situation was on an island of an oval form, round which the river ran in two channels; beyond these were narrow marshes skirting steep banks, which surrounded the basin occupied by the old town on every side. These marshy flats have subsequently been drained and built upon, and the city now spreads over the high ground on both sides of the river. Prior to the reign of Edward IV., it would appear that the suburbs of the old city also had spread over these grounds, as a charter of the second year of that reign recites, that inasmuch as the suburbs extending a mile on every part of the city had been destroyed by Irish enemies, the rent of 80 marks a year payable by the townsmen to the crown should be remitted, and the cocket or customs of the city should be granted for the purpose of constructing walls, until the inhabitants should be able to go peaceably one mile outside the same.' During the period alluded to in the account of Cork county, when the Irish had overrun the possessions of the decayed Yorkist nobility, and down even to the time of Blizabeth, the inhabitants of the city lived as if in a state of continual siege, never venturing beyond their walls except in numerous bodies, nor daring to marry out their daughters into the country, 'but contracting one with another among them-solves, whereby all the citizens were related in some degree or another.'

another.' (Camdon.)
About 1620 Cork was counted the fourth city of Ireland, being inferior both to Waterford and Limerick. From its low situation Cork can never be a place of defensive strength. The only severe siege it ever endured was in 1690, when held by Governor Mac Eligott, with six Irish regiments, for James. The siege was conducted by the duke of Marl-borough, with whom were the dukes of Wirtemberg and Grafton (natural son of Charles IL), with a force of about 10,000

foot and 1200 horse. The town held out for five days; and the English had lost a considerable number, among was the duke of Grafton, the garrison surrendered soners of war. The city has enlarged rapidly since the beginning of the last century, and continues to extend. although not so rapidly as during the time of the late war which was very beneficial to Cork in a local point of view.

Cork is governed by a common council, consisting of the mayor, two sheriffs, recorder, and as many aldermen as with these shall not exceed the number of twenty-four. A corporate combination which originated about seventy years ago, under the name of the Friendly Club, operates to the unfair exclusion of Roman Catholics. Out of 2665 frecmen, there were in 1833 only 78 Roman Catholics. The freemen are exempt from paying tythes. Of the whole number, 1593 were non-residents, of whom the majority had been created by special favour of the Common Council. The average income of the corporation is 6237% per annum, which is rather more than the merely municipal expenditure; but by Grand Jury presentments, and otherwise, a sum of about 54,000l. per annum is disposed of at the discretion of the corporate authorities.

The port and harbour of Cork are under the regulation of a Board of Commissioners, acting under 1 Geo. IV., c. 52, the nominees of the corporation. Receipts and expenditure as follows:

18

Cr. 8388. 0s. 0al 1830 Dr. 7672l. 9s. 3d. 8172 8 2 6855 3 4 8015 4 3 7236 11 21 1831 1832

The paving, lighting, and cleansing of the city lie with Wide Street Commissioners, originally appointed by 5th Geo. III., c. 24, modified by subsequent and local acts. The Geo. III., c. 24, modified by subsequent and local acts. The annual expense for lighting was, in 1833, 3200l.; and for paving, repairing, widening, &c., of streets, 6600l, of which 2800l, is defrayed by the county at large. This board is likewise under corporate control. It receives its income by Grand Jury presentments.

The supply of water is regulated by a Pipe Water Company incorporated under several acts, of which the last was 26 Geo. III., c. 38. A fourth part of the shares belong to the corporation. The charge to the inhabitants is two guineas per annum per house. There are no public fountains. Receipts of the company for 1833, 1577l. 5a. 8d.

The Grand Jury which presents for the public expenditure is nominated by the sheriffs: a sum of about 29,000l. is annually presented, all of which, with the exception of the

is annually presented, all of which with the exception of the income of the Wide Street Board, is disposed of by the Grand Jury. There is no municipal police, nor night watch of any kind. The turnkeys employed in the goal and bridewell, twenty-five in number, are the only force for the preservation of the peace supported by the corporation. The corporation is one of those subject to the 'New Rules'

The number of the constabulary in the county of the city of Cork on the 1st January, 1836, was—chief constables, 2; constables, 11; sub-constables, 62; horses, 6: expense for 1835, 2632l. 6s., whereof 1260l. 19s. 5d. chargeable against the corporation of the city.

The convict establishment at Cork consists of a peniten-

tiary, or convict depôt, at Cork, and a hulk at Cove. In 1834, the number of committals to the depôt was 284, and the expense 1899l. 2s. 5½d.: and the number of committals to the hulk at Cove, 441, and the expense, 2886l. 10s. 4

Of the charitable institutions the principal is the Found-ling Hospital, originally intended as a workhouse. The Act which founds the institution has a clause permitting the reception of exposed children, and of this advantage has been taken to turn the institution solely to that purpose. In 1833 the number of children at nurse was 1313. and those within the walls 446. All are educated as Protestants. The hospital derives its income from a tax of one shilling per ton on all coals that come into the harbour. This impost is collected to a distance of twelve miles from the city. In 1833 it averaged upwards of 6000L per annum. Skiddy's Almshouse, Bertridge's charity, the Blue Coat Hospital, and Green Coat Hospital, are other charitable foundations under the control of the corporation. Relief extended from these solely to Protestants. The house conductive industry is supported by voluntary contributions and city and county Grand Jury presentments. Income in 1833, 4931.

1s. 10d. Paupers admitted same year, 1850. Attached is lunatic asylum supported by county and city Grand Jur-presentments. Account presented in 1833, 4890. Number of patients, 343. An hospital with 140 beds is attached There are also two infirmaries and a Fever Hospital; but the accommodation is still far from being sufficient. A

sum of 30,000% was, in 1833, bequeathed by a Mr. Lapp for

the support of the aged Protestant poor of the city.

The city renfal is estimated at 122,000L on an allowance of 25 per cent. under real value.

The number of the distressed population is very great. In 1832 it was estimated that of a city population of 86,534, 23,021 were depending on casual employment for subsistence; of these, 6250 were considered to be destitute. Poverty at present prevails to

a frightful extent in the suburbs.

The main street which crosses from north to south, per-pendicular to the length of the island, is the most antient part of the city. It was formerly divided into north and south by a bridge and castle. The Exchange, a heavy source building, stands on the site of the latter. The old castle and gates which terminated this street have been removed, as also the prisons subsequently built upon their removed, as also the prisons subsequently built upon their sites. The island was formerly intersected by numerous canals, which have been arched over from time to time, and now form the principal modern streets. The Grand Parade was thus formed in 1780; Patrick Street, in like manner, in 1783; and Nile Street in 1795. The South Mall, the best street in Cork, and Nelson's Place, had likewise a similar origin. The insular appearance of the central part of the city is thus in great measure removed. Cork now covers a large extent of high ground on both banks of the Lee, as well as the low ground which was formerly occupied by marshes between. The greater part of these marshes were marshes between. The greater part of these marshes were drained about 1720—30. The parish of St. Paul was formed of these marshes, and the church of St. Paul was formed of these marshes, and the church of St. Paul built on the reclaimed land in 1723. About the same time the cathedral, which had suffered in the late siege, was rebuilt, as also Christchurch, for a like reason. St. Anne's Shandon was rebuilt in 1722, and St. Peter's in 1782. The appearance of the city is materially affected by an unsightly variety of colours or the state of heidiles and of colours, arising from the different sorts of building materials employed. One side of the steeple of St. Ann's, or Upper Shandon Church, has been built of red sandstone, and the other three of dark limestone. New quays are being constructed, which add much to the convenience and

beauty of the city. Mr. Inglis calls Cork 'a very fine city, surpassed by few in the excellence or width of its streets, and deficient only in the architectural beauty of its public buildings.

Three large Roman Catholic chapels of cut stone are building; and the court-house, now in hand, is to cost

16,000*l*.

Since the termination of the late war, the trade of Cork has, in some measure, changed its character. Owing to the cessation of government contracts there is no longer the same field for great mercantile houses; the number of minor dealers has increased proportionately. The carriage trade from England is at present very brisk from the smaller traders supplying themselves direct from London or Bristol. The chief import trade is that of timber, of which the annual average is 15,000 tons. The chief export trade is in bacon, butter, corn, live stock, and provisions. Cork butter holds a very high character in the market, chiefly owing, it is said, to the superior cooperage of the casks. The export of bacon and live-stock is on the increase. The manufacture of glass, metal castings, and iron-work, is carried on briskly. Leather is manufactured to the value of 100,000*l*. per annum. A woollen manufacture gives employment to about 200 persons. There are numerous and very extensive distilleries and breweries, and a large manufacture of flour and meal.

Merchant vessels unload at Passage, about six miles from the city, from which goods are transported in lighters of about thirty tons to the quays. The amount of Customs collected in the district of Cork for the year 1835 was 216,446l. 1s. 7d.; and of Excise duty for the same district, 252,452l. 14s. 5½d.

The number of stamps issued to newspapers in Cork in 1835, was

Cork Constitution Cork Evening Herald 58,350 189,700 Cork Southern Reporter People's Press Mercantile Chronicle 12,628 30,001

#### TABLE OF POPULATION.

Date,	How calculated.	Houses.	Families.	Families chiefly	trade, manufac-	Families not	Males.	Pemaks.	Total.
1792	Estimated by Dr. Beaufort.	8,100	No return.	No return.	No return.	No return.	No return.	No return.	73,000
1813 1821 1831	Under Act of 1812. Under Act. Under Act.	7,652* 11,180 11,986	21,528 19,951	1,967	10,989	6,995	46,787 48,312	53,871 58,704	64,394* 100,658 107,016

In 1834 there were in the nineteen parishes comprehended, wholly or in part, within the county of the city of Cork, 139 schools, educating 5935 males and 4489 females; total children under instruction, 10,424. Of these schools, 26 give gratuitous instruction; several of these are under the management of religious sects. The Cork library, which was founded in 1807, owes its origin to the exertions of the Rev. Doctor Hincks, and formerly enjoyed an annual par-hamentary grant. There is also a Mechanics' Institute, with a school for 120 children.

(Smith's History of the County of Cork; Inglis's Ire-land; Croker's Sketches in the South of Ireland, London, 1823; Parliamentary Reports and Papers.) CORMORANT. [Pelecanidæ.] CORN-TRADE. From a very early period of our his-

tory the corn-trade of the country has been the subject of legislative interference and restriction. At first, and while the kingdom was thinly peopled, it was deemed good policy, in order to insure a sufficient supply of food for its inhabitants, to forbid the exportation of corn, while its importation was freely permitted; but, in later times, during which the population has increased with a rapidity rarely seen in longsettled countries, the policy of the legislature has been altogether different. The object has been to stimulate home production by prohibiting importation, or by restricting it in such a degree as to secure to the native farmers a monopoly of the home market. It needs no argument now to show that the policy of our ancestors was ill calculated to moure the end which they had in view, that of providing a

sufficiency of cheap food for the common people; how far the opposite policy has been found to answer the avowed object of its advocates it is not our present intention to inquire. That object professes to have for its ultimate aim the securing of a constant sufficiency of a principal article of food, independent of all foreign countries, by means which shall insure to the home grower an adequate return for the capital and skill employed.

The earliest statute extant upon this subject is the 34th Edw. III., c. 20, passed in 1360-61, by which it is enacted, that 'the passage of corn shall be prohibited in all the ports of England, so that none have licence nor warrant to gass with such corn in anywise, unless it be to Calais or Gascoigne, or to other special places which it behoveth that the king cause to be furnished with the corn of England, and that at his own ordinance and licence.

The phraseology of this act has led to the supposition that exportation was previously illegal, except with a licence from the king, and that the object in framing this law was to define and restrict the royal prerogative in this particular. In 1394 another act was passed (17 Richard II., c. 7) of a somewhat contrary tendency. By this new law licence is granted by the king—such are the terms of the act—' to all his liege people of his realm of England, to ship and carry corn out of the said realm, to what parts that please them, except to his enemies, paying the subsidies and devoirs thereof due, notwithstanding any ordinance, preclamation, or any defence (prohibition) made before this time to the contrary; nevertheless he will that his council may restrain the said passage when they shall

Return incomplete.

think best for the profit of the realm.' This, act was confirmed in 1425 by the act 4 Henry VI., c. 5. Eleven years later it was thought necessary to fix a limit in regard to price at which the liberty to export should cease, and that limit was declared (15 Henry VI., c. 2) to be 6s. 8d. per quarter for wheat and 3s. per quarter for barley. This act was passed for only a limited time, and had expired, when, in 1441, on the meeting of parliament, it was renewed in the following terms: 'Our sovereign lord the king, foreguench as this statute is not row in his force, and that esmuch as this statute is not now in his force, and that many counties adjoining to the sea may not sell the substance of their corn but by carriage and bringing by the sea, hath ordained, that the statute and ordinance aforesaid, now expired, shall begin to hold his force at the Feast of the Nativity of our Lady next ensuing, and shall endure from thence till the parliament next to be holden after the same feast, so that a parliament be holden within ten years next ensuing after the first beginning of this present parliament, and if so that there be no parliament holden within the same ten years, that then it shall continue and endure till the end of the same ten years: in 1444 this act was 'ordained to be perpetual, and stand in his force for ever' (23 Henry VI., c. 5).

The limited permission thus given to export their produce must be attributed to the increasing power of the land owners; and it may be taken as evidence that the cost of production in this kingdom was at least equally moderate with the cost in neighbouring countries, that in all this time no attempt was made to prohibit or restrict the importation of the produce of other countries. Such a restriction was however imposed in 1463 by the statute 3 Edward IV., c. 2, which on the plea that 'the labourers and occupiers of husbandry within this realm of England be daily grievously endamaged by bringing of corn out of other lands and parts into this realm of England, when corn of the growing of this realm is at a low price,' enacts that 'no person, from the feast of Saint John the Baptist next ensuing, shall bring into England any wheat, rye, or barley, not of English or Irish growth, unless the price of wheat shall exceed 6s. 8d. the quarter, that of rye 4s., and that of bar-ley 3s., on pain of forfeiture of the grain.' The statutes here mentioned, by which the prices were established at which the importation and exportation of corn were respectively to cease, continued in force until 1534, when a new act (25 Henry VIII., c. 2) prohibits, except by licence from the crown, the exportation of grain, the reason for which ulteration is thus quaintly expressed in the preamble to the act: 'Forasmuch as dearth, scarcity, good, cheap, and plenty of cheese, butter, capons, hens, and other victuals necessary for men's sustenance, riseth and chanceth of so many and divers occasions that it is very hard and difficile to put any certain prices to any such things, no person or persons, unless it be by licence under the king's great seal, from henceforth shall carry or convey any corn, beeves, muttons, veals, porks, or any other of the above said victuals to any parts beyond the sea, except only for the victualling the towns of Calais, Guinnes, and the marches of the same, and except for victualling of ships passing the seas.' The civil wars which preceded the accession of Henry VII. had caused much land to be thrown out of cultivation, and the caused much land to be thrown out or cultivation, and the act of 1334 was probably occasioned by the consequent diminution of produce, but this attempt failed, as it necessarily must, to increase the supply of grain, which effect would best have been brought about by a removal of all restriction. Such a course would have ill agreed with the improvement of the proposition perfect ideas upon such subjects which then prevailed; but as the evil was increased during the next 17 years, and it was thought necessary to apply some remedy, the statute 5 and 6 Edward VI., c. 5, was then passed. This statute is entitled, 'An act for the maintenance and increase of tillage and corn,' and it enacts that thenceforth at least as

attend the regulation than the prohibition of the trade. In 1562 an alteration in the law was made, by enlarging the limits of the prices which governed exportation, and these were fixed at 10s. per quarter for wheat, 8s. for rye, and 6s. 8d. for barley; and nine years later it was enacted (13 Eliz., c. 13) that corn might be exported on payment of certain specified duties at all times when no proclamation had been issued to the contrary. The law of 1463 had all this time been in existence, prohibiting importation while the prices of wheat, rye, and barley should be under 6s. 8d., 4s., and 3s. respectively; but the prices that had for some time prevailed rendered this law inoperative, and the law of 13 Elizabeth therefore gave virtual freedom to the trade in corn.

In the succeeding reigns and up to that of William and Mary this system was continued, but accompanied by various modifications as regards the limiting prices and the rates of duty chargeable. The prices at which export was permitted were from time to time enlarged, until, in 1670, wheat might be shipped away at any time when the price did not exceed 53s. 4d. per quarter. At the same time inport duties were imposed, so heavy as to amount to a prohibition the object of these regulations being to keep the research. tion, the object of these regulations being to keep the price of wheat always as high as 53s. 4d. per quarter for the advan-tage of the land-owners. Not satisfied, however, with this degree of favour, this powerful class succeeded in 1689 m procuring an act (1 William and Mary, c. 12) whereby they secured the payment of a bounty amounting to 5s. per quarter on the exportation of wheat when the price did not exceed 48s. per quarter; and bounties according to the same scale were granted for the export of barley and other grain.

Not content with interposing obstacles to a free trade in

corn with other countries, our ancestors thought fit to place restrictions upon that trade within the kingdom. It was imagined that if the consumers could be brought to dcal immediately with the growers, the profit of intermediate dealers would be saved. Under this impression, both parties looked unfavourably upon those dealers, the sellers imagining that they could obtain better prices and the buyers that they could purchase cheaper but for the middlemen, while the common people were easily led to believe that the dearths which then frequently occurred were attributable to the practices of the dealers in buying up corn and withdrawing it from the market. An act was passed, declaring it to be an offence to buy corn in one market with intent to sel it again in another, and persons guilty of this offence, to which the name of engrossing was given, were punished with imprisonment and the pillory. By a statute of Elizabeth, no person was permitted to convey corn from one part of the kingdom to another, unless he had a licence for the purpose, the right of granting or with-holding which was confided to the meritantee in quarter holding which was confided to the magistrates in quarter sessions. These restrictions were modified in 1624, and by the act 15 Charles II., c. 7, the engrossing of corn was made legal, whenever the price of wheat did not exceed 48s per quarter. So recently as the year 1800, when the price of wheat exceeded 100s, per quarter, engrossing however habeen held to be an offence at common law, and a corn-dealer was convicted of it, but was not brought up for judgment.

The act of 1689 was modified in 1773, by reducing to 44. per quarter the price at which the payment of bounty was per quarter the price at which the payment of bounty was discontinued by law. In fact no bounty could have been claimed at any time after 1792, in which particular year the average price for the whole year was below the price fixed in 1773. At that time (1773) importation was permitted upon newwent of the population payment of the nominal duty of 6d. per quarter whenever the price should be above 48s. This permission was considered injurious to their interests by the landowners, who, on the plea that the country might become dependent up of lage and corn,' and it enacts that thenceforth at least as much land should be tilled in every parish as had been under the plough at any time since the accession of Henry VIII., under a penalty, to be exacted from the parish, of 52. for every acre that should be deficient. The general permission to export grain, which had been taken away in 1534, was restored in 1554 (1 and 2 Philip and Mary, c. 5) whenever the prices were at or under 6s. 8d. per quarter for wheat, 4s. for rye, and 3s. for barley. The preamble to this act makes it appear that it was passed, not in conseve of the prevalence of any sounder views of public ay, but because it was found impossible to prevent ation, and it was thought that better success would foreign countries for its supply of food, succeeded in 174;

twelve districts was taken as the measure for regulating importation and exportation to and from the kingdom.

A bill for raising the duties on importation, which was brought into the House of Commons in 1814, met with so much opposition that it was abandoned; but in the following year an act was passed, after great opposition, and exciting great clamour on the part of the people, allowing the free importation of corn from foreign countries, in order to be ware-housed or re-exported, but forbidding the importation for consumption, unless the average prices were, for wheat 80s; for rye, pease and beans, 53s.; for barley 40s and for oats 26s. Every description of corn might be brought for consumption from the British colonies, when the prices were, for wheat 67s., rye, peas, and beans 44s., barley 33s., and oats 22s. The deficient harvests of 1816 and 1817 raised the prices above these limits, and so much grain was imported free of duty that a considerable surplus was left for future and more abundant years. One of these years of abundance occurred in 1822, and during the next twelve months the prices of grain fell below what they had been in any year since 1792. It was expected, on the part of the land-owners, that the effect of the act of 1815 would have been to keep the price of wheat steady at or about 80s. per quarter, but this expectation was so far from being realised, that, if we except the year of which elapsed before the system of prohibition was exchanged for that of a graduated duty in 1829, was only 58s. 5d. per quarter. In the mean time, by an act passed in 1823, the law of 1815 was modified so as to allow of importation whenever the prices were, for wheat 70s., for rye, peas, and beans 46s., for barley 35s., and for oats 25s. per quarter, but a duty of 17s. a quarter for wheat (and other rates in proportion for other grain) was to be payable during the first three months of importation, and 12s., &c. thereafter the prices of corn were never such during its continuance as to bring this act into operation. the importation of wheat from the English colonies in North America was legalised upon payment of a duty of 5s. per quarter, without reference to the price in the English market. In 1826, a long continued drought caused great apprehensions concerning the coming harvests, and in order to prevent the opening of the ports to fresh importations, and the consequent probable admission of a quantity of corn beyond the actual wants of the country, by which prices would have been affected perhaps for years after, permission was given to the government to admit by proclamation 500,000 quarters of foreign wheat then warehoused in the kingdom.

The inconvenience of the system of alternate prohibition and unlimited importation was at length fully recognised by all parties, and in 1829 the act was passed (9 Geo. IV. c. 60) by which the trade in corn has since been regulated. The principle of this act is the constant freedom of importation upon the payment of duties fluctuating according to the average price of grain, decreasing as the price advances, and increasing as the price falls. The following table exhibits the scale of duties graduated according to the average prices of the different kinds of grain.

***		WHE			
		price sh			qr.
62s. a	bur bu	er <b>63</b> s. p	er qr	24s.	
63		64		23	8
64		65		22	8
65	,,	66		21	8
66		67		26	8
67	,,	68		เร	8
69	. ::	69	• • • • • • • • • • • • • • • • • • • •	16	8
69	;;	70		13	8
70		71		10	8
ήĭ		79	::	Ğ	8
72	••	72 73	•••	ğ	ŏ
above	724	,0	••	• •	ŏ
		• • •		•	
		ad not u			8
and i	n respec	t of eac	h integr	ral shil	ling,
or ar	v part	of such	integra	al shil	ling.
		ch prie			
616.	such du	ty shall	he incre	ased b	v ls
		.,			,
		-	_		

Men the price shall be 33s, and under 34s. per quarter, 12s. 4d. per quarter duty; and in respect of every integral shilling by which such price shall be above 33s, such duty shall be decreased by 1s. 6d., until such price shall be 41s, and whenever the price shall be at or above 41s, the duty shall be 1s. per quarter. Whenever the price shall be under 33s. and not under 32s., 13s. 10d.; and in respect of each integral shilling, by which such price shall be under 33s., the duty shall be increased by 1s. 6d. per quarter.

When the price shall be 25s. and under 27s. per quarter, 15s. 6d. per under 25s. per qr., 9s. 3d. duty; and quarter, and in respect of every integral shilling by which such price shall be above shall be above shall be decreased by 1s. 6d. until such price shall be above be at or above 45s., the duty shall be less when the price shall be above be at or above 45s. 1s. When the 21s. the duty shall be 1s. Whenever the price shall be above be at or above 45s. 1s. When the 31s, the duty shall be 1s. Whenever price shall be under 25s. and not under 24s. 10s. 9d.; and in respect of each integral shilling, or any part of part of each integral shilling, or any part of part of each integral shilling, by which each integral shilling, by and in respect of each integral shilling, or any part of part of each integral shilling, by which each integral shilling, by and in respect of each integral shilling, by which each integral shilling, the duty shall be increased by 1s. 6d. per quarter.

If the produce of and imported from any British possession in North America, or elsewhere out of Europe, the duties are as under:-

```
Wheat, until the average price shall be 67s. per
  quarter
                                                  5s. 0d
       when the average price shall be above 67s. 0
                                                     6
Barley, until the average price shall be 34s. per
  quarter
       when
                              at or above 34s.
                                                  U
Oats, until the average price shall be 25s. per
  quarter
                                                  9
                                                     0
       when
                              at or above 25s.
                                                  0
Rye, pease and beans—
     until the average price shall be 41s. per qr. 3
                                                     0
     when
                             at or above 41s.
                   99
```

Meal or flour, the produce of each different kind of grain, is admitted at rates of duty equivalent to those chargeable on each kind of grain respectively. In calculating such duties the following quantities by weight of meal or flour are deemed to be equivalent to one quarter of grain, viz. Wheat-meal or flour, 392 lbs.; barley meal, bean-meal, and meal of maize or Indian corn, 384 lbs.; rye-meal, 424 lbs.; and oatmeal, 176 lbs.

Having thus offered a brief sketch of the laws by which

the trade in corn has been and is regulated in this country, it remains to be shown what has been the course and extent of that trade during the period for which authentic records

Various attempts have been made at different times to estimate the consumption of this kind of food within the kingdom, but in the absence of any machinery for that purpose, such estimates must always partake of a great degree of uncertainty.

The following estimate of the produce of England about the close of the seventeenth century, was made by Mr Geoffrey King, whose statistical calculations have usually been received with much confidence. At that time wheat formed a much smaller proportion of the food of the English people than it does at present.

```
Wheat
                          14,000,000 bushels.
Rye
Barley
                          10,000,000
                          27,000,000
Oats
                          16,000,000
Pease
                           7,000,000
Beans
                           4,000,000
Vetches
                           1,000,000
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79,000,000 in all.

The quantities here assumed were not all consumed within the kingdom, a part being exported under the Bounty Act, as hereafter stated. Mr. Charles Smith, the author of the celebrated 'Tracts on the Corn Trade,' estimated that the six millions of inhabitants, then supposed to be living in England and Wales, consumed annually 3,750,000 quarters of wheat, 1,016,125 barley, 999,000 ryc, 1,791,125 oats—and that there were besides used annually within the kingdom-

90,000 quarters wheat—distilled, and made into starch barley—made into beer; ditto—applied to other uses; 3,300,000 117,000 2,461,500 oats-used for horses, &c. 31,000 rye-used by tanners, and for fattening ,, hogs; beans and pease—for negroes, horses, and hogs; pease—for sailors, &c.; 90,000 134,000 rape and other seed-for obtaining oil. 90,000

The aggregate of these quantities makes up nearly 50 per cent. more than the estimate of Mr. King, without making any allowance for the shipments to foreign countries, which, at that time, averaged about 1,500,000 bushels annually, and not taking into account the quantity required for seed, which must have amounted to about as much as the

Dr. Colquboun estimated the average annual consumption of the United Kingdom in 1812, as follows:

Species of Ocuin.		Species of Ocuin.		Species of Ocuia.					Consumed by animals.	Used in beer and spirits,	Used in various manufactures.	Total number of quarters.
			-			Cushela	Quarters.	Quarters.	Quarters.	Quarters.		
Wheat					9,000,000	8	9,000,000	l I		170,000	9,170,000	
Barny					1,500,000	10	1,875,000	210,000	4,250,000		6,335,000	
O. 's					4,500,000	12	6,750,000	10,200,000		l	16,950,000	
R e					500,000	10	625,000	59,000	••	1,000	695,000	
Beans and	Pen:	æ	•	•	500,000	8	500,000	1,360,000	••		1,860,000	
					16,000,000		18,750,000	11,829,000	4,250,000	171,000	35,000,000	

No allowance for seed is included in this estimate, which, besides was made when the population was less than two thirds of its present amount. If we allow that four milities of the population in Ireland are fed without having vertices to corn, we still have more than twenty-two milities of grante-consuming people. Taking those circumstances into consideration, it will perhaps not be beyond the truit if we estimate the quantity of grain actually used in the United Kingdom at about fifty-five millions of quarter annuality. The most careful estimate that has yet been more concerning the employment of the soil in the United Kingdom grow rather more than nineteen millions of statute acres for arable and garden land; and if we assume that the produce of all kinds of grain, taking one kind with a chert amount to three quarters to the acre, which is actual to be very near to the actual produce, we arrive by their mode of computation at a result which agrees substantant.

the estimate already onered.

The essemblance to which allusion has just been made, for main the population of Ireland do not employ grain for their subjections, leaves a considerable quantity of the produce of mainpart of the kingdom for use in England. The prester part of Irish grain thus brought to other parts of the topion, consists of oats; the quantity of wheat is also expected. The shipments have increased very material since the Union up to 1828, but since that time have nearly stationary, as will be seen from the following shipment, which includes all sorts of grain.

Guarters.	Quarters.	Quarters.
1801 \$ 500	1613 . 977,164	1825 . <b>2</b> ,203,962
02 . 457.067	1614 . 812,805	1826 . 1,692,189
nes . 313,546	1515 . 821,192	1827 . 1,829,743
, aug. 3 6,956	1816 . 873,865	1828 . 2,826,135
A05 306,923	1817 . 699,809	1829 . 2,305,806
1-14 . 466,947	1618 . 1,207,851	1830 . 2,212,729
1507 . 463,406	1619 . 967,861	1831 . 2,419,643
. min . 636.778	1420 . 1,417,120	1832 . 2,605,734
1 09 . 132,655	1421 . 1,822,816	1833 . 2,736,281
1610 . 632,649	1-22 . 1,063,089	1834 . 2,742,586
1- ' . 431 189	1-23 . 1,528,153	1835 . 2,679,342
D. C. Bott 265	1-24 . 1,634,024	

The propertions of different kinds of grain in the last times years of the series were as follows.

			1~33	1934.	1835.
V" matt			£44,201	779,504	661,776
Barion			107,519	221,578	166,503
Eve			167	982	615
(+11			1,762,519	1,719,501	1,822,767
lucim:	COTE		117	75	
\$ 219.			19.113	18,770	24,234
Product	•	•	2.645	2,176	3,447
			2,736,251	2.742.586	2,679,342

Unto the breaking out of the war of the French Revolution the country may be said to have been an exporting control for country may be said to have been an exporting control for country in the term years from 1760 to 1769 there were one two years in which the quantity of wheat exported control exceed the quantity imported; the aggregate accerning piece acting those ten years being 45s. 10d. per quarter of each angular than two years of importation (1767) and the formulated by the bounty, the whole excess that quart it will include the internal of the bounty, the whole excess that quart it will include being only 1.354.561 quarters. I have next decommary period, five were years of export and five it is part to a verage prices of each division being it can be a positivity. In the next period of the control of the average prices being 44s. 5d.

peace, was likewise the last year of exportation; if that year, when the average price was 41s. 9d., be excluded, the average price of the period was 57s. 6d. per quarter, and the importation amounted to 3½ millions of quarters. The importations of wheat from foreign countries, including our North American colonies, in each year from 1800 to 1835 inclusive, and the average price according to the London Gazette, have been as follows:—

	Quarters.				Quarters.		
1800	1,242,507	110s.	5d.	1818	1,503,518	83	8
1801	1,396,359	115	11	1819	122,133	72	3
1802	498,359	67	9	1820	34,274	65	10
1803	297,145	57	1	1821	2	54	5
1804	398,067	60	5	182 <b>2</b>	••	43	3
1805	842,879	87	1	1823	12,137	51	9
1506	280,776	76	9	1824	15,777	62	0
1607	<b>3</b> 79,833	73	1	1825	525,231	66	6
1808	••	78	11	1826	315,892	56	11
1809	424,709	94	5	1827	572,733	56	9
1810	1,491,341	103	3	1828	842,050	60	5
1811	238,366	92	5	1829	1,364,220	66	3
1812	244,385	122	8	1830	1,701,885	64	3
1813	425,559	106	6	1831	1,491,631	66	4
1814	681 <b>,333</b>	72	1	1832	325,435	58	8
1815		63	8	1833	82,346	52	11
<b>1</b> 81 <b>6</b>	225,263	76	2	1834	64,653	46	-2
1817	1,020,949	94	0	1835	28,483	39	4

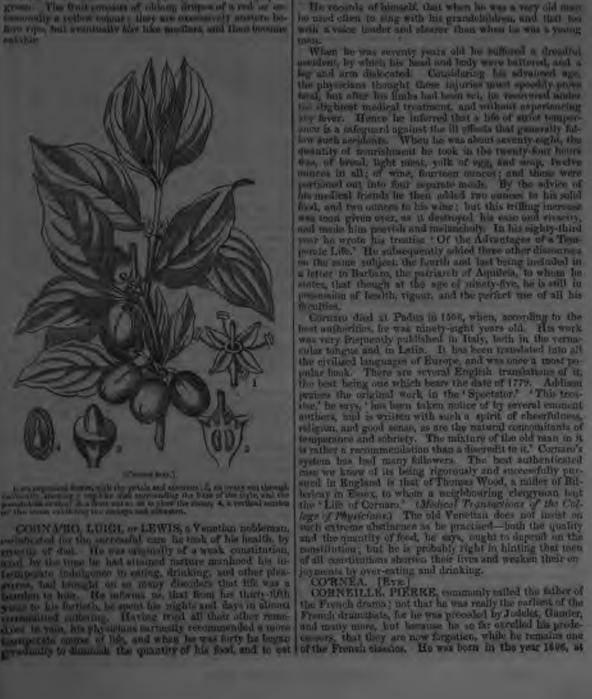
It was one principal object of the framers of the law of 1829 to prevent fluctuations in the prices of English grain. How far that object has been attained will be seen by the following statement of the highest and lowest prices that have occurred in each of the years since elapsed, and the per-centage difference between the same, calculated upon the lowest price of the year.

			Highest.	Lowest.	• Per-centage fluctuation.
			s. d.	e d	
1829			<b>75</b> 3	<b>56 3</b>	. 33 <del>1</del>
1830	•		72 11	56 1	. 30
1831	•		73 <b>5</b>	60 5	. 213
1832	•	•	63 5	52 5	. 201
1833	•		55 <b>5</b>	49 10	. 11 <del>1</del>
1834			49 6	41 5	. 19
1835			42 10	<b>36</b> 8	. 17

The fluctuation during the whole period of seven years is thus seen to have exceeded 100 per cent. if calculated upon the lowest price.

The principal supplies of foreign corn to Great Britain are drawn from Danzig, Hamburg, Rostock, and the ports of Russia on the Baltic. The shipments from Danzig are of the produce of Poland, and are brought down the Vistula on rafts to the port of shipment. The permission to import from British colonies at a low rate of duty has not occasioned the shipment of any considerable quantity. There is reason for believing that the produce of our North American colonies is not usually more than enough, findced it be enough, for their own consumption, and that in overy case where corn has been shipped thence for England, at least an equal quantity has been procured from the United States to supply its place. During the last one or two years this trade has been interrupted by the high prices in the United States, and the shipments to Europe from British America have consequently nearly ceased.

CORNA/CEÆ, a small natural order of polypetalous exogens, recently cut off from Caprifoliaces, to which they were formerly referred. They consist principally of shrubs, an inferior ovary, in each of whose cells is one pendulous ovule, four valvate petals,



COR

Some integers allowed as the making with them, and a drap-excess forcing that white of the spaces are relitivated in European gurions, specially through most a some fissily allowing.

Many of the spaces are relitivated in European gurions, specially through most a control and individual discovered process. Common and and southers, as also discovered the spaces and the spaces of the field are admitted that the spaces are relitivated in European gurions, as common and authorized for the field are admitted that the distribution of the control of these reliepes brought book has all particularly actions and the field are admitted that the spaces is the field are admitted that the spaces is the field are admitted to the field are admitte

Rouen, where his father was an advocate. Pierre himself! was destined for the bar, and had begun to practise in that profession, in which, however, he had but little success. Having been taken by one of his friends to see a lady of whom the latter was enamoured, he fell violently in love with her himself, an incident which furnished him with the plot of his first comedy Milete, produced in 1629, which was followed by the dramas of Clitandre, La Veuve, La Galérie du Falais, and La Place Royale, all produced be-tween that time and the year 1636. It appears that Cardinal Richelieu then aspired to be the grand arbiter in matters of dramatic taste. He sketched the plan of a comedy, with which Corneille, although a poet patronized by the Cardinal, had the hardihood to find fault, and this produced a lasting hostility on the part of the priest-prime-minister against the dramatist.

In 1636 Corneille's fame rose at once to its height. M. Chalon had recommended him to study the Spanish dramatists, particularly Guillen de Castro; and it is on the 'Cid' of this author that the celebrated Cid of Corneille was principally founded. This piece delighted the Parisians to enthusiasm; they had seen nothing equal to it, and they looked on it as a complete miracle. The author had they looked on it as a complete miracle. The author had before exhibited some tragic power in an earlier work called 'Medée,' but it is not till the production of the Cid

that we must look on him as 'le grand Corneille.'
The French Academy, which was founded by Richelieu, was by no means disposed to share the general enthusiasm. They (or rather Chapelain) wrote an elaborate critique on the Cid, in which they ventured to point out some defects, while they allowed the poet genius of the highest order, and rather found fault with the subject of the drama than Corneille's manner of treating it. This critique is in most editions of Corneille's works, affixed to the tragedy of the Cid, under the title of 'Sentimens de l'Académie Françoise

sur la Tragi-comédie du Cid.'

Corneille felt himself hurt by an imputation cast upon his inventive powers; it was hinted that he borrowed his plot from the Spanish, because he had not imagination enough to contrivé a new one. He long sought for a sub-ject which should silence these aspersions of his enemies, and at last turned his attention to Roman history, from which he drew the plots of his tragedies 'Horace' and 'Cinna,' both produced in 1639. The former fully proves his ingenuity in moulding a complicated story out of scanty materials.

These were followed by 'Polyeucte,' founded on the history of the martyr of that name, which by some is reckoned his chef-d'œuvre. 'La Mort de Pompée,' and 'Le Menteur' (an adaptation of the Spanish comedy 'La Sospechosa Verdad') succeeded, and were followed by a train of pieces with varying success till the year 1653, when the tragedy of 'Pertharite' was produced, and was decidedly unsuccessful. This misfortune disgusted Corneille for a time with the stage, and he turned his attention to other kinds of poetry, and began to versify Thomas à Kempis, 'De Imitatione Christi.' Six years wore off his disgust, and he again turned to the drama: the success of 'Œdipe,' produced in 1659, encouraged him to go on. He even turned his attention to opera writing, and the 'Toison d'Or' remains a specimen of what he has done in that species of composition. The success of this piece was decided, but it was only the flame of an expiring lamp; in vain he wrote fresh tragedies, in vain did his friends laud them to the skies; the public began to suspect that his genius was worn out, and he had ceased to be popular before the production of his last pieces, 'Pulcherie' (1672) and 'Surena' (1674). His latter works have sunk entirely into oblivion. He died in the year 1684, have sunk entirely into oblivion. He died in the year 1684, at the age of seventy-eight, having been a member of the Académie thirty-seven years. In private life he was a quiet domestic man, with a bluntness of manners that was almost repulsive. If we may trust his biographers, he had a few small faults, but no vice; his whole pleasure was centred in his own family. He and his brother had married two sisters, and resided together in one house, till death separated them. them.

It was, we have seen, by the 'Cid,' that Corneille first rose into colebrity; two or three passages of his 'Medée' are occasionally quoted, to show the development of a young poet, but as a whole it is forgotten, and probably would never have been cited, had not its author distinguished himself by his subsequent productions. His early comedies have sunk deservedly into oblivion, being dry tedious

pieces of declamation, without point, and founded on a false morality; their only redeeming merit is ingenuity of con struction.

If we now peruse the 'Cid,' we shall be at a loss to discover the cause of that enthusiasm which its appearance created in France, when, as it is said, all Parls saw Chimène (the heroine) with the eyes of Rodrigue (the hero). But it must be remembered that the French stage was in a wretched state before the appearance of Corneille; the pieces of his predecessors were for the most part dull and heavy, and without the slightest attempt at delineation of character. As a specimen of these old dramas, we refer to a translation of Garnier's 'Cornelia,' in Dodsley's old plays, which, strange to say, is commended by Ben Jonson. The chief fault found with the 'Cid' by contemporary crities was the selection of the subject. Don Rodrigue, to revenge a blow given to his father, kills the father of Chimene, his mistress, in a duel; she at first makes every effort to accomplish his death, but at length, at the request of the king of Spain, she marries him. It is the contention be tween love and duty in the heart of the heroine which is the leading feature of the drama. The Aristarchus of the 'Académie' called the lady a monster of filial impiety, and But it must be remembered that the French stage was in a 'Académie' called the lady a monster of filial impiety, and said that she had no right to love Rodrigue at all; the op-posite party contended that the preservation of her early love under all circumstances, was perfectly amiable and feminine. This literary battle, indeed, seemed rather to be fought for the morals of the heroine, than the merits of the play. Those who would wish to read the charge and its answer, may turn to the 'Examen' above referred to, and La Harpe's 'Cours de la Littérature.' It should be observed that the lamber of the Call' in the state of the control of the Call' in the control of the Call' in the control of the call of the control of the call that this drama of the 'Cid' is, by critics of the romantic school, preferred to his other works, as partaking somewhat of that spirit of chivalry which animated their idol, the Spanish drama.

The other most celebrated piece of Corneille's is 'Horace,' the last act of 'Cinna' being reckoned a chef d'œuver rather than the whole play. Fontenelle's praise of 'Horace,' for the ingenuity of its construction, is unquestionably just. 'Corneille,' says he, ' has but a combat to work upon, that of the Horatii and Curiatii, and out of this scanty subject he constructs a tragedy. The prospect, indeed, was but barren, yet the tragedian, by giving Horatius a sister of the Curiatii to wife, while his own sister is (according to the old story) betrothed to one of these Curiatii, and by dwelling on the times immediately preceding and pending the combat, has thrown an interest into his piece which was scarcely to be anticipated. Here indeed his praise ends, for the last two acts are occupied by the murder of Horatius' sister, and its consequences; hence, as La Harpe justly observes, they form a separate plot, totally unconnected with the preceding part of the play. The father of Horatius, as an illustration of the stern Roman character, is the most commended by

the admirers of this tragedy.

The general censure passed on Cornelle's comedies does not extend to 'Le Menteur,' which is one of his later productions, and is an excessively humorous and amusing nicce. The English know it well from Foote's version, the Liar; and indeed it was introduced into this country long before the time of Foote; an anonymous translation was acted in 1685. under the name of the Mistaken Beauty. and a subsequent adaptation was written by Sir R. Steele. called the 'Lying Lover.'

The chief merit which is assigned to Corneille by his admirers is his dignity; they allow that Racine may be more elegant, more touching, but in a 'noble ferocity' they say that Corneille stands alone. It must be remembered that when Corneille wrote the French tongue was still in an uncultivated state; he must not therefore be taken as a model of French style, his verse being often defective, and

his language disfigured by barbarisms.

Voltaire, on learning that a great-niece of Corneille was entirely without fortune and almost without friends, took her into his house at Ferney, where she completed her education, and in a few years was married by Voltaire to a captain of dragoons. Besides giving her a marriage portion, Voltaire undertook to write a commentary on Corneille, for the besides of this profit of the profit of t nesit of his protégée. The work, which was printed by subscription, and liberally patronized by the French king, the Duc de Choiseul, Madame de Pompadour and others. brought in 50,000 francs, as an addition to the young lady's marriage portion. Voltaire, though a great admirer of marriage portion. Voltaire, though a great admirer of Corneille, was not blind to his numerous faults, which he

has pointed out at full length in his 'Commentaries' in two

vols. 8vo. (vols. 48, 49). Edition of Lequien, Paris, 1826.
CORNEILLE, THOMAS, brother of Pierre, was twenty years younger, being born in the year 1625.
He distinguished himself in early life by a comedy in Latin verse, which he composed during his education at the Jesuits' College. Like his brother he began by imitating the Spanish dramatists, and in the course of his career produced no less than forty-two pieces, tragedies and comedies. Nothing could exceed the popularity of some of his plays, which, however, was but transient, as they have, with about two exceptions, been long forgotten. The works by which he is chiefly remembered are 'Le Comte d'Essex,' and 'Ariane,' both tragedies. The former is much censured for the ignorance which it displays of English history: the latter is commended for the character of its heroine: here, however, its merit ends; the rest of the dramatis personæ being mere nullities. On the death of his brother, Thomas Corneille took his place in the Académie, and contributed to the 'Dictionnaire:' he also assisted his friend De Vise in editing the 'Mercurie Galant,' a noted periodical, and became a member of the Academy of Inscriptions. He died at Andelys in 1709, having shortly before lost the use of

his sight.

CORNELIAN CHERRY. [CORNACEE.]

CORNET, a commissioned officer in a regiment of cavalry. He is immediately inferior to a lieutenant, and his rank corresponds to that of an ensign in a battalion of in-

The word is derived from the Italian cornetta, signifying a small flag; and hence, both in the English and French services during the sixteenth and seventeenth centuries, it was applied not only to the officer who had charge of the standard, but to the whole troop, which seems then to have consisted of 100 men and upwards, and to have been commanded by a captain.

CORNET, a shrill wind instrument formed of wood, which seems to have been known from the earliest times, and continued in use till the latter part of the seventeenth century, when it was laid aside for the oboe. In the Musurgia of Luscinius is a rude wood-cut of the cornet; but it is represented in a more satisfactory manner in Mersenne's Harmonie Universelle, from which it appears that the instrument was blown by a mouth-piece, and that there were treble, tenor, and base cornets. The compass of the first was from A, the second staff in the treble, to E in alt. The last was bent in rather a serpentine form, and reached

nearly five feet in length, therefore was deep in tone.

CORNET-STOP, in the organ, is an imitative treblestop, consisting of five ranks of pipes, in organs on a large scale, each key of the instrument causing all the five pipes to sound at once. These are tuned to a given note, its octave, twelfth, fifteenth, and seventeenth, though the whole together produce the effect of a single note. This is a harsh stop, and is now only used in union with others: but formerly, compositions were written exclusively for it, called Cornet Pieces, which, happily, the present improved taste in organ-playing has proscribed. CORNICE. [CIVIL ARCHITECTION

CORNICE. [CIVIL ARCHITECTURE; COLUMN.]
CORNOUALLES, a name sometimes given to the town
of Quimper, capital of the department of Finistère in France; but more commonly appropriated to a district formerly constituting the domains of a Breton count, who took his title from it. Its extent is not clearly ascertained, some making it co-extensive with the diocese of Quimper; others also including in it the diocese of St. Pol de Léon. It is noticed here only from the coincidence of its name with that of a part of England (Cornwall), from which it is probable that many of the Bretons emigrated.

CORNS are in the first instance merely thickenings of the cuticle, generally of the toes, arising from continued pressure over a projecting portion of bone. While superpressure over a projecting portion of bone. While superficial, a corn is moveable, and retains the lamellated structure of the cuticle; afterwards it acquires a base, attaches itself more firmly to the subjacent parts, and becomes a complete corn. 'A bursa or bag of synovial membrane, similar to those bursæ which are of original formation, but of very small size, is formed between the thickened cuticle and the cutis; it is this combination of thickened cuticle with a subjacent bursa which constitutes a perfect corn.' Corns are either hard and dry, which is the case when they are situated externally; or they are soft, when situated between the toes. The inconveniences arising from corns are

generally slight; sometimes they are very serious. bursa under a hard corn is apt to suppurate, and the inflam mation, pain, and irritation, are excessive. Tight or improperly-shaped shoes being the primary cause of corns, shoes or boots fashioned to the natural shape of the foot must be worn, and the material of which they are formed should be soft and pliant. To avoid pressure upon a corn already existing, a portion of leather spread with diachylon or other emollient plaster having a hole in it corresponding with the size of the corn may be worn; or if the outer portion of the corn, which is quite insensible, be pared or scraped away, temporary relief is obtained. For a corn which has become very sensible, the application of lunar caustic or concentrated nitric acid is necessary; if there be reason to suspect the existence of an inflamed bursa containing pus, the outer portion must be cut away with the scalpel, and the bursa freely laid open, so that the matter may escape, which will give great relief. If a soft corn become very sensible, as it often does, without an abscess existing beneath, concentrated nitric acid should be applied. Bunions differ from corns, inasmuch as the part affected is generally of greater extent; a bursa is always connected with them, and when inflamed, serum is secreted, which, if pressure and all causes of irritation be avoided, is again speedily absorbed. If the bursa be much inflamed, leeches and fomentations are necessary; and should pus have formed, it must be let out. If the abscess do not speedily heal, nitric acid should be carefully applied to its inner surface. Extirpation of corns has been recommended, but it is not free from danger, and should never be attempted except by a very skilful and dexterous person. A wound or laceration of the tendons or fibrous structures around the joints, is sometimes followed by the most alarming symptoms, even by tetanus and death. Amputation of the toe has been practised. (See Sir B. Brodie's excellent Lecture on Corns and Bunions,

Medical Gazette, 13th February, 1836.)

CORNU AMMO'NIS, the old Latin name for the now well known fossit shell, the Annuonite. These Cornua Ammonis. Cornes d'Ammon of the French, were so called from a fancied resemblance to the horns with which the head of Jupiter Ammon was sculptured. In the earlier times their origin was variously accounted for: some theureby there or tiges the second and the second th thought them petrifications of real rams' horns, taking the name above mentioned in a strict and downright matter-offact sense; others thought they were the curled tails of certain animals; some took them for petrified marine worms rolled up; others saw in them coiled serpents, whence they were called *snake-stones*. The legends of the saints invested them with a sacred interest.

Of thousand snakes, each one Was changed into a coil of stone, When holy Hilda pray'd.

And the prayer, we are told, was not only followed by petrification, but by decapitation. We believe that there is a similar tradition of St. Keyna, who, when she found herself in a wood at Keynsham, between Bath and Bristol, surrounded by serpents, changed them by the fervour of her devotions into headless stones. Nor were these opinions confined to the mere vulgar. Wormius described Ammonites as petrified adders. Langius considered them to be either the vertebræ of scrpents or convoluted marine insects. These notions were not lost on the dealers; and there are few fessil collections which do not even now possess what was called a perfect Cornu Ammonis, that is, an Ammonite with a carved serpent's head ingeniously fitted on to the fossil shell by way of aperture. Our limits will not permit us to dwell on this fabulous part of the history of Ammonites further than to observe that other learned men, Torellus Sarayna, Frascatorius, &c., considered them as lusus Natura, formed by the plastic power of the earth. The antients held them in high estimation as very sacred and of the highest value to the dreamer. Thus Pliny (*Hist. Mund.*, book xxxvi., c. 10), 'Hammon's cornu inter sacratissimas Æthiopiæ gemmas, aureo colore, arietim cornus effigiem reddens, promittitur prædivina somma representare; and even to the present time the Indians are said to ascribe extraordinary properties to them.

To the zoologist Ammonites are objects of great interest, and to the geologist they are of the utmost consequence. 'It is easy,' says Mr. Phillips, in his 'Guide to Geology,' (8vo. 1834) 'to see how important, in questions concerning the relative antiquity of stratified rocks, is a knowledge of Ammonites, since whole sections of them are characteristic

of morning approximation, p. 312) these manifestation is the accordance Transfer, p. 312) this is naturally related to the accordance of the more set up probable the control of Thin form by of A minus the extended the control of morning of the morning of the control of the co the dissertance in

According to Mr. Oxonia in does by systeticity, the Alexander on forth the limiting grows of the econd lines of Ammonial day of the Airthur Telephonochuma, of the cause Cophalogoda. Vie Mr. Oxonia destination of the Airthurae told, see Court property, vol. 11, p. 324. M. De Barrine, in this Main may of time defined in some and of Amountee.

Shell discord, more or less compressed; semires of the specimen or less ender to the aper one seminorders a latter solened or opened out (exa-6a); the partitions constantly

summer, a dot-of siphon.

In the 'Additions and Corrections, the author states that he had observed at M. D. france known beautiful individuals of different species of Ammonite , such had over generously communicated to M. Determent, M. Desling hamps, of Caen which present their apertures in a very complete state, and which he has figured. M. De Blauville further states that he is satisfied that this aperture is not always widened, as he had stated after an Roglish author, and that it is often even rather contracted. The most constant character, he adds, is, that the border or lip is swellen into a thick margin thouselet), which is very regularly symmetrical, as in other unival e shells, and that this border, often subauriculated or rather notched at its root, is remarkably sinuous on each side; so that it becomes necessary to add to the character of this genus 'aperture symmetrical, a little widened or contracted, the border or hip thickened into a margin (bour-relet), and often notched or sinuous and auriculated in a saciable manner at the origin. This addition, though correct to some extent, should not be taken for granted as a general proposition, for there are certainly exceptions. M. Rang makes the genus Ammonites (Bruguière) em-brace the following genera: Orbulites, Planorbites, Planu-lites, of Lannarck; Ellipsolites, Amalthea, Pelagusa, Simplegus, of De Montfort; Ammonelliptites of Parkinson; Ophiopomorphites of Plott; Globites, Ceratites, and Go-

untites, of Do Haan.
The following is M. Rang's definition:—

Anumal unknown.

Shell di coid, with the spire convoluted on the same plane, either enveloping or not enveloping; whorls con-tiquous, partitions more or less lobated on their borders, with munications or digitations; last chamber occupying

the whole of the last wholl of the spire.

M. Rang observes that M. Defrance and M. D'Orbigny have remarked a particular disposition in the form of the borders of the sperture of Ammonites; these borders are noticetimes furnished with a margin which is thick and reflorted outwards; at other times two clongated tongue-like processes, terminated in a point or digitated, extend from each of the sides; lastly, adds M. D'Orbigny, in some others, a third appendage is given off from the middle of the two tongue like processes, and bends (so replie) over the entrance of the aperture.

M. Rang proposes three groups:--

Those with an embracing spire (spire embrassante). Krample, Ammonites subradiatus, &c.

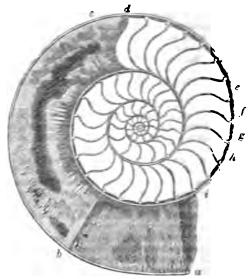
Those with a demi enveloping spire. Example, Ammonter Mantellif. &c.

Those with a spire entirely uncovered. Example, Am-

month's girent, is, &c. Having given this sketch of the opinions of the authors above quoted. It will be necessary to meet the question whether the Ammonites were external or internal shells. Cuvier and Lamarck thought that they were internal. The flamer save (Region Intenal, last edition) "La petitesse de hour derindre loge peut faire coure que, comme la spirule, elles étaient des coquilles intérierres. These are great names, but no must differ from them. Mr. Quen, in his urrangement above quoted, savs. 'Animal unknown, pre-

the last chamber the largest and ledging the animal;

of early is systems of moles him to a Dr. Bucklind or that a attranced by Corner in favour of his opinion that Alam involve the Sharris, were internal she is. The money of really founded in observations made up to interfer opening. The interinguisher of Ammonities is erfort accomment. The inter chamber of Ammenties is very so dom preserved in a perfect state; but when it is a constitution of nord to cear at least as large a proport, a to no coalle er diport of the sheet as the outer cell of the Naut of Polyco, is bears to the chambered interior of that sheet. It often occurries more than half and, in some cases, the whole corruntference of the outer which. This year chamber is not thin and feeble, like the long aftern rechamper of the spirila, which is placed within the body of the animal profitting this shell, but is nearly of course thickness with the sides of the close chambers of the Am



Ammonites obtusus.]

From Dr. Buckland; a, b, c, d, outer chamber. It should be remembered that the specimen is apparently imperfect at the aperture. The siphon or tube of communication may be traced from d, where it opens into the last or outer chamber, along the edge of the section, e, f, g, h, i, to the very nucleus of the shell. The waved transverse lines represent the partitions of the chambers.

The large proportion of the outer chamber is very strongly

marked in specimens of Ammonites rostratus, that have

the aperture perfect or nearly so.



[Ammonites rostratus.]

'Mercover,' continues Dr. Buckland, 'the margin of mature Ammonite is in some species reflected in a k:- 'scroll, like the thickened margin of the shell of the g snail' (bourrelet of the French), 'giving to this patrength which would apparently be needless to an indicate the strength which would apparently be needless to an indicate the strength which would be strength which would be strength which would be strength. shell. The presence of spines also in certain spec; sin Ammonites armatus, A. Sowerbii) affords a street I this we think was the actual state of things. Dr. ment against the theory of their having been blind, in his 'Bridgewater Treatise,' says, 'The small-shells. These spines, which have an obvious use? ? of the outer chamber or place of ledgment for the tection, if placed externally, would seem to have.

useless, and perhaps noxious, in an internal position, and are without example in any internal structure with which

we are acquainted

Mr. De la Beche has proved from the mineral condition of the outer chamber of Ammonites from the lias at Lyme Regis, that the entire body was contained in it, these animals having been suddenly destroyed, and buried in the earthy sediment of which the lias is composed, before their bodies had either undergone decay or been devoured by the then existing crustaceans. Dr. Buckland notices this in his treatise, and adds, that in the Ammonites in question, the outer extremity of the first great chamber in which the body of the animal was contained, is filled with stone only body of the animal was contained, is filled with stone only to a small depth (cut of Ammonites obtusus, a to b); the remainder of this chamber, from b to c, being occupied by brown calcareous spar, which has been ascertained by Dr. Prout to owe its colour to the presence of animal matter, whilst the internal chambers and siphuncle are filled with pure white spar. 'The extent of the brown calcareous spar, therefore, in the outer chamber,' continues Dr. Buckland, 'represents the space which was occupied by the body of the animal after it had shrunk within its shell at the moment of its death, leaving void the outer portion only of its chambers, from a to b, to receive the muddy sediment in which the shell was imbedded. I have many specimens from the lias of Whitby of the I have many specimens from the lias of Whitby of the Ammonites communis, in which the outer chamber thus filled with spar occupies nearly the entire last whorl of the shell, its largest extremity only being filled with lias. From specimens of this kind we also learn, that the animal inhabiting the shell of an Ammonite had no ink-bag; if such an organ existed, traces of its colour must have been found within the cavity which contained the body of the animal at the moment of its death.'

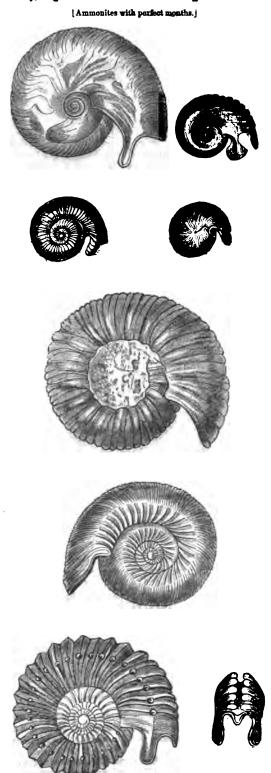
Dr. Buckland very happily illustrates the different arrangements by means of which a union of lightness and strength is secured to the shell both from the external conformation and the mode in which the transverse plates are disposed; and as our limits will not allow us to enter minutely into the subject, we must refer the reader to the 'Bridgewater Treatise' for the interesting details, which show that a more perfect instrument for affording universal resistance to external pressure—an instrument in which the greatest possible degree of lightness combined with the greatest strength was required—could scarcely be imagined, and must confine ourselves to the doctor's summary. 'As the animal increased in bulk, and advanced along the outer chamber of the shell, the spaces left behind it were successively converted into air-chambers, simultaneously increasing the power of the float. This float being regulated by a pipe passing through the whole series of the chambers' (see the cut of Ammonites obtusus), formed an hydraulic instrument of extraordinary delicacy, by which the animal could at pleasure control its ascent to the surface or descent to the bottom of the sea. To creatures that sometimes floated, a thick and heavy shell would have been inapplicable; and as a thin shell inclosing air would be exposed to regions and down interest dayness of pressure at the better that the season of the season to various and often intense degrees of pressure at the bottom, we find a series of provisions to afford resistance to such pressure in the mechanical construction both of the external shell and of the internal transverse plates which formed the air-chambers. First, the shell is made up of a tube coiled round itself, and externally convex. Secondly, it is fortified by a series of ribs and vaultings disposed in it is fortuned by a series of rios and vantings disposed in the form of arches and domes on the convex surface of this tube, and still farther adding to its strength. Thirdly, the transverse plates that form the air-chambers supply also a continuous succession of supports, extending their ramifica-tions, with many mechanical advantages, beneath those portions of the shell which, being weakest, were most in need of them.'

Reinecke\*, Von Bucht, Zietent, and De Haans are among the other moderns who have written treatises on this interesting genus, or have illustrated it; and much information will be found in the works of Parkinson,

Schlotheim, James Sowerby (Min. Con.), De la Beche, Phillips, and others.

The species are very numerous. De Blainville quotes Defrance for 120 species, adding that he (Defrance) asserts that there are no more, but inquiring on what Defrance rests his assertion. M. Brochant, in his translation of De la Beche's Manual, enumerates 270.

The method of arrangement is various by various authors; but we think that when the subject is better known than it is at present, the shape of the aperture, which varies con-siderably, ought to be considered a leading character.



Maris protogni Nautilos et Argonautos vulgo Cornua Ammonis in agro Coburgico et vicino reperiundos descripsit et delineavit, etc., D. 1. C. M. Reisnecka. Coburgi, 1818, 8vo.

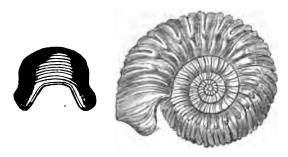
† Ueber die Ammoniten in den älteren Gebirgs-Schichten. Gelesen in der Akademie der Wissenschaften, am, i. April, 1830. 4to. Recueil de Planches de Pétrifications renarquables, par Leopold de Buch. Berlin, 1834, folio.

† Die Versteinerungen Wirtembergs, &c. Stuttgart, 1830, and following years. Folio.

† Specimen phikosophicam inaugurale, exhibens monographiam Ammonitsorum et Goniatiteorum, etc., 1825, Lugduni Batav.

28





These cuts, which are copied from De Blainville, will not only give the reader some idea of the shape of the aperture, but also of the external appearance of the shell, while the following, from Dr. Buckland's Bridgewater Treatise, will convey a notion of the concamerations in some of the species. An internal view of a very simple form of these and of the siphon or pipe will be seen in the cut of Ammonites obtusus.



Geological Distribution. — Professor Phillips, in his 'Guide to Geology' (8vo. 1834), thus distributes the Ammonites among the different formations.

## SUB-GENERA OF AMMONITES.

1	Gonfatites	Ceratites.	Arietes.	Palciferi.	Amalthei.	Capricorni.	l'Innulati.	Dorsati.	Coronarii.	Macrocephali.	Armati.	Dentati.	Ornati,	Flexuost.
In Tertiary strata In Cretaceous system In Colitic system In Saliferous system In Carboniferous system Im Primary strata	17	3	12	33	487	19	26	 5	ii	9	14	13	9 5	2 2

Total, 223 species.

The strata termed primary in Professor Phillips's table are those which Dr. Buckland has included in the lower region of the transition series in his section. (Bridgewater

e, pl. 1.)
re indebted to Dr. Buckland for forwarding to us specimens of Ammonites and some orthocerata from of Man, where they were collected by Captain Bena small bay near Castletown, in a confined space

(of a few yards), about high water-mark, resting on clay slate. The rock in which they were found appears to be transition limestone imbedded in slate. The shells are converted into arsenical pyrites, and some of them are included in lumps of the same mineral.

Geographical Distribution.—As the Ammonites were evidently principal agents for keeping within bounds the mollusks, &c., the crustaceans, and perhaps fishes of the periods prior to the chalk formation, and belonging to the latter epoch, we should expect to find them widely distri-buted. Accordingly, they occur in Europe, Asia, and America in strata apparently of the same date. In some instances, the genera and even the species are identical. Dr. Gerard found in the Himalaya Mountains, at an elevation of 16,000 feet, Ammonites Wulcoti and Ammonites communis, fossils that are found in the lias of Lyme Regis. M. Ménard met with one in the Maritime Alps at an elevation of 1500 toises. Their numbers must have been great.
M. Dufresne informed Lamarck that the road from Auxerre to Avalon in Burgundy was absolutely paved with them. The individual agency too of some of these carnivorous instruments for preserving the balance of marine animal power must have been of no small importance. Lamarck says that he has seen Ammonites of two feet (French) in diameter. Mr. James Sowerby and Mr. Mantell record Ammonites in the chalk with a diameter of three feet; and Dr. Buckland states that Sir T. Harvey and Mr. Keith measured Ammonites in the chalk near Margate which exceeded four feet in diameter; and this in cases where the diameter could have been in a very small degree on larged by pressure.

Dr. Buckland is of opinion that the Rhyncholites, or beakstones, which occur so abundantly in the colite of Stonfield, in the lias at Lyme Regis and Bath, in the Muschel-kalk of Luneville, &c., were the mandibles of Ammonites as well as of fossil Nautili, and there can be no reasonable

doubt of the fact.

We must here close a subject on which we could say much; and we leave it the more willingly, because the student will find in Dr. Buckland's Treatise a full and copiously illustrated account of Ammonites, more especially as regards the varied properties of support and the hydraulic action of the siphuricle.\* Ammonites heterophyllus, figured at plates the siphuncle. Ammonites heterophyllus, figured at plates 38 and 39, affords a beautiful example, as the Doctor observes, of the manner in which the mechanical strength in each transverse plate is so disposed, as to vary its support m proportion to the different degrees of necessity that exist for

ti in different parts of the same shell.

CORNUCO'PIA, or CORNU-COPLÆ, the horn of plenty, fabled to have had its origin in the infant days of Jupiter. Ovid, in his 'Fasti' (lib. v. 115-128), tells us that one of the goats of Amalthea, who nursed Jupiter in Crete, broke off its horn against a tree, when the nymph, having wreathed it with flowers and filled it with fruit, presented it to the god. Jupiter, when he came into power, called his nurse to the skies, and made the horn the emblem of fertility. The Greeks called it κίρας 'Αμαλθείας, the horn of Amalthea. In his 'Metamorphoses' (lib. ix. v. 82, &c.). Ovid derives the origin of the Cornucopia from a different fable. He speaks of it as the horn of the river god Achelous, broken off by Hercules, and consecrated by the Naiads:-

## Natiles hoc, pomis et odoro flore repletum, Sacrarunt.

The Cornucopia occurs very frequently in the types of antient coins, particularly upon those of Sicily. (See the

medal of Arsinos.)

CORNUS. [CORNACEE.]

CORNWALL, an English county, forming the southwest extremity of the island of Great Britain. The form of the county approaches that of a right-angled triangle, of which a line about seventy miles long, drawn E.N.E. and which a line about seventy miles long, drawn E.N.E. and W.S.W. from Penlee Point at the entrance of Plymouth Sound, to the Land's End, may be regarded as the base; another line, forty-two miles long, drawn N.N.W. and S.S.E. from Penlee Point to the north-east corner of the county, as the perpendicular; and a line eighty-one miles long, drawn north-east and south-west from the last-mentioned point to the Land's End, as the hypotenuse. The area of the county, exclusive of the Scilly Isles, is 1330

Geology and mineralogy considered with reference to natural theology, by the Rev. William Buckland, D.D., &c., &c., London, 1835, 8vo. See vol. 1, p. 338 to 357, and vol. it., plates 35 to 42.

COR

square miles, being rather less than the area of the triangle

above described. Cornwall lies between 49° 55' and 50° 55' N. lat., and 4° 9' and 5° 42' W. long.

The only county with which Cornwall is conterminous is Deconshire, which bounds it on the east (or rather on the E.N.E.): on all other sides it is surrounded by the ocean. The north-west coast is high and rocky. Tracing it from the border of Devonshire, it runs south by west, and forms two very shallow bays (Bude Bay and Widemouth Bay), succeeded by the headlands, Dazard Point, Castle Point, Penkenner Point, and Carnbeak. From Carnbeak the coast runs south-west, and forms several headlands, Tintagell Head being the principal; and several small bays as far as Pentire and Stepper Points, near the mouth of the river Alans or Camel, the entrance of which forms the haven of Padstow. A few miles W.S.W. of these is Trevose Head, the most prominent headland on this side of the county: this is succeeded by Constantine, Watergate, and Towan bays, Towan Head, Fistal, Cranstock, and Holywell bays, Penhale Point, Ligger or Piran Bay, and St. Ives' Bay, Gurnard's Head, Cape Cornwall, Polpry and Peden-Mean-Due points, the last of which is less than a mile from the Land's End. The general direction of the coast from Trevose Head to Cape Cornwall is south-west; from Cape Cornwall to the Land's End due south. Along this side of the county are scattered several islets and insulated rocks, but nothing that is worthy of notice. Off the Land's End are the Scilly Islands, a numerous and not unimportant

group. [SCILLY ISLANDS.]
The coast from the Land's End to Plymouth Sound is marked by bolder promontories and deeper bays: it possesses for the most part the same character as that just described, but there are more frequent intervals of low and shelving beach. From the Land's End to Mount's Bay, the coast forms a line convex to the ocean, broken by a number of small headlands with intervening coves. Mount's Bay takes its name from St. Michael's Mount, a remarkable insulated rock opposite the town of Marazion, and connected with the main land by a causeway over the sands: Cuddan Point forms the eastern boundary of the bay. From Cuddan Point the coast runs south-east to the Lizard, the most southern point of England: and from thence turning north-east, forms the headlands of Innis Head, Black Head, Chynals Point, Dranna Point, Nare Point, Rosemullion Head and Pendennis Point, which last two form the extremities of Falmouth Bay. Between Nare Point and Rosemullion Head is the wide assuary of the Helford river. Between Pendennis Point and Zone or St. Ann's Point (the next important headland) is the wide æstuary of the Fal, known by the name of Carrick Road, of which Falmouth harbour and St. Mawes harbour are branches. From Zone Point the coast still runs north-east to Greber Head, forming Gerrans, Veryan, Megavissey, St. Austell and St. Blazey bays, with the intervening headlands Pennare Point, Dodman or Deadman Point (379 feet high), Chapel Point, and the Black Head. From Greber Head the coast runs cast to the Rame Head and Penlee Point (which is the entrance of Plymouth Sound), forming Looe and White-sand bays. The rocks and islets along this coast are too

unimportant to require notice. Launceston, which has commonly been considered as the county town, is on the eastern border of the county; but Bodmin, which has a better title, is more central: it is about 210 miles from London in a direct line W.S.W., or 235 miles by the road through Salisbury, Dorchester, Exeter, and Launceston.

The population of the county by the census of 1831 was 300,938, including the Scilly Islands, or 298,473 without them; the latter number, compared with the area of the county as stated above, gives about 224 inhabitants to a square mile: which is considerably under the average of England and Wales, and still more under the average of England alone. (Arrowsmith's Map of England and Hales; Ordnance Map; Population Returns for 1831; Paterson's Roads.)

Surface, Hydrography, Communications.- From the central part of Cornwall, which is the highest, the land slopes towards the sea on each side. The whole surface of the county is irregular. The great post-roads pass over the central high ground, which, being for the most part waste moorland, give travellers a more unfavourable opinion of the soil, than, taken altogether, it deserves: for, in many parts, it is pleasingly diversified by hill and dale; some of county is irregular. The great post-roads pass over the central high ground, which, being for the most part waste moorland, give travellers a more unfavourable opinion of the soil, than, taken altogether, it deserves: for, in many

the valleys are beautifully picturesque, presenting corn and meadow land, wood and water. On the northern coast the land is generally high, with short narrow valleys: on the south coast the valleys are wider. The central ridge approaches, on the border of Devonshire, the N.W. coast the streams that flow from its S.E. side have consequently a longer course, and are the most considerable in the county. The height of some of the hills is considerable, but they have not generally striking or picturesque forms, except where they extend down to the coast, and form abrupt headlands, as at Tintagell, Cape Cornwall, and the Land's End. The principal elevations are—Brown Willy, at the source of the river Fowey, 1368 feet; Carraton, or Caradon Hill, north of Liskeard, 1208 feet; Kit Hill, on Hingeston Down, near Callington, 1067 feet; Hensbarrow Down, north-west of St. Austell, 1034 feet; Cadon barrow, near Tintagell, 1011 feet; Carnmarth, south-east of Redruth, 849 feet; Carnmenclez, Carn-Menelis, or Carnbonellis, south of Redruth, 822 feet; Carnminnis, south-west of St. Ives, 805 feet; Carn-Brea, south-west of Redruth, 697 feet; Pertinney, near the Land's End, 689 feet; Bindown, between East Looe and Liskeard, 658 feet; Bodmin Down, southwest of Bodmin, 645 feet; St. Agnes Beacon, near St. Agnes, 621 feet; St. Stephen's Down, north of Launceston, 605 feet; the town of Launceston, 591 feet; St. Buryan, near the Land's End, 415 feet; the town of Redruth, 414 feet; Maker Heights, on Plymouth Sound, 402 feet; and Sennen, near the Land's End, 387 feet. The above elevations are, with one or two exceptions, from the 'Ordnance

The principal rivers of Cornwall are the Tamer, with its tributaries; the Fawey, or Fowey; the Fal; the Alan; the Seaton; the Looe; the Hel, or Helford; and the Heyl. The Tamer rises in the moors which form the north-east point of the county, and extend into Devonshire; and flows south-south-east into Plymouth Sound, forming, almost throughout its course, the boundary between Cornwall and Devonshire. It has no tributary worthy of notice, until it reaches the little village of North Tamerton, where it receives two large streams, the Deer and the Claw, from Devonshire. Lower down it receives a more considerable stream, to which in the 'Ordnance Survey' no name is given, but which Messrs. Lysons designate as the river Werington, from a village near its banks. The Attery, a smaller river, which flows by Launceston, falls into the Tamer, about a mile below the Werington; and about the same distance below that the Tamer is joined by the river Lyd, from Devonshire, and a few miles farther down by the river Inny, from Cornwall. Below the junction of the Inny the course of the Tamer, hitherto tolerably straight, becomes more sinuous, especially where it skirts the base of Hingston Down. The bed of the river then widens, and it becomes an estuary, or tide-water. Near its mouth it receives the Tavy, from Dartmoor forest; and the Lynher or St. German's river from the downs between Launceston and Bodman's river from the downs between Launceston and Bod-min. The whole course of the Tamer is about 56 miles; viz. 24 from the source to the junction of the Attery, just below which it becomes navigable; about 21 from thence to the point to which the tide flows; and about 11 miles of tide-water, including Hamoaze, which is the harbour of Plymouth, or rather of Devonport. The length of its principal Cornish tributaries is as follows: the Werrington, about 17 miles; the Attery, about 10; the Inny, about 18; the Lynher, about 22; and the Tidi, a feeder of the Lyn-

her, 9 or 10 miles.

The Fawcy or Fowey rises on the cast side of Brown Willy, to the right of the high road from Launceston to Bodmin. It flows south-south-east for several miles, and then turning westward receives on the right the rivers St. Neot's and Warleggan, besides a number of brooks: it then turns south, and passing Lostwithiel, falls into the sea at the borough of Fowey. It is not navigable above the point to which the tide flows. Its whole length is about 30 miles; the tide flows about 5 miles up; formerly it flowed

The Alan or Camel (1. c. the Crooked River) rises about 3 miles north-north-east of Camelford, and flows south-bywest past Camelford, until it is joined by the river De Lank,

plant et laise une les ses between Festion Funt une Wosenruge de fin Lauren : une u une le les de la laire : une une de la France : le France : tille et al Moitt Liverium de Promonité : an indicate and it will be the state of the tree face toy up at reserves a consideration of transfer of the continues and should a filler should be fore the con-panies considerate. The bould of the letters because a said الملطقاءة كالماس كلنا يعم الماءا مولا أأدا وا

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Cornwall has four navigable canais. The Bule and Holoworthy canal, part of the course of which is in this county, runs eastward from Bude Haven, to near the channel of the Tamer; from which point the Bude and Launceston Canal branches off to the south-south-east to Launceston. The chief object of these canals is to facilitate the introduction of Welsh coal, and the carrying of shelly sand from the coast to the interior, to be used as manure. Laskeard and Love causi runs south from Laskeard to the a stuary of the river home, and is designed to facultate the transport of traitor, once manure, and the mineral products of the contract. A cause extends about 5 kines east airi west from near by Couling Mayor to Mangan Porth, on the total said Towns Buy of was interiors for the export of its tierals, and our ten by manufe to the adjoining lands, that was been compared, and sie continue is now partly 

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The next common transmir in the grande is the inif the milier, the thirt-since in goingbes. In appears name beim entraterities beiefenden Einesbie wir im if the Groungs of Lar meatine and Laurenia by Dr. Bergin. R the Gelo with Transmission will be a possible stage 6- .-There is define indeed becominging the elevalate, . .. hat to his great extent. On the name or made east all of the granule formation, the strate dip senta-end at in sache if such severity between its tax apparate sale of the grante farmant the Co is nearly more east. The anais traversed by vents or evens of purphymine mocks, termed by the numers Levon. These types we communical in the language of the miners are rarely hand in the granic. their general directals in the surface is cost and west rather, sortraing to Mr. Greentagh's Geological north-east and south-west, they tary from a few fair, inw kin and erea exply filtures a thekness; and m g 🕟 cases are continuous through a long tract of country. The metalie rems, both of the said copper, comment t through them, but are for the most part marrower when a the Eiras than when in the supermitmeent and subjust t rocks. Roofing sinte is quarried in this fermation (t. killas) near Tintagell Head. What is termed grande (t the newer formation, but which is not true granite, is it in a in Comwall resting on the chy-siste. A substance in prosiding to guess sometimes intervenes between the gramie and the day-state.

The metallic veins which contain copper or tim or b. i. run usually east and west and penetrate both the grain and clay-state; those which contain lead, silver, cobait, antimony, run north and south, with little exception, and are believed to be always in the clay-slate.

The Lizard Head and the neighbouring country are composed of serpentine: the relative geological position of the rock and the clay-late has not been ascertained. The feature is accompanied by other rocks, mice slate, dialling metaliside, and greenstone. Near the Lizard it inch. venus of soap stone, which, when first raised, is so soft to ... it may be kilcaled like dough, but becomes friable at : being exposed to the air; it is used in the manufacture por emin. The serpentine incloses and passes into asbestand small quantities of native copper have been found in .

Tuen beds of himestone are found in Cornwall, alternation with killas or clay-slate; it is of a blue colour, and contains 31

Copper and tin are the most important minerals of Cornwall. The extent of the metalliferous veins is unknown, as well as the depth to which they extend: no miner has yet seen the end or bottom of a vein. Their width varies much, from the thickness of a sheet of paper to thirty feet; but they are usually from one to three feet in thickness. The ores of copper or tin do not often occur together in the same vein at any great depth. If tin be discovered first, it sometimes disappears, after sinking 100 feet more, and is succeeded by copper; in others, tin is found to the depth of 1000 feet beneath the surface, almost without a trace of copper; if copper be first discovered, it is very rarely, if ever, succeeded by tin. It is seldom that either ore is found nearer to the surface than 80 or 100 feet. If a copper vein meets one of tin, it usually passes through it, and heaves it out of its course. The veins not metalliferous usually pass through the tin and copper veins, or lodes, as they are termed: these non-metalliferous veins have their course usually north and south.

The copper and tin mines, excepting some mines, chiefly of tin, near Callington, are south-west of the rivers Alan and Fowey. The chief mining district extends from St. Agnes on the north coast by Redruth to the neighbourhood of Helston and Marazion; and some mines are worked west of Marasion. St. Austell is in the centre of another but less extensive mining district near the south coast. (Transactions of Geological Society; Phillips's Selection of Facts as to the Geology of England and Wales; Greenough's Geological Map of England and Wales.) Some of the more remarkable natural curiosities of the county

will be noticed under a subsequent head.

The lead-mines of Cornwall are not numerous, though the ore has been discovered in many parts of the county. Some silver is obtained from the veins of lead, and from a copper mine called Huel Mexico, between St. Agnes and St. Michael. Iron ore is also obtained, and shipped to Walcs. Zinc, antimony, cobalt, and arsenic are procured, as well as some other of the semi-metals. Freestone of different

qualities is quarried.

Agriculture.—Cornwall, being situated between two seas, is more subject to variations of weather than most other counties; the mountains attracting the clouds, charged with moisture, which the prevalent west winds bring from the Atlantic. From this cause, the harvest is not in general so early as in the more inland counties, which are in a more northern latitude by two or three degrees. The soil of the mountainous districts is extremely barron and unproductive: but in a few of the vales a tolerably rich soil is found, well adapted to the growth of corn, roots, and artificial grasses. The substratum of the whole county being rocky, and slate being the predominating rock, the surface consists chiefly of an argillaceous earth produced by the decomposition of the slate, mixed with various por-tions of vegetable matter accumulated in the course of ages. This soil is not naturally stiff or retentive of moisture, but rather a loose and porous soil. Excess of wet will sometimes convert it into a soft mud, where the substratum is not sufficiently porous to allow the water to percolate freely; but generally the land is not of a cold wet nature, like the clays in the midland counties. The most fertile lands are found from Endellion to St. Columb, on the north coast, in the peninsula which terminates in the Lizard Point, the neighbourhood of Burian and St. Germain's, the lands near the Fawey, and a great part of the hundred of Stratton. The rest of the county is comparatively barren. As may be expected from the nature of the soil, there is no great extent of natural meadows, and the want of them is made up by laying down court of the arable land with artificial graces. This how part of the arable land with artificial grasses. This, how-ever, is not done in the perfect and profitable manner adopted in the northern part of Britain; but the second or third crop of corn has grass-seeds sown amongst it when the land is nearly exhausted and full of noxious weeds. The scanty pasture thus produced is neither profitable to the farmer, nor does it serve to restore much fertility to the soil. The system of paring and burning the surface is adopted after the land has been some time in pasture; and with the help of sea-sand, which contains a great portion of comminuted shells, sea-weed, lime, and occasional manuring with pilchards, the land is brought into a state in which it may bear two or three moderate crops of corn. This at least is the old Cornish and Devonshire system, and is still adhered to by many.

Amongst the varieties of grain raised in Cornwall, we may notice the naked barley, which is there called Pillez. It is sown in the western part of the county for the purpose of fattening pigs and poultry, and likewise for making gruel to fatten calves. It bears nearly the same price as wheat. If the word be of Cornish origin, as is asserted, meaning bald, it would indicate that this variety of barley, highly praised by the French agriculturists under the name of orge pillet, has been originally introduced into France from Cornwall. It is highly productive, and well worthy of being introduced into other parts of the

The soil and climate of Cornwall are peculiarly favour able to the growth of potatoes, of which two abundant crops are sometimes produced in one season, an early crop taken up in June, and a second in October. The early crop has been known to produce 100 sacks per acre, and the second or main crop twice that quantity. This of course was in a deep and highly-manured soil. In many leases the farmer is restricted from growing potatoes except for his own use, than which nothing can be more absurd, as it deprives the farmer of a means of paying a higher rent, and cultivating his farm to advantage. The only condition should be the purchasing lime and manure in proportion to the potatoes

raised and sold.

The principal cattle in Cornwall are of the Devonshire ced. The old Cornish breed, which was a small black mountain breed, is nearly extinct, as are likewise the small Cornish sheep: they have been superseded by better breeds. In no county are oxen more generally used for the plough than in Cornwall. Horses were formerly used only to carry loads on their backs. Good roads and the use of carts and waggons are comparatively new improvements, and by no means general. But there is a very simple and light wain peculiar to this county, which is deserving of notice. It has no sides like a waggon, but hoops over the wheel to keep the load from impeding their motion. It has some distant resemblance to the light waggons used in the mountainous part of Switzerland. The implements of husbandry are either of a rude construction or adopted from other districts. The Cornish plough is simple, and has a straight mould-board: where four or six one are put to a plough. the draught is not much considered. To prevent the breaking of the beam, in case stones are met with under the surface, the oxen are attached by a wooden pin, which breaks on any sudden check, acting as a kind of safety

Leases are generally for three lives, renewable on the death of one of the lives by paying a fine; a kind of tenure between a renter and a proprietor. A term of years is pre-ferable, as being more certain. Farms let at rack-rent are let for seven, fourteen, and twenty-one years, as in other counties.

The county is rather bare of trees. Forests probably once existed, but they have now disappeared. Young planta tions are much exposed to the sea winds, except where sheltered in valleys. Many proprietors, however, have planted on a large scale; and forest trees are beginning to rear their heads on many eminences, to the great improvement of the fire of the country. provement of the face of the country.

In the mining districts the land is naturally barren; but

many spots have become clothed with verdure, and are cultivated by the miners, to whom spots of barren soil have been let at a low rent, on condition of their building habitations

for themselves and families.

Improvements in agriculture are chiefly introduced by proprietors who occupy their own land. The common farmers, who are not men of capital nor enterprise, prefer following the routine of their forefathers. Large commons give a facility for keeping cattle without much expense, and this is seldom favourable to an industrious cultivation of arable land.

The county is however advancing slowly but steadily to-

wards an improved system of cultivation.

wards an improved system of cultivation.

The following are the principal fairs held in Cornwall:—
Bodmin, January 25; Saturday after Midlent Sunday;
Saturday before Palm Sunday; Tuesday and Wednesday
before Whit Sunday; Dec. 6. Bolingey, March 16. Boynton, Aug. 18. Boscastle, Aug. 5; Nov. 22. Camborne,
Fcb. 24; March 7; Whit Tuesday, June 29; Nov. 11. Camelford, Friday after March 10; May 26; July 17; Wednesday after Michaelmas-day. East Looe, Feb. 13; July
10; Sept. 4; Oct. 6. Falmouth, Aug. 7; Oct. 10. Five

Lance, Monday week after Jan. 24; last Thursday in October. Powey, Shrove Tuesday; May 1; Sept. 10. Grampound, Jan. 18; June 11. Goldwithney, Aug. 5. Gweek, nearest Monday to Feb. 20; June 1; nearest Wednesday to Aug. 7; Sept. 22; Cet. 2. Helstone, Saturday before Midlent Sunday; Saturday before Palm Sunday; Whit Monday; July 20; Sept. 9; Oct. 28; Second and Third Saturday before Christmas Eve. Kellington, May 4; Sept. 19; Nov. 12. Kilhampton, Holy Thursday; Three weeks after Aug. 26. Lannesston, First Thursday in March; Third Thursday in April; Whit Monday; Old Michaelmas-day; Nov. 17: Dec. 6. Liskeard, Shrove Monday; Monday before Palm Sunday; Holy Thursday; Aug. 15; Oct. 2. Lostwithed, July 10; Sept. 4; Nov. 13. Marazion, Sept. 29. Meaheniot, April 23; June 11; July 28; First Friday in December. Padstow, April 18; Sept. 21. Penryn, Wednesday after March 6; May 12; July 7; Dec. 21. Penrance, March 25; Thurday after Trinity Sunday; Sept. 8; Thursday before Advent Sunday. Redruth, Easter Tuesday: May 2; Oct. 12: Nov. 3. St. Austell, Maundy Thursday: May 2; Oct. 12: Nov. 3. St. Austell, Maundy Thursday: My 2: Oct. 12: Nov. 3. St. Austell, Maundy Thursday: Mint Thursday; First Friday after July 23, and Oct. 16; N.v. 30. Saliash, Feb. 2; July 25. St. Blazey, Feb. 2. Sc. Calimo, Thursday after Midlent Sunday; June 9; Thursday after Nov. 12. St. German's, May 29, Aug. 1. Sc. Ivea, Saturday before Advent. Stratton, May 18, Nov. 8: Dec. 11. Sammercourt, Holy Thursday: July 25; Sept. 25. Sc. Laarence, Aug. 21: Oct. 29. Tregony, May 3; July 25; N.v. 6. Tregonatha, May 6: Aug. 6. Truro, Wednesday: Mit. 21: Jine 22: Oct. 10. Week, St. Mary, July 29; Sept. 25. Westnesday before Christmas-day. West Looe, Mar. 5.

is morns. Turns, de. - Cornwall was formerly divided ita even mindrets-Conarion, Fawirin, Pawton, Rialton, Thesta or Thesterna, and Winneton or Win-1936 a. There are now nine hundreds: Stratton hundred val List nandred, on the east along the bank of the Timer Lonewh and West hundreds, to the west of --- Truz numbers to the west of Lesnewth; Pyder and witer its stress west if Truz and West hundreds; and have the unit Kerrier at the western end of the county. In is a site symmetration, when two handreds are mentioned erre er, the most northerist a named first. According to " A flow to a nor many to torover the limits of the antient to seems or to personnelle them with the present. He cons hat Conaron ne ided the modern Penwith, and and the nation the modern Stratton, Lesnewth and " " " nedern Preder: Winnenton the modern Ker-First in the modern East and part of West; Paw-. -n 12 mer

sum or if parabes according to Camden is 161; where gives the mentioned by Carew, 180; the last is made of mines are 215, including the parish of Maker, and also the parish of St. According to the parish of St. According to the parish of St. Erney and Landrake, which in the parish of St. Erney and Landrake, which in the parish of the pa

The second secon

parish comprehends an important mining district, and had a population of 6642, in 1831. There is a harbour at Trevenaunce, in this parish, which has been much improved of late years; the pilchard fishery has been established here since the beginning of the present century. St. Agnes was anciently called Breanick or Bryanick.

St. Agnes is a parochial chapelry, united with the vic.r age of St. Perran-in-Zabulo or Piranzabuloe. The two are stated to produce 419% net yearly revenue, and are in the gift of the dean and chapter of Exeter, in whose peculiar jurisdiction they are. In a dingle called Chapel Combewas an antient chapel called Porth Chapel, the ruins of which were taken down 1780; there are the remains of an antient chapel at Malow or Morlah, in the parish of St. Agnes. There are a free-school, a sunday-school, and three dissenting places of worship. Opie, the painter, was born at St. Agnes.

St. Agnes Beacon is on a pyramidal hill near the town, 621 feet above the level of the sea; it is formed out of an antient cairn or tumulus, and was used as a beacon during the alarm of invasion in the beginning of the present century.

Boseastle, (which name is a corruption of Bottreux castle,) is in the hundred of Lesnewth, and on the northwest coast, not far to the north-east of Tintagell Head. It a poor little place, but in a very romantic situation. The castle from which it takes its name, is no longer standing. It has a weekly market.

This little town is partly in the parish of Forrabury, a rectory (net annual value 70l. with a glebe house), and partly in that of Minster, a rectory (net annual value 224l.), both in the diocese of Exeter and archdeaconty of Cornwall, and in the gift of T. J. Phillips, Esq. The joint population of the two parishes does not exceed 855. There is a pier at Boscastle, to which vessels come with coals. Near the market-place are the remains of an antient church or chapel, dedicated to St. James, also some remains near the church of Minster, (which is remote from the town) of a former cell of Black or Benedictine monks dependent upon an abbey at Angers in France.

Callington is in the hundred of East, and on the real from London by Tavistock to Liskeard, Lostwithiel, Sa Austell, and Truro; 216 miles from London, and above 40 from Truro. The situation of the town is low and unpleasant, at the foot of Hingston Down, and not far from the Lynher, a feeder of the Tamer; and the building with the exception of the church, are mean and unimportant; the houses are chiefly arranged in one broad street. The church, or rather chapel, was almost wholly rebund about the middle of the fourteenth century, by Nich and de Asheton or Assheton, serjeant-at-law. Some cloth is manufactured here. There is a market on Wednesdays for corn and provisions. Some mines are worked in the neighbourhood. There are two dissenting places of worship. The population in 1831 was 1388.

Callington is a perpetual curacy, held with the rectury of Southill; their joint net annual value is 748% with a giete house; they are in the diocese of Exeter and archdescents of Cornwall, and in the gift of Lord Ashburton.

This was one of the boroughs disfranchised by the Reform Act. It was the last town in Cornwall admitted to the right of sending members, not having acquired that providing till 15-55.

Camborne is in Penwith hundred, and on the road in London by Redruth to St. Ives; 34 miles from Redrain and 265 from London. It is neatly built, in the mids: 4 the mining districts: the country around affords some extensive and delightful prospects. The church is a trespecimen of the granite churches of this country built is the perpendicular English style: there is a good soution the perpendicular English style: there is a good soution the perpendicular English style: there is a good soution the perpendicular English style: there is a good soution the perpendicular English style: there is a good soution the perpendicular English style: there is a good soution the perpendicular English style: there is a good soution the perpendicular English style: there is a good soution the perpendicular English style: there is a good soution the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style: there is a good soution to the perpendicular English style:

The living is a rectory (net annual value 79wl. with a glebe house), in the diocese of Exeter and the arrival country of Cornwall, and in the gift of Lord De Dunstan.

Camelford is in the hundred of Lesnewth, and on road leading from Launceston by Wadebridge to P.

229 miles from London, and 144 from Launceston. 1:

described as an ill-built town, in a situation as dismes.

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can well be imagined.' The streets, however, are broad and well paved; and there is a town-hall, which was built and well paved; and there is a town-hall, which was built about 30 years since by the Duke of Bedford. The river Camel, which rises about four miles to the N.N.E., flows through the town, and gives name to it. The parish church is at Lanteglos, more than a mile south-west of the town. There is an endowed school. The population of the parish, in 1831, was 1359. There is a market on Friday for corner to the parish of the and provisions. The town was made a free borough by Richard, earl of Cornwall, better known by his subsequently acquired title of King of the Romans, brother of Henry III. The present corporation was incorporated by a charter of 25 Charles II. From the time of Edward VI. the borough sent two members to the House of Commons, who were cleeted by the corporation and a few freemen. Camelford was disfranchised by the Reform Act.

The living of Lanteglos is a rectory, united with the neighbouring rectory of Advent; their joint annual value is 474l. with a glebe house: they are in the diocese of Exeter and the archdeaconry of Cornwall: the patronage is in the king as duke of Cornwall. There was formerly a chapel in the town of Camelford; it is now in ruins. The petty sessions for the hundred are held here. The neighbourhood of Camelford is supposed by some to have been the scene of the battle in which King Arthur fell; and of another fought in 823 between the Britons and the West

Saxons under Egbert.

St. Columb Major is in the hundred of Pyder, on a rivulet which flows into the sea between Trevose Head and Towan Head, and a little to the right of the main road from London by Launceston and Bodmin to Truro; 246 miles from London and about 11 from Bodmin. It is a small place, but pleasantly situated, being on the slope of sman place, but pleasantly situated, being on the slope of a hill which commands some interesting prospects. The buildings are antient, and the town for the most part ill paved. There is a spacious cross church, the interior of which exhibits some curious specimens of early workmanship and numerous monuments: there was formerly a chantry attached to this church. There are meeting-houses for the Wesleyan and Calvinist Methodists. There were in antient times four free chapels in the parish, which is very extensive, comprehending 11,680 acres, or more than 18 square miles. The population in 1831 was 2790. There is a market on Thursday, and, in the summer, one also on Saturday. The living, a rectory, is of the yearly value of 1296*l*. with a glebe-house: it is in the diocese of Exeter and archdeaconry of Cornwall.

St. Daye is in the parish of Gwennap, in the hundred of Kerrier: it is between Truro and Redruth; 261 or 262 miles from London, and about 2 miles from Redruth. It appears to have been of more consequence in former times, but had fallen much into decay: of late years it has greatly recovered, owing to the increase of the mining population in the neighbourhood. There was formerly a chapel, of which there are now no traces: this chapel is said to have been much resorted to by pilgrims in former days, and from the resort of these pilgrims arose a market, which continued to be held without any charter: this market was however given The present market, which is held on Saturdays for

up. The present market, which is held on Saturdays for butchers' meat and other provisions, was established some years since for the benefit of the miners. The parish of Gwennap, which is rather large, contained in 1831 a population of 8539, principally consisting of miners.

The living of Gwennap is a vicarage (net annual value 4821, with a glebe-house) in the diocese of Exeter and archdeaconry of Cornwall, and in the gift of the dean and chapter of Exeter. There is near St. Daye a curious amnual theatre of rude construction, supposed to have been of phtheatre of rude construction, supposed to have been of British origin; it was selected by Wesley as a place for public preaching, and is still used by his followers at some

of their anniversaries.

Fowey, in the hundred of Pyder, is on the right or west bank of the river Fowey, near its mouth, 240 miles from London, through Tavistock, Callington, and Liskeard, or 2431 miles through Plymouth and East Looe. The scenery Polruan, on the opposite side of the river (which here expands into a good haven), rise to a considerable height,

the walls are six feet in thickness. The harbour is now defended by two modern batteries, and by a fort, called St. Catherine, which was built in the reign of Henry VIII. The town is built in a very straggling manner, the houses extend a considerable way along the haven, and the streets are so narrow and full of angles as to be almost impassable for carriages. Most of the buildings are of stone. The church is a spacious and lofty fabric of the perpendicular English style of architecture: it was rebuilt, or at least English style of architecture: it was rebuilt, or at least much altered about 1466. There was formerly in the town a chapel called St. Catherine's Chapel, which gave name to St. Catherine's Hill: it existed in Leland's time. There is a spacious market-house, with a town-hall over it, and a public walk overlooking the town and harbour.

The population of Fowey in 1831 was 1767. The chief

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business of the town consists in catching and curing pilchards: this fishery employs many vessels. Fowey is a corporate town; the corporation consists of a mayor, recorder, eight aldermen, and a town-clerk. Fowey sent members to parliament from the time of queen Elizabeth up to the passing of the Reform Act, by which it was disfranchised. The living is a vicarage, of the annual value of 1791, with a glebe-house, in the diocese of Exeter and archdeaconry of Cornwall. There is a market on Saturday. There are two free-schools, and an almshouse for eight poor widows. The harbour has excellent anchorage, and is always safe.

Fowey was antiently a place of greater importance than it is now. The townsmen acquired wealth by feats of war and by piracy in the wars of Edward I. and III., and Henry V., and their wealth enabled them to increase the commerce of the town to a great extent. Fowey furnished more ships to the fleet of Edward III. before Calais than any other port in England, and more mariners than any other port except Yarmouth. About the same time the Fowey men had a sharp battle with the Rye and Winchelsea men, because they (the Fowey men) would 'vale no bonet, being required: the Fowey men obtained the victory, and hence rose the name of 'the gallaunts of Fowey.' and hence rose the name of 'the gallaunts of rowey.' Inc.
French burnt the town in 1457. When peace was made between England and France in the time of Edward IV. the Fowey men still kept up hostilities, for which the king ordered their fleet to be confiscated. The possession of the town was repeatedly contested in the struggle between Charles I. and his parliament.

Grampound is in the parishes of Creed and Probus, in the hundred of Powder, 248 miles from London, by Tavistock, Liskeard, and St. Austell. The river Fal flows through the town, the greater part of which is to the east of that river, and consists of one main street on the declivity of a hill. The town did not contain in 1831 more than 113 houses, and 715 inhabitants. The parish church is at Creed, a mile from the town, but there is a small chapel of ease in the town, and a granite cross. The market is inconsiderable: it is held on Saturday. There is a corporation, consisting of a mayor, eight aldermen, a recorder, and town-clerk. Grampound sent members to parliament from the reign of Edward VI. until 1821, when it was disfranchised for bribery. The living of Creed (or St. Creed,) is a rectory of the net annual value of 3511, with a glebe house, in the diocese of Exeter and archdeaconry of Cornwall. Grampound has been supposed, but with little reason, to have

been a Roman station.

East Looe is in the purish of St. Martin, in the hundred of West: it is on the left or east bank of the river Looe, which here falls into the sea; 234 miles from London by Plymouth. It is built on a flat piece of ground between the river Looe and the sea, and is described as a labyrinth of short narrow dirty alleys, above which rises the low embattled tower of a little chapel of ease. On the land side rices a high steep hill, over which the road leads into the town. East Looe is united with West Looe on the opposite side of the river by a bridge of thirteen, or, according to other accounts, fifteen arches: this bridge is 141 yards long, but only 6 feet two inches wide: there was formerly upon it a chapel or oratory dedicated to St. Anne. The number of houses in 1831 was 167: the inhabitants were 865. They are chiefly engaged in the pilchard fishery. The harbour, formed by the mouth of the river, admits vesand are broken into rude cliffs and bold promontories. At the mouth of the haven are the ruins of two square stone forts or blockhouses, one on each side, built in the reign of Edward IV. to protect the entrance. They were provided with port-holes for cannon, and had apparently four floors:

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ground at its foot, is about a mile in circumference... comprehends 70 acres of surface. The Mount is 2 in height from the level of the sea to the platform of the level of the sea to the platform of the platform of

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ous in 1931 was 234: the nu Rempter of pas ants was 1127 in the becough, or 1292 in the whole parish. The parish church of Cuby is in the unper part of the norm. The market is an Sararday. The corporation of Troping consists of a mayor, recorder, and seven or eight eapital largesses. The brough is said to have sent meas-bers to parliament in the time of Edward I.; but if this, when s i abtial be admired a mos es that the franchise issued til the reign of Queen Elimbeth. From that ame 'wo were returned until the borrough was distranchised by the Reform Act. Tregony is runsidered to have been a Homen station, Contum of Voluba. There was a rastle of the Primarove at Treatmy, of which there are now no removes.

The array of Chark is a resurage, instead with the vicatinge of Engouse, the nursh of which behinded to St James, was in all Engraps, and was partly standing in the last century their continuous sign in the gift of J A. German Real in the moress of Exemp and architectury

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sher of inhabit- was nominally in all homeholders within the borrough the whole parish. (which however contains only a few houses), but was ver es within the borough tunily vested in the freez mounted, according to es, viso s Obdield's Representative History, Lond., 1816, to seven: the borough was disfranchised by the Reform Act. The hving is said, in the Clavical Guide (1836), to be a per-petual current, of the annual value of 1911, with a gicle house, in the gift of the dean and chapter of Windsor; in the ducese of Exeter and the archdenously of Totnes; but according to Messes. Lysins (Magna Britannia), it is in the nearly princed according to the second and the house of the second and the s

the peculiar jurisdiction of the bushop of Exeter.

West Love is separated from East Love by the river Love It contained in 1831, 126 houses, and 503 inhabitants. It is in the purish of Tailand, which includes also a part of the market-nown of Polperro. There is a narrow bridge over the Love, uniting the two boroughs of East Love and West Love. There was flemerly a chapel at West Love dedicated to S: arket-town of Polperro. There is a narrow bri Nichalas, but it is now converted man a guildfull. The maket which was on Wednesday, has been long discontinued. This pinco was incorporated by Queen Elizabeth: the consucration consists of tweive burgeness, including the major. This berough sent members to purhament from the time of Edward VI. the election was in the corporation.

Love was distributed sed by the Referm Act.

So Michael's, stherwise Michell, how the main road it is Boinum to Pensance and the Land's End, 245 males from Limited to Southly in the summ of Sc. Engler, and part in that of Newson with in the hundred of Pytler. To nince beserves to tree only as he mg one of the boroughs on-Transmised is the Return Art. It returned two mentions from the time of Edward VI. The right of electrons decired in 1740 to be in the lards of the money capalic it yould become one bichers a me intraces of the and in the ninarrans paying seet and M. The latter, a the time of Browne Williams were in animher twenty-sex. See Christopher Hawkins having purchased the borrow pulled from the comages as fast as they became can; (), at so reduced the ranches of videos to four, exclusive it are is of the manue. The persuation of St. Roeder was a 185 cilitar than of Newvik 12.8.

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terr arma tir erriariaarini rad instal gargame.—C re-WILL WIS EXTRUCT & ELECTIVE 14 Their, and remove that it more been entermined as it the nince where the are wafirst established according to Campen. Turner, and Golds The entire of Cambra , the see was fixed at Boolman first and addresseds removed to St. German's; while Mr. Whieen, who is in lower by Moses. Linear contends that it was murmaly fixed at 9k German & and continued they are it was about with the see of Ireland. Out of the arous new the see of Expost, it has become of where C to wal a new mornded. The limits of the crossing a rick with those of the armogeneous of Consend : but thin is the character bosonical to News Trans. In course to a the a character current and. The armineness of the armineness of the armineness of the transfer and the transfer of the transf work Losens Roman Trans Howard and Peter The arthogeness something a true arrowing and a sum. The arthogeness is supervised into ment runs desired.

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Message Library give the number of surveyers as \$6.5 ft. and then have have in the housement greetings of an NO ENTRY THE OF THE PROPERTY OF A CONTROL OF THE PARTY OF The Engineers and Modern than commensus was because the Engineers are Trained and the Monta. Let the see the Sent They by an amin't got and ! ... The working a formula that he are the formula for the following and the following the formula for the following the following the formula for the following following the following following the following the following following following the following following

This county is however under a peculiar jurisdiction, which requires notice here,—that of the duke of Cornwall. The duchy of Cornwall was created in 1337 in favour of Edward the Black Prince, and settled by act of parliament on the eldest son of the king of England. The Duke enjoyed large revenues, arising from the lordship of castles, boroughs, and manors, granted to him in Cornwall and Devonshire; the profits arising from the coinage of tin, and various other sources. The annual revenue on the average of the three years subsequent to the death of the Black. Prince was 2493l. 7s. 3½d.; the clear revenue in the 15th year of Henry VIII. amounted to 10,095l. 11s. 9½d.; in the 44th year of Queen Elizabeth, in 1602, it had fallen to 45691. 12s. 2id.; and at the publication of Messrs. Lysons' Magna Britannia (1814), the gross amount was estimated at 22.000l., of which 8500l. arose from the tin-duty in the county of Cornwall, and 35001. from the rents of manors, fines, &c. in the same county: the sources from which the remainder was derived are not mentioned. The tin-duty before the war of 1793 had been 14,000%, per annum. The immediate government of the county was vested in the Duke, who has still his Chancellor, Attorney-general, and Solicitor-general, and his court of exchequer. He also appoints the sheriffs. The mining trade is under the separate jurisdic-tion of the Stannary Courts; the Lord Warden of the Stannaries, and the Vice-warden, are at the head of this jurisdiction, with a final appeal to the duke and his council. The miners claim to be free from all jurisdiction but that of the Stannary Courts, except in cases affecting land, life, or limb. The Vice-Warden's Court is held once a month, and is a court of equity for all matters relating to the tin mines and trade; no writ of error lies to the courts at Westminster, but there is an appeal to the Warden, and from him to the Duke in council, or, when the duchy is vacant, to the King in council. Issues are frequently directed by the Vice-warden to be tried in the Stannary Courts, which are held at the end of every three weeks before the Steward of each of the four 'Stannaries' or mining districts: in these courts all civil actions, in which either plaintiff or defendant is a privileged tinner, are tried before the Steward and a jury: from these courts an appeal lies to the Vice-warden, and from him as in other cases. The four Stannary districts are Foy More, Blackmore, Tywarnhaile, and Penwith and Kerrier. The Stannary laws are revised, or new ones enacted, by the Duke and his council, with the consent of what is called the Stannary Parliament, consisting of twentyfour Stannators, gentlemen of property in the mining districts, chosen six for each stannary. Those for Foy More are chosen by the mayor and corporation of Lostwithiel, those for Tywarnhale by the mayor and corporation of Truro; and those for Penwith and Kerrier by the mayor and corporation of Helston. The last Stannary Parliament was held at Truro in 1752, and continued by adjournments to September, 1753. The Stannary laws have been repeatedly published. The Stannary prison was at Lost-withiel, but by the recent Act (which we shall presently mention) it is now at Bodmin. The antient records of the Stannaries were kept at Lostwithiel till they were burnt in the great civil war of Charles I., in 1644, by the parliamentary army.

An act was passed in the 6th and 7th Wm. IV., cap. 106, entitled 'An Act for the better and more expeditious Administration of Justice in the Stannaries of Cornwall, and for enlarging the Jurisdiction and improving the Practice and Proceedings in the Courts of the Stannaries.' By section 4 of this act, the equitable jurisdiction of the Vice-Warden is extended to all matters connected with the working of lead, copper, or other metal or metallic minerals within the county of Cornwall. By section 6, the Stannary Courts are consolidated, and are to be held before the Vice-Warden, who is to have the same authority that the stewards had. By section 14, the Vice-Warden is authorized to make rules and orders for the regulation of the practice and proceedings of his court; such rules as relate to the Equity side of his jurisdiction to be confirmed by the Lord Chancellor, and such as relate to the Common Law side by one of the judges of the superior courts of Common Law at Westminstor. The Vice-Warden's Court (section 21) is made a Court of Record, and is held at Truro. For other details, see the Act.

Previous to the Reform Act Cornwall had the largest share in the parliamentary representation of all the English counties: up to 1821 it had sent forty-four members, viz.

two for the county, and two each for twenty-one boroughs, none of them of any great importance, and some of them utterly insignificant. The county was represented in parliament at the time of the first summons of Edward I., and in the latter part of that monarch's reign it returned two knights of the shire, and representatives for the six boroughs of Launceston, Bodmin, Lostwithiel, Helston, Truro, and Liskeard: to these were added, in the reign of Edward VI., Saltash, Camelford, West Looe, Grampound, Bossiney, St. Michael's, and Newport; in the reign of Mary, Penryn and St. Ives; and in that of Elizabeth, Tregony (though it has been asserted that this borough sent members in the time of Edward I.), St. German's, St. Mawes, East Looe, Fowey, and Callington. In 1821 Grampound was disfranchised. By the Reform Act the county was formed into two divisions, each returning two members: St. Michael's, Bossiney, St. Mawes, East and West Looe, St. German's, Newport, Camelford, Tregony, Saltash, Callington, Fowey, and Lostwithiel were disfranchised; and the members for Liskeard, Launceston, St. Ives, and Helston reduced to one each; making the number of members sent by the county only fourteen. The chief place of election for the eastern division of the county is at Bodmin, and the polling stations are Bodmin, Launceston, Liskeard, Stratton, and St. Austell. The chief place of election for the western division is Truro, and the polling stations are Truro, Penzance, Helston, and Redruth. The town of Falmouth was, by the Boundary Act, included in the borough of Penryn: the boundaries of other boroughs were enlarged, but no other addition was made that requires notice here.

Natural Curiosities.—The granite rocks of Cornwall present in different places an appearance so singular, that they have been mistaken for the efforts of human art in its earliest and rudest stage. The Cheese Wring or Wring Cheese occupies the highest ridge of a hill north of Liskeard one of the hills which gradually decline from Brown Willy and Rough Tor, the highest parts of the county. The summits of all these hills are covered with granite cairns in different states of ruin, and their sides are strewed with bowlders which have fallen from them. Cheese Wring is a cairn or heap consisting of five stones piled one on the other, of which the upper ones are so much the largest as to overhang on all sides the lower ones, which form their base. The collective height of the whole pile is about fifteen feet, according to Dr. M'Culloch, whose account (Geological Transactions, vol. ii. pp. 66-78) we follow; but Dr. Borlase states it at thirty-two feet. The formation of this group is prescribed by Dr. M'Culloch, solely to netural gauge. It is ascribed by Dr. M'Culloch solely to natural causes. It is, in fact, the remain of a much larger mass, the lateral parts in ract, the remain of a much larger mass, the lateral parts of which have fallen away, not being so well poised as the singular part which yet remains. The granite of Cornwall is in general split by fissures, which tend for the most part to the horizontal or perpendicular; and by these fissures it is divided into cubical or prismatic masses. Where the rock rises above the surface, the influence of the atmosphere causes a gradual decay, by which first the angles formed by the fissures with the external face of the rock become rounded then the surfaces in contact become rounded. become rounded, then the surfaces in contact become separated, the masses originally angular acquire a curvilinear outline; and if the centre of gravity of the whole mass be high and far removed from the perpendicular of the fulhigh and far removed from the perpendicular of the crum, the upper parts of the mass fall down, and by the continuance of the disintegration acquire the spheroidal from which the granite bowlders often exhibit. If, however, the centre of gravity be in the perpendicular of the fulcrum, the mass retains its position, as in the case of Cheese Wring, or produces the phenomenon that will be next described.

The Logging (or, as it is sometimes written, Logan) Stones are stones which are poised on a fulcrum, and which rock, when moved by an adequate force. The most remarkable of these Logging Stones is near the Land's End, on a peninsula of granite jutting out 200 yards into the sea, the isthmus still exhibiting some remains of the antient fortification of Castle Treryn. The granite which forms this peninsula is split by perpendicular and horizontal fissures into a heap of cubical or prismatic masses. The whole mass varies in height from 50 to 80 or 100 feet; it presents en almost every side a perpendicular face to the sea, and is divided into four summits, on one of which, near the centre of the promontory, the stone in question lies. The general figure of the stone is irregular; its lower surface is not quite flat, but swells out into a slight protuberance, on

which the rick is poised. It rests on a surface so inclined, I downs between Wadebridge (near Padstow) and St. Column that it seems as it is small alteration in its position would are nine ride stone blocks or pillars placed in line, bearing cause it to also along the plane into the sea, for it is within two or three feet of the edge of the precipies. The stone is 17 lest in length, and above 32 in circumference near the mobile, and is estimated to weigh nearly 66 The vibration is only in one direction, and that moult at right angles to the length. A force of a very few penneds as sufficient to bring it into a state of vibration; even the wind blowing on its western surface, which is expected, produces the offeet in a sensible degree. The vibration continues a few seconds. There is another Logging Stone at St Just, and a third at Sitliney, which has been thown down; but this near the Land's End is the laccost.

On the horizontal surface of the granite the action of water has formed excavations with rounded bottoms, occasecually circular in their outline, and as regularly spheroidal as it shaped with a turning-lathe. They are of various depths, and sometimes communicate with each other. surface of 'the rock basin quoit' at Carn-brea is honey-combed by these hollows. In the parish of Constantine are two very singular monuments. One is a huge stone resembling an inverted cup or mortar, but not hollow, so regularly formed as to present the appearance of art. It is 30 feet in girth and 11 high, according to Dr. Borlase. The other monument is a vast stone perched on the points of two rocks, so that a man may creep under it; it is 33 feet long from north to south, which is its greatest dimension; the breadth from east to west is 151 feet, and the thickness or vertical dimension is 141 feet; the circumference is computed to be 97 feet, and the girth about 60 feet; it is estimated to weigh at least 750 tens. The top is honey-combed by rock basins similar to the rock basin quoit at Carn-brea. There are in Cornwall and the Scilly Isles other stones similarly supported; they are commonly designated by the name 'Tol-men,' i. e., hole

of stone. (Borlase, Antiquities of Cornwall.)

The cairns on Carn-brea Hill, near Redruth, and the Roche Rocks, a little to the left of the road from Bodmin to Truro, are of granite, and owe their picturesqua form

to natural causes

History and Antiquities .- Before and at the time of the Roman invasion, Cornwall was probably included in the territory of the two tribes, the Damnonii and the Carnabii. Polemy mentions only the former of these, whom he terms Δουμνόνιοι, Dumnonii; and they seem to have occupied the south-castern part, comprehending all the Channel coast. The Carnabii are not, we believe, noticed by any writer except Richard of Cirencester, who considers that they gave to the county the name which it had in the Latin of the Middle Ages, Cornubia. It is, however, more probable that the district gave name to the people, and that both Carnabii and Cornubia contain the Celtic root kern or corn, signifying a horn. The second part of the modern designation of Cornwall is derived from the Saxon Wealas, a name given to the Britons, some of whom, on the Saxon invasion, retired into the western part of the island, and maintained a long struggle for their national independence. Mr. Wu.taker considers that the Cimbri, a people mention da.-o by Richard extended into Cornwall; but this 

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are none ride stone blocks in pilars placed in line, bearing north, early and so its west, and called the Nine Marids. north east and so the west and called the Nine Richles. The currency of somes are nonerous in this county, and are generous known by the name of Dawis Men, i. e., the stone done. Boske man cucle, in the parish of Guly ill and Boscar mell. It. St. Buryan, are formed of stones placed at some d. tauce from each other, and, for the most part, according to the plates given by Dr. Borlase, yet erect. Borcaven un has a stone in the centre fixed in the ground. and learning so far, that unless fixed at the base, it would surely fail. Other circles are formed by stones not erest. but placed near each other, so as to form a kind of ferrec; auch are Zenor Circle, between St. Ives and Cape Cernwall, and Kerris Roundago, near Penzance, an oval inclusure, with four stone pillars at one end, marking out a quadrangular space. All these are in the western part of the county. Near Liskeard are three circles, very near each other, formed by crect stones placed at some distance; several of the stones have been carried away, and others overthrown. Popular superstition has attached to this monument a legend that the blocks were once men tra...formed into stones as a punishment for engaging in the sport of hurling on the Lord's Day: hence the name given to this monument of 'The Hurlers.' A similar legend is attached to a manament in the parish of St. Buryan, where nineteen maidens are said to have been turned into stemfor dancing on the Lord's Day. At Botallack, in St. Just parish, near Cape Cornwall, are several stone circles in ersecting each other; and on the hill Carn-Menclez in the parish of Wendron, between Redruth and Helston, is a stone circle, having in the middle of it a natural rock of four masses piled on each other after the manner of the Cheese Wring. Other stone circles are found at Treiting in Gulvail parish, near Penzance; at Crellas, in Sancret. parish, between Penzance and the Land's End; and in ; of the Scilly Islands, St. Mary and Tresco. There are and in Cornwall several circles, which Dr. Borlaso suppose- to have been devoted to the purposes of an amphitheatre. The are called 'plân an guare,' the plain of sport or pastum. The amphitheatre of St. Just, near Cape Cornwall, may be taken as a specimen of these circles; it consists of circle it stone seats rising regularly one above another, and encl . . 3 an area of 126 feet diameter. The seats or steps, sax in number, are of stone, 14 inches wide and 1 foot deep. ar-mounted by a rampart 7 feet wide, and rising 1 foot a sea the highest seat, with a ditch outside 10 feet deep from the top of the rampart. In the other amphitheatres the sare usually of turf, as at Piran Round, or Perran R. sabetween St. Columb Major and St. Agnes. If we may infer anything from the more regular construction of time circles, we should assign to them a much later date the the period of which we are now speaking.

Various other antiquities may be noticed here as haprobably had a British origin, though of uncertain . There are several barrows, or sepulchral mounds, or  $r_{\rm eff} \approx$  some of loose stones, others of earth, and others of some and earth mingled. Some of these, on being opened. been found to contain sepulchraitums; others in the S Isles, have an outer ring or edge of large stenes, and w a cavity formed by stone walls, with flat stones and wall and the cavity covered with the mound of knees stones of earth. There are also several crombolis, the top stones which are in Cornwan called 'quotis'. The quote of Land Crombolis is feet ong and 47 test in our uniform the knees varies, being and 47 test in our uniform the knees varies, being and 47 test in our uniform the knees varies, being and 47 test in our uniform the knees varies, being and as the parts as much as former is raisely ough that a man can said horsely. It has a unique and some should be some a feet of the can

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Among the smaller roles of tribuly by he mer in the separatrial artists of a serial sount of late for the separatrial artists of a serial sount of late for the separatrial artists of a serial sount of late for the late of the serial sound in the serial serial serial artists of the late of the serial serial serial serial and the late of the serial se syonds, here son time on series have designed for the and a core eraba comber of governous to the first And a core or consider efficient of great the solution of the Karnebre of Carnebre, here it distributes on an interest consideration of the following the first of Greek's the are considered in the following testing the French Messes Lasgre would be of the first testing of solutions. proposed by the residence and of Greek of the are constituted to the Transaction of Greek of the are constituted to the Transaction of Greek of the are constituted to the Transaction of Greek of the are constituted to the Transaction of Greek of the are constituted to the Transaction of Section of the Transaction of the Transaction of the Transaction of the Transaction of The Area of the Transaction of the Tr

for instruments of copper and pieces of earthenware are recorded by Strabo among the Phœnician importations. There are also in Cornwall several artificial caves or sub-

terranean galleries, formed by walls of upright stones, with other stones laid across; some of the galleries extend 30, or even 60 feet in length. The upright stones, or obelisks, with inscriptions in the Roman character, and in the Latin tongue, must be referred to a period subsequent to the Roman invasion; and from their inscriptions or symbols, several must have been posterior to the introduction of the Christian religion. Other miscellaneous antiquities of

British-origin we must pass over.

The period at which Cornwall fell under the power of the The period at which Cornwall fell under the power of the Romans is not known. Dr. Borlase ascribes the conquest to Agricola; Dr. Stillingfleet to Vespasian. As however none of the Roman historians who have recorded the affairs of Britain noticed the conquest of Cornwall, or of the tribes inhabiting it, it is probable that it was not signalized by any great exploits. Some of the older antiquaries denied that Cornwall ever came under the Roman dominion; but, apart from the improbability of the rich mines of this county. from the improbability of the rich mines of this county escaping the notice, or being defended from the power of that people, the quantity of Roman coins and other Roman remains found in Cornwall, shows that Cornwall shared in

the general subjection of South Britain.

The general subjection of South Britain.

The geography of Cornwall during the Roman period is very obscure. Ptolemy notices the headlands of Antivestæum, or Bolerium (Αντιονέσταιον, or Βολέριον), supposed to be the Land's End; and Ocrinum, or Damnonium (Οκρινον, or Δαμνόνιον), supposed to be the Lizard: and Richard of Cirencester adds the Κριον μέπωπον, or Rame Head. Prolemy mentions the sestuaries of the river Tamarus (Tápapos) which the name enables us to identify with the Tamer, most remarkable æstuary west of the Tamar. Of the towns of the Damnonii, mentioned by Ptolemy, Voluba, or Voliba ( $0vo\lambda i\beta a$ ), has been fixed at Tregony, or Grampound, or perhaps at Wolvedon, where is a camp, probably Roman, on the Fal (the name of which has been supposed to be income. the Fal, (the name of which has been supposed to be incor-corporated in the word Vol-uba), and at Lostwithiel, or elsewhere on the Fowey. Uxela (Οὐξελα), which some have fixed at Lostwithiel, is more generally regarded now as having been in Somersetshire. Tamare (Ταμαρή) fixed by Horsley at Saltash, is by others removed into Devonshire, to Tamerton. To these towns, all mentioned by Ptolemy, we may add on the authority of Richard, Cenia, whose name seems to connect it with the Fal, the Κενίων of Richard, by the same but which is connected for the same to connect it with the Fal, the Κενίων of Richard, but which is connected for the same to connect it with the Fal, the Κενίων of Richard the same that we have the same to connect it with the Fal, the Kενίων of Richard the same than the same tha Ptolemy, but which is nevertheless fixed by some at Condurra, on the river Hel, or Helford, where are the remains of a Roman camp; Musidum, or Musidunum, which is fixed near Stratton; and Halangium, supposed to be Karabré. Two if not three Roman roads enter Cornwall from Devonshire. One was the continuation of the great road which ran westward from Isca Dumniorum, or Exeter, and it is said may be traced on the downs west of Lis-Reard; it is conjectured to have proceeded westward by Lostwithiel, St. Austell, and Grampound (or Tregony), to Bossens (where is a Roman camp), near the river Heyl, which falls into St. Ives' Bay, and from thence to Marazion, or rather to St. Michael's Mount, the presumed Ictis ('Ikric) of Diodorus. The other road came from the north of Devon to Stratton, and is conjectured to have led towards Bude Haven, which was probably then a large and more important harbour. The existence of a third Roman road is doubtful. A road, probably British, the direction of which is marked by the occurrence of barrows, runs from the Land's End, near Redruth, Michel or St. Michael's and St. Columb, towards Stratton. Besides the places above mentioned, Launceston has been supposed to be a Roman station. Cornwall was included in Britannia Prima.

Upon the departure of the Romans, Cornwall recovered

its independence, which it maintained for a long time against the invading Saxons. The famous Arthur, whose history has been so distorted by fable as to cast a doubt over his existence, is generally reputed to have been a native of this

to a district there the hame of the country which they had left. [Cornovailles.] The Cornish Britons and those of Wales appeared to have recognised one supreme authority until about the middle of the seventh century, when Cadwaladyr, the last British sovereign, abdicated his throne, and went to Rome, where he died. Upon his death, A. D. 680, Ivor, son of Alain, king of Bretagle, was sent by his father with a powerful fleet to obtain the crown, and met at first with considerable success, defeating the West Saxons, and obtaining possession of Cornwall, Devonshire, and So mersetshire: he was however afterwards driven from the island by the West Saxon king Kentwin. In A.D. 710, Ina, king of Wessex, defeated the Cornish Britons, under their king Geraint. Ethelheard, successor of Ina, renewing hostilities, was defeated by Rodri Maelwynawc at Heilyn. In A.D. 743, Cuthred, king of Wessex, defeated the Britons, but from his having the assistance of the Mercians, we con sider it likely that it was the Britons of Wales, not Corn to a district there the name of the country which they had sider it likely that it was the Britons of Wales, not Corn wall (as Messrs. Lysons suppose), who were attacked by him. The Cornish Britons had however to sustain the hostility of Cynewulf, one of his successors.

In A. D. 800, Egbert ascended the throne of Wessex, and his first hostilities were directed against Devonshire and Cornwall: the Britons were defeated in 813, and he ravaged the country unchecked. In 823 a great but in-decisive hattle was fought at Gafulford (supposed to be Camelford), between the Cornish Britons and the Saxons, who had by this time acquired the partial if not the total possession of Devonshire. Twelve years afterwards, in 835, the Cornish men, assisted by the Danes, who were beginning to assail England, were defeated on Hengston-hill (Hingston Down), near Callington, by Egbert, who had now established the permanent supremacy of Wessex, and deprived the Britons of the relief which they had hitherto experienced from the dissensions of the Anglo-Saxon princes. Irritated by the aid which they had given the Danes, Egbert prohibited the Britons from setting foot within the Saxon territories on pain of death. During the reign of the successors of Egbert, we hear little of Cornwall until we come to the time of Athelstan, by whom the whole country, including the Scilly Isles, was reduced and incorporated with the now consolidated kingdom of England. From this time the provincial history of Cornwall offers little to interest the reader for many centuries. Some ravages of the Danes, and some intestine commotions, are the only memorable events. The attempt of Henry de la Pomeroy to seize St. Michael's Mount, in order to support the rebellion of Prince John against his brother, Richard I., has been already noticed.

Of the obscure and troubled period over which our historical notice extends, Cornwall retains many memorials in the camps and earth-works, which are more numerous in this country than in any other. These are, for the most part, nearly round or oval, a form which induces us to refer them to any other than a Roman origin. They possibly were formed during the severe and protracted struggles of the Cornish Britons with the Anglo-Saxons. In many places of the coast, a small promontory, or portion of the liff, is enclosed by a rampart, or vallum, running from one edge of the cliff to the other, and strengthened on the land side by a ditch. These, if situation be any clue to their origin, may be ascribed to the Danes. The space enclosed is considerable; in one case (in the parish of St. Gorran, near Mevagissey.) it amounts to 100 acres. Our space forbids a description of these works, and a mere catalogue

would be useless

The ruins of castles and of monastic establishments belong to a later period than the earth-works; but in these Cornwall is not remarkably rich. On the hills are the remains of rude circular buildings, called castles, the walls of which were formed of dry stones, not joined with any cement: these must be referred to an early period; Dr. Borlase considers them to be of Danish origin. In the narrow part of the county west of Mount's Bay and St. Ives' Bay, there are no less than seven of these castles, of Cxistence, is generally reputed to have been a native of this county.

The continued and resistless pressure of the Saxons having driven westward those Britons who refused to bear the yoke of the invaders, Cornwall and Devonshire became the place of refuge to many. It was probably about this time that part of the superabundant population thus compressed into the extremity of the island, took refuge in Bretagne, alpready colonized by their countrymen [Bretagne, alpready colonized by their cou feet thick. The entrance, made intricate for the purpose of defence, is enclosed by walls running from the outer wall, on one side of the entrance quite to the inner wall, and on the other to within three feet of it: two other walls running from the outer to the inner wall serve, with the entrance, to divide the ditch into three parts. Round the outer wall is a ditch, the width of which is not given. The space enclosed by the inner wall is 125 feet from east to west, and 110 from north to south; it is divided into several compartents ranged round the inside of the wall: there is a well in the enclosure

Of castles intended for residence as well as defence, may be mentioned Karn-brê, or Carn-brea Castle, on Carn-brea hill, near the Land's End. This is very small, scarcely 60 feet long by 10 wide, built upon a ledge of rock, whose uneven surface has caused great diversity in the level of the rooms upon the ground floor. The building had three stories in some parts, in others but one. Part of the building is very antient and of rude architecture, and the less antient part is thought to have been built on older foundations. Carn-brea hill abounds with antiquities: there is an antient camp of irregular form, some cairns, and other antiquities of rough stone. Tintagell Castle has been already noticed. [Bossingy.] For Launceston Castle, see LAUNCESTON.

Trematon Castle is on an eminence over the river Lynher, in the parish of St. Stephens, and not far from Saltash. It ase court surrounded by an embattled wall of irregular form, following the shape of the hill on which it stands, and pierced with loop-holes. The keep is on an artificial mound, at the north-east corner of the base-court, about 30 feet high: the walls of the keep are 30 feet high, and 10 thick: it is nearly oval, and its inner dimensions are 66 feet by 52. It has no windows in the outer wall. In the time of William Rufus this castle was held by the Valletort family. In the Cornish rebellion in 1549 (reign of Edward VI.), Trematon Castle was defended for a while against the rebels by Sir Richard Grenville.

Of Restormel Castle, in the parish of Lanlivery, near Lost-

withiel, the only part now remaining is the keep, a building of large dimens ns: it is on a steep mound, formed out of a rocky hill, and has a deep ditch. The enclosure of the keep is an exact circle of 110 feet diameter within; it has walls 10 feet thick at the top: from the present floor of the ground-rooms to the top of the parapet, is 34½ feet. Restormel Castle was a seat of the family of the Cardinans; rt afterwards came into the possession of the earls of Corn-wall: it is still attached to the duchy.

The castles of Fowey and St. Mawes have been noticed above. For Pendennis Castle, see FALMOUTH.

There are few remains of monastic buildings in Cornwall. The church of St. German's priory has been already described: the monastic remains on St. Michael's Mount have been also noticed. Of the monastery of St. Benet, near Lanivet, there are considerable remains, now occupied as a dwelling-house. The tower of the church is also standing. There is no certain account of this religious house, which is said to have been a Benedictine nunnery, subordinate to some foreign monastery. The chapel of St. Lawrence's Hospital, near Bodmin, remains. Morwinstow Church, in the northern extremity of the county, and Kilhampton or Kilkhampton Church, near Stration, are very antient, being wholly or chiefly of Norman architecture. Sheviock Church, near St. German's, has some portions of early English, and other portions of decorated English architecture.

In the war of the Roses, the Cornish men seem to have taken the Lancasterian side, induced mainly by the influence of Sir Hugh Courtenay of Boconnoc, and Sir John Arundell of Lanherne: they were present in the field at Tewkesbury; and it was in their country (at St. Michael's Mount) that the Earl of Oxford, one of the Lancasterian leaders, sought to make a stand after that fatal day. In the reign of Henry VII. (1495), they rose in rebellion on occasion of a tax levied to defray the expense of a war with Scotland. Thomas Flammock or Flamank, a man of respectable family, and a lawyer; Michael Joseph, a smith of spectable family, and a mayer, manimum output, Bodmin, and Lord Audley, were the leaders of this revolt: the common men were armed with bows and bills. The insurgents advanced towards the metropolis, but were entirely defeated on Blackheath, and their leaders executed.

in 1549, a new revolt broke out, connected with the religious revolution of that period. The Cornish men took up arms to sustain the antient (Catholic) church, and besieged Exeter; but were forced to raise the siege, and at last though not without difficulty, were subdued. The change of the religious institutions of the county led to the change of the common language of Cornwall; the people, for the most part of British descent, with comparatively few Saxons settled among them, had retained a language of their own, a dialect of the Celtic. The introduction of the English church service paved the way for its gradual decline. When Carew published his survey of Cornwall in 1602, it was going fast into disuse: 'the English speech,' says he, 'doth still encroach upon it, and hath driven the same into the uttermost skirts of the shire. Most of the inhabitants can speak no word of Cornish, but very few are ignorant of the English, and yet some so affect their own, as to a stranger they will not speak it; for if, meeting them by chance, you inquire the way or any such matter, your answer shall be "Mee a navidra conza Sauzneck," "I can speak no Saxonage." In the reign of Charles I., some aged people near Penryn were quite ignorant of the English language. In the early part of the last century, the Cornish was still spoken. by the fishermen and market women, near the extreme southern point of the county. At present this anticut tongue is the study of the scholar and antiquary alone. A few MSS. in it are extant; the most remarkable of which are some interludes, partly written in the fifteenth century.

In 1595 Penzance and one or two places near it were

burnt by the Spaniards.

In the great civil war of Charles I. and his parliament the Cornish men seem to have been on the whole in favour of the king. At the beginning of the contest indeed, the Parliamentarians, under the leadership of Sir Alexande Carew of Anthony, and Sir Richard Buller of Morval. cured the eastern part of the county, and garrisoned Lau. ceston and Saltash. Sir Nicholas Slanning, a zeale Royalist, held Pendennis Castle for the king; and the Royalists rising under the command of Sir Ralph Hope and others, drove the parliament forces from Launceston. and Saltash, and obtained entire possession of the county these events were in 1642. In the winter of that year, in parliamentary forces under Ruthen, governor of Plymouth attempted to regain it, but were defeated on 19th January. 1643, on Broad Oak or Bradock Down, near Liskeard. Suitash, which Ruthen had hastily fortified, was taken by storm, Ruthen escaping to Plymouth; and on May 15:1 the Parliamentarians, under the Earl of Stamford, were entirely defeated at Stratton. The Cornish men afterwards distinguished themselves on the Royalist side at the battle of Lansdowne and the siege of Bristol in the same year and the king in reward of their loyalty wrote them a letter ' thanks, which he ordered to be printed and published, and a copy to be read in every church and chapel in the count In July, 1644, the Earl of Essex marched into Cornwall the head of the parliamentary forces, and took possession: Launceston, Saltash, Bodmin, Lostwithiel, and Fowey: b being followed by the royal army, under the king in person was forced to retreat to Fowey with his infantry, his cavalry having previously got clear off. From Fowey Lord Essay escaped with some other persons to Plymouth; but his ... fantry, 6000 in number, under Major-General Skipp were forced to capitulate 2nd September. In October, Saltash, which the Royalists had recovered, was seized by a detachment of the parliamentary garrison at Plymouth but retaken by storm by Sir Richard Grenville. In t: autumn and winter of 1645, Charles II., then Prince Wales, spent some time in Cornwall: in March, 1647, hembarked at Pendennis Castle for the Scilly Isles, upon approach of the Parliamentarians under Fairfax, who, are defeating Lord Hopton at Torrington, entered Carries forced the Royalist cavalry to surrender, and acquired session of the whole county. The Royalist army had be disorganized by the disputes of their leaders. Castle, one of the last places in England which held out 6: the king, surrendered in August, 1646. The Scilly Liandand Prince Charles forced to flee, first to Jersey, and a: wards to France. In 1648 an attempt to raise forces: restore the king's cause was defeated by Sir Hardre . Waller. In 1650 the Scilly Islands were held for the king '97 the Cornish men were again in arms to support Waller. In 1650 the Scilly Islands were held for the king by a body of English and Irish forces; but the islands were ure of the attempt. In the reign of Edward VI.

The Dutch made two attempts on the Cornish coast in the war between them and the Commonwealth, but were defeated in both. Since this period the local history of Cornwall affords little interest.

STATISTICS.—Population. Cornwall may be considered as an agricultural as well as a mining county. It ranks the twenty-seventh on the list of agricultural counties, and has remained stationary in this respect since 1811. Of 67,737 males twenty years of age and upwards inhabitants of the county (in 1831), 24,464 were engaged in agricultural pursuits (of these 16,243 were labourers), and only 107 in ma-

nufactures, or in making manufacturing machinery. Of this latter number 50 were employed in the Juan iron foundery and rolling-mill at St. Erth, 17 in powder-mills at St. Gluvias and Stithians, 5 in a manufactory of tin at Gulvol, and the remainder in weaving, &c. at various places. The number of labourers of twenty years of age and upwards employed in labour, not agricultural, was 22,706.

The following table contains a summary of the number of inhabitants, in 1831, showing their occupations in each

hundred, &c. in the county.

	I	HOUSES			occ	CUPATIO	NS,	1	PERSONS.		
HUNDREDS, &c.	Inhabited.	Familios.	Building.	Uninhabited.	Families chiefly employed in agriculture.	Families chiefly employed in trade, manufactures, and handicraft.	All other families not comprised in the two preceding clustes.	Males.	Pemalos.	Total of persons.	Males twenty years of age.
East Kerrier Lesnewth Pennrith Powder Pyder Stratton Trigg	5,548 9,178 1,568 13,082 11,110 4,539 1,545 2,371	6,529 10,244 1,685 14,156 12,255 4,828 1,744 2,586	32 136 7 274 148 54 32 26	271 400 65 662 611 155 49	3,117 2,478 938 2,470 3,125 1,934 1,086 1,173	1,796 2,056 346 2,860 3,075 834 390 703	5,710 401 8,826 6,055 2,060 268	15,630 24,361 4,179 35,060 30,019 12,883 4,517 6,441	16,133 26,952 4,098 37,342 31,892 12,806 4,298 6,616	31,763 51,313 8,277 72,402 61,911 25,689 8,815 13,057	7,660 11,566 2,079 16,316 14,475 6,073 2,229 3,194
West Launceston (borough and town) Falmouth (town) Seilly Islands	3,083 324 652 521	3,525 496 1,203 565	29 5 7 8	162 15 10 11	1,904 22 104	740 267 228 87	207 975 374	9,083 1,030 1,858 1,152	9,171 1,201 2,903 1,313	2,231 4,761 2,465	4,233 533 774 605
Totals	53,521	59,816	758	2538	18,351	13,882	28,083	146,213	154,725	300,938	69,737

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The population of Cornwall at each time the census was taken since the commencement of the present century was—

	Males.	Females.	Total, Inc. per Cent	Ļ
1801	89,868	98,401	188,269	
1811	103,310	113,357	216,667 . 15	
1821	124,817	132,630	257,447 . 19	
			300,988 . 17	
			en the first and las	ŧ

Showing an increase of 112,719 between the first and last periods; which is an increase of rather more than 59% percent, or 2% beyond the general rate of increase throughout England.

County Expenses, Crime, &c.—The sums expended for the relief of the poor at the four dates, when the census was taken, were—

In 1801	. £ 54,648	which was	at the rate of	5s. 9d.
,, 1811	. 103,736	,,	,,	9s. 7d.
,, 1821	. 104,178	,,	,,	8s. 1d.
	. 102,151	,,	,,	6s. 9d.
for each in	habitant			_

The sum expended for the same purpose in the year ending 25th March, 1836, was 74,8561. 3s.; assuming that the population has increased at the same rate per-centage as in the ten years preceding that period, the above sum gives an average of 4s. 7d. for each inhabitant. All these averages are below those for the whole of England and Wales.

The sum raised in Cornwall for poor-rate, county-rate, and other local purposes, ending 25th March, 1833, was levied upon the various descriptions of property, as follows:—

					£.	8.	d.	
On	land .		•	•	91,906	5	0	
	dwelling-hous	ses		•	18,995	0	0	
	mills, factorie			•	2,582	4	0	
	manorial profi	its, nav	igatio	n, &c.	7,951	19	0	
	•	-	•					

Total money levied by assessment . 121,435 8 0
The amount expended was:—

unio unio ori postato a mare			_
For the relief of the poor .	100,318	18	0
In suits of law, removal of paupers, &	£c. 4,453	4	0
For other purposes	15,163	8	0

Total money expended . £119,935 10 0

In the returns made up for the three succeeding years, he descriptions of property assessed for local purposes are not distinguished.

	183	34.	1835.	1836.
The total money levied, was	£ 113,332	9 0	111.170 14 0	98 846 10 0
Expended for relief of poor .	93,036	11 0	84,534 15 0	74,856 3 0
,, in suits of law, re-			3,450 13 0	
Payments for or towards county rates  Expended for all other purposes	٠. با	)	8,459 17 0	7,320 8 0
Expended for all other pur- poses	19,012	110	11,913 15 0	11,644 2 0
Total parochial rates expended	116,231	8 0	108,352 0 0	97,053 14 0

The difference of the sums expended for the relief of the poor in the respective years 1835 and 1836 is therefore 96781. 12s., which is rather less than 11½ per cent.; the difference of the total of parochial rates expended is 11,2981.6s., making the whole amount of saving rather more than 10<sup>3</sup> per cent.

The number of turnpike trusts in Cornwall, as ascertained in 1834, was 13; the number of miles of road under their charge was 318; the annual income arising from the tolls and parish composition was 24,044l. 15s. 8d.; and the annual expenditure, 23,895l. 5s. 10d.

The amount of expenditure of county-rate, in the year 1834, was 8,024L 9s. 7d., disbursed as follows:—

	£.	8.	d.
Bridges, building, repairs, &c.	555	7	34
Gaols, houses of correction, &c., and maintaining prisoners, &c.	2,637	0	9 <del>}</del>
Lunatic asylums	200	19	11
Prosecutions	1,417		
Clerk of the peace	344	17	11 '
Conveyance of prisoners before trial.	548	3	2
of transports	97	17	6
Coroner	238	13	0
Debt—Payment of principal and in-	1,176	6	6
Miscellaneous	807	9	2

The number of persons charged with criminal offences is the three septennial periods ending with 1820, 1827, and 1834, were respectively 646, 679, and 1144; making an average of 92 annually in the first period; of 97 in the second, and of 163 in the third.

The number of persons tried at quarter-sessions in Table

The number of persons tried at quarter-sessions in respect of which any costs were paid out of the county rates in each of the years 1831, 1832, and 1833, were 161, 174, and 168 respectively.

and 168, respectively:

		1 <b>85</b> 1.	1888.	1022.
Total number of	f felonies so triec.	93	130	118
<b>"</b>	misdemeanors	68	44	50

The total number of commitments to the quartersessions in each of the same years was 142, 145, and 146, respectively: of whom

	1831.	1832.	1833.
The number convicted was	94	109	101
" acquitted .	18	19	14
Discharged by proclamation	30	17	31

At the assizes and sessions (in 1835) 206 persons were charged with criminal offences in Cornwall; out of which number 22 were charged with offences against the person, 11 of which were common assaults; 3 persons were committed for housebreaking; 145 for offences against property committed without violence; of the remaining 36 one was committed for killing and maiming cattle, 3 for forging and coining, 9 for assembling armed, &c., to aid smurgiers, and 23 for riot, &c. Of the whole committed 144 were convicted and 62 acquitted, or no bills found. Among those punished 1 was executed; 29 sentenced to transportation for various periods; 18 imprisoned for terms between 2 years and 6 months, and 73 for 6 months and under; 2 were whipped, 15 fined, 4 discharged on sureties and 2 pardoned. Of the offenders 175 were males and 31 females. Among the whole number 106 could read and write, 55 could read only, 40 could neither read nor write, and the degree of instruction could not be ascertained of the remaining 5. The proportion of the offenders to the population, in 1635, was

The number of persons qualified to vote for the county members of Cornwall were, in

				1894.	1835.
The eastern d	ivisio	n		4392	4446
western	**			3612	3504
				8004	7950

which is 1 in 32 of the whole population, and 1 in 6 of the male population above 20 years of age. The expenses of the last election to the inhabitants of the county were 3851. 4s. 8d., and were paid out of the general county rate. There are eight savings-banks in this county. The

There are eight savings-banks in this county. The number of depositors and amount of deposits on the 20th November were as follows:—

	1832.	1833.	1834.	1935.
Number of depositors				7734
Amount of deposits	£252,776	269,885	85,075	306,676

The various sums placed in the savings-banks in 1634 and 1835 were distributed as under:--

Not exceeding	I		1834. s. Deposits.	1836. Depositors. Deposits.		
	£20	2915	£24,923	3019	£25,623	
,,	50	2428	74,681	2649	80,462	
99	100	1119	77,425	1290	84,396	
20	150	410	48,852	429	51,065	
77	200	227	38,625	259	43,780	
Above	200	82	20,569	88	21,350	

Education.—The following particulars are taken from the parliamentary papers on education arising out of the inquiry on that subject made in the session of 1535:—

Infant Schools	Schools, Scholars, Total.
Number of infants at such schools; ag	zes
from 2 to 7 years:—	•

Males	862	
Females Sex not specified	1023	
Sex not specified	756	
		2641

Males	13,021
Females	10,396
Sex not specified	5571

28,988

## Maintenance of Schools.

Description of	By endowment. By subscription. Son scholars most from echan-							
Description of Schools,	Seil	Scho- lers.	- 2-16-	Scho- lare.	244	Seto lamb.	-	Scho- lars
Infant Schools Daily Schools Sunday Schools	51	1544	52 349	2,906 2,906 33,290	105 795 6	9007 21,#34 310	73	383 4214 4774
Total	51	1544	408	35,678	906	23.241	91	3.87

Assuming that the population between 2 and 15 years, increased in the same ratio as the whole of the populative between 1821 and 1831, and has continued to increase in tissame ratio since, we find that there must have been 1832 in Cornwall in 1834 (the time this education inquiry was made) 100,756 persons between those ages. A very large number of the persons receiving instruction attend but daily and Sunday schools. Only six schools are returned from places where no other school exists, and the fewchildren (207 in number) who are instructed therein, can not be supposed to attend any other school; at all other places Sunday-school children have opportunity of resoning to other schools also; but in what number or in what proportion duplicate entry of the same children is thus produced cannot be ascertained. Twenty-six schools, containing 1381 children, which are both daily and Sunday-schools are returned from various places, and duplicate entry therefore known to have been thus far created; we have therefore conclude that scarcely more than half, or, at most two-thirds of the children receive instruction.

The schools established by Dissenters, included in the above statement, are:—

Infant Sci	hools			•			Schooln.	Scholars. 29
Daily Sunday							7 173	<b>220</b> 18,735
Schools establish Infant and Sunday S	d othe	er d	aily	sc	hoo	s	48 <b>3</b> 244	18,129 23,775

Fourteen boarding schools are included in the number of daily schools as given above.

No school in this county appears to be confined to the children of the Established Church, or any other religious denomination; such exclusion is disclaimed in airce every instance, especially in schools established by Discenters, with whom are here included Wesleyan Methodisand one school for Jewish children. Lending-libraries

books are attached to 35 schools in this county.

CORNWALLIS. Charles, second Earl and first Maguis of Cornwallis, was born December 31, 1738, and concated at Eten, and St. John's, Cambridge. In 1761, durantho Seven Years' War, he served abroad under the title. Lord Broome, as aide-de-camp to the marquis of Grants In 1762 he succeeded to the peerage on the death of father, in 1766 he was made colonel of the 33rd regiments foot, and in 1770 governor of the Tower. He was also asked de-camp to the king, who held him in high favour; and is recorded to his honour, that though a general supporter the administration, he exercised an independent judgment and voted against ministers on several important questate. More especially, he was opposed to the steps which led to the American war; but when his regiment was orderabroad, in 1776, he declined to profit by the special least of absence obtained from the king, and sailed with it, leasing a devotedly attached wife, who is said to have lost latife in consequence of her grief and anxiety at the separation.

He served actively and with distinction, with the rank 'major-general, under generals Howe and Clinton, in the campaigns of 1776-77-78-79 in New York and the settlement states, and in 1780 was left in the command of South Carolina with 1000 men. He gained a victory over General Gates at Camden, August 16, 1780, and a second, less deresive, over General Greene at Guilford, March 15, 1781—both against superior numbers. But the population of country being unfriendly to the royal cause, there aske tages were-transient. In the course of the spring of 17. Cornwallis invaded Virginia, where he obtained no decide.

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The conting monodiately to assume the continuant of the army in the upper presents. In the copy presents, the sea seased with fillings and that at Christopere, in the previous of Benarca, Octaber 9, 1995. The choracter as a colding and state-small had at Christopere, in the previous of Benarca, Octaber 9, 1995. The choracter as a colding and state-small had at Christopere, in the previous of the sease that the formation is a colding and state-small particles. COROMANDEL COAST—originally Chalomandally, and subject the sease to covered. It is the collection of properties.

COROMANDEL COAST—originally Chalomandally, we according to Major Remail, the Sora Mandalium of Policiny—is the sea board of the original to the subject of the large of Hengel, extending from Point Collimers on the large of the sease of the sound of the analysis of common theory of the control of the control of the sease of the control of the sease of the control of the prevalence of the sear, it is difficult to effect a landing except the means of an alteration in the office they have a proposed to the control of the

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north and south through the peninsula to Cape Gallo, antiently Aeritas. (Leake's Morea, vol. i.)
CORO'NA. [COLUMN.]
CORO'NA BOREA'LIS AND AUSTRA'LIS, the

northern and southern crowns. The first is a northern constellation, found in Aratus, who says it was formed by Bacchus in memory of Ariadne. It is situated between Bootes and Hercules, and the bright star of its cluster (marked a) may be seen about an hour eastward of Arcturus, and about eight degrees nearer to the pole. Corona Australis is a southern constellation, first found in Ptolemy. It is situated between the front legs of Centaurus.

CORONA BOREALIS.				CORONA AUSTRALIS.				
	No. in Catalogue of				No. Catalo			
Character.	Flamstoed.	Astron. Bockety.	Magnitude.	Character.	Piazzi ().	Astron. Society.	Magnitude	
E O a m Z Y o E e v E v v v v v v v v v v v v v v v v	3 4 5 6 7 8 10 11 13 18 19 20	1753 1765 1770 1777 1782 1790 1805 1813 1825 1870 1880 1881	4 4 2 2 5 4 4 4 5 4 5 5 5 5 5 5 5 5 5 5	γ δ α β	(280) (291) (300) (305)	2206 2210 2216 2218	5 5 5	

CORONATION, the act of crowning or consecrating a aing. This rite is of remote antiquity, as may be gathered from the notices which we have in Scripture, in the first and second books of Kings, of the coronations of Solomon, and of Joash the son of Ahaziah, of the latter of whom it is expressly said that Jehoiada the priest took him, put the crown upon his head, and gave him the testimony, and they made him king, and anointed him. The act of anoint-

ing seems to have originated with the Jews.

In England, after the kingdoms of the Heptarchy had become united, we find the ceremony of coronation continually alluded to in the Saxon Chronicle, under the term gehalgod, by which is expressed that the king was hallowed or consecrated. Kingston-upon-Thames was the place where the Saxon sovereigns were crowned during nearly the whole of the tenth century. (See Diceto and the other aistorians in the Decem Scriptores.) Edgar, who succeeded to the throne in 959, is said to have been crowned either at Kingston or at Bath. Edward the Confessor was crowned at Winchester in 1042. The copy of the Gospels upon which the Sayan kings were sweet at their which the Saxon kings were sworn at their coronations is believed to be still preserved amongst the Cottonian Manuscripts in the British Museum, in the volume Tib. A. ii. Harold and William the Conqueror were crowned at Westminster. It was customary with the Norman kings to be crowned more than once. Henry II. crowned his eldest son, and associated him with himself in the administration during his own life.

In one or two instances, in the Norman times, we find the regnal years of our kings dated from their coronations only; the previous time, between the predecessor's death and the performance of the inaugural ceremony, was considered as an interregnum. This is a fact of no small importance to those who would accurately fix the dates public instruments and transactions in the reigns

of Richard I., John, and their successors.

The first English coronation of which we have any detailed account is that of Richard I., in the Histories of Diveto and Bromton. (See Twysd., Script. x. coll. 647, 1157.)

don, 1812, vol. 11., pp. 753, 754. The details of the English coronations of Henry V. and VI., and of the latter in France, are contained in the Cottonian Manuscripts, Tib. E. viii. and Nero C. ix. Hall and Grafton have described the ceremonies at the coronation of Richard III. The account of the coronation of Henry VIII., with the king's oath pre-fixed, interlined and altered with his own hand, is likewi-preserved in the Cottonian Manuscript already mentioned. Tib. E. viii. The oath, with its interlineations, is engraved in fac-simile in the first volume of the second series of Ellis's 'Original Letters illustrative of English History.' Fuller, in his 'Church History,' and Ellis's 'Letters,' 151 Ser., vol. iii. p. 213, detail the particulars of the coronation of Charles I. Several editions of the Form and Order of Charles II.'s coronation at Scone in 1651 were published at the time in 4to, at Aberdeen; reprinted at London in folio, 1660; and the entertainment of Charles II. in his passage through London to his coronation, with a narrauve of the ceremony at the coronation, by John Ogilby, with plates by Hollar, fol., London, 1662. Sandford's 'History of the Coronation of James II.,' fol., London, 1687, illustrated with very numerous engravings, is the most complete of all our works upon English coronations published by authority. That of George IV., of which two portions onla appeared, was far more splendid, with coloured plates, but remains unfinished.

A very antient MS. of the ceremonial of crowning the emperors at Aix-la-Chapelle was purchased at the last of the sales of Prince Talleyrand's libraries, by the late Mrs Banks, and is now among the additional manuscripts in the British Museum. Of foreign published coronations. that of Charles V. at Bologna as emperor, in 1530, is one of the most curious, engraved in a succession of plates uper a roll of considerable length. The 'Sacre de Louis XV. Roy de France et de Navarre, dans l' Eglise de Reims 25 Oct. 1722,' is a work of pre-eminent splendour, full it finished engravings. The 'Description of the Ceremonica at the Coronation of Napoleon as Emperor of France, with his Consort Josephine, 2 Dec. 1804,' is a work of equal size but the engravings are chiefly in outline. folio. Persize, but the engravings are chiefly in outline: folio, Paras 1807. There is a volume, with engravings, of the corona of the empress Anne of Russia, fol. Petersburg, 1751 and many others might be enumerated.

The formulary which has served as the general mofor the English coronations since the time of Edward III is the 'Liber Regalis,' deposited in the archives of the deci and chapter of Westminster, and kept with a religious can It is supposed to have been written for the particular 1 structions of the prelates who attended at the coronat...t of King Richard II. and his queen. Copies of this man script, without its illuminations, are preserved in one contwo of our manuscript libraries. The substance of the case monial directed in it is abridged in Strutt's ' Manners 2....

Customs,' vol. ii. p. 22-37.

The following is the form of and ceremonial in admission. tering the Coronation Oath to our kings:—Sermon beneated, and the King having made and signed the declartion, the Archbishop goes to the King, and standing before him, administers the Coronation Oath, first asking the King. Sir, is your Majesty willing to take the Oath? and the King answering, 'I am willing;' the Archbishop ministers: these Questions; and the King, having a Copy of the printe-

Form and Order of the Coronation service in his hands answers each Question severally as follows:—

Archb. 'Will you solemnly promise and swear to got the People of this United Kingdom of Great Britain Ireland, and the Dominions thereto belonging, according to the Statutes in Parliament agreed on, and the respective

aws and Customs of the same

King. 'I solemnly promise so to do.'

Archb. 'Will you to your Power cause Law and Justice,
in Mercy, to be executed in all your Judgments?

King. 'I will.'

Archb. 'Will you to the utmost of your Power maintant the Laws of God, the true Profession of the Cosmological and the

the Laws of God, the true Profession of the Gospel, and the Protestant Reformed Religion established by Law? At-An account of all the formalities observed at that of hard II., taken from the 'Close Rolls,' is to be found mer's 'Fædera,' the old edition, vol. vii. p. 157. Froisias given a short but interesting narrative of the coron of Henry IV., which the reader may see in the England and Ireland, and the territories thereunto belonging? And will you preserve untitle Bishops and Clergy of England and Ireland, and to the dition of his 'Chronicle,' by Lord Bernera, 4to., Lonwill you maintain and preserve inviolably the settlement the United Church of England and Ireland, and the detrine, worship, discipline, and government thereof, as to Law established within England and Ireland, and the termination of the settlement of the settleme

and providings as to Labor 2.

Live and District 1.

Live and Dist

county pelatine, or great sessions, at which the trial is to be, then and there to prosocute or give evidence against party charged; and every such coroner shall certify and and also the requisition before him taken, and shall deliver the same to the proper officer of the court in which the trial is to be, before or at the opening of the court.' And It a subsequent section, authority is given to the court to which the inquisition ought to be delivered to examine in a summary manner into any offence committed by the coroner agranted the act, and to punish him by fine. The coroner's it the sit in may be removed into the Court of King's Bench, and the facts found may be traversed by the personal repre sentative of the deceased; or the court may make it for any armarent defect.

For every inquisition taken in any place contributing to the county rates, the coroner is entitled to a fee of 202, and also to 9d. for every mile he is obliged to travel from his usual place of abode for the purpose of taking it, to be paid by order of sessions out of the county By a recent act of parliament, 6 and 7 Will. IV c. 59, the coroner is empowered to order the attendance of legally-qualified medical practitioners upon an inquisition of death, and to direct the performance of a post mortem examination; and if the majority of the jury are dissatisfied with the first examination, they may call upon the coroner to summon a second medical witness, to perform a post mortem examination, whether it has been performed before or not. The statute also authorizes the coroner to make an order for the payment of a fee of one guinea to such witness, if he has not performed a post mortem examination, and of two guineas if he has performed such examina-tion. Medical practitioners are also liable to a penalty of 51. if they neglect to attend.

The coroner has also occasionally to exercise a ministerial office, where the sheriff is incapable of acting. Thus where an exception is taken to the sheriff on the ground of partiality or interest, the king's writs are directed to the coro-This incident to the office of coroners points distinctly to their antient character as ministerial officers of

the crown.

By the Municipal Reform Act, 5 and 6 Will. IV. c. 76, 6 62 the council of every borough, to which a separate court of quarter sessions has been granted, is empowered to appoint a fit person, not being an alderman or councillor, to be coroner of the borough, who is to hold his office during gived behaviour. The fees and general duties of borough coroners are the same as those of county coroners; but the firmer are required by the statute to make an annoul return to the secretary of state of all inquests of death taken by them. [Dr. DAND] (See Hawkins's Pleas of the Crown, treating 19: Burn's Justice, tit. \* Coroner; and Jerus's Fructical Treatise on the Office and Duties of Coro-

CORONET, an inferior kind of crown worn by the note. Of coronets worn by foreign nobility much may be seen in School, Tries of Homer, and in Montfaucon; bee at " Got an's "Sem Ithral Monuments," vol. i. pp. 133, 104 No coronets benegatg to peers can be found in England earner then the time of Henry III. The coronet peering at first to have been the distinctive mark of an earl. William de Valence, earl of Pembroke, who died in 1304. and is buried in Westminster Abbey, has only a plain fillet. Avmer de Valence, however, acknowledged by his treasurer the recent of a coronet at his creation of earl in 13.9. (See Gough, Sep. Mon., i. p. 86, from Selden's Tit. of Hom.) John of Ethiam, second won of Edward III., who a coronet on which are leaves; if is the most amount of the nort we ment with Edward the Blank Prince, who is borned at Canterbury, has he believe adorned with a coroner of und seems, formerly entrained with parts, or fame armes, of

Of the countries of the British notice in the hippenson with any non-countries of the British notice in the hippenson with any non-countries of the British notice in the hippenson with any non-countries of the service of the servic The configurations in a notion of green mention one discourse on the series of the ser at the highest of presentation to be of medical by year generated by the second state of the second st printed at section to the first to merchanter beneren

out any limited number, placed on the circle itself all :. . . A baron has only six pearls set at equal distance counts and barons had no coronets allowed them t. Queen Elizabeth's reign; the former had them graking James I., the latter by a grant from Charles II thirteenth year of his reign. In Sir Symonds DE letter, giving an account of the coronation of king the latter of the coronation, it is expressionally in the coronation of the coronation of king the latter of the la said that when the higher order of the peerage 1.: their coronets, the barons sate bare.

The coronet of the kings of arms is a plain circle gold, bearing sixteen leaves, eight of which are higher ... the others: and on the band, the motto 'Miserere L. Deus.

CORO'NULA. [CIRRIPEDA.]
CORPORAL (in the French service caporal), a no commissioned officer in a battalion of infantry. is derived from the Italian capo, signifying a head; the title denotes that the person who bore it was the c of a small squadron or party. During the reigns of Mand Elizabeth, the corporal was a kind of brigade-man he superintended the marches of the companies, and ca manded the troops who were sent out on skirmshin. parties. But at present he is immediately under the cient; he places and relieves the sentinels, and at dri. has charge of one of the squads. In the ranks he does same duty as a private soldier, but his pay as r '.higher.

Lance-corporal, originally lance-spesala, denoting broken or spent lance, was a term applied to a consoldier who had broken his lance or lost his horse in ac... and was subsequently retained as a volunteer in the intertill he could be remounted. He is now merely a salar who does the duty of a corporal, but without the previously to obtaining the full appointment to us-

grade. CORPORATION. For the purpose of maintaining :... perpetuating the uninterrupted enjoyment of certain power rights, property, or privileges, it has been found converto create a sort of artificial person, or body-politic, not is to the ordinary casualties which affect the transmission private rights, but capable, by its constitution, of his initely continuing its own existence. This artificial resources is in our law called an incorporation, corporation, or t corporate. The last of these names is the most corre well as the earliest, that occurs in our law. The factor import rather the act of creating the body than the base itself, and do not appear to have been used in their monet sense till the fifteenth century. The institution of .: bodies under similar or different names was council among the Romans [Collegium], and we believe we may venture to say that bodies possessing all the essercharacteristics of modern corporations were known in .... Greek polities.

Corporations are variously distinguished into aggrezand sole corporations, corporations ecclesiastical and a civil and eleemosynary, regular and secular. Again. are divisible into corporations of a public character ex-blished for the purpose of general or local government. those which have been created to facilitate the clyes. private associations.

The idea of a corporation sole, formed by a successsingle persons, occupying a particular office or state ach in virtue of his character succeeding to the right powers of his predecessor, has been said to be pec. our law, and to be an improvement upon the cright a vention. (4 Blackstone's Comment. 469.) The bishop, a parson, the chamberlain of London. &cusually referred to as examples of such corpora solo. It may be observed, however, with respect to the property of the invention, that similar cases. mal succession and representation probably occur in . . . . every system of laws, so that the claim of onlying to be re-tricted to the mere name; and even in this rewe incline to the opinion of Dr. Wooldeson that a n to of the law of corporations in general applies to a = while wile, it might have been better to have given to while o her denomination.' (I Worldes Viz. Lett. 2) The I flowing notice will be chiefly confined to the La verserati us-aggregate.

The members of cathedral and collegiate charters are er in the of secular ecclesiastical corporation aggregation tion the points. The viscount in only pourse, with Bodies the reformation the law recognised a class of eccu-

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station) experiences provided and sound sound to prove additional respective provided and a sound sound to provide a sound to the company of the control of the company of the control of the company of the control of

Personne and a bull to Medical. Religions. Planton, and I mineral feature. Of such a results and still comment to be the same comment which I during that long period a feature of the family Manne. I deviated again the Thomas. (See I traces, we give an ensurement of the family Manne. I deviated again Walks will be inquiry. They are 45 mineral business or Long. And Walks will be inquiry. They are 45 mineral features and the feature of the feature of the features.

I there Businesses to Essential AND Walles will be found a more particular teachington of that class of corporations of mean management and of the recent negligible country for the purpose of mean management, and of the recent negligible country of the recent negline country of the recent negligible country of the recent negligi

O'RICHATIONS (MUNICIPAL) OF IRELAND. The property system of Ireland may be described in general as an immediate branch from that of England, which, at the same time that it has amply shared the effects of the policy of the crown in latter ages towards municipal bodies in general, has also been modified by the very peculiar and often fluctuating political circumstances of that division of the British empire. The motives which actuated the executive government of England in the course which it so long and so steadily pursued towards the entire remodelling of the town constitutions, and the operation of that course of proceeding in undermining the independence and destroying the local benefit of the municipal governments, we have endeavoured to trace distinctly in a preceding article [Boroughs of England and Wales]. In this place, therefore, the historical part of our notice must be limited chiefly to the marking, in the general course of Anglo-Irish history, the progress of the Irish corporation system

in particular.

The whole system of boroughs, which holds so conspicuous and important a place in the history of the political and general civilization of the British Islands, is, in nature as well as name, of purely Teutonic original; that particular species of organization having ever been found repugnant to the habits and spirit of the Celtic nations in their independent state. Thus, in Great Britain itself, its local limits advanced with the growth and extension of the Germanic colonies both north and south of the Tweed; and in Ireland we find that the native race were strangers to it until the settlement on their eastern and southern coasts, about the ninth century, of some of those Danish, North-man, or, as they were called in Ireland, Ost-man (East-man) bands, in that great sera of the permanent migrations of those for-midable sea-rovers. Of these maritime settlements, five, viz., Dublin, Wexford, Waterford, Cork, and Limerick, ap-pear as places of note at the commencement of the Anglo-Norman conquests in the island, and as possessing that municipal organization which constantly attended all the branches of the Teutonic race. The Ost-man colonists of Ireland, too, though for a considerable time after their first settlement they adhered to their antient paganism, had at the period in question, owing undoubtedly to the amicable relations which had arisen between them and the Irish population, and to the exertions of the Irish clergy, been long in the profession of Christianity; so that, it should seem, the first Anglo-Norman invaders might have recognised in them some degree of national affinity. But being ignorant and brutal, though subtle and daring adventurers their thirst for plunder and for territorial acquisition would not permit them, in their career of murderous rapine, to make any distinction in treatment between the Scandinavian and the Celtic blood, between the Ost-man and the Irishman.

This unsparing temper of the early private invaders perfectly coincided with the policy of the English crown; and so soon as Henry II. had found leisure to take the business of the invasion into his own hands, one of his principal measures for securing the footing of his government on the Irish soil was the colonization of the Ost man ports with English or Anglo-Norman settlers. Thus the Ost-men of Dublin were thrust without the walls of their city to inhabit the suburb thence called Ost-man town, and still, by corruption, Oxmantown, giving place to a band of mercantile settlers from Bristol, who became the English king's 'burgesses' of Dublin, with a charter of liberties modelled exactly upon that of Bristol. In like manner, during the various fluctuations of the territorial conquest, down to its completion at the close of the reign of Elizabeth, every permanent extension of the English frontier extended the English organization of the territory, of which the establishment of fortified towns, with inhabitants municipally reganized and trained to arms, was a constant and a pro-

twinch i during that long period as still exist, or have left destained traces, we give an enumeration from the report communications on the Irish branche of the late municipalities extends to deep traces, we give an enumeration from the report communications on the Irish branche of the late municipalities extends to the late municipalities extends the report of the report of the report of the late municipalities extends the report of the report of the late municipalities extends the report of the r

The managinal commissioners could not belo observe the 'marked distinction in the language of their charteas to the constitutions of the municipal corporations Ireland, according to the dates of those instruments," in is, according as they were granted before or after the mamencement of the reign of Junes I. The source of the remarkable difference will be found clearly explained referring to the historical part of our account of the B. ROUGHS OF ENGLAND AND WALES, (vol. v., p. 202.) where it will be seen that this was precisely the period when in crown was most actively exerting itself to secure the poor of moulding the borough constitutions at its pleasure that in the middle of James's reign was given the note: judicial decision in favour of the prerogative of establish. close boroughs by charter, upon which the crown enafterwards acted. In the same historical summary it asears that, far as the exercise of this power was carno-England, yet, in the hands of the Stuarts at least, it take of the complete attainment of its object. But in Irein. which presented a much clearer field for its exertion, it we used both lavishly and effectually, not only in establishing new boroughs, but in reframing the constitutions of the In the 'plantation of Ulster,' as the settling British inhabitants upon the lately-forfeited lands there v. then denominated, by charters granted by James to var. 'undertakers' of the plantation, a number of incorpora:. . were made beforehand, on the new and approved pirtowns to be built on the respective lands. Another. very similar mode of making boroughs in Ireland at :period was the incorporating of some village already exing, at the same time placing its corporation under to absolute control of the lord of the manor existing ; viously or newly erected. The whole number of borethus created by James I, and his two immediate successive a large proportion of which were originally of the class; described, though some of them have since risen to : portance, is 61, viz., by James I., Agher, Armagh, Assetton, Athlone, Athy, Ballinakill, Ballyshannon, Baltin Bandonbridge, Bangor, Belfast, Belturbet, Boyle, Cart on-Shannon, Castlebar, Cavan, Charlemont, Clog: Cloghnakilty, Coleraine, Dungannon, Ennis, Etab. corthy, Enniskillen, Feathard (county of Wexford), Garage corthy, Enniskillen, Feathard (county of Wexford), Gar-Hillsborough, Jamestown, Kilbeggan, Killileagh, Kal-begs, Lifford, Lismore, Londonderry, Lymavady, Man-Monaghan, Newry, Newtownards, Sligo, St. Johns (county of Donegal), Strabane, Tallagh, Tralec, 1. Wicklow; by Charles I., Banagher; by Charles II. Is tinglass, Blessington, Cariesfort, Castlemartyr, Charles Dunleer, Granard, Harristown, Lanesborough, Lanesborou Middleton, Portarlington, St. Johnstowne (county of L. ford), Tulske.

Each of the 106 corporations in the two lists above, sent two members to the Irish House of Command many of those in the latter list served scarcely other purpose from the beginning, their incorporation in given little more than a cover for the nomination of two members by the landed proprietor. Many hade quently fallen into virtual disuse long before the legislation with England. All however seem to have excessme municipal function within the last century, excepthese seven,—Baltimore, Clogher, Dungarvan, Liethese seven,—Ratione in them either of a corporation burgage tenure is noticed in antient records, but note in incorporation has been discovered, viz.—Cionen Downpatrick, Ratoath, Swords, Taghmon, each of likewise sent two representatives to the Irish parlian. The mode of incorporation adopted by the cr

erecting the modern boroughs, presents little make:

parallel to the course it was pursuing in England:

while the explains here it was their time subsversum which it wished in the mutical becoming constitutions of British and the state of the time of the state of t

be expected from seeking the benefit of the rules and orders, or bringing in any other mode the rights of the excluded before such tribunals as then existed. From these causes, and from a sort of inviolability or sacredness of character which was thrown about corporate establishments in Ireland from the reign of William III. almost to the present time, the inhabitants at large of municipal towns have remained wholly unconnected in interests or feelings with the few individuals monopolizing all corporate authority.

The inquiry into the state of the municipal corporations of Ireland, commenced in 1833, was a branch of the general municipal inquiry which naturally followed the passing of the parliamentary Reform Acts. The Irish Commissioners as the basis of their local investigations the 117 place which sent representatives to the Irish parliament; all of which have been enumerated in the several lists given above, except the six following, which, though they were empowered by charter to return each two members to parhament, appear never to have possessed a municipal character; var., Antrim, Doneraile, Lisburn, Mullingar, Randalstown and Ratheormac. And of the various municipal experations above mentioned, only sixty appear to be now executedy existing and exercising corporate functions. These we shall here enumerate in the order of their respective magnitudes commencing with the most populous, and described groundarily downwards; they are, of leaded in-hammans and equipments, Dublin, Cork; from leaded to sureman Limenes, Bullist; from 50000 to 20000, Galway, Waterston & Leerny, Deck aderry; from 20000 to 10,000, Designate Sign College, Kinsule, Athline, Youghal, Wexner, Demilie; from 10000 to 5000, Bandenbridge, Tours Armaga, Carlow, Carroldergus, Ennis, Cashel, Time Cauch Emission Kinssoriny, Coleraine, New York, Coleraine, New York, Charles and Kinssoriny, Coleraine, New York, Emission Arts. Coleraine, Longford, Ant. Navas, Dangle, Kells Artice, Minaghan, Naus, Cangamana, D. Dangamana, Bayle, Featured (co. Tipperers, Trm. Mary memory, Paraelington, Gorey; from Song D. 100, Thomas 18th, Banger, Weeklow, Millieton, Romana R. Langer, Weeklow, Millieton, Millieton Bernner & segma Bullians Hillstonegh Alberty. Kimmure Kammen, trom telle to t. t. Listage, Cas-Temperation of the end and complete and it have become an since the expendite Cause with Great Billia; these vari in commencent from sound in war warries; but the greater part, price in that respect remain unaffected by the provise to at nems are annier 1998, and several are meansulerance the Review Act; and if the subject of contest should be

Li livered the total made: mor if the present basis of Millioners, mentions, which is an united a farming and क्रमान्य में डेन्ट्रबर्गाः । The rights from मान्या प्रधानाध्यक्षः अस्य mornional is at the least to minimum that is even There was a learned with their Marie at Super was the West of the report of the section of the second sections in the second section of the sectio sering sufficients the territor the manufacts. The with the statement of the second in the second Prodest & w manement will the not members, and the A dealer with the case is the amount the meaning distributed to the case is the case in the case included the contract of the case is the case is the case in the case is the THE THE ENGINEER MET LA CALLES ME EXPENDENCE. THE THE ENGINE IN METERS THE THEFTHE OF LARGES IN THE THE PERMITTER TO THE THEFT IS SETTING TO THE LE THE FRUMPHY STATE STATE OF BLAK STRATEGES STREET the first that the minimal of the mi THE THE PERSON OF PERSONS AND PROPERTY. responsibility of the same of the property of the same THE MATLET THE THE STEEL THE THESE WILLIAMS THE THE STATE OF THE PERSON HAVE THE STATE OF THE STATE O ning interpret the early of the limited to the second of the limited to the second of the contract to the second of the se we have the part of the will be thinked and the thinked are in the second that the second the second thas the second that the second that the second that the second tha e of the tre alternate medical differences are The second section of man in the same and a second to the first room to PARTY BE E. A. A. MARTINE BOLL Sim the in the late of the late of 1240 The state of the s

counteract any increase on title supposed to be dangerous to the prevailing influence. The policy of the governing bodies has induced some of them, in recent instances, to endeavour to retrace their steps, and extend more liberally the corporate franchise, with the view of encountering the enlarged leasehold and household constituency introduced by the Reform Bill. Thus, in Clonmel, rights to freed in not recognised for eighty years prior to that Act being passed, have been since admitted. In Dundalk it was attempted to introduce a right of admission by birth, in unsuccessfully. In Waterford the same policy has led to the relaxation of restrictions previously existing on the a: tainment of freedom as of right. In Kinsale and Athlene, freemen were admitted in large numbers in 1831 for tr. same purpose, but the attempt was defeated by the prosion of the Reform Act excluding honorary freemen and mitted subsequently to the 30th of March in that year.

The excessive abuse of the unlimited power of admitted

non-residents into the local constituency, is a feature sell more strongly marked in the character of the Irish corresponding rations than in that of the English. 'In counties of ciand counties of towns,' say the commissioners, 'the a-knowledged rights of the freeholders to vote at elections'; members of parliament, while it has served to main ain : general independence of the community, has a dec. though indirect tendency to the depression of the free: as a class. The freeholders, who thus possessed the many valuable civil right without control of the corporate author rit.es, had less motive to seek admission as freemen; whe the existence of an independent body of electors led, to inpurpose of counteracting their influence, to the creation f non-resident freemen-a practice on the part of the e : -rations for the correction of which the legislature has leinterposed by one of the provisions of the Reform Act. 1. many corporations (we may instance the seof Galway, L . . . rick, Cork, and Drigheda), the creation of non-resident freemen has prevailed to an extent apparently only him. .. by the necessity of providing a sufficient number to the interest of the corporation to lear down the resident fire half constituency. As members of the corporations of general municipal purposes, the non-resident freemen de not appear to have interfered; but such rights as they me. of sufficient importance, they might still be reserted to to the governing body on on asion of the exercise of the appearance. rate powers, where vested in the freemen at large.

The admission of non-residents to such an extent security.

pute meansatent with the principles of municipal given-ment and incorporation, and with the spirit of the classics when we midnessed to the citizens commons, inhabit. it commonally of the corporate city or town, and an ... in provisions for the benefit and exclusive advantages, . mercan and civil of those ressling in the incorporated 1... We and the legislature itself at a very early per in structure me and entereng the principle and policy of a re-ment more painty, by a setting of the Irish parliam. resect in the tenth year of Heary VII. (c. 74 which .... is that no et y or great town receive or admit any  $p_{\rm e, rec}$  . be addressed jurer, or freeman within any of the sall in it. ir nives, but such persons as have been prentice or ... need continually inhabitant in the said other or town. and latter some other provisions; " that if any cury or ; iffend the premises or any part thereof, the may; commons of any such city or town, by winderer mailer be mourourated by, to forfest an humined marks of the m the king is ofen as they or any of them shall offe ... terms of the marters and the meentoin of the length. have at he been disregarded, and the provinces on the : if par ament have been consciered as nemal, but re :; and or imposing the presented penalty on the co the which violates them, but not invalidating the adm -of the persons in whose haven they are infringed. thin committees of the House of Commons have mes of Limerick, Wextern and Waterford decades: the rights of election there were innited to free at the time of admission : but these decisions, which acce a principle theretofore indiction, a voluted in modern ; tire, but proceeded on evidence of the anticat by and reaces of these comparatures and in the case of  $W_{\rm c}$  , on the special terms of the charter. In the case of Lun the special terms of the charts me die also a married within much we much the beginning has interpreted by the set for the Present lation of that corporation, 4 Geo. IV., c. 126; and made residence at the time of admission a necessary qualification

for freedom. In Carrickfergus, also, the usage has been in conformity with this principle.

'That the existence of such control and influence in such a body over the admission of the members is a main defect a body over the admission of the members is a main detect in the constitution of the municipal corporations, the re-sults, contrasted with the objects of the institutions, appear to us to demonstrate. We apprehend the term municipal corporation may, in reference to our present inquiry, and on a view of the several charters which have come under our notice, be fairly considered to mean an incorporation of our notice, be fairly considered to mean an incorporation of persons, inhabitants of, or connected with, a particular place or district, enabling them to conduct its local civil government. Accordingly, the regulation of the municipal district and its inhabitants, the preservation of the public peace within it by a magistracy chosen by and from the incorporated body, and the administration of justice to the community in domestic tribunals, are among the principal objects for which provision is made in the various charters of incorporation appearing to have been granted from time of incorporation appearing to have been granted from time to time to the corporate cities and towns in Ireland. Another important object of many incorporations was the election of members to represent their respective cities and towns in parliament. A farther, and one which appears to have engaged more attention in former times than at present, was the protection and regulation of the local trade by means of commercial societies, or guilds. It appears to have been always considered conducive, if not necessary, have been always considered conducive, if not necessary, to the attainment of the first object above noticed—that of providing for the regulation of the municipal district and its inhabitants—that the corporate body should be invested with powers to make ordinances or bye-laws for the purpose, and that such ordinances would be the more binding on the inhabitants of the district and writed to be invested. on the inhabitants of the district, and suited to their interests, if made with their common assent. We find, therefore, that in nearly all the charters of municipal cerporations in Ireland in which the power of making bye-laws is expressly given (even in those the most restricted in other particulars), this power is vested in the whole body, including the commonalty equally with the other members. All the other objects sought by their creation alike imply that those institutions were originally designed for the peculiar and common benefit of the residents of the corporate district, and were intended to be identified in interest with them, and entitled to their confidence and support.

But the consequences of such exercise as we have described of the power of admission to the freedom of the municipal corporations in Ireland, have been to establish a very different condition of those bodies. It has followed, that in many towns there is no recognised commonalty; that in others, where existing in name, it is entirely disproportioned to the inhabitants, and consists of a very small portion, of an exclusive character, not comprising the mercantile interests, nor representing the wealth, intelligence, or respectability of the town. The corporations are, not without reason, looked on by the great body of the inhabitants of the corporate districts with suspicion and distrust, is having interests distinct from and adverse to those of he general community, whom they thus studiously exclude from a participation in the municipal government. Their nembers frequently consist entirely of the relatives and dherents of particular individuals or families, and the srinciples of their association and those which regulate adnission or exclusion, have rarely any connexion with the common benefit of the district or the wishes of its inhabitints. In far the greater number of the close corporations, he persons composing them are the mere nominees of the 'patron' or "proprietor" of the borough; while in those parently more enlarged they are admitted and associated a support of some particular political interest, most freuently at variance with the majority of the resident inha-

'This system,' they continue, 'deserves peculiar notice in reference to your majesty's Roman Catholic subjects. In one corporation alone, that of Tuam, the majority of the coverning body is Roman Catholic....The laws which for a series of years operated to exclude those professing the Roman Catholic religion from corporations were repealed n the year 1793 by the statute 33 Geo. III, c. 21; but the Roman Catholics have hitherto derived little practical adrantage from the change. In the close boroughs they are almost universelly excluded from all corporate privileges.

In the more considerable towns they have rarely been admitted even as freemen; and, with few exceptions, they are altogether excluded from the governing bodies. In some—and among these is the most important corporation in Ireland, that of Dublin—their admission is still resisted on avowed principles of sectarian distinction. Even in those corporations whose rights to freedom are acknowledged and conceded, the long operation of the penal code having prevented the acquisition of freedom by the immediate ancestors of the present Roman Catholic population, very few have been enabled, since its repeal, to establish the requisite titles. The admissions which have taken the requisite titles. The admissions which have taken place, whether upon a claim of right or by favour, have, for the most part, been either the result of personal influence with the members of the governing body, or compliments to individuals of wealth or popularity. With the exceptions of Tuam, Galway, Wexford, and Waterford, the rule is exclusion. In Londonderry, at the passing of the Reform Act, there were only three Roman Catholic freemen. Previously to the relevant of the members of the number of the providers the number of the number viously to the relaxation of the penal code, the number of opulent Roman Catholics residing in the corporate cities and towns was necessarily limited. But since those changes in the laws which have enabled them to share in the general diffusion of wealth and in the benefits of unrestricted industry, they have risen and multiplied in the middle and upper classes, so that in most of the cities and towns they constitute, not only a majority of the whole population, but a large proportion of the more opulent orders. We feel bound to submit to your majesty that a system of municipal polity which excludes such a class of your majesty's subjects from all substantial corporate privilege and power must be essentially defective in its structure. It fails to secure to the different classes of the local community participation in the regulation of their own concerns; and it operates far more widely and more mischievously than by the mere more widely and more mischievously than by the mere denial of equal privilege to persons possessing perfect equality of civil worth; for in places where the great mass of the population is Roman Catholic, and persons of that persuasion are, for all cient purposes, excluded from corporate privilege, the necessary result is, that the municipal magistracy belongs entirely to the other religious persuasion; and the dispensation of local justice and the selection of invited height empirity of the persons of the privalent of the property of the property of the place of the property of the property of the property of the persons of the property of the persons of the property of the persons of the property of the property of the persons of the person of juries being committed to the members of one class exclusively, it is not surprising that such administration of the laws should be regarded with distrust and suspicion by the other and more numerous body. The unpopular character of the municipal bodies is thus, in too many cases, aggravated by their being considered inimical, on the ground of sectarian feelings, to a great majority of the resident population, and they become instrumental to the continuance of the unhappy dissensions which it has so long been the policy of the legislature to allay.

We proceed to notice the branch of our subject next in importance—the present constitution of the governing

In portance—the present constitution of the governing bodies of the Irish municipalities.

In some corporations the members of the legislative council are styled aldermen; in others, burgesses, or free burgesses; and in some there are two such classes, the one styled aldermen, the other burgesses. The number of each class is usually definite. In the numerous corporations created by James I. the corporate body was made to consist of a chief officer, twelve or more 'free burgesses,' and 'a commonalty;' but in the chief officer and free burgesses were exclusively vested the election of the principal officers, the filling of vacancies in the body of free burgesses, and the admission of freemen. Similar in effect, though not always with the same simplicity of form, are the constitutions of nearly all the Irish corporations; and the condition of those in which more popular principles are found affords generally but a seeming exception to the prevalent character of the governing bodies. Where a common council has been established to manage the whole or some portion of the corporate affairs, all the members of the superior classes are, with few exceptions, members of that assembly. In several corporations, representatives of the freemen at large are selected to act on their behalf in the common councils; but in few cases are they actually elected by the freemen; in most they are nominated by the superior classes of the corporation, or by the common councils them selves, without any interference whatever on the part of the general constituency. In some corporations the freemen have been altogether excluded from the governing bodies; while in the greater number of those of James I.'s creation H 2

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A way properly new formers par war to the legals me entin it is five the move most here he stated. In P stand was residence one sea note, in the majority of According to a monaway display deation for the legislature Find the second of the past of the principle of the principle of the finite antimed the past 1757, the principle of the time authored the private by statute 21 fine H along 10 and 2 of the Frue parliament, so the principle of the private of the free parliament, so the private of the free parliament, and the private of the free parliament and the past of the free parliament and the past of the parliament and the past of the free in any course and improviding not nating out on, which send my week to part amount and soon obliged, for want of proto cane in into ance resident in the preminers of said towns are recognition and remarking to electrists the offices of hungeaness and recognitions in the mid corporations persons who did nest content of excell nest he sendent, in the presents thereof that it had been questioned whether persons not of their en posts in charters or some of them, be elected into or act as to expense we true such towers corporate or horoughs; and has a mil continued impracticable in ment of the said to the corporate and becoughs to find protestant inhabitants mine, in account of their encounstances, were fit to be trusted in mich offices, it enjeted, that no person who had been or this till be in all cather respects duly elected and admitted into any of the soul offices or franchises, in any town corporate for horsemple nest being a city, abouted be ounted out of any proceed, or molested, for or by research only of his not having an inhabitant of, or randont within, and town corfemale to becough at the time of his election, but should had access and enjoy such office or franchise as fully and effectually, to all intents and purposes, as if such person or present was or were unhabitants of, or resident within, such to my conjugate or horough at the time of election? The cent temperate or horough at the time of election. office of this some trained was to deprive a large proportion of the compountains of a resident governing body. In some cil were inhabitants of the town; while in others, the which chartered holy of hurgosses became composed of non residents, some of whom attended, pro formd, at elections of the corporate officers and of the parliamentary reproperly, though taking no other part in the local govern-

All the evils of an irresponsible monopoly of municipal logislation so lettely existing in England, and thus found in frictend, enhanced by the several circumstances of aggravation already stated. The principle which operates to the exclusion of the great holy of Roman Catholies from the exclusion of the great holy of Roman Catholies from the exclusion of the great holy of Roman Catholies from the exclusion of the great holy of Roman Catholies from the exclusion of the great holy of the most important of user the admissions to headon by the most important of them, that of Dublin, notwithstanding its more popular constitution, 'being the chal,' say the commissioners, 'by the avoved sectarian being of this corporation, has practically rendered its vertical back, but the representatives of the general manuality of the metropolis, but the head of a limited

and separate memory in many commercial ence authorized 35 '-Mr. 'der stammtone mit Rivingen In ME MARKA MIGHAL PROMITING BUT-TRANSPORTS AND COMPANY ... ne accuse of electron to the 20/33 mid the Blending De partie tillers. He so but has becoming if the correction SHOWN IN THE SELECTION IN THE THE PARTY LAND TO THE WILLIAM TO THE SELECTION OF THE PARTY LAND TO THE WILLIAM TO THE SELECTION OF THE PARTY LAND TO THE WILLIAM TO THE SELECTION OF THE PARTY LAND TO THE WILLIAM TO THE SELECTION OF THE PARTY LAND TO THE WILLIAM TO THE SELECTION OF THE PARTY LAND TO THE WILLIAM TO THE SELECTION OF THE PARTY LAND TO THE WILLIAM TO THE SELECTION OF THE PARTY LAND TO THE WILLIAM TO THE SELECTION OF THE PARTY LAND TO THE WILLIAM TO THE SELECTION OF THE PARTY LAND TO THE WILLIAM TO THE or anded propositor if the found in which the emperation THE SERBOREL THE R HEES, THE PERSON STORY must influented number. With the exceptions, the insection if he discussed minutes in the leaders of the little of the litt NAME TO DESTRUCT OF THE PARTY O between my numiness u, the min, may menting to pa faring and the his purposes, in the election of the marrie. Micers, the simmiscration of the parpurate affects and I perty, and the returning if the members if parliament; the increase. We cannot reconcile with any reason; principles if minicipal invertiment. See the commerced !: the condition to which so great a number of the Irish porations have been thus reduced, the mhabitants exclude from participation in the election of the corporate attinties, or the management of the corporate affairs, and in whose power of social government vested in a non-resdett value power or some given manual vesses in a non-result today, exercising or neglecting it as suits the wishes or chremence of their patron. The indisence thus acquired came to be regarded as absolute property, and transmitted as part of the family inheritance: in some instances it was made the subject of pecuniary purchase; in some, as in "... case of Waterford, partitioned, by agreement, between actending interests: and when the legislative union between Great Britain and Ireland deprived many of the corporate towns, or rather their patrons or proprietors, of the pass of returning members to parliament, this species of perturn was formally recognized as a subject of nature compensation. The list of towns given by the Irish Carallel and the compensation of the compensation missioners, in which since that period the municipal porations have become extinct, shows at once the purpost to which their patrons looked in preserving their nominal constitution, and its inefficiency to secure the primary jects of a municipal establishment. Many of those what were then allowed the power of returning a member to the were men showed the power of returning a member to the imperial parliament, still retain a municipal corporation under the same system of patronage; which also presses in several of the other subsisting corporations, in which administration of property and the emoluments of office or important enough, in profit or influence, to make the retention an object of consideration.

As the endeavours of the government and legislature the United Kingdom to assimilate the municipal system. Ireland to the reformed practice of England, have hither been totally defeated by the persevering opposition of the hereditary branch of that legislature, we shall here exist into no detail of the particular schemes for its amelioral: proposed and carried in the representative chamber the imperial parliament. We have only to remark the imperial parliament. We have only to remark the imperial parliament in this perpetuation of the old corporation system in that very portion of the empended of the degree the most shocking to commente of the most wounding to liberal feeling, and the melensibly framed. We know, indeed, that the very particular for whose good the institutions in question were remainly framed. We know, indeed, that the very particular up the existing system as wholly indefensible; what are we to think of their proposal to remedy the by depriving so important an integral part of the king of all municipal institutions whatsoever? We have been do with the subject only so far as historical fact and political care concerned; and in this view it is that we called upon to point out the grave inconsistency of such while professing the most ardent desire to maintain parliamentary union of the two islands, would place English beyond St. George's Channel out of the paid

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in the Sapitals commonwealth, and beat of which, as appeared William Wilkins, Eq., the side-most heng sufficed with a lower shore shown the parliamentary opposition of the result of the parliamentary opposition of the parliamentary opposition of the parliament of the parliamental summers and the parliaments and

This millings, situated in Trumpington Street, formerly observed principally of one court, and an autiont chapel tall in 1578 at the expense of Sir Nicholas Baron. The Tappe however, being very anient, and falling capally us decay, was removed in the Gothar ergle from the de-

Master's History of the College, with Additions, by John Lamb, D.D., aton Canab. 1831; Eurob. Univ. Calcular En 1835.)

COUPUS CHRISTI COLLEGIE, Oxford, was founded in 1516, by Richard Fox, bishop of Windowster. The foundation was presided for or three years before by the purchase of certain proces of indi in Oxford, belonging to Merton College, the numery of Godotow, and the pracy of St. Pridewide; a null the first design was its found a college for a warden and a certain number of mordes and semilar scholars belonging to the Priory of St. Swithin in Windowster, in the mainers of Canterbury and Durham Colleges. The plan however was changed by the advice of Hogh Oldham, belong of Exeter, who is said to have turescent the fall of the morasteries, and whose arguments appear to have induced for to place his new foundation upon the potent footing of the other colleges for the sciences of divinity, philosophy, and arts, for a precident and thirty sciolars graduate and not graduate, more or less, according to the recenues of the sciences of divinity, philosophy, and arts, for a precident and thirty sciolars, graduate and not graduate, more or less, according to the recenues of the science, in a same degree, spain changed his plan.

The society at present consists of a president, twenty follows, twenty scholars, and two chaphams. The follows are elected from the scholars, and the latter from the following discoses and counties, vir. — four from the discose of Buth and Wells; two from the discose of Exeter; two from Lin collective, two from the discose of Exeter; two from Lin collective, one from the discose of Durham; and one upon Front's foundation. There are, leading, four calibrations in this sciency, was the appointment in it of two leasters from the discose of Exeter; two from Healing and two of Surray; two from the discose of Exeter; two from Lin collective, one from the discose of Durham; and one upon Front's foundation. There are, leading, four feeling than the chapte. Executed to this college, in addition to

The total number of benefices in the gift of this society, is twenty-two. The number of members on the books on December 31, 1835, was one hundred and thirty. The pre-sent president is Tho. Edw. Bridges, D.D., elected in 1823. The visitor is the bishop of Winchester.

Among the eminent and learned men who received their charaction in this college were Jewel, hishop of Salisbury, Nicholas Udall, Richard Hooker, Daniel Featley, Dr. Richard Pococke hishop of Meath, the learned orientalist Edmund Chishull, Fiddes the biographer of Wolsey, and Ansas the herald.

(Wood's Plist of the Coll, and Halls of Oxf. by Gutch; Chalmer's Hist, of the Colleges and Halls, 8vo. Oxf., 1810;

ORPUS JURIS CIVILIS. The term corpus juris therally a body of law) was introduced in the middle ages to signify a book which comprehends several collections of I'm. There are two principal collections to which that appearation is given, the Coppus Juris Civilis and the Corpus Juris Canonica. Curon Law.) The term Corpus Juris Coulis designates the book in which the different parts of the legislation of the Emperor Justinian are collected, and which being considered as one whole, contains the main bear of the Coul or Roman law. According to this defini-1 the Colon June Coolis consists of the compilations of the Colon Paulices or Digests. Institutes, and Novels. . I were made under the direction of the Emperor 1.2

I see that Lancil regarding each part of his legislation as a see act a concernor only made for the purpose of com-joring a trace coup latters, never thought of giving a country trace to mean all. Each part had its separate and a honorage name, we instance the Colex was so called because it was the book in which the Richard emperies could be a subsequently the Institute were securified. normal and the area and the first prior ples and rules of the as to the many ages, when the state of the Roman as began a beauth in the amount established another where it was the factor of the and position of the results as the and a second in the testion of the Royal divinities that the four Control Law Colleges with the four Control Law Colleges with a dealer of the Royal divinities professor a dealers of the analysis of the testion of the colleges with the colleges with the colleges of the colleges with the colleges win man begin in his tission of the Royal day of the The second secon

The second is a second of the The second secon The survey Fig. 1 on the survey of the A Figure 1 and 

of the 'Adoration,' by Rubens, presented to the college in 1804, by the late Sir Richard Worsley; it came from the collection of the Prince of Coulds, at Chantilly.

the books which contain the usages and customs of the collection of the Prince of Coulds, at Chantilly. feudal system, and which were joined to the Corpus Just by the Glossators; g. and, last of all, several Constitutions of the Emperor Frederic II. In several editions we fix in other appendages besides those here noticed.

The manuscripts of the Corpus Juris Civilis are numrous, but nearly all of them contain only a part of J ... tinian's legislation: manuscripts which contain the whole of law are very rare. The best MS. of the latter at Copenhagen. Of MSS. before the time of the Glossof. (professors of law, in the twelfth and thirteenth center : in the universities of Italy, especially in Bologna, we taught the Roman law, and explained the different proof the Corpus Juris), we have only one of the Pandects. celebrated Florentine manuscript, which was first at P. but was brought in 1406 to Florence; it probably be! ... to the sixth or seventh cenury, and some even suppose that it may be the original copy of the Pandects was sent by Justinian to the Western Empire. The manuscripts are of the twelfth, thirteenth, and four tecenturies, and contain the versio vulgata, or text as so by the Glossators according to older manuscripts. In M nich and Paris there are valuable manuscripts of versio vulgata of the Codex. As to the manuscripts Beck. Indicis Codicum et Editionum Juris Justini (1)-1 deconus, Lips., 1823. As to the manuscripts in Enthere is a valuable notice in the 5th vol. of the G. Magazine of Historical Jurisprudence

There are numerous editions of the Corpus Juris: it printed very soon after the invention of the art, but a conly separate parts were published. The oldest of that we know of is that of the Institutes, by Peter School in Mentz, of the year 1468. There is a copy of this convellum in the King's Labrary, British Museum. It is on veiling in the king's inprary, British Britishing in a small illumination of a presumed portrait of Justice, the inferpare. The larger capital letters through the look are illuminated, and some of them with g = i - 1 the year 1476 all the parts of the Corpus were printed a rately. The first existing which contained the while, is by Hernate, at Milan of the years 1483 and 1483, but of not under a general title, which as aiready ment-was first used by Russandus. Till the year 15th al. edit inswere printed with the glosses, but after that the closses were community omitted. The last edit in a glosses is of the year 162%. For a complete lost for editions see Rolk's Index. The best known edition the Corpus Juris is that of Dimyses Geologically the Corpus Juris several times with mores lost to the Corpus Juris several times with mores lost to the Corpus Juris several times with mores lost to the Corpus Juris several times with mores lost to the Corpus Juris several times with mores lost to the Corpus Juris several times with mores lost to the Corpus Juris Limit 1889. His chinary are the control to the Corpus Juris Franchist to the Mayn, 1881 to Corpus College Juris Franchist to the Corpus Juris Platfe Navigation (Corpus Juris Platfe Navigation).

Editors of the year 162% and the college of edit ins were printed with the glosses, but after that

CONSTRUCTO ANTONIO ALLEGRE or, as here! MENTION ANTIVAR ALLEGED, as not a series of the first or new or as a series of the first or new or a series of the first or new or a series of the new or and the first of the new first of the new first of the new first or and the first of the new first or and the first of the new first or new first new first or new first new fir will do any not increased. But they have only to the vi-The first of the about the second sec the transfer of the contract o The second secon

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integrables bession, for uniteres, Weigegree, the Alberg of the destroys, who everyone the sous, that 520 gold correct to the analyticality, mackage has granisms. Fourpoints the residence of the destroys, the pior wanter obstraints on the sous extraction of the destroys, the pior wanter obstraints, and the sous extractions of the sous extractions of the sous extractions of the south of the sous extractions of the south of the sound of the south of the sout

rection the principal streams flow. The chief rivers are, the Dordogne, which passes by the town of Bort, and bounds spartment on the south-east, until its junction with the river Ause; after which the Dordogne quits the boundary, and flows by Argental through the interior of the department, which it quits a little below the town of Beau-lica: the Verère, which rises in the northern part of the department, and flows south-west past Treignac, Uzerche, and Alassac; its junction with the Dordogne is after it quits the department: the Corrèze, which rises not far from the source of the Vezère, and flows south-west past the towns of Corrèze, Tulle, and Brive, a little below which it falls into the Vezère. These are the principal rivers, but not one of them is navigable within the confines of the department. Of the other streams an enumeration will suffice: the Soudenne, Bradascou, and Zoure, fall successively into the Vezère on the right bank; the Montanne falls into the Corrèze on the left bank; the Chavanoux (which forms for a short distance the eastern boundary of the department), the Dicge, the Trioussone, the Luze the Doustre, the Souvigne, and the Mounion, fall into the Dordogne on the right bank (but the junction of the latter is not within the department); the Marone and the Cère on the left: the Cère forms the boundary of the department on the south side for a short distance; its junction with the Dordogne is beyond the limits of this department. The Haute Verère, a tributary of the Isle, one of the principal of the Isle, one of the Isle, o cipal feeders of the Dordogne, has its source in this departent; but the chief part of its course is beyond it. high road from Paris by Limoges to Cahors, Montauban and Toulouse, passes through Uzerche, Donzenac, and Brive, in the western part of this department: a road from Clerment to Perigueux and Bordeaux crosses it from north-east to see the west, intersecting the former road at Brive. There are other roads from Uzerche to Tulle, and from Argentat on the Dordogne to Aurillac, in the department of Cantal: an other road just passes through the south-east extremity of the department at Bort on the Dordogne. The other mais me mere'v cross roads (routes départementales et vi-TREES. Prinars scarcely any other department is so wretchedly furnished with the means of intercourse and CHICATEVALICE

The sail of this department is on the whole the least fer-The If may if the French departments. In the hilly districts if the north barren beaths predominate; the population is Thin, and the aspect of the country wild. The lower grounds are netter cultivated, but the produce in grain, chiefly harren ree mai i nek-wheat, would not suffice to maintain the morning. were a not for the chestnut, which grows amunicant. A great part of the soil is occupied in pas-Times and at the spring many thousand head of cattle, Their name been farming during the winter, are sent to Purs in market. Burdenix and Bayonne are furnished with sair yers for singuing; and walnut oil is sent into many if the tenartments. Some pretty good wine is monumer, and moves and moves are reared. The peasome fire in a very wretened condition, as the following unsernment remove by Malie Bruz shows:—In his dwelling THE PERSONNELL OF THE REPRESENCES (IS Corrère) is wretchedly of the me men n company of his dwelling presents to ew missimmens, continued with dirt and misery. The grader part if the bloom bearing against a moist soil, and in a series bead must if the surrounding soil, are rewith the fire me famo which trackles from the walls or LIVING THE EDST TIPES ATTRIBED WITHOUT propriety, their It then have to sustain the call moust winds of winter, and The numeromeni and destructive beats of summer. smost a tient ire-mares, anable to escape by their ill-built "times theses it the room and the air, charged with the ritining valuar pulifiely affects the eyes; chronic command if it command maracter ensues, and often : muses But at mis ramful statement, that a filthy and merishing minute, the page is kept close to the house, often n a man we will have a nierably correct idea of the situa-The second ander his own took!

The monaturent is invoiced into the three sub-prefectures or are museum and if Used in the north-cast, population was an Time the carries on the Corress population is the waste or sood for the whole commune; Brive Bern, aim as the Courden, population 3776 for the town,

or 8031 for the whole commune [BRIFF, TULLE]; Ussel. Uzerche, Beaulieu, Argentat, Meymac, Donzenac, Treignar, Bort, Turenne, Alassac, Chamboulive, Lubersac, L'Arche. Corrèze, Meissac, Egletons, Neuvie, besides several smalier towns or bourgs. The department was divided at the pul-lication of the Dictionnaire Universel de la France. Prudhomme (1804), into twenty-nine cantons, or distrate of a justice of peace, and 295 communes, or parishes. It is in the diocese of Tulle, and under the jurisdiction of the

cour-royale of Limoges.

Ussel, the capital of a sub-prefecture, is on the river Sarsone and Diege above their junction. The road for Clermont to Tulle, Brive, and Perigueux, passes through this town. Some antiquities discovered by digging in a field in the neighbourhood indicate that Ussel is built a Usellis as the probable name. No such place is however mentioned by D'Anville. There is a bridge over the Sasone, distinguished by the boldness and elegance of construction. The inhabitants amounted (1832) to 22. for the town, or 3963 for the whole commune. They la. formerly the reputation of being skilled in the manufact. of paste diamonds. The present trade consists in huce, hemp, linen cloth, and wax: some woollen stuffs are made Granite of different kinds is found in the neighbourhood.

Uzerche is at the junction of the roads from Gueret al. partment of Creuse) and Tulle with the great road from Parto Toulouse: it is seventeen miles from Tulle. It is a mail antient town, and very picturesque. It is on the slope of a hill, at the foot of which flows the Vezère. The streets are not well laid out, but the houses are many of them turretted at. covered with slates, attesting the importance of their origin. proprietors. It was a proverb formerly, that the proprietors of a house in Uzerche had his country seat in Limous. The church, dedicated to St. Pierre (Peter), was former. attached to a monastery established in the fifth century, which it is likely the town owed its importance, if not .:origin. The present church was built at the beginning the fourteenth century, in place of the older one destruc-by fire. Pope Clement V., who rebuilt it, was internhere, but his tomb was destroyed by the Protestants: 1568. There were before the revolution three other paral churches. The inhabitants in 1832 were 2229 for the town or 3214 for the whole commune. There is a glass-house it Uzerche. A few miles from Uzerche is Pompadour, itcastle of which was given by Louis XV. to his mistress. Marchioness of Pompadour.

Beaulieu is on the right bank of the river Dordogne, just above where it quits the department. This town ower is origin to a Benedictine monastery founded in the nutl. century by Rodolph or Raoul de Turenne, Archbishop. Bourges. There were several religious establishments: Bourges. the town before the revolution: there is at present an be-pice, or almshouse. The population in 1832 was 2154:

the town, or 2415 for the whole commune.

Argentat is on the Dordogue, considerably above Beaseu. It is in the neighbourhood of coal and lead min. and the surrounding country produces tolerable wine. Topopulation in 1832 was 1880 for the town, or 3121 for the whole commune.

Meymac is in the hilly country, in the north of the 3. partment, near Ussel. The population in 1832 was 1: for the town, or 3130 for the whole commune. There coal in the neighbourhood, but we are not aware that it s worked. Donzenac is on the high road from Paris.
Toulouse, between Uzerche and Brive. There are size quarries near. Population in 1832, 1820 for the town part of the whole commune. Treignac is in the northeraper of the department, on the Vezère, in the upper part its course. Population in 1832, 1733 for the town, 25 for the whole commune. Bort on the Dordogne, in the part of the whole commune. eastern part of the department, was the birth-place of Mirmontel. It is in a pleasant situation, and near it is the picturesque fall of the little river Rue, called Le Sant de la Population in 1832, 1705 for the town, 2291 ::the whole commune. Tursue, a few miles south-cast: Brive, has a ruined castle on the summit of a steep resi There is a lofty tower of this castle 100 feet high yet standing, which is popularly called Cassar's tower. Turenne ing, which is popularly called Cassar's tower. Turenne are a population of 1600 persons: it was the capital of a vectounty held by the dukes of Bouillon, until it was sold. Louis XV. in 1738. Alassac is on the Verère; Chambellies is between Treignac and Uzerche; Lutereac on the

Haule (Upper) Verdra; T'Araba on the Verdra; Corress on the Corress, they are between Tureson and Beauton; and Polescan and Newton in the remains the through and Eventral and Newton in the remains the through and the population of the remains of Alexana, Chambenlity, and laterari, was (m. 6.57) 4510, 1000, and and respectively. Into an most the built place of General Screbnia, an officer all considerable mass under Nagalism.

The department of Correles south three manifers to the Couples of Department of Correles and three manifers to the Couples of Department (Marto Brun , Balta; Prodhemmen Des. Characteristic de la Promes.)

FORDINI, JOCH, a large lake in the county of Galway, the second in extent in Ireland, 1.3 feet above the we not cally a few within a miles. If a 22 miles my worth and ture from Lash Maria and Luck Carra, the dry a notice utilized of the second of the second set for above the barel of the sec. The mile area of those on The mile area of those on The second set for the other barel of the sec. The mile area and polyment is a first of the second set for the barel of the sec. The mile area and polyment is the barel of the sec. The second set for the barel of the sec. The second set for the barel of the sec. The second set for the barel of the sec. The second set for the second set for the second sec

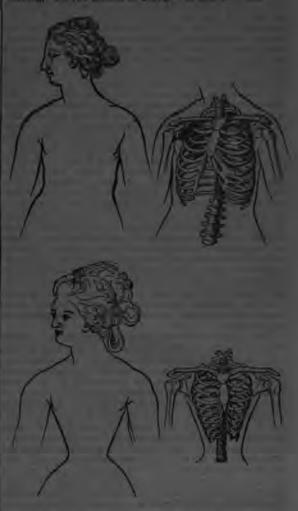
of a much larger draught. Luch Carrib obtae has 40 miles of necessary, end has unwarded for two waves of accellant land on its islands. (Report on Commune & Luker)

CORRITTOR, from the Italian coridone, signifies a grabery of passage—way leading to apartments independent of south clast. In all large louidings containing numerous accretionate continuous are necessary, either closed or open, allow continuous are necessary, either closed or open, allows are reinforced and the Lancellana as a few processors. CORRITTION OF BLOOD, [Attractional]

CORRITTION OF BLOOD, [Attractional ]

CORRITTION OF BLOOD, [Attraction

discusses communication as the most frequent and fidel. Most at the read object of all the painful and a known, copyrector in any maintain extrains. The figure of the famile those may be altered by it, but not improved. Incorport, who are the closest claserway or instance, and who transfer to fiber strained controlled to finite ere, have invariably often ample dimensions to the lower part of the object. The more therefore may formula, and of ministrary properlies, and the material properlies, and the ministrary properlies, and the ministrary properlies, and the material properlies and the material of the distance of the object. The complete of the distance of the object, taken from Professor Reservations. On the Offices of Street, with illustrate this.



(See Penny Magazine, vol. ii. p. 78.)

CORSIGN or CORSE, an island in the Mediterranean, situated between the island of Sardinia and the Geneses coast. It is now incorporated with France, and forms one of the departments of that morarchy. It is of irregular form, having its greatest length in a direction very nearly north and south. The eastern roast has no remarkable indomantons throughout its extent (which, following the seast line, is about 120 miles), except the small gulfs or harbours of Porta Vershio and Santa Morta, and the chang or take of Biguight; but the western old of the read is indented by many deep bays, as those of St. Florent at Forcare. Calvi, Pario. Segune, Ajasein, and Valinea. The island purrows towards its northern and southern extremities; in the north part it forms the pronountary of Cape Corse beyond the terms of St. Florent and Rasto. The greatest length of the abind is 116 miles; the greatest breadth about 51; and the area 3380 square miles. There were, it 1831, 197,967 inhabitants, of whom 100,839 were males. I thus between 41° 20° and 43° 8° N. latened 3° 32 and 3° 36° E. long. There are round Corsers accord small whends,

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as Girajlia and Finocchiarolo on the north; Capraja on the nealthy. Seneca, who was exiled here, speaks of it in a north-east; l'ile Rousse or Isola Rossa, Gargalo, and les Tles Sanguinaires (Bloody Islands), on the west; les Iles Cervicales and du Taureau (Bull Island) on the east; and Perdutto, Cavallo, Lavessi, Santa Maria, Berettini, and Budella, in the narrow straits of Bonifacio, which separate Corsica on the south from the island of Sardinia. There are some other islands, the names of which are not given in Brue's 'Map of France,' from which we have given the above particulars.

The island is covered by a group of mountains belonging to what some geographers have entitled the Sardo-Corsican System, from its extending through both Corsica and Sardinia. The Corsican group consists of the chain of Mount Caona in the south, of the mountains of La Cagnone in the centre, those of Frontogna in the north-west, and the chain of Le Titime in the north. This line, formed by the chains of highest elevation, is nearly parallel to the line of the western coast, but at some distance inland: to the north-east and to the east of this is a second range of lower height; and the branches which extend from these ridges so nearly overspread the whole island as to leave but little country which can be called plain. Several of the peaks are very lofty, and retain the snow during the greater part of the year: the principal are Monte Rotondo, south-west of Corte and nearly in the centre of the island, 9069 west or Corre and hearly in the centre of the island, 9009 feet high; Monte d'Ore, 8701 feet; Monte Paglia Orba, south-east of Calvi, 8695 feet; Punta della Capella, south-south-east of Monte Rotondo, 6723 feet; Monte de l'Incudine, south of the Punta della Capella, 6746 feet; Punta della Caiva, near Punta d'Incudine, 5135 feet; Punta d'Ovace, near harrie, 47 0 feet: and Monte Stello, north-west of Bastia, 4111 feet. On the summit of Monte Rotondo is a lake, the largest danger of which is about 1000 feet, the smaller there were then half that event. On the north side of the same applicant are several small takes, which are or, on these by the meeting of the surrounding snows:

term names are a rains for zero.

On the sides of these mountains rise a number of distance forming resulting maraness and forwing through and the streams unite, and coming come how my the sea. The rivers are the become the form in Finnia in the Delesani, the Tavigthe form of the language in the east coast; on the west coast on the form when there exist the gulf of St. Florent or home for the Regino; the Cecco and the France a whom how hat the gulf of Calvi; the Sponza; the same a near flow hat the gulf of Sagone; the Gravone and the France a which flow into the gulf of Ajaccio; and the Janavonna the Valmes, which flow into the gulf of Valmes, which flow into the gulf of Valmes. is an. None of these rivers is navigable: the longest are the Color about 46 miles; the Tavignano, about 43 miles; the Tauavo, about 31 miles; the Valinco, about 30 miles; and the Gravone and Liamone, about 25. On the eastern coast are some salt lakes or inlets of the sea, abounding with fish, as that of Biguglia, which is nearly 8 miles long.

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intersected by veins of serpentine, jasper, porphyry, and other stones. The granitic range extends from near the Districtor river to the strait of Bonifacio. To the eastwire of this, extending from Cape Corso to the south-east of the the mountains, which are less elevated than those of the grante range, consist of limestone, which occupies the further part of the range, and appears to rest upon the run terif a grey microcous schistus, the strata of the range emperatured singular contortions; and of sandarium the appears of the most part horizontal. where the wind of which are for the most part horizontal, and which which is comes of the debris of granite. A pure is the most grant Bonifacio in the to the second by limeto the transfer of the recent marine formation, which contain the two. would and smell-fish and other marine animals. It the that post and of Bonifacio these deposits rest on the grant and the rocks of similar formation on the for any me of mr. the which seems to have occupied both the man and wer parts of Corsica. This recent lime-

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The Encyclopédie Méthodique' contains a similar to mony to the insalubrity of the climate; but Boswell, with enthusiastic admiration of every thing connected with island has, however, diminished the value of his testim affirms that its insular situation renders it one of the " temperate countries in that part of Europe; that the a. 'fresh and healthful, except in one or two places, where is moist, and where the air, especially in summer, is cating and sickly.' The soil is, in many places, we fertile, and capable of producing many things for whe France has now to resort to distant colonies. But cultivities in warm healthful and the distant colonies. tion is very backward, and the disposition of the pass indolent and careless to an unusual degree. There large tracts of woodland in the interior, amounting 225,000 hectares, above 560,000 acres. There are forces of almost every kind, especially pines, oaks, chestnut-trees; the latter of prodigious size. The ilex evergreen oak is common, and the mountains are covered. with the arbutus or strawberry-tree. The timber wh the forests yield is excellent, and would be a source certain profit to the inhabitants, if brought down to coast; but so great is their apathy, that the felling transport of timber is left to the people of Lucca and Pa: who resort to the island in crowds every year, or to : agents of the French government, which procures here finest masts for the navy. The box-tree grows to a size. The cork oak is abundant, and the produce sering great quantity to Marseilles. Of fruit-trees, the lemon. orange, the fig, and the almond, are frequent; the point nate and the Indian fig grow to great perfection; but therefore walnut-trees, and the apples, pears, cherries, and place not good. The olive is found in a wild state; the dustry or skill of the inhabitants not sufficing even for simple operation of grafting. The vine is cultivat a some extent, but its culture is managed rather by Parmesans and Luccans than by the Corsicans thema! The wines are both red and white; that of Cape Com sembles Malaga, that of Faviani resembles Syracuse: wines are like Port. The mulberry was propagated by Marquis de Marbœuf, the first governor of the island it was ceded to France; it grows well, and it is not so in in danger from blights and thunder-storms as in Italthe south of France; but the greater part of those regated by M. de Marbouf have disappeared from new Wheat, rye, barley, and millet are produced, but oats; the inhabitants feed their horses on barley Chestnuts form an important article of food the peasants look to them, with the milk of their he as a sure subsistence. They resort in summer to woods and other uncultivated lands to obtain pasts for their cattle and chestnuts for their own subsister at these times they make little sheds for themeto lie under. Flax is grown in great quantity: a linen is made from it. Some tobacco is raised. M honey and wax are produced: the honey is bitter, a commemorated by the Roman poets.

The animals of Corsica are much the same as the surrounding countries: there are however no wolves few venomous animals. The horses are small, but rous; they resemble the Welsh ponies or the Hi! sheltes. The asses and mules are also small, but the black cattle are larger in proportion than the horse the beef is lean and tough; and the quantity of milk. Some cheese is made, but little butter; oil serving. Italy, for a substitute. Sheep and goats are unmerous mutton is excellent, but the wool is coarse and? Game is abundant: there is the deer, the muffolice. Game is abundant; there is the deer, the muffoli, and mal resembling the sheep in form, but with the hairy, and fine-grained like that of the deer, and the boar, which last the Corsicans are fond of hunting; :! are foxes, which are very destructive, and hares, but mobits. There are many kinds of birds; among them

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ns Girajlia and Finocchiarolo on the north; Capraja on the nealthy. Senoca, who was exiled nore, speaks of it in an north-east; l'ile Rousse or Isola Rossa, Gargalo, and les les Cerles anguinaires (Bloody Islands), on the west; les Iles Cerles Cerles and die Tourse (Bloody Islands), on the west; les Iles Cerles (Cerles and die Tourse (Bloody Islands)). vicales and du Taureau (Bull Island) on the east; and Perdutto, Cavallo, Lavessi, Santa Maria, Berettini, and Budella, in the narrow straits of Bonifacio, which separate Corsica on the south from the island of Sardinia. There are some other islands, the names of which are not given in Brue's 'Map of France,' from which we have given the above

The island is covered by a group of mountains belonging to what some geographers have entitled the Sardo-Corsican to what some geographers have entitled the Sardo-Corsican System, from its extending through both Corsica and Sardinia. The Corsican group consists of the chain of Mount Caona in the south, of the mountains of La Cagnone in the centre, those of Frontogna in the north-west, and the chain of Le Titime in the north. This line, formed by the chains of highest elegation in nearly smalled to the line chains of highest elevation, is nearly parallel to the line of the western coast, but at some distance inland: to the north-east and to the east of this is a second range of lower height; and the branches which extend from these ridges so nearly overspread the whole island as to leave but little country which can be called plain. Several of the peaks are very lofty, and retain the snow during the greater part of the year: the principal are Monte Rotondo, southwest of Corte and nearly in the centre of the island, 9069 feet high; Monte d'Ore, 8701 feét; Monte Paglia Orba, south-east of Calvi, 8695 feet; Punta della Capella, south-south-east of Mente Rotondo, 6723 feet; Monte de l'Incudine, south of the Punta della Capella, 6746 feet; Punta della Calva near Punta d'Incudine, 5138 feet; Punta d'Oyane near Calva, near Punta d'Incudine, 5138 feet; Punta d'Ovace, near Sartène, 4900 feet; and Monte Stello, north-west of Bastia, 4540 feet. On the summit of Monte Rotondo is a lake, the larger diameter of which is about 1000 feet, the smaller diameter more than half that extent. On the north side of the same mountain are several small lakes, which are replenished by the melting of the surrounding snows:

these lakes are always frozen.

On the sides of these mountains rise a number of streams, forming beautiful cascades, and flowing through valleys narrow, crooked, and of rapid descent: these valleys open into wider basins, in which the streams unite, and, forming rivers, flow into the sea. The rivers are the Bevinco, the Golo, the Fiumalta, the Dalesani, the Tavignano and the Fiumorbo, on the cast coast: on the west coast. nano, and the Fiumorbo, on the east coast; on the west coast are the Cigno, which flows into the gulf of St. Florent or Fiorenzo; the Dostriconi, and the Regino; the Cecco and the Ficarella, which flow into the gulf of Calvi; the Sponza; the Liamone, which flows into the gulf of Sagone; the Gravone and the Prunelli, which flow into the gulf of Ajaccio; and the Talavo and the Valinco, which flow into the gulf of Valinco. None of these rivers is navigable: the longest are the Golo, about 46 miles; the Tavignano, about 43 miles; the Talavo, about 31 miles; the Valinco, about 30 miles; and the Gravone and Liamone, about 25. On the eastern coast are some salt lakes or inlets of the sea, abounding with as that of Riginalia which is nearly 8 miles long. fish, as that of Biguglia, which is nearly 8 miles long.

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The climate of Corsica is generally described as un- eagle and the vulture.

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The 'Encyclopédie Méthodique' contains a similar teri-mony to the insalubrity of the climate; but Boswell, where enthusiastic admiration of every thing connected with the island has, however, diminished the value of his testiment. affirms that its insular situation renders it one of the m temperate countries in that part of Europe; that the air if resh and healthful, except in one or two places, where is moist, and where the air, especially in summer, is sufcating and sickly.' The soil is, in many places, we fertile, and capable of producing many things for who France has now to resort to distant colonies. But cultivation is near healthful. tion is very backward, and the disposition of the pen; 'indolent and careless to an unusual degree. There a large tracts of woodland in the interior, amounting the second with the arbutus or strawberry-tree. The timber wh the forests yield is excellent, and would be a source certain profit to the inhabitants, if brought down to coast; but so great is their apathy, that the felling transport of timber is left to the people of Lucca and Party the reserve to the island in course of the people of Lucca and Party the reserve to the island in course of the people of the peo who resort to the island in crowds every year, or to agents of the French government, which procures here in finest masts for the navy. The box-tree grows to a greater quantity to Marseilles. Of fruit-trees, the lemon. orange, the fig, and the almond, are frequent; the pomerante and the Indian fig grow to great perfection; but therefew walnut-trees, and the apples, pears, cherries, and place not good. The olive is found in a wild state; the dustry or skill of the inhabitants not sufficing even for simple operation of grafting. The vine is cultivated some extent, but its culture is managed rather by Parmesans and Luccans than by the Corsicans them all The wines are both red and white; that of Cape Corsembles Malaga, that of Faviani resembles Syracuse; wines are like Port. The mulberry was propagated by Marquis de Marbœuf, the first governor of the island it was ceded to France; it grows well, and it is not so n in danger from blights and thunder-storms as in Italy the south of France; but the greater part of those regated by M. de Marbœuf have disappeared from new Wheat, rye, barley, and millet are produced, but oats; the inhabitants feed their horses on barley stead. Chestnuts form an important article of food stead. Chestnuts form an important article of food; the peasants look to them, with the milk of their he as a sure subsistence. They resort in summer to woods and other uncultivated lands to obtain pastufor their cattle and chestnuts for their own subsiste at these times they make little sheds for themeto to lie under. Flax is grown in great quantity: a clinen is made from it. Some tobacco is raised. Money and wax are produced: the honey is bitter, a: commemorated by the Roman poets.

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The numeral productions module from of the best quality, but the value of the iron produced in 1834 was only 36,325 francs; lead, copper, and silver are not at present worked; there is also statuary marble, jaspeg, porphyry, granite, including the diorite or orbicular granite, of which handsome vases are made, limestone for building, tale, and asbestus. The coast yields black, white, and red coral; and there is abundance of fish, especially the tunny and the sardinic. sardinia. There are large beds of oysters, of which many are exported to Italy. The lakes and rivers yield fine trouts and eels. (Malte Brun; Encyclopédie Methodique; Boswell, Account of Corsica; Benson, Sketches of Corsica.),
There is no manufacture in the island carried on to such

an extent as to demand particular notice: some coarse woollens are woven, but finer woollens are imported; the nanufacture of coarse linen has been already noticed. Neither is the commerce of Corsica extensive; the inernal trade of the natives is carried on chiefly by barter: noney as the medium of traffic is used only in the towns: ents are paid in produce. Indeed the capabilities of the sland have not been developed; nor do the energies of the cople appear to have been called forth to any extent, except in the resistance which they made to the oppressive covernment of the Genoese. There are good harbours at Ajaccio, Calvi, Porto Vecchio, and Bonifacio, and a small me at St. Florent or Fiorenzo. The harbour of Bastia is idapted only for small vessels; Bastia is however the unsiest place in Corsica, and manufactures of soap, wax, and liqueurs are carried on. The island is wretchedly off or roads: there are only the following government roads: rom Bastia to St. Florent; from Bastia across the island hrough Corte to Ajaccio; and from the east coast to the woodland, for the transport of timber for the navy; and hese roads are of the third or lowest class. The other oads are merely bye roads; and all correspondence is con-

eyed by a messenger on foot guarded by soldiery, The Corsican is frugal, but his frugality produces little ther result than to reconcile him to the privations which nis indolence obliges him to suffer. The peasant labours ittle; the listlessness of the hardsman's employment seems referable to a calling which would render more exertion accessary; and of such labour as there is the burden is hrown upon the women. 'The Corsican wife,' says Mr. Benson, 'is little more than the slave and drudge of her aughty master. He rides on his mule while she paces along it his side. To the cultivation of the plot of ground that surrounds his hut the wife has to attend, while he smokes us pipe beneath the shady chestnut, or roams about the nountains with his gun and his dog. But with this lreadful disparity of condition between the husband and vife, the latter is seldom cruelly treated, and infidelity to he marriage contract is very rare. Children do not meet vith equal attention from their parents; the sons engrossng nearly all the little property possessed by the family, whilst a daughter has nothing to look forward to in leaving he house of her father but to become the slave of her iusband. One predominant characteristic of the islanders s the spirit of jealousy and revenge which divides the in-abitants of most of the villages of the interior into hostile parties or tribes. The love of personal independence makes he Corsican prefer to be the executioner of vengeance for nis own wrongs, and assassination is of frequent occur-ence. Robbery is also common, the central part of the sland being-infested with brigands; and the freedom with vhich they mingle in private society testifies at once the nefficiency of the police and the low state of moral feeling n the community. Gendarmerie and troops are posted in etachments over the island, for the purpose of preventing leese outrages. Against the gendarmerie the Corsican andits wage perpetual war; yet with their lawless occupaion the brigands sometimes unite a courteous demeanour, nd considerable moral feeling, however partial or mis-Rape and false witness are common crimes mong the lowest class; but the spirit of revenge pervades il classes, even the wealthy and more educated: Perhaps he state of Corsica cannot be better illustrated than by aying that, except with respect to the crimes of rape and alse witness, it is similar to the state of the Highlands of scotland a century ago. It should in justice be added that he Corsicans are anxious for instruction; the gentleman who rad the direction of public instruction could traverse the isle n.perfect safety. The French government, even under Na-oléon, himself a Corsican, seems to have done little for

the substantial improvement of the inhabitants. Some institutions exist in the towns for the advancement of lite. rature or science or the arts; but there is little to improve the moral condition or promote the physical comfort of the, bulk of the people. The dress of the peasantry of the interior is simple: it consists, for the men, of a short jacket, breeches, and gaiters, all of chocolate coloured cloth; a next, pointed black velvet cap, or a coarse woven cap of the same colour as the rest of their dress, with perhaps a sort of cowl which goes over the head, or is allowed to hang at the back, of the neck. They generally carry a loaded musket, and have commonly a stiletto concealed about them, though, this is prohibited by the French authorities. There are few peculiarities in the dress of the women: those in the neighbourhood of Ajaccio frequently wear a large round straw hat, the rest of their dress being little more than a shift reaching just below the knee: those near Bastia have the head covered with a sort of veil, like the Italian

peasantry,
The villages are chiefly built on eminences: the houses are mere huts of four walls covered with a rude roof, and many of them have only one opening, serving for door, window, and chimney. Some are built of unwrought stone, and have a second story, the ascent to which is not by a stair-case, but by a ladder, as in an English hay-loft. The fire, when one is lighted, is in the centre of the room. The furniture consists of stools, benches, and tables of the rudest construction. They use a pine stick for a flambeau or candle. These particulars apply only to the villages of the

interior.

The religion is Roman Catholic. The fête-days of the patron saints of the villages are respectively observed with great devotion; a vary imposing religious festival is ob-served in Rogation week in most of the villages. At the saints' festivals the Corsicans arrange the marriage of their daughters, and other family matters, and talk over the politics of the village or of the island. They are inquisitive, and readily enter into conversation with strangers, asking questions of them as to their business, and sometimes inquiring about the general politics of Europe.

The island constitutes the diocese of Ajaccio, the bishop

of which is a suffragan of the archbishop of Aix, Arles, and Vienne: it is subject to the jurisdiction of a Cour Royale which sits at Bastia; but the power of the law is very imperfect. It forms the seventeenth military division, of which Bastia is the head quarters. Corsica sends two members to the Chamber of Deputies.

There are five arrondissements, or sub-prefectures. Bastia in the north and north-east, population in 1831, 60,209; Calvi, in the north-west, population, 20,441; Ajaccio, in the west, population 45,235; Corte, in the east, population 47,838; and Sartène in the south, population 24,244. The arrondissements of Ajaccio and Corte extend into the cantre of the island, which is divided between them, the common boundary being the range of the granite mountains. The local revenues in 1833 were 235,571 francs, and the expences 176,637 francs.

Upon the first division of France into departments, Bastia was the capital of Corsica; and Bastia, Oletta, He-Rousse, or Isola Rossa, La Porta d'Ampugnani, Corté, Cervione, Ajaccio, Vico, and Tallano, were the chief places of arrondissements, or districts. Subsequently the island was divided into the two departments of Gole in the north, capital Bastia, and Calvi and Corte, capitals of arrondissements; and Liamone in the south, capital Ajaccio, and Vico and Sartène, chief places of arrondissements. Upon the reunion of these departments Ajaccio became the capital, perhaps by the favour of Napoléon, whose birth-place it was.

Ajaccio is the capital of the department, and the seat of the bishop's see: it is on the gulf of Ajaccio on the west side of the island; population in 1832, 8929, for the tewn, or 9531 for the whole commune. Bastia, on the north-east side of the island, is the seat of the Cour Royale, and the head quarters of the military division: population in 1832

9531. [AJACCIO. BASTIA.]
Corté; the capital of an arrendissement, and, during the short period of Corsican independence the seat of the native government and legislature, is on the road from Bastia to Ajaccio, and nearly in the centre of the island. It is partly at the foot, partly on the declivity, of a precipitous mountain, which is crowned by a castle or citadel. This rock is of green micaceous schistus, and rises in the midst of a valley which is surrounded by primitive (granite) mountains. The

Thrograms and so to house, the Restours, run near the town and under a short distance below it. The citabel is strong by its present, with one winding path up to it; the streets of the new are seep, and there are but he really good

During the period of its hormhouse there was a universilts been estatusated by Pacit: but it appears to be no larger in existence. It is mentioned however in the 'Dic-torizative Universel de la France,' by Prudhoume, published in 1864. We are not aware whether anything had been done in consequence of the begannes left by General Poli for the instruction of his countrymen, and which it was invended to appropriate to the franchistica of a college neur Corre. The trade of Corté consists only in agricultural produce: indeed its situation in the modst of mountains and far from the coast, without any advantage or opportunity of inland mangazine, preclude the extension of commerce: though Boswell's enthususm led him con-Edently to premiunce that it would 'undoubtedly be one day a city of eminence.' The population in 1832 was

Calvi is on a small peninsula projecting into the gulf of alvi, which is on the north-west sale of the island. It is **Carri, which is in the c** a small news, defended by a forcess; but the harbour or road a canable of holding a consolerable fleet. The popul hatten by the return previous to that of 1832 (we believe made in 1829, was 1,73 for the commune.

Surfère is in the south part of the shand, a few miles in land from the rail of Val now and about two or three males from the left or south bank of the over Valinco. The population in 1882 was 1713 for the town, or 2713 for the while himmane.

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deserves notice, as indicating one of the chief products of the island at that time. The Romans founded two colonies, both on the east coast: Mariana, at the mouth of the Group founded by Marian, and Aleria, at the mouth of the Taystonia gnano, by the Dictator Sylls. The Romans used the inlant as a place of banishment. Seneca was sent to it as an exile. On the downfall of the Reman empire Corsica came into the hands of the Vandals, and subsequently of the Goths; but the successes of Belisarius forced them to abandon the island, which was then included in the exarchate of Ravenna, a dependency of the Eastern Empire Early in the eighth century, the Saracens, then masters Spain, possessed themselves of Corsica; but the decline their power and the attacks of the kings of France and Aragon, and ultimately of the Pope, led them to abanda the island, which became the subject of contents n between the papal see and the maritime republics of Pisa at . Genera

The Genese, who at length crushed the maritime power of Pisa, and succeeded in pussessing themselves of Corsa a governed it with a rod of iron for several centuries. If 1553 the French, under the Marquis de Thermes, assiste. by some malcontent Corneans, and supported by a considerable Turkish fleet, attempted to conquer the island and met at first with great success, subduing all the ... except Bastia and Calvi ; but the Genome, under the command of the veteran Andrew Dura, and supported by the em-peror Charles V., at length recovered the mand; and th they had by treaty granted many immunities and privilegeto the natives, they soon resumed their oppressive color of government. A revok soon took place (in. 1564) unlike Samplero de Bastellea or Ornama, who had instigated to French in their attempt to wrest the island from the Gonoese: but he was assessmared in 1567, and the rev to quelled shortly after. The appressions of the Genoese is came after this greater and more systematic. Commerrestructions imposed by them, theoked the development the resources if the island; while the internal one of the minuters thouselves, which led to continual assume stooms presented their anithal for the common good: ". legal authorities converted these assessmentions and the arriances and grounds for maiscanae, or exacted in ... sums as the trace of the offender's escape. In 1674 Genese seried here a minny of Mannote Greeks, who fiel from the incressions if their Turksh conquerors: ti-bescendants sail equations at or near America. Bern . . these settlers and the number great was comes and fo anset and when the shand at last remined, the Gen exhund in these Greeks their stainedest supporters.

In 1729 the long-smothered inscendent broke out. A collector secred some if the goods if a poor woman of ". village of Bosto, near Corse, for the amount of taxes of from der, amounting to about five-pence Brefish remonstrances of the neuribours frew forth threats & .. the collector, and they, arrested by his conduct, draws have twin with streets. The Gennese sent troops to qualities commons, and the narves assembled to repel them. Ashir pecture construction into the merces placement at the head three of their countrymen, Amires Cecenici, a r and extend something the rest to the course minus connexion, and Domenica Raffielt, an ecclesies. necessed themselves of the next of Botta though to unled in their attempt in the castle. The Genness trace ing me subtrue the leave less by their own faces alone. iming mess mentioned moded in the empire Cristian. VI. who was that it is a multiplied direct. Wh rever nacietate, the then they amy under the Pr of W rembers can till a women compedied the when the n around about steller the observation of which the em very guaranteed. The three chiefs with another Core if now, went to begins as institutes, and the Gennese w more put them to desira with the emperor's consent, but the in acceptance is the Prime if W reinberg and Primere if Savie The Genouse volumed the terms. In the title court in the course the court in the Court of the court in the Court of the court in the Court of the c

ACCURATE THE PRODUCT OF STATES AND THE PRODU

This victory enabled Gortes to subdue some of the Real the little was such making at known his inten-The state of the state of his state of his state of his state of his state of the s a \_\_\_\_ in the intuitions easters, in order to to the first some of which the wholes which words to the first them will more Cortes dismark and standards in the field and ingreen and the harve

instead of the infect is the lives and the factor.

In the state is the armin it inher the institutive of canonical the state of the ground, as the lives in the ground, as the main that it is the infect in the ground, as the main that it is the infect in the capital, as the fact in the limit of the lives in the capital, as the main of the infect in the limit of the infect in the i In mass of the experience were in this readness to the last mainty with this to prevent all further artificial and the conquest to the conques de de direttida. Ata se das radio de partires. Cordes, moreover, The last of the last was will were impatient of the Mexi-tion to the last will Zemp and impliced his assist-mental interpretation with provisions and 200 Indians to the first and are all a series in a country where time a last very manual. On arriving at the conat . . . a x 1 s see Eng the franciscop of the Mexicans, e جند من سالت المانية على المانية على المانية على المانية الم to a it designment the configurates. With this reinforcement to rearrange of the Cholulans, who, to be the same of his new auxiliaries, refused which he is the ball of the Chelula. However, in time furmed a plot against them. Come with faint treathery, destroyed 6000 of them Y in the loss of a single soldier. The perplexity of the Manager of the in-The edit with were now regarded as those descendants of the sea destined by prophetic tradition to come from the 1519, they were received at Tenochtitlan, L. Merran experient an Toules, or divinities. Soon after, havener, at are I was made by the natives, acting under was carried to the might the country up to the court, to a spring the landscriping of the Spaniards. Cortes, on 2 :- a : a : s.r., carried off the emperor Muteczuma, or Marie 12 and to next, larters, although he asserted his innoand a first to the ner up the chief aggressor. But Corthe commentary are the war of this officer and five officers there, there the the burnt alive in front of the imperial doms into which Spain was divided till the time of Fe.

a the previous of the weapons which were kept in and and Isabella. The cortes of Gastile and Leon those of Aragon were the principal. Considerable observations of the state of the sta reaches a tractar, assumed the tone of a

Mexico, when the danger of Mexico, when the danger A restand, is ships with 50 horsemen, and 12 pieces of artiflery, de Nariaez by Velasquez arg fre h courae from his possibled Montezana Leaving him and the form of the courae from in the form of the possible from the form of the former and a competite conflict, . . . . . sea gorate conflict.

again six months after his retreat, and to retake it the 1?11. August, 1521, after seventy-five days of fierce an laudaily fighting. The natives once more reduced to despair again, and again they yielded to superior discipline, thous on no occasion did native Americans so bravely of Buropean troops. Thus a daring adventurer, regarded treated by his countrymen as a rebel, after a birestruggle, gained possession of a country which for the than three centuries formed one of the brightest genus the Castilian crown. The atrocities of Gortes have in the subject of much declamation, but he was a soldier profession, and while the Inquisition burnt. Jews and P:-testants in Spain, he could learn from his chaplants: other or better means of converting heathers than by and the sword.

Indignant at the ingratitude of Charles V., who listers. to his enemies, Cortes returned to Spain in 1328 to face accusers. He was received with much respect, and and Marquis of the rich valle de Qajaça, but in 1530 he! return to Mexico divested of civil power.

Being anxious, after his military exploits, to extend fame by maritime discovery, particularly in the opening a passage from the Atlantic to the Pacific, he fitted his own expense different expeditions, one of, which d vered California in 1535, and he himself coasted next .... both sides of the gulf of that name, then called the Sca-Cartes. He returned to Spain in 1540, when he was ceived by Charles V. with cold civility, and by his maters with insolent neglect. He accompanied however prince in 1541 as a volunteer in the disastrous, expedi to Algiers, and his advice, had it been listened to, when have saved the Spanish arms from disgrace, and deliver-Europe three centuries earlier from maritime barbar. Envied and ill requited by the court, Cortes withdraw t. t, leaving sycophants and detractors to resp the fraishis labours and his genius. He died however in att... ictory of Otumba-and his magnanimity in the sand Mexico, are deeds almost unparalleled, and more ... romance than reality.

Robertson has estimated the character of Cortes at le : as highly as his own countrymen Bernal Diaz del Cast. . . Gomara, Herrera, Solis, Lorenzana (who published. 1770, a History of New Spain, founded on the only writing of Cortes, which consist of four letters to Charles V.). Trucba

CO'RTES, the name of the assembly of representation of the Spanish nation. These assemblies have been v ously anstituted in different ages, and in the different k... the training and when cortes led his earliest national assemblies under the Visigothic kings. It is the practical and people rose in taries of the church, and were called councils. After the training to the start the provocation, the ciding all questions of church discipline, they concern the start to expel the Saniards, and themselves with temporal affairs, and in this start. discussion the lay lords or barons took an active part, ... the king presented his requests. In the acts of the coulof Leon, Am. 1020, ch. vi., the transition from ecclesias: to temporal affairs is clearly pointed out:- Judicato ecclesia judicio, adeptaque justitia, agatur causa redeinde populorum. In the acts of the council of it. definite populorum. In the acts of the council of it. 1003, we find that several points of discipline were reform. with the consent of the nobles and prelates; and the sanatures are those of the king, the infantes, nine bain three abbots, and three magnates; but it is added in a total that all the other magnates had subscribed to the sacts. It is now generally acknowledged, that in that it and down to the end of the twelfth century, there was in popular representation from the towns or commons of C. tile and Leon in these assemblies. (Marina, Teorsa de Cortes; Sempere, Histoire des Cortes; Dunham, Hand of Sycin and Bortugal.) The people are said to have constituted and the manifest of the council attended these national councils on some sole in the people of the second of the council held at Toledo in 1135, but university of the council held at Toledo in 1135, but university to the council held at Toledo in 1135, but

as spectators and witnesses, to see, to hear, and to praise God. By degrees, as the towns rose into importance, and obtained local fueros, or charters, from the kings for their own security, or formed themselves into fraternities for their mutual protection against the Moors or against the violence of their own nobles, some of them obtained at last the privilege of sending deputies to the national councils, which were now styled cortes, because, according to some etymologists, they were held at the place where the king had his court. The cortes held at Salamanca by Ferdinard II., in 1178, consisted only of the nobility and clergy; but at the cortes of Leon, A.D. '1188, we first hear that there were present deputies 'of towns chosen by lot;' and in the same year the cortes of Castile assembled at Burgos, where deputies from about fifty towns or villages, the names of which are mentioned, were present. How these places came to obtain this privilege is not known, although it is probable that it was by the king's writ or by charter. The cortes were henceforth composed of three estamentos or states, clergy, lords, and procuradores, or deputies from the enfranchised towns, forming together one chamber, but voting as separate states. It was a standing rule that general laws must have in their favour the majority of each estamento. This was the principle of the cortes of the united kingdom of Castile and Leon. The same principle existed in the kingdom of Aragon; only there the cortes were composed of four brazes or states, namely, the prelates, including the commanders of the military orders, the ricos hombres, or barons, the infanzones, or caballeros, who held their estates of the great barons, and lastly, the universidades, or deputies of the royal towns. These last are first mentioned at the cortes of Monzon, in 1131. The towns and boroughs in Aragon which returned deputies were thirty-one; but the number of deputies returned by each is not defined by the historians, any more than those for the cortes of Castile. We find the same town returning sometimes a greater, sometimes a smaller number, and at other times none at all, and a small town or village sending more deputies than a large one; while many considerable towns never returned any, independently of the seignorial towns, which of course had no representative privilege. How all this was made to agree with the manner of voting, in order to ascertain the opinion of the majority, is not clearly stated. Under the head Anagon the reader will find an account of the peculiar institutions of that kingdom, which have been much extolled by some writers, and which appear to have been better defined than those of Castile, as the Aragonese, with the exception of the peasant serfs of the nobility, certainly enjoyed a greater share of individual liberty than the rest of the Peninsula.

In Castile, from the end of the thirteenth century, the copular estamento made rapid strides towards increasing popular estamento made rapid striues towards including its influence, being favoured in this by some kings or pretenders to the crown, such as Sancho IV. and Enrique II., or taking advantage of disputed successions and stormy minorities, to obtain from one of the contending parties an extension of their privileges. In 1295 the deputies of thirty-two towns and boroughs of Castile and Leon assembled at Valladolid, and entered into a confederacy to defend their mutual rights against both the crown and the nobles. Among many other resolutions, one was, that each of the thirty-two constituencies should send two deputies every place, in order to enforce the observance of their stipula tions. In 1315, during the frightful confusion which at-tended the minority of Alonso XI., we find another con-federacy between the nobles and the procuradores of 100 communities, with a similar clause as to deputies meeting once or twice every year. These meetings of deputies for special purposes ought not to be confounded with the genespecial purposes origin not to be contounded with the general cortes of the kingdom, which were always convoked by the king, though at no fixed times. Enrique II, having revolted against his brother Pedro the Cruel, courted the support of the municipal towns, which at the cortes of 1367 demanded the admission de jure of twelve deputies into the royal council, which had till then consisted of head the restriction of the cortes of the confidence of the confide hereditary nobles and prelates, with occasionally some civilian called in by the king. Enrique promised to comply with their request; but his brother's death having insured his seat on the throne, he evaded the fulfilment of his promise by creating an Audiencia real, or high court of appeal, consisting of prelates and civilians, and a criminal court of complaints, and, in the cortes of Ocana, 1422, he proposed cight alcaldes, chosen from different provinces of the kingdom. Juan 4, who succeeded him, after the loss of the court of the royal treasury, a proposal which was willingly

battle of Aljubarrola, created a new council in 1385, con' sisting of four bishops, four nobles, and four citizens, with extensive executive powers. The towns next solicited the dismissal of the bishops and nobles from the council, in order that it should consist entirely of citizens; but Juan rejected the demand. They also contrived at times to exclude the privileged orders from the cortes. Marina says that the privileged orders themselves having lost much of that the privileged orders themselves having lost much or their influence, abstained from attending the cortes; yet it is certain that although money might be voted without them, for the simple reason that they were exempt from taxation, the third estate alone paying all direct taxes, yet nothing else of importance could be decided without their concurrence. Although members of the privileged orders should not attend, they might be represented by proxy, as was the case in Aragon. Besides, the cortes were not all of one sort; there were general or solemn cortes, and especial cortes for some particular purpose. Juan appointed by his testament six prelates and nobles as guardians of his infant son Enrique III., who were not, however, to dehis mant son Enrique III., who were not, however, to decide in any important affair without the concurrence of six deputies, one from each of the cities of Burgos, Toledo, Leon, Seville, Cordova, and Murcia. 'The fourteenth century seems to have been the brightest period of popular or more properly municipal representation in Spain. The cortes were frequent, and the subject of their deliberations of the most important nature. But Spain had never a definite representation; to no meeting of this period did a definite representation; to no meeting of this period did all or half the great towns send deputies; and those which did return them appear to have observed little proportion in the numbers. There can be no doubt that two should be returned from each; yet in the cortes of Madrid, in 1390, we find that Burgos and Salamanca sent eight each, while the more important cities of Seville and Cordova sent only three; Cadiz only two; Oviedo and Badajoz one; Santiago, Orense, Mondonedo, and other great cities of Galicia sent none at all. In fact, only forty-eight places returned deputies to these cortes, and the number, at the most, was inconsiderable. Incidentally, we learn that in the assemblies of this period the archbishop of Toledo spoke for the ecclesiastical state, and the chief of the house of Lara for the nobles. Some of the deputies contended for the precedence in voting, as well as for that of seats. This rivalry was more conspicuous between Burgos and Toledo, until Alonso XI. found the means to appease it. deputies of Toledo," said the monarch in the midst of the assembly, "will do whatever I order them, and in their name, I say, let those of Burgos speak." The municipal name, I say, let those of Burgos speak." corporations could boast of something more than the honour of returning deputies, an honour to which many of them were perfectly indifferent. Their condition was far superior to that of the seignorial towns, which, for the most part, groaned under the oppressions of the nobles.' (Dun-ham, *History of Spain and Portugal*, b. iii. sect. 3,

The remonstrances or petitions of the general cortes to the king generally began as follows:—'The prelates, lords, and caballeros of the kingdoms of Castile and Leon, in the name of the three estates of the kingdom,' &c. Remonstrances from the deputies of the towns began:—'Most high and powerful prince! your very humble vassals, sub-jects, and servants, the deputies of the towns and boroughs

jects, and servants, the deputies of the towns and boroughs of your kingdoms, who are assembled in your presence by your order, &c. (Cortes of Valladolid, June, 1420.)

In the cortes of 1402, Enrique III. demanded for his wars with the Moors a supply of 60,000,000 of maravedis, but the deputies granted only 45,000,000. The king then proposed that if the money should be found insufficient, he might be allowed to raise the deficiency by a loan without convoking the cortes afresh for the purpose. To this the majority of the deputies assented. By his testament Enrique excluded the citizens from the Council of Regency during the minority of his son Juan II., and after this they were no longer admitted into the royal council. Thus the munino longer admitted into the royal council. I has the municipal towns lost a great advantage they had gained 30 years before under Juan I. They soon after sacrificed, of their own accord, their elective franchises. The expenses of the deputies to the cortes had been till then defrayed by the towns, but now having lost their influence at court by their exclusion from the royal council, the towns began to com-plain of the burthen. Juan II. listened attentively to their

Accordingly, in the next cortes, 12 cities only, accepted. Burgos, Toledo, Leon, Zamora, Seville, Cordova, Murcia, Jaen, Segovia, Avila, Salamanca, and Cuença, were summoned to send their deputation; some other towns were in-formed that they might entrust their powers to any deputy from the above. The privilege was subsequently extended to six more cities: Valladolid, Toro, Soria, Madrid, Guadalaxara, and Granada. These 18 places constituted henceforth the whole representation of the kingdoms of Castile, Leon, Galicia, and Andalusia. The other communities at last per-ceiving the advantage they had lost, petitioned to be restored to their right, but found themselves strenuously op-posed by the 16 privileged towns. The influence of the court was openly exercised in the elections of these towns, and although the cortes of Valladolid in 1442, and those of Cordova in 1445, requested the king to abstain from such interference, yet the practice became more barefaced than ever. In 1457 Enrique IV. wrote to the municipal council of Seville, pointing out two individuals fit to be deputies in the next session, and requesting they might be elected. The municipal councils, which elected their own officers as well as the deputies to the cortes, were composed of all the heads of families, but by degrees the crown interfered in the appointment of the municipal officers. AYUNTA

Thus long before Charles I. (the emperor Charles V.), who has been generally accused of having destroyed the liberties of Spain, the popular branch of the representation was already reduced to a shadow, for the deputies of the 18 cities, elected by court influence, were mere registrars of the royal decrees, and ready voters of the supplies demanded of them. Under Ferdinand and Isabella the royal authority became more extended and firmly established by the subjection of the privileged orders; the turbulent nobles were attacked in their castles, which were razed by hundreds, and the Santa Hermandad hunted the proprietors throughout the country. Many of the grants by former kings were revoked and the proud feudatorics were tamed into submissive

Charles only finished the work by excluding the privileged orders from the cortes altogether, he and his successors contenting themselves with convoking the deputies of the 18 royal cities of the crown of Castile on certain solemn occasions, to register their decrees, to acknowledge the prince of Asturias as heir apparent to the throne, to swear allegiance to a new sovereign, &c. The policy of ab-solutism has been the same in all countries of Europe, using the popular power against the aristocracy, in order to reduce and destroy both in the end.

In Aragon, Valencia, and Catalonia, which formed the dominions of the crown of Aragon, the cortes of each o these three states continued to assemble under Charles I. and his successors of the Austrian dynasty, who convoked them in their accustomed manner by brazos or orders, and they maintained some show of independence, although in reality much reduced in importance, after Philip II. had abolished the office of the Justiza. [Aragon.] But, after the War of the Succession, Philip V. of Bourbon formally about lished the cortes of these states by right of conquest, as he expressed it because they had taken part with his rival the Archduke Charles.

When, in 1506, the Spanish people rose in every province against the invasion of Napoleon, the king was a prisoner in France after having been obliged by threats to abilicate the crown, and the nation found itself without a government. Municipal juntas were formed in every province, consisting of deputies taken from the various orders or classes of society, nobles, clergymen, proprietors, mer-chants, &c. These juntas sent deputies to form a central junta, with executive powers for the general affairs of the country but a legislature was still wanting. The central junta was called upon to assemble the cortes for all Spain. They at first thought of reviving the antient cortes by estaments or brazos, but many difficulties presented themselves. The difference of formation between the old cortes of Aragon and those of Castile; the difficulty of applying those forms to the American possessions of Spain, which were now, for the first time, admitted to equal rights with the mother country, but where the same elements of somety did n . exist at least not in the same proportion; the definally even in Spain of concert up a legitimate representation of the serious orders, whose must of the provinces were occupied oversum by French armies, and wine many of the holosomers. and the inguer clergy had acknowledged the intresse

king Joseph Napoleon; all these, added to the altered \$ to !! of public opinion, to the long discontinuance of the cortes by orders or states, to the diminished influence of :: old nobility, and the creation of a new nobility during u:: latter reigns merely through court favour, made the order nal plan appear impracticable. The situation of the country was in fact without a parallel in history. The central junta consulted the consejo (reunido) or commission of ne gistrates, from the old higher courts of the monarchy, was proposed to assemble deputies of the various brazos or mentos, all to form one house, a proposal extremely vau-and apparently impracticable, which looks as if made elude the question. Jovellanos and others then properties two houses, constituted as in England; but this would as have been a new creation without precedent in Spain, surrounded by many difficulties, the state of society being greatly different in the two countries. Meantime the central junta being driven away by the French, first from Madrid, and afterwards from Seville in January, 1810, to s refuge at Cadiz, which became the capital of the Span:patriots, whither a number of persons from the various privinces and classes had flocked. Before leaving Seville, the central junta issued regulations addressed to the province. juntas about the manner of electing the deputies to the cortes, stating at the end that 'similar letters of convocations. tion would be addressed to the representatives of the ecc. siastical braze and of the nobility.' This, however, was never done.

The central junta soon after arriving at Cadiz resigned its powers into the hands of a council of regency composition. of five individuals, but before its resignation it issued a decree approving of the plan of Jovellanos for two chambers and recommending it to the regency. The regency has ever paid little attention to this recommendation; it seems to hesitate during several months about convoking cortes at all, for there was at Cadiz a party of pure ab-lutists opposed to any representation whatever. The : gency again consulted the consejo reunido, the majority ! which, departing from its former opinion, gave up the ilof cortes by estamentos, and proposed the election of depties without distinction of classes. The council of state ing likewise consulted by the regency, decided that, ow to the actual state of affairs, it was best to elect the depties of the dep ties without estamentos, reserving to the 'representatives: the nation once assembled to decide whether the corre should be divided by brazos or into two chambers, af: listening to the claims of the nobility and clergy.' I. regency at length issued letters of convocation for t. deputies of all the provinces to assemble in cortes at t. Isla de Leon on the 24th September, 1810. The electrical for those provinces which were entirely occupied by it French, were made at Cadiz by electoral juntas, composion individuals of those provinces who had taken refuge them. A similar process was adopted with regard to the America. provinces. (Arguelles, Examen historico de la Rejectionalità Constitucional; Jovellanos, Memoria a sus Compatruta with appendix and notes to the same.)

The cortes, styled 'extraordinary,' sat at Cadiz fruit

September, 1810, till September, 1813. During this til. amidst numerous enactments which they passed, the framed a totally new constitution for Spain, which is become known by the name of 'the Constitution of 15.12 the year in which it was proclaimed. This constitution established the representative system with a single pullar chamber, elected in a numerical proportion of deputy for every 70,000 individuals. The elections are deputy for every 70,000 individuals. The elections are direct, but by means of electoral juntas or colleges, as France: assembled citizens of every parish appears by open written votes, a certain number of delegation who choose, by conference among themselves, one more parish electors, in proportion to the population and the parish electors, of every district, assemble to the rat the head town or village of the same, and the proceed to elect by ballot the electors for the district. All the district electors of one province form the electors. All the district electors of one province form the electors in the chief town of that wince to appoint the deputies to the cortes, either t among themselves or from among the citizens whom it district electors, provided they are Spanish citizens whom, in the full exercise of their civil rights, more than 25 years of age, and have had their domices the province for at least seven years past. By Art. .... qualification was inserted of a yearly income, the armand nature of which were left to the discretion of function.

cortes in delermone. Nowy during closely, as according as an old it the amount of a condition, which the exception principles of the formation of the condition of the condition

a remarkable Etruscan monument, supposed to have been a sepulchre, of the same construction as the city walls; it has been named strangely enough La Grotta di Pittagora, bee been hamed strangely enough La Grotta di Pittagora, some one having chosen to misplace the r in Cortona, thus making it into Crotona, the residence of that philosopher. (Repetti, Distinario Geografico Storico della Tosema; Valery, Voyages Littéraires en Italie.)

CORTO'NA, PIETRO BERRETTI'NI, called Pietro da Cortona, was born November 1, 1596, at Cortona.

first master was Antonio Commodi, but he afterwards studied under Ciarpi, at Rome. Being employed by a gilder to make some little figures, his skill attracted the notice of the Marquia of Sacchetti, who visited the work-The marquis took him at once under his protection, and procured him numerous commissions, and among them an order to paint some rooms in the palace of the reigning Pope Urban, in the Piazza Barberini. Cortona afterwards trairelled, and executed various pictures by the way. He wer employed by Ferdinand II. to paint some pictures in the Pitti palace, and stayed some time in Florence; but he sell it in discust, because the grand duke had listened to certain detractors, who had accused Cortona of palming his own pectures upon the prince in place of some of Titian's which Ferdinand desired to purchase of him. He settled finally in Rome, and enjoyed the patronage of successive pannils, until Alexander III. made him a knight. He died, represed with wars and the gout. May 16, 1669, full of alth and honour.

Pietro da Cortona studied the works of Raphael. Michel Angele and especially these of Polistoro da Caravaggio, from whom he learned to imitate the style of the later antiques, taking for his immediate model the sculpture of Trajan's column. His style of drawing is free. beid and receives and even overse; seldom finished in are except the most constitutions parts. In design he is burned and suspects, though somewhat mannered and evercharged. His offer is sever and harmonious. His prove not works are at Rome, in the Barberini and in the Sacretern raisons, and at Fiorence, in the Pitti palace.

Christia new read architecture as well as painting. as harred in the charch of S. Martin at Rome, which is married his best arch rectural work; and at his death be properties to the bundered at the bostonesses

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2nd. Ruby. Colour blood-red or rose-red, sometimes a tinge of violet; primary form as above, and generally occurs in six-sided prisms; it is not so hard as the sapphire, and n more readily cleaved. Chenevix's analysis gives

Alumina . Silica Oxide of iron . 1.5 98'2

But if the silica was derived from the mortar, as surosed in the case of the sapphire, then this substance, like it, must be regarded as alumina, nearly or quite pure

Common corundum, the variety usually called adaman time spar, occurs like the sapphire and ruby, common's the secondary form of six-sided prisms, but usually melarger. It is sometimes nearly colourless, and in its translucent; it presents great variety of colour, but is m commonly greenish or greyish; occasionally brown or rarely blue. Although its most common form is the sided prism, it occurs, though rarely, also in acute a obtuse double six-sided pyramids. On account of its extreme hardness, it received the name of adamantine specific productions. It occurs in China, Bengal, Malabar, Tibet, the Carnatic, &c It is used in the East Indies for cutting and polisher: precious stones, and also granite and other hard rocks that are employed in the temples and other public monumer's According to Chenevix, the Carnatic corundum—and the other varieties differ but little,—yielded

Alumina . 91 Oxide of iron 1.2 97-5

Emery. This substance, which, when reduced to powl is much used for polishing hard bodies, though very ferent in appearance from the preceding, is, on account its hardness and analysis, regarded as amorphous corundom Its colour is usually grey: its lustre is somewhat glister. Its specific gravity is about 3.66 to 4; it occurs mass and is granular. It is principally imported from the of Naxos in the Archipelago, and was found by Mr. S. sen Tennant to consist of-

Alum.na Silica Oxide of iron 4 93

It occurs also in Italy, Spain, and Saxony; and it is a in small quantities also in Wicklow.

ORUNNA or, more properly, CORUNA (Admit and Constant so named from columna, or the time; Hercules which still cursts and the origin of which I been referred as far back as the Carthaginians, but it is the constant of Theory. barned Corn de brings it down to the reign of Trajan. was converted in 1"sl. at an expense of 40,000 dollar into a lightheuse. This city stands on the neck et a peninsula, defended by a chain of bastions, at the entra-of the bay of Betannis the true Flavium Brigantium; at the head of a spacious harbour, which is secure againall winds, except those blowing from the south and the east. It is further protected by two forts, one of which that of St. Anthony, commands part of the road. Though not the capital of Galicia, it is the head-quarters of it military and naval force, and a considerable portion the Spenish may was formerly stationed here. Its our meme increased our scherally by the opening of the Aze eran trees. It has som experience manufactures of linen in

have and come on considerable fisheries, especially the mean that the latest and the second of the fisheries, especially the mean that the latest and the second of the mean that is demonstrated on the latest and the mean that the demonstrate of the mean that the latest and th

It is not to the control of the second of th CONTROL of the Control of Control of the Control of

seeming from the present to the unoccoling family. The prison by, porce singled in the front best than the Correcte to concert, helds a module station in respect to that classical latters distributed in the length and architect of its hell it approxime, to conjunction with outpy of the Paradhere, to some of the extreme species of the Neutralian neared many be instanced. Mr. Vicora, in a note, toys but he speaks with considerable be station as to the attracted for the process, with an extensible be station as to the attracted of dynamics, which have no strong a resorbidance of the Processor of M. Broson, a group feeding of vegatible pieces, with an extensible tength, to person han to aparate it estimate some expression of doubt.

Mr. Swainsen, in \* Paulin Barcall-Americana\* (vol. 6.), inc writes on the Corpolas; \*There are some singular and ightly information prouding the southern of the philosophic naturalist. One of the most tenture of the philosophic naturalist. One of the most tenture of the philosophic naturalist. One of the most tenture of the philosophic naturalist. One of the most tenture of the political in a natural genera, sirelity to separate holing to perfect and natural genera, sirelity to separate holing to perfect and natural genera, sirelity to separate examples of the fact, and in a groups which reach repay the most minute statysis. This pertaintly ometimes extends to higher groups; and in the present analy, the most pre-continually typical on the whole arreis of militalogy, it is more arriving than in any other. It is entitled flux into been made of the groups it contains. One pass include have been illustrated, and the artificial distribution flux into been made of the groups it contains. One pass include will not permit us at present in three much glat upon the subject, further than what may be gained by tindying the failuring table of anhibitinglian.

2. Sub-typical Group.

Secretocornics. Wings shorter, rounded, care.) Gurralina.

vos.; lateral tous unsequal.)

4.11, 'elimedy resembling the speciesling groups that farminest' in the form of its bill, in conjugation of the Positive state of the form of the bill, in conjugation of the Positive state of the form of the bill, in conjugation of the Positive state of the form of the bill, in conjugation of the Positive state of the form of the bill bill before the form of the Servey from the form, which again benefits out the Servey from the form of the Positive state of the bill. However, the servey from the state of the bill. However, the servey from the bill benefit of the bill bill benefit of the bill benefit

" This was read in Palargue. We had much pleasure respecting the affinities of the many we make there's best its external -mean in were remirmed by the account of its habits and more . ...t. where we have extracted above from Mr. by section and it represents merely with what appeared 1 .... to their matters, affirmers, of which he formed increases or actual releasement of their manners, has THE INCH TITE II THE SAME case with the Caprinning, The second secon

The rise I was and 2. The Birds of Para-

### GENERA CATTES

To see a large consurered, and a lattle swollen on the new every sint curred bounds the point, its edges

The property of the state of the same of t Fig. 35 M Lence, 's very numerous mails from the mosts, armeen so called—which are the same of the Passers whose was of the a carantorous, and then the manners of all acts of substances, especially 1 - ...... . ....... outset to the gentus. The crows pomess z en mengenen ar enen unred, und become very fami-The Me were remember and the in numerous bands, when more on me seen called creating. They often remains such action that a price is set on their head in some of artists. They have at all times been objects of second 2 to the period. Some of the crows are sedenstory again for the course, and migrate annually. The most out ease a rest."

Security of the course is found in all

e fore transers of the grove.

Limited Corres Corner This well-known bird is the
and if the Greeks, Corner of the Latins, Corne, Corle, b that I was it me French Der Rale and Der Kolkat he Sermon Erry of the Swedes, Raun of the was of the street British Kine exerges of the Cre a mine and Top week of the Esquinners. Dr. Richardand he is a mount of the for countries, and visits the remains a manufacture of the Point sens. It frequents the barren grant seen in the most intense water colds, its m months well timered it a great measure by those of the are if purees muse over and issoo, which it follows, Practical amount in despitating state as are killed by beasts of er er erretent. Ni wener has a kunter slaughtered er allina, time theme buris are seen coming from various to arrest to frank up the office and constitutable must r unsuity grand the fishing stations, where they show et as wellow mist reporter. The experienced native, organ, a core tract a party of the contributes, well proof a comment of the spot, or the start if we say are precing truck the racrase of some of the some continues and planter in brakly in the certain property aring the water strop ed. The thievish labits man in a m a with size the most socieded and worst print after a known a spicial exhibit the same A similar metallic bodies, and other the same of the same. Mr Kentall, in crossing the serious of same of the same the waters that flow towards for my time of the Arctic sea, and the same time of the same time of the Arctic sea, and the same time of the same time I see a common summands. The bird

The state of the s - wer ! - - - men a ..... terrer ed in thinking it and the second of the second o

Variety. - Dr. Richardson (Fauna Boreali-American ). states that a pied individual was killed on the sou'a branch of the Mackenzie, from a flock of the common set Its neck, fore part of the back, and part of the wings we e

grey; the rest of its plumage black.

68

Locality.—'This,' writes Dr. Latham, 'is a universal species, found both in the old and new continents; from Greetland to the Cape of Good Hope in the one and from Hu.son's Bay to Mexico in the other. It was also met with 🗽 our circumnavigators in the Sandwich Isles, and at Ownhee was held in great estimation. Its appearance is corded in the first and second voyage of Parry as occurry: within the Arctic circle, and in Franklin's Journal. Seven pairs were seen at Melville Island, and Dr. Richards gives a description of one killed at Fort Franklin in Marr...

Captain James Ross (Appendix to Sir John Ross's seco: voyage, p. 28), speaking of the raven, says, 'This is one the few birds that are capable of braving the severity of an Arctic winter and of enduring the scorching rays of a tropical sun without any change being produced in its p mage by the extremes of climate. Cuvier and other auth ... mention that in the north it is frequently found more: less white: we never saw anything corroborative of suc. an observation. It preserves its plumage and peculiar cha racteristics unchanged in every quarter of the globe \*.

There are several other European and foreign spece-

Most of the former are known to every countryman, and the student will find both in the ornithological manuals.

Bill entire, with cutting edges, straight or curved, fur nished at the base with setaceous feathers, lying forwards

Tail very long, graduated. (Vieillot).

The Pice, magpies, feed much in the same manner at the true crows, build their nests in trees, advance on the ground by hopping, are clamorous, learn to articulate with easily, and the European species is renowned for hid; anything shining and portable that pleases its eye This bird also has been always an object of superstimwith the vulgar; and as it may be considered a typical form, we take it as an example.

Pica caudata of Ray, Corrus Pica of Linnabus, our conmon Magpie, or Pianet, is, there is hardly any doubt, the sirra of the Greeks, the Pica of the Latins, Gazza, Regazza Putta, Picha, Gazuola, Gazzara, Ghiandura, Gaggia, L. Gaggia domenicana of the modern Italians, Pie, Jaguei: Dame, and Agasse of the French, Die Elster, Die Aelster or Aglaster of the Germans, Skade and Husus Skade of the Danes, Skior and Tunfugl of the Norwegians, Progen ! the antient British, Octava-kee-askee of the Cree Indiana and Shepecum-meruck of the Maskegons.

The magpie is too well known to need description. omnivorous, and lays six or seven oblong eggs of a yellow ... white, spotted with brown, and cinercous: its nest, we fortified with blackthorn twigs, is a curiosity. The fema: is rather less than the male, and her tail is shorter.

This bird, says Dr. Richardson (Fauna B reali-Amer. cana), so common in Europe, is equally plentiful in the reservor prairie lands of America; but it is singular that terior prairie lands of America; but it is singular that though it abounds on the shores of Sweden and other man time parts of the Old World, it is very rare on the Atlant. coasts of America, or near Hudson's Bay: only stray mividuals passing to the eastward of the Mississippi or of Like Winipeg. Mr. Say informs us that it winters on the M-souri, and takes its departure northwards on the 23rd March. It does not entirely quit the banks of the Sask. chewan even in winter, but is much more frequent in suzmer. On comparing its eggs with those of the European bird, they are found to be longer and narrower; and though the colours are the same, the blotches are larger and mar diffused. The manners of the American bird are precise. the same that we are accustomed to observe in the Englistone.' Mr. Swainson adds, that he has been able to compare English and Arctic specimens with one from the interior of China, communicated to him by Mr. Gray, and that he cannot perceive the slightest difference whereon to

build even the character of a variety, much less of a species. The tails of the Arctic specimens, he observes, are very beautiful.

Variety.-White.

There are several foreign species. They occur both in the Old and New World.

### Dendrocitta.

A genus founded by Mr. Gould, and comprehending Pica l'agabunda of Wagler, Pica Sinensis of Hardwicke and Gray, and a third species, which Mr. Gould believes to have been hitherto unnoticed.

Generic Character.-Bill shorter than the head, cultrated, broad at the base, culmen arched, sides subtumid; nostrils basal, partly covered with setaceous feathers.

Wings moderate: fifth and sixth quills longest. Tail
elongated, cuneated, the tail-feathers spatulate. Feet (tarsi)
short and weak; toes moderate; hallux strong, with a strong incurvated claw.

### Generic Type.

Dendrocitta leucogastra. Black; occiput, neck, transverse stripe at the base of the quills, and abdomen white; scapulars, interscapular region (interscapulio), and lower tail-coverts tinged with chestnut (dilute castaneis); two internal tail-feathers ash-coloured, except at their tips.

The shortness and comparative feebleness of the tarsi in Dendrocitta, and its more elongated tail, the feathers of which are equally graduated, except the two middle ones, which are much longer than the others, distinguish it from the typical Picce, the common magpie, for example. These characters are in accordance with its habit of wandering from tree to tree in search of its food. It is farther distinguished by the form of its bill.'

'All the species yet known are natives of Eastern Asia.'
(Gould, Zool. Proc., May 14, 1833.)

Example, Dendrocitta vagabunda, Pica ragabunda,
Wagler, Hood, peck, and crest of a smake colour, or Wagler. Head, neck, and crest of a smoke colour, or blackish grey; the back light cinnamon; the centre of the wings grey; the quills black; the tail grey, each feather wings grey; the quills black; the tail grey, each realmer being tipped largely with black; under surface pale tawny; beak and tarsi black. Length 16½ inches; beak 1½; tarsi 1 ; tail 10. The species is more widely diffused than any of its congeners, being found in considerable abundance all over India. (Gould, Century of Birds from the Himalaya Mountains.)

# Garrulus.

Bill moderate, straight, with cutting edges, inclined, and ith obscure notches near the point. Tail even, somewith obscure notches near the point. times rounded. (Vieillot).

The jays are inhabitants of the wooded districts, and live chiefly upon fruits, principally acorns and such vegetable productions. They rarely come into the open country, but make great havoc in gardens and cultivated grounds in the neighbourhood of woodlands. Their food is much less varied than that of the true crows; but they may still be even brilliant: the beautiful speculum on the wing is a leading character. The manners of the foreign species are analogous to those of the foreign magpies. Those of the common jay and its aptness at imitation are well known.

Example, Garrulus glandarius, the common jay, which is supposed by Belon to be the Malassepare's (Malacocraneus) of Aristotle; and we may observe, in confirmation of this opinion, that the editor of the last edition of Pennant says, that the bird is very common in Greece, where it still retains its antient name, Madarosparsic. Belon states it to be the Gaza Ghiandaia, or Ghiandara, the Gaza verla and the Berta of the modern Italians; and C. Bonaparte gives thiandaja, Pica, Pica ghiandaja, and Pica valombina as the Judian appellations. It is the Jay and Geat of the French, the Eichen-heher (oak-jay), Holtzschryer (wood-cryer), or Holzeher of the Germans, and Screek y Coed of tine antient British.

The jay is too well known to require description. It builds its basket-like nest in trees or high coppice wood and nedges, and lays five or six eggs of a dull whitish olive, mottled very obscurely with pale brown; towards the large and there are usually two or three black lines. It is a sad onemy to gardeners; fruits, especially cherries, and peas, are its great favourites, and it is frequently taken by springes

set upon the rows of peas when in bearing. Dr. Kramer set upon the rows of peas when in bearing. Dr. Kramer says that it will kill small birds. With regard to their imitative powers, Bewick says, 'We have heard one imitate the sound made by the action of a saw so exactly, that though it was on a Sunday, we could hardly be persuaded that the person who kept it had not a carpenter at work in the house. Another, at the approach of cattle, had learned to hound a cur dog upon them, by whistling and calling upon him by his name. At last, during a severe frost, the dog was, by that means, excited to attack a cow big with calf, when the poor animal fell on the ice, and was much hurt; the jay was complained of as a nuisance, and its owner was obliged to destroy it.

Varieties.—Dr. Latham says he has seen two varieties;

the one pure white, the other as in the common jay, but having the whole of the quills white.

Locality.—The author last quoted states that this species, though not nearly so far spread as the magpie, exists in various parts of the continent of Europe, and that he has

observed it among drawings done in China.

There are several foreign species, both of the New and Old World. Mr. Gould, who figures three species in his 'Century of Birds,' well observes that, 'The close affinity which the Garruius lanceolatus bears to some species inhabiting the United States and Mexico is worthy of remark, as a corroboration of the fact so often insisted on, that similar forms of ornithology are found in countries widely separated from each other, whose temperatures are alike. Indeed, the last-mentioned bird immediately reminds the observer of the blue jay (Garrulus cristatus) of America, while Garrulus bispecularis recalls the common jay to his recollection.

### Picathartes.

A genus founded by M. Lesson, who takes for the type the Pie chauve (Corvus gymnocephalus) of Temminck.

Generic character.—Bill convex, not very robust, the upper mandible higher than the lower; the latter a little upper mandible higher than the lower; the latter a little swollen towards its extremity; the base entirely without hairs and furnished with a cere. Nostrils placed on the middle of the bill, oval, open, hollowed into an oblong excavation. Head entirely naked. Feet (tarsi) long, but little scutellated in front, naked behind; claus feeble; wings rounded, short. Tail long, graduated. (Lesson.)

'The form of this singular bird,' says M. Temminck, 'the cut of its wings and its long, conical, and very graduated

cut of its wings, and its long, conical, and very graduated tail, serve me as indicia to judge by analogy of what country it may be a native, its locality being unknown. In fact, on comparing our new species with the *Plapic* of Le Vaillant (Corvus Senegalensis), one is inclined, from the marked analogy, to conclude Africa to be its country. Some data, which it is nevertheless not prudent to trust, lead me to believe that the only individual known, which is in the collection of Mr. Leadbeater of London, was brought from the English possessions on the coast of Guinea.'

'Proportions (taille) a little stronger, tarsi much longer, Proportions (taille) a little stronger, tars much longer, and a tail less in proportion distinguish our bird from the Piapic. The head in certain points offers some resemblance to that of the Gracula calva of the Philippines, and this approximation is so strong that it would produce doubts as to its African origin, if it did not bear a greater resemblance in its general contour to the Piapic of Africa. In fine, if this bird is not African, it can only be a native of the

Philippine islands.'

Upon this passage M. Lesson remarks, that he does not of this passage M. Lesson remarks, that he does not find the least analogy between the figure of the Enlum, 538, which is the Corrus Senegalensis, and the Pie chause, which more resembles a Cathartes. The conclusion stated in M. Temminck's last sentence M. Lesson is far from

admitting.

The following is Temminck's description of the species: 'The naked parts of the head offer a particular character. The whole of the auditory meatus is completely destitute of feathers and even of hairs. A small border, or rudiment of membrane, forms, below the orifice of the ear, a sort of external concha, but little apparent, it is true, in the stuffed specimen, but the extent of which must be remarkable in the living bird. All this part of the organ of hearing, as well as a part of each side of the occiput, are covered by a black skin with a slightly-projecting orbicular border, and forming a rounded plaque. The cere which envelopes the base of the bill is also black. All the rest of the naked parts of the head, the mesial line of the occiput which sepa-

rates the black plaques of the temples, and the upper part of the top of the neck, appear to me to have been red or rosy in the living subject; a slight tint of rosy-yellow covers these parts in that before us. The whole of the nape is covered, clearly, by a whitish and very short down. The front of the neck and all the other parts are white. The back, well covered with thick-set feathers, is of an ashyblack; all the rest of the plumage is bistre brown. The fact are yellow, and the bill is biack. Length 15 inches.' (Temm.)



This genus was flumbed by M. Fischer, for a bird disco-ment to De Plantin in the manuary of the Kinguis beyond Creminary, whose in the of the me analogous to those of the moves among while M. Lesson to make it ought to be Section that were -By anothers and the length of the

ment, ten ting to virvation in its print without a moter, and were recently as a remark the shapes of a North neer american with a least and selector lasticerial The state of the s

## M "TOLETAL

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manners of M. Temminckii, when on the ground, are samuch to resemble those of the English blackbird. It may be questionable whether this group is properly place

among the Corride.

Example, Myophonus fusirostris (metallicus, Temp.
Entirely of a deep blue-black with metallic tints, Bill:
a beautiful vellow. Red black. Locality, Java.



Ptilonorhynchus.

Bill strong, robust, widened, rather long, upper basal termination convex but little marked; point recurved; upper mandible presenting two small notches at its extremity; mandible presenting two small notches at its extremity; edges a little swollen; lower mandible slightly convex; commissure of the mouth straight, simple. Nostrile basal, lateral, furnished with short bristles. Wings short, rounded. Tail moderate, graduated. Feet slender. (Lesson).

The genus, as modified by Lesson, contains but two species. He thinks that it would be better placed among the Dentirostres at the side of the Choucaris (Graucalus, Cuy), but he allows that it has all the forms of the Police.

Cuv.), but he allows that it has all the forms of the Roltiers (Coracias) and of the crows. Locality, the warmest islands of the West Indian Archipelago.

Example, Ptilonorhynchus Sinensis, Coracias Sinensis, Lath. Body above pale aqua-marine green clouded with yellowish-green. Forehead furnished with silky round fea-thers, turned in different directions; feathers of the nape long, unravelled as it were, and capable of being erected into a tust—both of a yellowish-green. A black band taking its rise from the angle of the bill surrounds the eye and nape. Throat and cheeks of a yellowish-green. Lesser wing coverts brown. Quills brown, inclining to olive externally, and chestnut internally; the three last progressively terminated with greenish white. Bill red, sufrounded by a few black bristles; feet reddish. Size eleven inches. Locality, the Philippine islands.



[Ptilonorhynchus Sineubis.]

The other species, according to Lesson, is Kiffe thalassina, Temm.

### Kitta.

Bill short, convex, compressed on the sides; upper mandible with the basal termination recurved, and depressed sides; the point sharp and furnished on each side with a small projecting tooth, borders of the mandibles thick, resmall projecting tooth, borders of the mandioles thick, recurved, and covered at the commissure. Nostrils basal, transversal, hidden by the silky feathers of the forehead, and by a row of small bristles. Wings pointed. Tail equal, rounded. Feet robust; toes equal; halfux strong. (Lesson.)

Lesson, who places in this genus Kitta holosericea, Ptilo-

this, which has the general characters of the Rolliers and Rolles (Colaris).

The birds composing the genus are exclusively peculiar New Holland and the temperate zone. (Lesson.)

Example, Kitta holosericea, Temm.; Ptilonorhynchus holosericeus, Kuhl; Satin Grakle, Latham; Ptilonorhynchus Mac-Lewyii, Latham MSS., Vigors and Horsfield.

Male, very brilliant blackish-blue. Quills and tail-feathers dead black. Bill and feet yellow. A double row of silky and velvety bluish-black feathers at the base of the bill. Length thirteen inches. The female has the upper marks of an alive-green. The quills and tail feathers of an elive-green. parts of an olive-green. The quills and tail feathers of a red-brown; wing coverts varied with brown and a colour inclining to olive; lower parts greenish, barred with black. There are whitish horizontal spots, lanceolated and bordered with black, on the front of the neck.

Mr. Caley says (Vigors and Horsfield, Linn. Trans., vol. xv., p. 264) that 'the male of this species is reckoned a very scarce bird, and is highly valued. The netive call it

very scarce bird, and is highly valued. The natives call it Coury, the colonists Satin Bird. I have now and then met with a solitary bird of this species: but I once saw large flocks of them on some newly-sown wheat, from whence they fled, on being scared, into a neighbouring brush; when all was again quiet they soon returned to the wheat. They did not leave the brush above a few yards. There were no black ones among them, nor can I affirm that they were feeding on the wheat.



[Kita holosericea ]

### Nucifraga.

Bill long, thick, with cutting edges terminating in a blunt point, furnished with setaceous feathers at the base, the upper mandible longer than the lower. Nostrils round, open. Wings pointed; fourth quill longest.

Till the publication of Mr. Gould's Nucifraga hemispila,

(see 'Century of Birds,') but one species was known, viz., that which we select as the example.

The Nutcracker, Nucifraga Caryocatactes, Brisson; ryocatactes nucifraga, Nils. Corvus Caryocatactes, Lin., is the Casse-noix of the French, the Tannenheher of the Germans, the Noddekrige of the Danes, the Not-kraake of the Norwegians, and the Aderyn y cnau of the antient

transversal, hidden by the silky feathers of the forehead, and by a row of small bristles. Wings pointed. Tail equal, rounded. Feet robust; toes equal; hallux strong. (Lesson.)

Lesson, who places in this genus Kitta holosericea, Ptilonorhynchus Smithii and Kitta pirescens, says that what was observed as to the last-mentioned genus is applicable to black, tipped with white. Legs dusky. Locality, most

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### Marshall ...

to mentioned suppressed with the parties of the control of the con . . . wayer mainther with two small teeth which But and all Mostric been would open hidden by to revise men wang and recurred. Pourth

the main contract.

The tree because of the French, live in troops

to a contract which they recently in their manners. s mad the toget mountains of Europe, and especially or recount the the They are omnirorous, feedas more curves and draits and meds. They mould

a weet, more the somes any airline externally.

Pranto American Pyrodenous. Brilliant black, the work a dul n worth, and the bill and feet are is the need here the bunck presents iridescent and and the second a greenest, the bill is vellowish. re the test tracts see. The female lays four white eggs, senting with diff wellow, the nest is it holes of the rocks, which there is Saumerhand. C. Bonaparte ('Specchio and as sent accounting in the A-7000 .... 7000

Bill conver than the head secretar, entire, arched, pointed.

I will reserve with feathers invested forwards.

If Lesson is it will not that this genus ought to be arrived with the genus ought to be arrived with the coly differs in having the his concernity move curved, which made Cuvier place is at the tribe of Tomorrowice near the Hospiter (Upupa). The species have the manners habits, and general organiminute a the news. And the European species (selected bere as an example perfectly resembles Pytrhocorax. E.

Arrest rear grantes. Terms. Cross graculus, Lann. Bend, in me mi grounds, to be the Kepening (Corakins), the ensurering (Rei-chied Crow) of the Greeks, and The framework of the Latins: Speirier, Taccota, ruson, I rusid the modern Italians (Belon); Choucus and rieds et in more. Chinamer, Chinatte ruge of the French (Belon); gieri af the anneat British.

Back beautifully glossed with blue and purple. Legs and not bright stange, treining to red. Tongue almost as long as the bill and a little cloven. Claws large, hooked, and hack. The checks bulls its nest in high class or runed neers, and my her or ave eggs, white, spotted with

the series of the seas and sele colour.

p.-In Bora.a : Devicishire, Cornwall, and Wales. Permane says that it is found in different parts of Scotland, as for as Sera, conservera, and in some of the Hebrides. He and states that it is is and in small numbers on Dover cliff. where they came by accodent; a gentleman in that neighbearined had a pair sent as a present from Cornwall, which escaped and succeed these rocks. They sometimes desert the pure in a week or ten days at a time, and repeat it servery times in the year. Minings, speaking of this livesirs grow. To become the breed in those parts is again lost.

The Lantium states that it is also said to frequent the South Lives agent Benery Head and Easth arms, where it is easier the Reich Heat Jack hav. With regard to its general programmera marring in Pennant inserves that we do not into a number pure if Europe except England and the Alte in Asse the mand if canda produces r. In Africa. How when he mand a county product is a factor of the mean and where a visit invaries the end of the mean materians of the Nile. He protes Print, Bresch, Belon and Research, and for these statements. The entire of the last set of the Perimeter was the thresh milators the after the about the mid region of the augment mountains of speeds, was hereer the marriage made as with as. Street, Person I I II Afficia militar's than the feet if some

The Committee of the man the state of the st in right of the state of the second that the second the same in the second that the second the seco है आकार का अप के कि लगा कि में प्राप्त के अपने की अपने

sticks, so that there are instances of houses being set on face by its means; which is the reason that Camden calls it is conditional avis.' Several of the Welsh and Cornish family. bear this bird in their coat of arms.

There are foreign species, Fregilus leucopterus, Vig a and Horsfield, Pyrrhocorax leucopterus, Temm., from New Holland, where it is called by the natives Waybung, according to Mr. Caley, and Fregilus Enca, of Horsfield, ir. a Java, for instance.

Paradisea.

[See BIRD OF PARADISE.] Astrapia.

Bill smooth at the base, compressed laterally, straight above, pointed, notched and bent towards the extremit,

Tail very long and very graduated.

A genus founded by M. Vieillot for a bird of the most brilliant plumage, which, with other characters, places a near the Birds of Paradise, while it has several points who would lead to arranging it among the *Thrushes*. The Gmelin gave it the name of *Paradisea nigra*, and Lathat that of *Paradisea gularis*, while Cuvier considered it:



The de Promise"

come under the genus Turdus (Merle de la Nouvelle Guinée). This beautiful bird is the Pie de Paradis or Incomparable of the French. M. Lesson says, 'I brought from New Guinea two individuals of this magnificent bird, the value of which is sufficiently considerable in France, and which seems to be very rare even in its native country; for during our sojourn at the Moluccas and the land of the Papous, I only saw there two birds, and one of these now embellishes the galleries of the museum where I deposited it.

No description can convey any idea of the brilliancy of this bird. The metallic tints of almost every hue, varying with the play of the light on the plumage, almost surpass belief. It is well figured in Le Vaillant's 'Oiseaux de Paradis,' pl. 20 and 21; but no colouring can give the slightest notion of its splendid intensity and variety. The form may be imagined from the annexed cut taken from the plates above mentioned.

# Fossil Corvid.

Dr. Buckland mentions the remains of the rayen as occurring in the cave at Kirkdale, and figures the right ulma of one of those birds in 'Reliquiæ Diluvianæ,' plate xi. The other allied forms alluded to in this article, viz.

The other allied forms alluded to in this article, viz. Crypsirina, Epimachus, Eulabes, &c., will be adverted to under those titles.

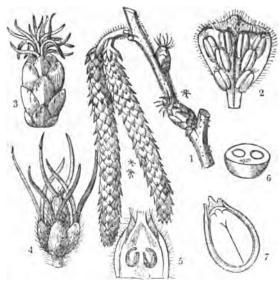
CORVO, one of the Azores, or Western Islands, and the northernmost of the whole group, lying 10 miles N. of Flores. It is high to the north, and slopes gradually to the south; it contains about 750 inhabitants, and produces the best wheat of all the Azores; cattle, sheep, and hogs are abundant, but wood and water are scanty. It has only a small port for the boats trading among the islands. It is three miles long and two broad. The north point is in 39° 44' N. lat., and 41° 0' W. long

CORVUS, the Crow, sometimes Hydra et Corvus, because this constellation, in fact, contains a part of the body of Hydra, on which the bird rests. In Aratus, Hydra, Crater, and Corvus form one constellation. There are mythological stories, apparently not very antient, in Hyginus.

	No Catalo	in gue of	
Character.	Flamsteed. Piazzi. ()	Astron. Society.	Magnitude.
a	1	1396	4
E	2 3	1398	4
	3	1400	6
γ ζ (ι) δ	4 5	1408	6 3 5 6
ζ	5	1418	5
(ı)	6	1424	
8	7	1437	3
η	8	1444	5
ŋ ß	9	1448	3
	(54)	1420	6

CORYLA'CEÆ, a highly important natural order of apetalous or incomplete exogens, consisting of trees or shrubs, chiefly natives of the colder parts of the world, and valuable either for the nuts they bear or the timber they produce. The oak, the beech, the hazel, the hornbeam, and the sweet chestnut, all belong to this order, the general character of which is briefly this: leaves alternate, usually servated, often with veins running straight from the midrib to the margin, beyond which they slightly project; at the base of each leaf a pair of membranous stipules. Flowers monœcious. The males in catkins; the females in budlike clusters. Stamens from five to twenty, arising from the scales of the catkin. Ovary inferior, crowned by a toothed obsolete calyx, seated in a membranous cup or involucing with more cells than one, and as many styles as cells; ovules solitary or in pairs, pendulous; all the ovules except one, and all the cells, disappear after the flowering is over, and when the fruit is ripe there is but one cell and one seed, whatever their number may originally have been. Fruit, a nut (called also acorn, mast, &c.), enclosed within a peculiar kind of involucre or cupule, composed of bracts more or less united together, and forming a cup in the oak,

beech. The seed consists of a roundish embryo, with thick fleshy cotyledons, and no albumen. For particulars concerning the important genera of this order, see QUERCUS, FAGUS, CARPINUS, CASTANEA, OSTRYA, CORYLUS. This order is also called Cupuliferse.



[Flowers of the Hazel Nut.]

1. a branch, with the male flowers \*\* in drooping eatkins; the females \*in bud-like clusters. 2, one of the scales of the male catkin, with the stamens attached to it. 3, a female bud, with the styles projecting beyond the bracts. 4, the young ovaries with the bracts removed. 5, a section of the ovary, exhibiting the ovules, the toothed calyx, and the base of the style. 6, a cross section of the ovary. 7, a longitudinal section of a nut.

CORYLUS, the genus of plants after which the natural order Corylaces receives its name. It consists of the different species of hazel-nut, and is distinguished from the genera associated with it by its cupule being a two-leaved lacerated husk, and its ovary having but two cells, in each of which is one ovule. The species are the following:—

- 1. C. avellana, the common hazel-nut. This plant, which is a native of all the cooler parts of Europe, Northern Asia, and North America, is the parent of the many varieties of nuts and filberts now cultivated for their fruit. [HAZEL-NUT, FILBERT.] It is specifically known by its husks being hispid with glands, leafy, broad, much lacerated, and rather spreading at the point; never contracted into a long tube, nor divided into narrow rigid segments; by its roundish, heart-shaped, very rugose, angular, toothed, cuspidate leaves, glandular-hispid branches, and shrubby habit. It varies very much in the form of its husks, in the degree of their hispidity, some being nearly smooth, in the shape of the nuts, and in the height to which it grows. In the hazel-nut the husk is open at the point, shorter, or at least but little longer than the nut, and nearly smooth; while in the filbert (Corylus tubulosa of some writers), it is lengthened considerably beyond the nut, and covered more or less with glandular hairs; all degrees of intermediate structure may be found in the cultivated varieties. The C. Americana of botanists is not distinguishable even as a variety. There is a pretty purple-leaved kind in shrubberies.
- 2. C. rostrata, the horned hazel-nut. In this the branches are quite free from glandular hispidity, the leaves are oblong, not cordate, doubly toothed, and acuminate, and the husks globular over the nuts, where they are extremely hispid, without ever being glandular; beyond the nuts the husks are contracted into a tube an inch or more long, and irregularly lacerated at the point. A very distinct species inhabiting the mountains of the Carolinas, where it rarely exceeds three or four feet in height. In gardens it is scarcely
- cells; ovules solitary or in pairs, pendulous; all the ovules except one, and all the cells, disappear after the flowering is over, and when the fruit is ripe there is but one cell and one seed, whatever their number may originally have been. Fruit, a nut (called also acorn, mast, &c.), enclosed within a peculiar kind of involucre or cupule, composed of bracts more or less united together, and forming a cup in the oak, a husk in the filbert, and a spiny case in the chestnut and

matror of Asia Minor, and known from all the za - cant species by its becoming a tree. It seldom pro-. :- mus ii. ilis climate.

these, there are the C. lacers and C. ferez, two round in the Himalaya mountains. Of these, the grathered in Kumaon, is hardly different from C. the other, from Mount Sheopore, has narrow presented leaves, and excessively hard nuts, enclosed in with divaricating narrow spiny divisions.

The Till a form of inflorescence approaching very in the moome. The raceme consists of an axis, upon what it is flowers are disposed upon footstalks of the engti : and hence its figure is more or less cylin-A coronic consists of an axis, the lowermost flowers which here very long stalks, and the uppermost very Education with the mass of inflorescence is an inverted Times as in conductal and many other cruciferous plants.

The common is in fact, an umbel with a lengthened axis.

From this word is derived the term corymbose, which is ways and not only to flowers, but to any kind of branching The which the livermost parts are very long and the upper-DOSE THEY Short as is the case in most species of Aster.

OCRYMBIFER.E. [COMPOSITE.]

OORYPHA, a graus of East India palms, with gigantic It is composed of round one-seeded berries. Of the

species iv: in parti-ular deserve mention.

One the Tara or Talliera, Corypha talliera, is an elegant nhabiting Bengal. Its trunk is about thirty The leaves are in about eighty divisions, men ax feet long by four inches broad, radiating from the pant of a leaf-stalk from five to ten feet long, and covered with strick stanks at its edge. Roxburgh describes the spacks as decompound, issuing in the month of February from the agen of the tree and centre of the leaves, forming an immense diffuse ovate panicle, of about twenty or more feet in height. The fruit is the size of a crab-apple, wriked, dark clive, or greenish-yellow. The leaves are used by the natives of India to write upon with their steel Lea, 21rd for other purposes.
The other, the Tala or Talipat palm, Corypha umbracu-

lifera, is a native of Ceylon, and similar in appearance; but its leaves are not so round as those of the Talliera, the divisions in the centre being shorter than those at the sides. The trunk grows sixty or seventy feet high; the leaves are Eurisen feet broad and eighteen long, exclusive of this stars and they form a head about forty feet in diameter. Fans of enormous size are manufactured from this plant in Ceres: the pau of its trunk furnishes a sort of flour from which trend is made; the leaves make excellent thatch, and are used for writing on like those of the Talliera.

CORYPHENA (Linnaus), a genus of fishes of the sec-

Acantespiery gu and family Scombrides.

The group of fishes formerly included under the head Corrections is now sublivided, and the subdivisions may be a farmed as genera of the genus Coryphona, or that are not be worked upon as a sub-family, and the Bring are as femera. The principal characters of this group are as for we :- Body clongated, compressed, covered tean. waters; direct fin extending the whole length in torse ex ending from the tail almost to the ventral. in a. a more or sea forked, and the pectoral fin is usu-

we share and pointed.

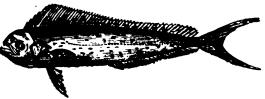
we are Corrected as a genus, the following are the

control of the Control of the Caranzamorus, Centro-

.... Anterder was, 2: 5 Pieraclis.

in sparing to which the harne Coryphena is now re-.. . . a serie was elected, and the palate and The course to its last in

There have a represented to their motions, usually of the reasons of the responsibility as experience in length of a Marketine responsibility as a so the fact in length of a Holera . were strained women bit . saw yours betreath there were systems the vork and deval fin, and the blow poors of he could not be fore und with spots of a paler for my cause it a reason. The greatest depth of to endy a servet use which it is a view length



[Coryphena hippurus.]

There are several other species of this genus, some f which are found in the Mediterranean, and very closely to semble the one just described.

The genus Caranxomorus (Lacépède) is closely allied a Coryphena (proper); the species, however, may be duity guished by their having the head less elevated and the coin a medial position; the dorsal fin is shallow and of equi height throughout: the tail is much forked.

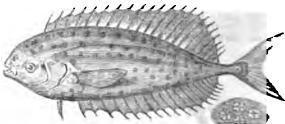
Caranxomorus pelagicus is about nine or ten inches : length, of a blueish colour above and yellowish beneat the dorsal and anal fins are of the same colour as the of the fish, and have a whitish margin. It inhabits the

Mediterranean.

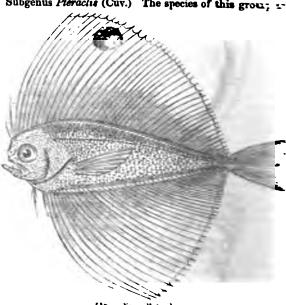
The subgenus Centrolophus has already been noticed and the proper head. We will merely remark that the sperr of this genus which we have seen have the body shorte: proportion than in either of the two preceding genera.

of a somewhat elongate-oval form, the tail less forked at Subgenus Astrodermus (Bonnelli). But one species this subgenus is known. The generic characters are head elevated, mouth but slightly cleft; dorsal fin extent ing nearly the whole length of the body; ventral fins ve-

small, and placed on the throat; branchiostegous rays franktrodermus Coryphænoides (Cuv.) is from tweite fifteen inches in length, and of a pale rose colour, with : or six longitudinal rows of round black spots; the derand anal fins are blackish, and the pectoral and caudal f are of a red hue. The most remarkable character of fish, however, consists in the scales, which, instead of f ing over each other in the usual way, are scattered over to body and head; they are very minute and serrated, and, una lens resemble small stars. It inhabits the Mediterran-



Subgenus Pteraclis (Cuv.) The species of this grou;



[ I besselin preliatus, I

remarkable for the immense size of the dorsal and anal fins, such of which springs from between two tiers of scales which form a protection, and probably give strength to the basal portion of the fin-rays. These fins extend the whole length of the body; the head and teeth are nearly the same as in the true Coryphænæ; the scales are large.

Pteraclis occilatus (Cuv.), is about four inches in length, and of a silvery hue; the pectoral and caudal fins are yelowish; the others are blueish grey, and the dorsal fin has large blue stort near its highest part.

large blue spot near its highest part.

CORYPHAUS. [Chokus.]

CORYSTES, a genus of brachyurous or short-tailed rustneeans. Exterior untennæ longer than the body, setaeous, with two rows of cilia. Jaw-feet (pieds-machoires) saving their third joint longer than the second, straight, or straight that the second is traight. erminated by an obtuse point, with a notch upon its internal border. Eyes rather distant, borne upon large pedun-les, which are nearly cylindrical, and somewhat short. Anterior feet (chelse) large, equal, twice as long as the pody, and nearly cylindrical in the males; in the females, of about the length of the body, and compressed, especially owards the hand (manus). The other feet terminated by an elongated nail or claw, which is straight, pointed, and channelled longitudinally. Carapace oblong-oval, terminated by a rostrum anteriorly truncated and bordered poseriorly. The regions but slightly indicated, with the exception of the cordial region, the branchial or lateral regions being very much elongated.

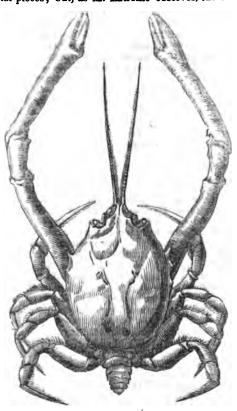
M. Desmarest is of opinion that the natural relations of his crustacean approximate it to Atelecyclus, Thia, and Leucosia, of which M. Latreille forms his orbicular tribe Les Orbiculaires). Dr. Leach, he adds, in his method, laced them near the first two of the above-mentioned repers, solely because they have the tame number of abdorenera, solely because they have the same number of abdo-ninal articulations. The *Leucosiae*, in which the number of those articulations is less considerable, are removed to a

listance,

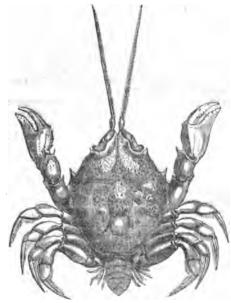
Example, Corystes Cassivelaunus, Leach; Corystes den-Latan Corystes Constitutions, Learn, Cancer Cassive dentatus, Corystes longimanus of Latrelle, Cancer Cassive launus, Long-claused Crab of Pennant, Cancer personatus of Herbst, Albunea dentata of Fabricius.

Description.—Surface of carapace somewhat granulous,

with two denticles between the eyes and three sharp points lirected forwards on each side. The male has but five ablominal pieces; but, as M. Latreille observes, the vestiges



(Corystes Cássivelauntis, mala.)



(Corvetes Cassive aunus, female.)

of the separation of the two others may be clearly remarked upon the intermediate or third piece, which is the largest

-The coasts of England and France. specimens figured by Pennant were dredged up from the deep near Holyhead and Red Wharf, Anglesey.

CORYTHAIX. [Touraco.]

COS (Kas), an island in the Archipelago, the medern name f which is Stanco. It lies in the mouth of the gulf of Ceramus; its principal city, which was immediately site to Halicarnassus, was destroyed by a great earthquake in the Peloponnesian war. (Thucyd., viii., 41.) This city was, in very antient times, built on the other side of Cape Scandiarium, which points up the gulf, and was called Astypalæa (Old-town). The new capital was not large, but well built

(Old-town). The new capital was not large, but well built and picturesquely situated. (Strabo, p. 657.)

Cos must have been colonized from Greece at a very early date. The inhabitants were Greeks even before Homer's time (*Iliad*, ii., 655 and 677; xiv., 2, 6, compare Strabo, pp. 573, 653); the mother-city of this Dorian colony was Epidaurus (Herod. vii., 99), as is indeed sufficiently shewn by the worship of Æsculapius, which prevailed in such a remarkable degree both at Enidaurus and in Cost. such a remarkable degree both at Epidaurus and in Cos. (Pausan., iii., 23, § 6.) There was a house of Asclepiadæ at Cos, to which Hippocrates was related, and we are told that he compiled his system of medicine from the tables of cures suspended in the Coan temple of Æsculapius, which was as suspended in the Coan temple of Assemanus, which was as celebrated in its way as the corresponding one at Epidaurus. (Strabo, pp. 373, 657.) A similarity of origin and religion induced the Coans to form a league with Hallcarnassus, Cnidos, and the Rhodian Tripolis; and the confederacy celebrated the Triopian rites on a promontory of that name near Cnidos. (Herod., i., 144.) The constitution of Cos was in all probability originally the same with that of Epidaurus,

in all probability originally the same with that of Epidaurus, namely, an aristocracy.

About the year 486 s.c. we find Cadmus, from Messana, reigning in this island by the appointment of the king of Persia; but after ruling a few years he restored the former constitution, and went with Epicharmus, the comic poet, who was a native of Cos, to Messana. (Müller, Dorians, i., 8, \$5, note 9.) It seems, however, that the island did not long enjoy the old form of government, for we find it just about this time under the authority of Artemisia. (Herod, vii., 99.) In later times a democracy was established but it vii., 99.) In later times a democracy was established, but it did not last long, for the violence of the demagogues forced those of the better sort to conspire together against them, those of the better sort to conspire together against them, and put down the republican constitution to which they owed their power. (Aristot. Pol., v., 5.) The wines of Cos were famous throughout Greece. The climate is said to be delightful. (Leake's Morea, ii., 429.)

COSECANT, COSINE, &c. [TRIGONOMETRY.]

COSENZA. [CALABRIA.]

COSI, RIVER, rises in the Nepaul hills, near Catman do. At first it flows in a south-past direction to the town

doo. At first it flows in a south-east direction to the town L 2

of Course in 20° CC 76 Set , and 27° CC Every; turning dimit the historian at their head, proposed to appearatly comes are an entered the district of Purneah, Cosmo, of the younger branch of the Medici, as suctrace of me and by the worth of Newthpore. Its channel is in to a post mast; two moles wide, but, except in the rainy sayors, yeararia itila also than and lanks and a succession of sound minutes. It passes the town of Nauthpore, still removed nearly due wouth, and continues this course until at about 700 miles from its source it joins the Ganges in

20, 27, 16 lat, and are 18, E. long. (4)MLIN, (4)MHLIN, or KORNLIN, a government circle in the eastern part of the Prussian province of Pomerania. It is bounded on the north by the Baltic, along whose shore it estends for above 100 miles; and on the east by West Primain It line an area of about 5428 miles (nearly twice the author of Lincolnshire); is divided into nine minor elicies, and contains 23 towns, 1 market-town, and 1142 villages. The surface is a level, occasionally broken by clevations, and rising into sand hills near the Baltic. There are considerable woods and forests. Cisin is watered by the Regs, Poissuite, Wipper, Nielpe, and numerous other structure; it has several lakes, but none of any considerable dimensions. Agriculture and grasing are the chief pur-sums, to those must be added the manufacture of weeklens, outions, tilhous, leather, non-ware, glass, paper, tobacco, to Amber is obtained along the whole coast. The population in 1817 and 244,515, of whom 239,000 were Protestauts, 3.130 Roman Catholics, and 1585 Jews. the number of dwelling houses was 36,322, and the popu-

lation had increased to 323,430, and in 1834 to 329,298.
The stock in 1831 consisted of 43,687 horses, 129,681
beads of certic and 506,476 sheep and goats. The chief heads of certic and 306, 476 shoop and goats. The chief towns beardes Ciedro, the capital, are Stolpe, (6600 inha-Kirmal Chilbert to both Rugenwalde (3400), Neustetten

and and the interest

CAMIN (comments Choles), the capital of the governweeks and he and of the principality of Camin, is about five we there the Bol or and advated on the banks of the to make the state their distance is placed one acre it the even as the first of the Gollenberg, from both the experience from the transfer of mount established a the and to above a to a in length. Cooling which is a control of the last to the last to the last to be a market to the last where I have not not told to be set to the and about the true.

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to Alessandro. Cosmo had against him a number of grants, some of the first families of Florence, who were tile to the Medici, some through jealousy and rival attion, and others because they wished to re-establish the public. These emigrants were scattered about the difficultation cities, and were encouraged and supported by P Paul III., by Count Pepoli of Bologna, and others. also relied on the protection of Francis I. of France, w: Cosmo on his side was protected by the emperor Charles who acknowledged him as duke of Florence. The emigrahaving collected a few thousand men, invaded the Fl tine territory, but were defeated by the troops of Cont. Montemurlo; and their leaders, Albizzi, Valori, and I':. Strozzi, were taken prisoners and put to death. From time Cosmo reigned absolute lord of Florence. He ext. tinguished all remains of popular liberty, and he established a system of inquisitorial police by means of numerous a formers. Persons accused of any designs against : government were tortured, and often put to death. He had agents also in various parts of Italy to watch the duct of the Florentine emigrants, and in some instanceget rid of the most dangerous by assassination or poison : in the case of Lorenzino, who was murdered at Venice. his order, in 1548. He effected a striking change in manners of the Florentine people, who were before no for their garrulity and lightness of conversation; they came henceforth taciturn and cautious, and spoke in tsentences. In other respects the administration of Co. was orderly and wise; he was attentive to business, .. looked himself into all public affairs. He had considerate abilities; and if he rendered Florence and Tuscany entered dependent on his will, he at the same time succeeded consummate political skill in keeping his state independent of all foreign powers. He would be master at home freed his towns from the imperial garrisons, and rese several attempts at encroachment from the court of R : He was the first to establish the unity and independer Tuscany as a political state. He formed a native militate possantry, well exercised and disciplined by experient officers, so that at three days' notice he could collect 12 men in any particular point, besides the regular regime which he kept in the towns. His fiftances were in a condition, and his treasury always well supplied e. money.

County processed at first the territories of the tv : publics of Farence and Pisa, the latter of which had to avaisand by the Phrentines before his time. In 15. a liked to his dominious, by an agreement with Jin d'Apprane ked of Prombine, that principality, and is mirrored its harbour. But a more important acquire-was that of Seesa. That republic had survived the free-of Factories and had retained its independence of be rentering of Charles V. But in 1572 cm 2 in has my houlest out among the citizens who were exand it the Proceeding refigees they drove away the mak current and admined a French sandary ; or the tillier of war Charles V. sent thore to secure " and course served has heres in these of the emperies ! the margetta assesses ago than the to the assesses more but at the hemming of 1984 Comme put? त्या द्वा देखायाला उत्तव अवस्थि देशकाण्य अलाहि राजाया व A. the best of Marmon in August it was been Number and then Francia and being actioned. An just out upe, up a betermen to differ the differ. NAME OF BOTH OF THE PARTY OF THE PARTY. where you are the the states from the factor. In your due pass die passe the foundation of the one of the state of the the common who was a gard a gament of the latest of the la The second of th A second a suppose of the second of the seco A THE STATE OF THE the state of the same of the s

pire, united under one government.

Cosmo married Leonora, the daughter of Don Pedro de Toledo, Spanish viceroy at Naples, and had five sons by her. Two of these, Giovanni, who had been made a cardinal, and Garzia, died suddenly towards the end of 1562, and their mother soon after followed them to the grave A report was spread and readily believed by the numerous enemies of Cosmo, that Giovanni had been killed by his brother, after which Cosmo, in his wrath, had killed Garzia with his own hand. Alfieri has made this the subject of a tragedy. Probabilities, however, are against the truth of this assertion. (Botta, Storia d'Italia, lib. xii.) Cosmo's eldest son, Don Francesco, married the archduchees Joanna, daughter of the emperor Maximilian. In 1569 Pope Pius V., by a solemn bull dated 28th August, conferred upon Cosmo and his successors the title of grand duke of Tuscany, as superior to all dukes and princes, and inferior in rank only to kings. In the following year Cosmo went to Rome to receive his grand ducal crown from the hands of the pope. In his bull the pope set forth the merits of Cosmo towards the Holy See for having entered zealously into the war against the Turks, and founded the military order of St. Stephen, in imitation of that of St. John of Jerusalem, for having given assistance to the king of France against the Huguenots, and having prosecuted the heretics in his own dominions. The Inquisition was established in Tuscany; but Cosmo insisted upon having reports of its pro-ceedings, and that its sentences should not have effect without his approbation. Several, however, suffered death for heresy or blasphemy; one of whom, Pietro Carnesecchi, a Florentine, who was very intimate with Cosmo, and had been repeatedly charged with heresy, being demanded by Pope Pius, was given up by the duke, taken to Rome, and there sentenced to death, and publicly executed in September, 1567

Cosmo spent the latter years of his life chiefly at one or other of his villas, having entrusted the cares of administration to his son Francesco in 1564. Many things are said of the irregularity of his life in his old age, and his sons Francesco and Pietro were worse than their father in this particular. In 1570 he married Camilla Martelli, a private lady of Florence. Cosmo died 21st April, 1574, in the palace Pitti, which had become the residence of the grand dukes, and was succeeded by his son Francesco.

Cosmo, though an unprincipled man, was a very able statesman. In the general breaking up of most of the Italian independent states in the sixteenth century, he found means to create and consolidate a new and considerable principality, which has remained ever since independent, and he thus saved that fine country Tuscany from becoming a province of Spain, like Naples, Sicily, and Lombardy. He had the firmness to refuse Philip II.'s first offer of Siena as a fief of the Spanish crown, answering, that he was an independent sovereign, and would not make himself the vassal of another. He refused the crown of Corsica, which was offered to him by the insurgents in 1564, because it would be the control of the property and the property an cause it would have embroiled him with other powers and endangered his own states. Cosmo encouraged the arts and literature. He founded the Florentine Academy, the Academy del Disegno, or of the fine arts; and he restored the University of Pisa. He was the friend of several learned men, among others of Benedetto Varchi, a republican of the old school, who wrote his history under his patronage, and Cosmo was not offended at the freedom of his sentiments. The Medici dynasty founded by Cosmo became extinct in 1737 by the death of the grand duke Gian Gastone. He was succeeded in his sovereignty by Francis duke of Lorraine, the husband of Maria Theresa of Austria. (Botta, Storia d'Italia; Galluzzi, Storia del Gran Ducato di Toscana; Ammirato, Istorie Fiorentine, &c.) COSMO'GONY, in the proper sense of the term, is the science of the creation of the world. As the creation of the world.

of the world was not observed by man, and as it is not possible for man to observe the creation of a world, so cosmogony cannot be a science founded on direct experience, but must necessarily be a philosophical science. But though cosmogony belongs to the department of philo-

wards annexed to the crown of Naples under the name of Stato de' Presidj.' The Siennese swore allegiance to Cosmo, who left to them their municipal laws and magistrates. In August, 1559, the small residue of the Siennese republic at Montalcino surrendered to Cosmo. All Tuscany was now, for the first time since the fall of the Roman em tain this science.

The doctrine of the creation of the world may be considered in three ways: the inquirer either confines himself to the creation of our earth, and reduces cosmogony to geognosy, geogony, speculative geology, and oryctognosy, (which latter is a science of itself,) or he may merely investigate the creation of celestial bodies, or he may extend his researches to the origin of creative power, and the creation

of the elements of matter.

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The first of these modes of investigation is pure cosmogony; the second is a union of cosmogony with dynamogony, physiogoy, and speculative chemistry and physics. The antients speculated or dogmatized in both these divisions antients speculated or dogmatized in both these divisions of the science. Anaximander considered the sun to be only a little larger than the Peloponnesus; Leucippus and Democritus asserted the existence of different kinds of atoms, and that the soul also was composed of atoms. Heraclitus supposed heat to be the primitive element and the omnipotent power. Plato, besides an eternal supreme intelligence, believed in the existence of a primitive and eternal matter which was divided by the inprimitive and eternal matter, which was divided by the intelligence into the four recognised elements, and vivified by a soul, making the world an animal, with the stars as limbs. Aristotle admitted the elements of Plato, but denied the soul; substituting in its stead individual souls. Epicurus supposed an infinite variety of atoms, which being in constant motion, form bodies by accidentally coming into contact with each other. Empedocles, the most enlightened of these antients peculators, believed that the four elements were not originally individually developed, but were in a state of amalgamation; that, after the development of the elements, enmity (repulsion) and friendship (attraction) became inherent properties of them, and that the soul was formed of these elements, fire predominating in it. Pythagoras, in consequence of his numeric system, taught a central heat, the existence of ten spheres, the sun, moon, five visible planets, the earth, an opposite earth, and the stars; also a music of the spheres, produced by the harmonic movements of the heavenly bodies. The new Platonic school of Alexandria, under Ammonius. Plotinus and Iamblichus, believed every thing to be an emanation or effusion from a supreme power.

Modern cosmogonists may be divided into two classes; first the dogmatists, as Buffon in his Histoire Naturelle, Wolff in his Cosmologia, Maupertuis in the Essai de Cosmologie, Lambert in the Kosmologische Briefe, Dalberg in the Betrachtungen über Universum, Berger in his Philosophische Darstellung des Weltalls, Des Cartes, Opera Omnia, lately edited by Victor Cousin; and Hollbach in the Système\* de la Nature. Secondly, the critical cosmogonists, who conduct their inquiries according to the principles of Kant, as developed in his Allgemeine Naturgeschichte, und Thorrie des Himmels; and in des Naturgeschichte, und Theorie des Himmels; and in de-tached parts of the philosophical systems of Schelling, Hegel, Herbart, and in the Naturphilosophie of Oken, which contains a complete system of cosmogony, dynamology and physiogoy and in a little work of John Müller, entitled Ueber die Entstchung der Welt aus Nichts, of which, as it is the latest German publication on the subject,

we give an abstract.

Müller, after premising that nothing cannot be productive of anything, admits the existence of an original governing power, possessed of omnipresence and consciousness, conse quently of omnipotence and universal benevolence, but unembodied. From eternity this power designed the forma-tion of the world, which could only be effected in one of two modes, either in a pantheistical or spiritual mode. in the abstract, or in the world as it is objectively, there exist no limited magnitudes or quantities, but only the infinitely great or infinitely small, out of the amalgamation of which, things limited or measurable proceed, such a power, as before described, could create the world either with his own entire and undivided power, bestowing on it an allpervading soul, contradistinguished from individual souls,

This celebrated work has been ascribed to Mirabaud and La Grange, but was in fact written by Barou Hollbach, when reading in the house of La Grange.

which is the doctrine of Pantheism; or the intelligence has parted with an infinitely small portion of its power, which of itself created the world: this is the doctrine of Spiritual-This last process this writer considers to have been the case and asserts that the infinitely small portions of power which the intelligence parted with are what we call The continued existence of time not only shows the continual existence of the power predicated, but also dis-proves Prothesia. The act of parting with power or forces, requestly observable in organic chemistry, is apparent to sensitive creatures in space, and the act of parting with time in indefinite space. If an eternity be allowed to an infinitely small portion of power for growth or formation, it must become definite: an eternity of passed time is equal must become definite: an eternity of passed time is equal to existent power. A point being given, as a centre in indefinite space, a nebula is immediately formed by this power, and according to Müller, the action of this original power is three-fold viz by attraction, repulsion, and a power indifferent to both, which is quiescent, and what we call original matter, or physis, or hyle, or wither; and there being a constant prepor hermice of attraction to the centre, the white is attracted or compressed towards it. Besides this, the rebula possesses a rotatory motion, of which even the smallest news namales, and assume the form of a vortex or smallest runts pureaka and assume the form of a vortex or atom. Every vortex possesses attraction, repulsion, whier, and as it turns upon its axis, a rotatory motion. Either the writes has just the degree of relocity in its rotation, which, saided to the constantly decreasing repulsion, is equal to the attractors, and then the vortex is fluid, and assumes the firmers a and then the vortex is used, and assumes the firm of drops; or there is a preponderance of rotation, when the virtex he cases greecus; or there is too lattle country mondon in which ease the vortex concentrates itself may as a because and throws off particles, which more round But it is the first lightly firm a system; the vortex then a so it is fixed. The vortices are atoms; the rotatory monor which when immushed is cold.

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The relative messel is beauty when diminished is cold, and if the times form it is not as it has positively adopted me if the times forms find I mesons or sold, is an element and is anotherfully. There is in the universe an influent index of stempts which differ in their inherent means incoming to the information intuities of other which are not an. These sements may be denominated metals, and if their integer is not the others; when thus overtime an increase is an of the others; when thus overtime are increase is an of the others; when thus overtime are increase is an of the others; when thus overtime are increase is an ordinate. The more sold and how, means among more result as formed a heartenly body in the more of in formation while the highest and finer element is so in an assumed. This is an angular control are more increased in proportion as the immension augmented and money are typic more lense the influence of a limit to the present of the increased in proportion as the immension augmented and money are typic more lense the influence of a limit to the proportion of the influence of the proportion of the influence of th numerisation augmented and consequently are more lense, the matters or at mis became, the greater was their rotating motion, which trouved increase of feet and consequently entential or competition and the traveling off from the enumer of the original control betweenly being masses of pursuant of meeting motion or proof of which it has been encounsed that our end with a traveling motion or proof of which is has been encounsed that our end with a traveling moses from the enumer in the order and that the figure process from the end of the first min times fragments which more entered to the end of the

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Annual of the first of the second of the sec र पर पर के के देशकों के सामार प्रमाणिकार है। जो रिकारिक के स्वारंगिक के सिकारिक स्वारंगिक स्वारंगिक स्वारंगिक स्वारंगिक स्वारंगिक स्वारंगिक स्वारंगिक स्वार

nor with the metaphysical philosophy of the constitution of things, which is cosmology. It is merely the description of the system of the material world, as it is, or as it appears to our senses. Nor does it comprehend any examination of the separate parts of the system, except in so far as each seconnected with the whole, any more than the description of a machine comprehends any account of the wood or iron or other material of which it may be fabricated. Yet this disother material of which it may be moricated. A cut this dis-tinction has been sometimes neglected. There is a work, for instance, by Paul Merula, under the title of 'Cosmo-graphia Generalis,' fol. Amst. 1621, which is in the greater part merely a description of the different countries of the earth, or in other words a treatise of geography. In like part merely a description of the different countries of the earth, or in other words a treatise of geography. In like manner, the English work of Dr. Heylin, first published in 1622 under the title of 'Microcosmos,' and afterwards under that of his 'Cosmography,' is merely a compilation of geography and history. The word cosmography may perhaps legitimately admit of some variety of acceptation, in recar' to the extent of what is to be considered the system of the world, or of the universe. Of the universe absolutely we can of course predicate nothing; but as anything may be called the whole which can be regarded as complete it itself, so the word universe is applied sometimes to the globe alone, which in one sense is the universe to us, and sometimes to that solar system of which our globe is one of the parts. But the term cosmography might also, without

the parts. But the term cosmography might also, without impropriety, be used as meaning a view or description of any separate portion of the entire universe still more extensive than the solar system.

COSNE, a town in France, in the department of Nièvre, on the right of east bank of the Loire, just at the junction of the little river Novain, 102 miles in a straight line S. by E. of Paris, or 110 miles by the road through Fontant bleau and Montargis, 47° 24' N. lat. and 2° 56' E. long Cosne is a town of considerable antiquity, and appears method to the interaction of Antoninus, under the name of Condain a Celtic word, denoting a corner, and applied one monly to places situated in the angle formed by the junction of two streams. (D'Anville.) In the records of the middle ages the town is mentioned by the name of Condainant Con middle ages the town is mentioned by the name of Co. dida.

Cosne is situated in a country rich in iron ore, and is ore of the principal towns for the manufacture and sale of iron goods. Knives and seissars are mentioned by Exp. 's (1762) as the principal articles of manufacture: since b. time the manufacture of anchors of the largest size, came cails, and iron work for ships or for warlike purposes, h grown to great importance; that of cutlery is still carred on. There are several cooperages: gloves are also ma The town is situated at the fact of a plateau or table last. it is neat and well laid out, though in the older part the streets are narrow. There is a handsome theatre, and there are several good inns, and a public walk on the bank of the Novain. The population in 1832 was 5123 for the town, the several good inns, and a public walk on the bank of the Novain.

Before the revolution this town contained several in nastic establishments. It has now a court of justice (Inc. burnel Civil, or Indownal de Première Instance) the court room of which is handsome. It is the capital of an arrodissement, occupying the north-west extremity of the Separatine it, and containing (in 1832) a population of \$65.85°; there are in it many iron works. 5.53%; there are in it many iron works.

COSSACKS, a people inhabiting those parts of the Russian empire which border on the northern dominions. Russian empire which corner on the heathern committees. Turkey, Poland, and Tartary, as well as the southern part of Schena. Both the name and origin of this sing a people are involved in uncertainty; the former they appear to foreve from the Tartar word Kasak or Kaisaks, significable armed mercenary horsened. They were for a horse known by the Causas an appellation of Tsherkass; Orcassional and to this day call their capital Tsherk of Oreassansk and to this day call their capital Tsherkish. As to descent they appear to be of the native Russian or intermined with Tarrais. Calmurks, and Gipsies, an or in with the histories and relations practices. It search a doubt. Russian forms the groundwork of the duffert; in military matters it is committed with Turkish and in local afters with Palish works. The first meeting the of them is about the time of the dissipall of the Tarrais them on it. Russian the time of the dissipall of the Tarrais them on it. Russian the time of the dissipall of the Tarrais them on it. Russian the time of the dissipall of the Tarrais them on it. Russian the time of the dissipall of the Tarrais them on it. Russian the time of the dissipall of the Tarrais the time of the dissipall of the Tarrais them on the time of the dissipall of the Tarrais them on the time of the dissipall of the Tarrais the time of the dissipall of the time of the dissipal made of them is about the view a time distinct on time along the formaling in Rossia. As a useful people they seem to have spring up in Southern Rossia out of the remains of that time note. There, amaginating with the natives in I first time from all pures they combinate extended their power rations - build with a the amount of realitying, to the But and Director because were and villages, and

waging war against the Turks and Tartars. For the purpose of defence they were classed into the married and unmar-ried, of whom the latter devoted themselves exclusively to the profession of arms, warfare, and plunder. They fortified themselves in their head-quarters on an island of the Dnieper called Korlitzkoi-Ostrof, from three streams on the right bank of the river. They gave this settlement the name of Setch or Setcha, while they themselves, from their local position, bore that of Zaporoghes. The married men lived at some distance from the spot, in villages, between the Dnieper and Bug. At this period, the middle of the fif-teenth century, the Cossacks do not appear to have had any regular government; but when the emergency arose they elected a chief, whose authority terminated with the cessa-tion of the emergency. They furnished troops at their own cost to the Voivodes, established in the Ukraine by the Lithuanian princes.

Towards the commencement of the sixteenth century, a kind of military republic, governed by elective chiefs, was established among these rude tribes by a Russian of low origin but great courage. They had not at this time returned the name of Cossacks, nor were they known by it

in history until the year 1516, when they began to act a completions part in Polish affairs.

In 1575 Yermak or Yermolai-Timofief, a Cossack of note, exa-perated by Muscovite oppressors, who had subjugated the Cossacks of the Don in 1549, deserted his quarters on that river, directed his flight along on the Volga, destroyed the Khannate of Kutchum, and then established his followers in the south of Siberia; hence arose the nation of the Siberian Cossacks. In 1580 the Cossacks are first men-tioned as distributed into 'Pulks,' or regiments, on the occasion of their defending Tshegrin, in Poland, against the Tartars, under the command of Ostafy Dakiewitsh. Ten years before, upon their return from a victorious campaign against the Turks, as auxiliaries of Ivan IV. of Muscovy, they founded New Tsherkaskoi on the right bank of the Don. They next accepted the protection of Poland, and, in 1592, Stephen Bathory, the king of that country, divided their forces into 10 regiments of infantry and 2000 horse men, the latter receiving pay out of a tax levied upon the rebel peasantry. He also appointed an Attaman or Het-man as chief over them, and his successors endeavoured on all occasions to interpose them as a barrier against the in-cursions of the Tartars of the Crimea and Budjak, and hence arose their implacable enmity to the Turks and Tax-The encroachments made on their rights by Sigis mund III. gave rise to a long series of contentions, which ended by Chmielnitzki, their Attaman, seeking the protec-tion of Russia in 1654. At this time their force consisted of 15 regiments, 37,549 men strong, besides some hundreds of horsemen. They remained faithful to Russia until the year 1708, when their Attaman Bulavine went over to Charles XII. of Sweden; but he was not followed by the Zaporoghes of the Dnieper. They again became subject to Russia, and in Peter the Great's time we find him disbanding the Cossack regiments in his service, and re-modelling them. This harsh measure induced them to throw them-selves into the arms of the Khan of the Crimea; but they speedily became disgusted with their new masters, and successfully sued for pardon of the Empress Anne, who allowed them to settle again on the Russian territory. Here they remained until they provoked the Empress Catherine by their turbulences, who ordered their Setcha to be destroyed, the inhabitants to be scattered, and the Cossacks of the Ukraine to be formed into regiments of hussars. The Zaporoghes were banished to the peninsula of Taman, and from these exiles sprang the present Cossacks of the Euxine. In later times the Cossacks have been allowed the tranquil enjoyment of their settlements, and have been exempted from taxation on condition of furnishing certain contingents to their Russian masters. In 1831 the emperor Nicholas re-established the regiments of the Ukraine under the denomination of the Cossacks of Little Russia. At present their troops are wholly composed of cavalry, and are thus distributed:—

Imperial Guards.										
Cossacks of the	Don		1	regt.,	10	squads.,	1200			
21	Euxine		1	•	2	•	240			
39	Ural .		1		_	•	120			
99	Attaman		1	•	10	•	1200			

		Of t	he I	.ine.			Men
Brought fo							2,760
Cossacks of the	Don		·	70		350	42,400
,,	Euxin	Ð		21		195	12,600
**	Little 1	Rus	sia	18		90	12,800
"	Siberia	L	•	30		150	18,000
**	Ural			10	,	50	600 <b>0</b>
**	Upper	Ter	rek	3		15	1800
17	Lower			3		15	180 <b>0</b>
"	Volga			3	•	15	180 <b>0</b>
"	Bob			3		15	1800
	-		_			<del></del>	
				164		917	101,760

Besides two batteries of horse artillery of the Don. Onehalf of this force is always kept in readiness for service; the other forms the reserve; the whole however may be called out at once, and the strength of the regiments may be augmented at the emperor's mandate. Every Cossack, between the ages of 18 and 40, is liable to perform military duty. Each regiment is drawn from one or more stanitass or districts, and every Cossack is required to supply him-self with a horse, arms, and equipments. The young are called out first, and men of advanced age are retained as the reserve, unless they volunteer for field duty. The recruits are more favoured than any others in the Russian service; they are neither chained on the march to head-quarters nor subject to bodily examination. In time of war the period of service is unlimited; in time of peace it is confined to three years. The Cossacks of the Euxine, who are attached to the corps stationed in the regions of the Caucasus and Georgia, are almost invariably in active service. There is no longer a local Attaman; Count Razumoufsky, the last chief of the Ukraine, was dismissed by Catherine II., and the post of Attaman of the Don has been suppressed by the present emperor. The nominal dignity of Attaman is vested in the heir-apparent to the Russian crown. The Cossack receives no pay but when in the field or on the Russian frontier. The dress of the soldiery is a short vest in the Polish style, large trowsers of deep blue, and a black sheepskin cap. Their arms consist of a long spear, sabre, musket, pair of pistols, and a whip with a leather thong, called a natraika, which they apply to their enemy's as well as their charger's back. They are mostly members of the Russo-Greek church, enjoy their own independent constitution, and are a purely military people. The only authority that we possess as to their actual numbers is a return of the year 1749, when the number of hearths was 118,459, and of male persons 955,228. In the beginning of the present century Archenholtz affirmed the number of males fit for duty to be 700,000.

COSSEIR, a town of Egypt on the Red Sea, in 26° 7' N. lat., and 34° 21' E. long. It is about 100 miles east of Kenneh on the Nile in Upper Egypt. The caravans which trade with Arabia, proceed from Kenneh to Cosseir, through the sandy desert east of the Nile; the track, about two thirds of the way from Kenneh, crosses a rocky ridge, on the east side of which a valley opens, leading to the coast of the Red Sea where Cosseir is situated. Several springs or of the Red Sea where Cosseir is situated. Several springs or wells are found on this track. The Ataoni Arabs live in this part of the country, and escort the caravans between Kenneh and Cosseir. Cosseir is only an open road, but it is the chief medium of communication between Egypt and Arabia, especially since Mehemet Ali Pacha has become master of the Hedjaz in the latter country. From Cosseir vessels cross over to Jidda, the port of Mecca, or to Yambo, the port of Medina. Cosseir is a small assemblage of poor the port of Medina. Cosseir is a small assemblage of poor dwellings, the resident population of which amounts to only about 1000; but there are large storehouses where the caravans deposit their goods. (See the Chart of the Red Sca, north of Jidda, 1836, published from the survey of Maresby and Carless.)

COSSIMBAZAR. [MOORSHEDABAD.]

CO'SSONUS (Clairville), a genus of Coleopterous insects, of the family Curculionidæ. Technical characters:—Antenna short rather thick: funiculus seven-jointed, the

Antennæ short, rather thick; funiculus seven-jointed, the basal joints longer than the following; club large, and of an oval form; rostrum rather long, thickened at the apex; thorax truncated before and behind, and somewhat depressed above; elytra elongate, moderately convex above, and covering the abdomen; tibise dilated towards the apex, where there is a large hook; tarsi rather slender, the penultimate joint bilobed.

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the set but a three processes in apparent processes the rome per remove to the concessions in the diamed and the could rate to the the extend obtrom a structure plus from the Cassing. How may a it is were not for the dilatest persons of the thoughout their would be of a long and narrow form, but with the acquire they present in oval outline. The thorax is name, and mostly, and its delived in regins as well as these of the clyria, tre communications. The antennee are physica pound the four last fourts are considerably thicker then the preceding and rather flattened; the terminal to start the negatives pulpers is deleted, and of a somewhat to ment a form the head is completely hidden by the anhere rured the thousand

these manets inhabit the south of Kurope, and the northern

and it is maximum colour; the parts of the thorax 17 The visits attend beyond the insect itself are of a p me. It is inficult to give an accurate idea of this el nsect. Then unears is if it were an ordinary shaped be. ressen against the under side of a little oval scale of veso that its impression is distinctly visible above, being it is We present penus, with two others (Helanus and  $N_t$ 

urm, according to Latreille, the second tribe of the fam. Taxic rues, and are neutded under the head Cosyphene.

CUSTA-RICA CENTRAL AMERICA!

CUSTANTINAH, as the Arms renounce time indentiCata, once the capital of Num ... s he writte if the sast hyssien of Algrers, and the large TWR I had whole state next to Alguers itself. It siai. .asteen mean mill munit three sides of the base of w. t we he wer Rummer, which is the principal affice the Valori-acceser, he incient Ampaign. The re-The res emission in vinen the town is built is joined on south-west side iv a neck of land to the adjacent courts Le countre tround Costantina is a high terrace between i. esser or narrime Atias to the north, and the higher entrat main to the south. The Wad-el-Kebeer, and a leatterranean, and the Sirsan or Abeath river, wr lows southward into the Meigigmarsh, bave their sources als high unit. The central Atlas range which runs to the west is ast inrough the province of Titterie, on enter . the orders i the province of Costantina, south of t arrara meantains, which belong properly to the Mar.: Vias, nonnes o the south-east, forming the groups called another south, south, south, and Mustewah; it then joins to Attense a group cannot detect Auress, which is direct sound a Cosmicina, evond which it continues in an evonu. the take brining the mountains of Tipesa, in which the he even me as as sources, and vaich extend into the k. our a l'unis, rom me denei Auress, however, an or-.s leadened ') he horth-east, separating the waters of the terrice it cosmit ma which flow northwards into the Manager-Access and the Serboos from those which flows which will be supported by the flows which f made, and owners he sources of the Mejerdah, are made a Mescanam renowned for their fertility; they to ong othe province at Costantina, and border on Tunis.

Allong de lowns are I pea or I pasa, Gella, a frontier tow and carrison hear me Mojernah, which is here called Serra mic officer forth, in the failey of the Sujeras, an affluent be Mejernan, . I desh, the ancient Thebestis. I 'the country has been latery visited from the side of Ture w Sie Greende Lempie, Excurnous in the Mediterranest.

The road from Algrers to Costantina, after crossing the wer loser, russes over the southern skirts of Mount Jurgan and their enters a narrow lettle called by the Arabs Beeban. ne goes, and wine Turks Dammer Cappi or the ingates, which is out inrough perpendicular rocks. Six m ast at the another difficult pass called Accaba, or the second, being over a raige which seems to connect the Martime this with the more south or central range. Total its over a high narrow ledge with precipices on carnam is terrace of Wivanah. In this region the Booseless an affluent of the Boolevan river, has its source. Procesing to the east is Zammorah, known for its olive planwons, and further on the road to Costantina is Seteef, to Colonia Sit fensis, of which Shaw describes some rema-The town stood on 1 h il facing the south, near the Boosellain In the plains south of Seteef, which consist chiefly of pastice and, I well several Arab tribes, one of which, the Beni Anmer, have a very bad character. About twenty miles soull. east of Setect, are Taggah and Zainah, in a fine of country at the north base of the Jebel Mustewah. Zamah. Shaw saw the remains of a triumphal arch in bomour of Severus and other antiquities. He thinks that Zamah is probably the ancient Zama. About fifteen mass cast of Zamah is Medrashem, in a plain on the skirts of the Jebel Auress, with a handsome sepulchral monument surported by pillars. On the opposite or south side of the Atlas ridge lies the valley of the Shatt or Shott, a mars. into which several streams empty themselves, and which : again separated by another more southern ridge from :1.
Zaab, or valley of the Adje-dee river, where the Biscareer. Parts of Manager inhand the About ten species are known. Zaab, or valley of the Adje-dee river, where the Biscareer's tempth of the Shatt are the ruins of Thu-

consequence of the country as infinite and governed potential flexions below the formular of the country as infinite and Consequence (there are no consequence) and the country of the Recommendation of the country as infinite and Consequence (there are no consequence) and the country of the Recommendation of the Country of the Country of the Recommendation of the Country of

greater by a Maria of the States by more than a resolution of the states of the states

If a see al, Junjan proper un, has had from record off from a way had filled the most hone inches offers of from a way and about home from the from all from others of any day property and and tradity under sell from the hand to another without home from home hand to another without home from home from the well resonant home from the fireholds Collins, the tutor of his youth, who way an add parthermon of very formanous memory, used to relate that, who has was a boy, he had often heard one Cannollius, then un old man upwards of eighty years of age, who had beau a bookhinder, said, in his youth, had assisted in the printing office of Coster, describe, with great carnestness, the various trials and experiments made by his master in the infinity of the invention: upon which occasions ho would even shad tours, especially when he came to the robbity committed by one of the workmen, which he related with great valuemence, consing those nights in which, as he cand, for some months, he had slept in the same bed with no vide a inherenant; and protesting that he could, with the naturest planatic, execute the third with his own hands, if he had been still alive: which relation, as Junius tells us, corresponded with the account which Quirinus Talesius, the lungementar, confessed to him he had heard from the month of the same old bookbinder.

It is mainly upon this testimony that the writers of Holland Road what they consider the undoubted prefersions of Haarlem by the invention of printing. Junius is the extinent writer at present known who makes express ment on of Lawrence Closter as the inventor of typology, but he extinents was not the fliest who asserted to the a was tax tool at Haarlem. Seriverius mentions as we as a received at Haarlem. Seriverius mentions as a received tool at Haarlem, Seriverius mentions as a received tool at Haarlem, to week the series of that eith. Theodore Volumes and who was fer some time seabilities of Haarlem, in the series of the received at the tool of the received to the series of the received at the received to the received at the received to have a received to the received to the presence of the received to the received at the received to the received

The last, little with a regard and the last of the breefing of the majority are established in and the population, and the number of hands employed on opwards of 6000. There were 19 schools in the principal, and as the average increase for the years land in the year 1632, independently of 11 ecclesiastical marks. In 1795 the population amounted to 1 was upwards of 11,200, it cannot at present be established in and as the average increase for the years land their hand, 500,000. Two-thirds of the rural principal tomes in quest of subsistence in other quarters province contains 12 circles, 17 towns, and 851 principal towns and Galitsh, and in 1830 contained 11 monas 3 nunneries, 13 what are termed cathedrals, and churches. The revenue which Costroma yields is 3,300,000 roubles a year (about 150,000 sterling) principal towns, besides Costroma, the capital, are G (about 7000 inhabitants); Makurief, the town next in tunce to Costroma for its trade (3000); Yurgowetz Powd (2600); Sol-Galizkaya (3400); and Kinishna (2400).

COSTROMA, the scat both of the civil government of the province and of the military government of Canand Vladimir, is agreeably situated at the confluctho Volga and Costroma, or Kotorosla, in 57° 45′ N and 41° 12′ E. long., about 325 versts (about 217 min.) the north-east of Moscow. It is said to have been built year 1152, and was united to the grand duchy of M by Ivan Vassiljewitsh I. A wall of earth, which been converted into walks, surrounds it. The utility of the town covers a height, on the summit of which the cathedral, a handsome edifice, surrounded by treshowy buildings. In this quarter are the gover: buildings with the 'Gostinoi-Dwor,' or bazaar, a s quadrangle with piazzas, facing them; and betwin: is the flower and fruit-market, which is held under covered with canvass. Below this upper town, and the lower town, is another quarter, built entirely of s and along the high banks of the Volga runs the quarter, consisting of a long line of neat houses, of and stone, relieved by the trees and gardens interbetween the buildings. Cestroma contains 42 char hosales 11 chapels, a mosque, and 2 wealthy and st. monasteries. One of these establishments, that itsken, founded in 1330, is celebrated as having be spot from which the erar. Michael Fedorovitsh R m spot from which the crar, Michael Fedorovitsh R in the father of the present dynasty, emerged, in 16, ossume the score of Muscovy. The gate through he then turned his back on the hold and cowl his kept closed ever since. The bishep of Costroma his resolution in this mountain, which is enclosed with a will. There is a Tartar solution and income outside walls. Costroma is an afficient and thriving the back and have been a failed and thriving the has a anthony for the integers an ecclessation A field anda docter formed a been booked by the a rich which end a district seriou and it is to be about to too high turns, who are employed partly and march in ho marufacture of linears. Bestimbly, one was wan has been back for. It has person at 100000 to be word are provided as to the word are provided as to the word are not to the account of the word are not to a common to the account of the word are not to a common trained as a startered of the word are not to the account of the word are not to the w

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courts, shall otherwise order. The disposition of the courts, with regard to this act, appears to be not to interpose in be-half of the plaintiff, unless the defendant has brought the action upon himself by practising something like a fraud upon the plaintiff, thus discouraging the practice formerly prevalent of bringing merely speculative actions in a representative character, under the shelter of immunity from costs.

In penal or qui tam actions, the plaintiff's right to costs depends altogether upon the provisions of the statute which creates the cause of action. There are also express statutes which impose additional liabilities upon a plaintiff of this class under certain circumstances.

When a party has obtained the permission of the court to sue in formal pauperis, i. e. to be provided, on account of

his poverty, with all necessary writs, as well as with counsel and attorney, gratis, he will not be liable to pay any costs, but he will still be entitled to receive them.

The mode in which the amount of costs payable between the parties is ascertained, is by taking the Nisi Prius re-cords, with all the papers, briefs, and other documents, to the proper officer of the court, who then taxes the costs according to a certain prescribed scale, allowing or disallowing particular charges at his discretion. Before the late act for the amendment of the law (3 and 4 Will. IV., c. 42), a different system of taxation prevailed in the different courts at Westminster, to remedy which defect power is given to the judges, by the act referred to, to make regulations for establishing an uniform practice in all.

Hitherto we have only considered single costs, or those derived from the statute of Gloucester. In some cases double and treble costs are expressly given by statute: and wherever a statute gives double or treble damages, plaintiff shall also have double or treble costs. The following is the manner in which double costs are calculated:-First, the prevailing party is allowed his single costs, which include the expenses of witnesses, counsel's fees, &c., and afterwards he is allowed half the amount of the single costs, without making any deduction on account of counsel's fees, &c. Troble costs consist of the single costs, half the single costs, and half that half again.

Such are some of the principal matters relating to costs in actions at law, a subject so purely technical in its nature, that any minute inquiry into its rules and mode of administration would be foreign to the purposes of this work. Between the courts of equity and those of common law there is this important difference with respect to costs, that the former are not bound by any of the enactments above enumerated, but are invested with a discretionary power upon the subject. In the exercise of this power they are guided, not merely by the event of the suit, but by a consideration of its real merits, and of the interests of the parties concerned. Thus, although the party failing is primd facie liable for the costs, he will be relieved from the burden if he has prosecuted the suit in the conscientious discharge of a duty imposed upon him as a trustee for the benefit of others. On the other hand, a party proceeding erroneously will not be allowed the costs of his erroneous proceedings, even though the decree of the court may ultimately be in his favour.

In created proceedings the rights and liabilities of par-ties to cos's depend altogether upon express statutory enactmeets. With a view to forward the ends of justice, pro-'ae finds if 'be county, at the discretion of the court, the expenses incurred by prosecutors and their witnesses in most of felow. (Hullock on Coste; Tidd's Practice; Amnocials Practice of the Court of King's Bench; Grant's Practice of the High Court of Chancery.)

OTA DOR a locariment in France, forming part of he ancient provides if Bourgegne. It is bounded on the nert in the tenartment of Aube, on the north-east by that t maute Marrie, on the east by that of Haute Snone, on west in the saint of Jura, on the south and south-rest is that if Saint et-Lure, on the west by that of years and in the north-west by that of Yonno. Its form resources many; the greatest length is, from N.N.W. - i 3. usuat sighty miles; and the greatest breadth at at ingles to the length is about seventy miles. The area A second line south-east of Paris, or 185 miles by her house, Sens, Joseph, and Tonnerre.

This department is traversed in the direction of . breadth by hills, forming part of the chain which comes the Cévennes with the Vosges. A range of these hills the south-west of Dijon is called Côte d'Or, the goli-

slope or upland, and gives name to the department.

These hills separate the basin of the Seine from that the Saone and Rhône. The Seine itself, and its tributar. the Brevon and the Ource, with its feeders the Diger. and the Grame, rise on the north-western slope of unhills; as do the Voisin, the Cousin, the Serein, with feeder the Argentalet, and the Armançon, with its feeds. the Brenne, the Lozerain, and the Loze, whose waters. find their way into the Yonne, an important tributary the Seine. The Ource does not rise in this department but just within the adjacent one of Haute Marne; it : however the greater part of its course in the Côte de-On the south-eastern slope of the hills rise the Tille, w its feeders the Ignon and the Norges, the Suzon, a : butary of the Ouche, and the Meuzin, Mauzin or Meuzi with its tributary the Bouzoire. The Ouche rises on northern side of the hills, but passes through a depress: by which the chain is separated into two parts, and, with . the waters from the south side, flows into the Saone. I Dheune or Dheure, a tributary of the Saône, flows along southern boundary of the department: the Arroux and Gors, which fall into the Loire, water the south-western The Saone waters the south-eastern part of the departure

In agricultural produce the department of Côte d'Or on the whole, rich: the quantity of wheat raised is half. much again as the average produce of the departments France, and in rye and mixed corn double. In maise . wheat, and potatoes, very much below. In wine, when the range of the Côte d'Or extends, the produce very great. Not only is the quantity of land occupied the vine more extensive than in the average of the de; ments, but the vines are much more productive. The vin which is chiefly red wine, is known by the general nam-Bourgogne (Burgundy): the first growths are La Roman-Conti, Chambertin, Richebourg, Clos-Vougeot, La Roman-St. Vivant, La Tache, St. George, and Corton: of w wine, the only first growth is Puligny. Much wine is a ported. The quantity of woodland is much above Much wine is a average. Horses and horned cattle are numerous, 12: cially the former; but of sheep the number is compa-tively small. The wool grown is altogether insufficfor the wants of the department; and as there are woollen manufactures, the inhabitants have to imwoollen cloths and other goods. The fields in this degrat ment (on the western side at least) are divided by quite.

hedges as in England.

The north-east part of the range of hills which we i. mentioned as crossing the department, contains iron: there are many iron-works, for carrying on which the qui tity of wood affords great facility. The department is provided with the means of communication: the high: from Paris by Dijon to Geneva passes through the m: of it, and that from Paris by Auxerre and Chilon-Saône to Lyon crosses it in the south-west part; these both roads of the first class. Roads of the third class nect these two: one from Monthard to Saulieu; an. from Rouvray by Vittaux to Dijon; and a third from D by Beaune to the village of La Rochepot: five other reof the same class unite at Chaullon-sur-Seine, in the part of the department; and two others lead, one f-Dijon to Langres (department of Hauts Marne), whe r meets the high road from Paris to Bâle or Basel, and other from Beaune to Dôle and Besançon. The Cana Bourgogne traverses the department, following the valle of the Armançon in the north-west and the Ouche in : south-east. The Saone is the only navigable river. The is no predominant manufacture in the department, uniwe except that of iron wares: some cottons and wooise are made; also paper, leather, hats, earthenware, coptutensils, and some chemical articles, as soda, chlorine, a acetic acid.

The department of Côte d'Or is divided into four arr dissements or sub-prefectures: that of Chatilion in morth, population 52,226; that of Dijon in the east, p lation 135,435; that of Beaune in the south, populate 117,996; and that of Sémur in the west, population 70....
The department constitutes the discouse of Dijon, the bash

of which is a software of the greekishep of Lyon. It is unset the production of the Cane Royals of Djob and the state of the production of the Cane Royals of Djob and the state of the production of the Cane Royals of Djob and the state of the production of the brown below to the state of the production of the brown beautiful to the state of the production of the brown beautiful to the state of the production of the brown beautiful to the state of the production of the brown beautiful to the state of the production of the brown beautiful to the state of the production of the brown beautiful to the state of the production of the brown beautiful to the state of the production of the brown beautiful to the state of the production of the brown beautiful to the state of the production of the brown beautiful to the state of the production of the brown beautiful to the state of the production of the brown beautiful to the state of the production of the product the window is a collection of the Core (Royale of Lipse), and sends for unreadown in the Chamber of Deportion. It is in a set the control of the Chamber of Deportion of the two are through.

The principal town are Diport pepulations of Allah first the control of the Chamber of Core of the Chamber of Core of the Chamber of Chambe

Protestants: after the town had expitulated, it was set on [ are, and sunsy of the inhabitants massacred. The walls were afterwards allowed to go to decay, and ultimately the were untervalves arrowed to go to decay, and ultimately the situ of theirs arrel of the ditches was disposed of for building housens. Course woollens and paper are made, and there are many dye-houses. The neighbourhood affords good building and paving stone; but it is especially famous for its wine, which hears the highest character. The population, an electric in the bisease productions do in Florance of lation, as given in the Forces productives de la France of M. le Baron Ch. Dupin (1827), was 2633. Thuret, a French navel commander, killed A.D. 1760, in a naval combat with the Knglish, on the coast of Ireland, was a native of this

Meuranuit, rather a village than a town, is in the neighbourhood of Beaune. It is funous for its wines. The population, in 1832, was 2016 for the place itself, or 2066 for the whole commune.

Montbard or Montbart is on the road from Paris to Dijon by Jougns and Tonnerre, 142 miles from Paris and 42 from Philon it is on the river Brenne, a little above the junction of that river with the Armancon. The town is built on the slope of a hill, and behind it rise the gardens of the château which has been rendered illustrious as the residence of the naturalist Buffon. In the highest part of the gardens (which include the summit of the hill) is an antient tower, the relie and memorial of a easile which in feudal times commanded the place. The walls of the easile and several commanded the place. of the towers were standing till a comparatively late period. The town is divided into two parts by the Brenne: the streets are steep and irregular, but neat. The inhabitants, in 1832, amounted to 1916 for the town, or 2074 for the whole commune: thei manufacture day skin gloves, laces, weellen the hours of the engineering wood, he may wood, and heaver. There are some monoworks at the allage of Buffen in the reach a book, established by the great naturalist; problems also quint of not far eff. The house of M. Buffen was the man street of Monthord, and is a plain building; the construct of Monthord, and is a plain building; the construct of Monthord, and is a plain building; the construct of Monthord, and is a plain building; the construct of the gastien is lade out in termose thing one photo a whore and the today in the construction from which Buffen who a whore and the today in the position in which Buffen who a construct of the great work is still standing. In the construction of the first time of the first time of the furniture of the first time of the first time of the first time.

It is not to be the construction of Monthord, which we are to be a second of the construction of the first time. The construction of the first time of the first time of the construction of the first time. The construction of the first time of the construction of the first time the construction of the first time of the construction of the first time. The construction of the first time of the first time of the construction of the first time of the first time. The construction of the first time of the first time of the first time. The construction of the first time of the first time of the first time. The first time of the first time of the first time of the first time. The first time of the first time of the first time of the first time. has be There are some non-works at the village of Buffon .

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trade in grain and hay, and manufacture woollen clotical serges: there are some breweries.

Selongey is a small town on the Venelle, a stream flowing into the Tille, but which is in summer often to up. It had, in 1832, a population of 1687. Good have are bred in the neighbourhood. The other towns are B. Grancey-en-Montagne, Is-sur-Tille, Mirebeau, Pontain up. Sanne St. Seine, Sombernon and Thilles Châtel in the stream of the stream Grancey-en-Montagne, Is-sur-lille, Mirebeau, Pontai.
sur-Saône, St. Seine, Sombernon, and Thil-le-Châtel, in arrondissement of Dijon; Bligny, Châteauneuf, Citc. where was a celebrated abbey [CITEAUX.], Mont St. J. and Pouilly, in that of Beaune; Bussy-le-Grand, Ciccaux, Epoisses, Flavigny, Moutier St. Jean, Sainte Recand Rouvray, in that of Sémur; and Aignay-Côte-Cotagneux, Laignes, Recey, and Vanvey, in that of Citillon, But the population of each of these towers is retillon. But the population of each of these towns is pr

bably below 1500.

COTE' DROIT, COTE' GAUCHE, the names given the two great divisions of the Chamber of Deputies. French representative assembly. That assembly, like mother representative bodies in Europe, consists of includes some of whom are inclined to favour the royal properties while others are inclined to favour the royal. rogative, while others are in favour of democracy, or polisupremacy. The former take their seats on the bear, which are to the right of the President's chair; the conthose to the left. The shape of the House is a science, with nine or ten rows of seats raised one of the other. The President's chair is in the middle of chord, facing the assembly. As in every great polyparty there are shades of opinion, some being more warm and violent, and others more moderate, discriminating. cautious, so both the coté droit and the coté gauche generally subdivided into three sections each. The m realous royalists take their seats at the outer extremit. their side of the House towards the President, and styled the 'extrême droite;' the ultra-liberals sit co : corresponding seats on the opposite or left side, and astyled the 'extreme gauche.' Next to each of these co the two divisions, which are simply styled coté droit coté gauche, or la droite et la gauche, composed of a coté gauche, or la droite et la gauche, composed of a coté gauche, or la droite et la gauche, composed of a coté gauche, or la droite et la gauche, composed of a coté gauche, or la droite et la gauche, composed of a coté gauche, or la droite et la gauche, composed of a coté gauche, or la droite et la gauche, composed of a coté gauche, or la droite et la gauche, composed of a coté gauche, or la droite et la gauche, composed of a coté gauche, or la droite et la gauche, composed of a coté gauche, or la droite et la gauche, composed of a coté gauche, or la droite et la gauche, composed of a coté droite et la gauche et la who are the professed supporters of certain fixed prinmonarchical or popular, free however from violence or f.... From the middle of each side of the House to the policy twilly opposite to the president the remaining sections, in the two-fourths of the semicircle, are called the centre in ing two-fourths of the semi-circle, are called the centre? and centre gauche, and are occupied by members whithough with some shades of difference in their opinions, raily yote for ministers. These two centres united form all one-bill of the House, and are in first what in England's be called the ministernal side of the House. But insome opposition, as his been until new the case in the Burtlament, there are in France two oppositions, rightleft, of corresponding sentimines, one member and the left, of opposite scatterings one repairst and the liberal. According as the measures of the ministry to those being are accordable to either of these two they obtain the voies of part of other costs who had been costs who had the

the two contrast grees the majority to ministers.

In the legislative assumply which succeeded the various of or community the left with the factority of the majority of the majority of the majority of the left was secured the minimum the left was secured into Giroland which were themselves for held minimum for the majority of the m and Man agrands. The name of Mantagne was given the extreme to remove pure bounded in members of the large waters such that the waters such that he was the such that the waters waters are the waters with the water waters water waters with the water waters water wa

there has no the above series of the little where so in a constitution through a manifold of heads durk at 15th at the first through a first t and the commence and a property of the state of the state of Can be a uni la Reine de Dura nad se una se a servicio. El servicio nad se una se a servicio nad securita de se a se a servicio na securita de securit the walk story is in their per reporter, in the critical. The first state of the second of the second

The medicannical papers of Cambrier published after to death to D. Smith, under the title of Harmonic Mentional and the property of Cambrier published after to death to D. Smith, under the title of Harmonic Mentional and analysis of synthesis per reficient of supersolution are solved as a solved as a solved by the first description discussed by grown of 0 to, that it was the earliest work in the total description of the state of the calculation of leading and of the properties of the carelest of the calculation and of the properties of the carelest to the calculation means. The first has a combine an arranded comparison waters of to, without, with applications of them to the office of rows. The count is what we discald now call a to of one with a properties of a probabilities of the second, have office as a count of the second, have office as a count of the second, have office as a solvent of the second and the first photon of the second of

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Junch esterond, positive in copyral, and seed in Paris. The divided. Historycoval. It lies not the coset of the speed operating of wood is not gree, and there are no conquise, as a present problem of the laterity, were there in the problem of the laterity, when they are provided in the coset of the speed operation. This return Distriction, The construction in 1992, and a finished or the laterity, when they are information in 1992, and a finished operation of the laterity when the seed operation of the laterity when the seed operation of the laterity when the seed operation of the value of the laterity when the seed operation of the value of the laterity when the laterity when the laterity of the laterity when the resonance of the value of the laterity when the laterity of Here (the Seven Islands). Les Triagness the He Melenne of Malaman, and Le Taurana, are to the west of Pointe do Choos.

The Mémes manufame from through this department in the direction of its length, and parallel to the coset, the productions on the north ands flow a mention of streams, the question distribution of the closin is granted. From these mentitions on the north ands flow a mention of streams, the question discount of which is morth and south, and which other a short course full into the English obsamel. The Rance flow flow towards the east, it then towards methodically the department of His et Vilame, fails into the tract of the department of the et Vilame, fails into the tract of the course it is unable course in about sixty onless, to different which it is congressed. In the could in which they recent from east at waster file in the could in which they recent from east at waster flow in the could in which they recent from east at waster flows and the Readle, another France; the Keyran His Lines the issue past below it; the legitle Triany, with its relumination of George chark passes Learning with its relumination of the Loff, the Jandy and the Guindy, which into a first the found of George chark passes Learning with its relumination of a triangle of the Menez mountains; they have a the History of the Menez mountains; they have a the William of the Breat Rose, the History of the Menez mountains; they have an the department of the Breat Rose, the Forest, the Line, the Triant, the Lipse, which fall into the Breat Rose, the Loff, and they are the forested in the department of the Rose min the Guing History of the Menez mountains have a dry stemy self, and the file of the Congress, and cline, and the Lipse, which the Ones, the Forest, the Line, the Triant, the Lipse, which the Ones, the Forest, the Line, the Triant, the Lipse, which the Ones, the Forest, the Line, the Triant, the Lipse, which the open of the construction of the open of the construction of the open of the construction of the total and co

the name of Breton linens; in making which, in several places, many hands are employed. Like the other departments of Bretagne, this is remarkable for the preponderance

of the rural population over that of the towns

of the rural population over that of the towns.

The department is divided into five arrondissements; viz., Loudeac in the S.E. (pop. in 1832, 98,604), and Guingamp in the W. and S.W. (pop. 115,679), both in the inland parts of the department: Dinan on the R. (pop. 111,739), St. Briene in the centre (pop. 171,730), and Lannion in the W. (pop. 103,120), along the coast. The chief towns are St. Briene, the capital, on the Gouet (pop. 10,420), Dinan on the Rance (pop. 8044), Guingamp on the Trieux (pop. 6100), Lannion on the Guer (pop. 5196 for the town, or 5736 for the whole commune); for an account of which the reader is referred to their respective articles. Of which the reader is referred to their respective articles. Of the other towns we shall subjoin a brief notice.

Lamballe is in the arrondissement of St. Brieuc, and on a river which unites with the Evran: it is on the high road from Paris to St. Brieuc, 266 miles from Paris and 12 from St. Brieuc. It is supposed to be an antient place; and according to some, derives its name from the Ambiliati or Ambialistes, or Ambialites, who (according to some MSS.) are mentioned in the Commentaries of Casar (de R. G. III. 9) among the allies of the Veneti in their naval war against the Romans. The town is surrounded with old walls; the houses are whitened; and the situation of the place in the midst of orchards, gardens, and meadows, renders it very agreeable. It is divided into the upper and lower towns, and has, beside, two suburbs. There is an antient castle, formerly belonging to the Dukes of Penth èvre, and a promenade attached to it, planted with large trees. The inhabitants amounted, in 1832, to 4390: they manufacture the best parchment in France, thread, linen, and leather; and trade in cattle. There is a library attached to a reading society in the town. La Noue, a celebrated Huguenot captain, was killed, a.n. 1591, at the siege of Lumbaile, which was held by the Duke of Mercœur

against Henri IV. Quantum is on the upper part of the river Gouet, about 10 or 12 miles south-west of St. Brieuc, in the arrondissement of St. Brieuc. It has an antient eastle of singular architecture; and in the neighbourhood are two Druidical obelisks or stones, of 26 or 27 feet high, one of which is yet standing; the other has been thrown down. The inhabitants, who amounted in 1832 to 4293, manufacture and export fine linens and iron wares; they trade also in honey,

hides, wax, and hats.

Triguier is in the arrondissement of Lannion, near the sea, at the junction of the rivers Jaudy and Guindy: it is p. 4 on any main road. Tréguier was, in the middle ages, a place of greater consequence than now. It was the seat of a bishipme, erected in the ninth century, and appears to have been a prosperous place of trade until it was burnt, A. D. 1592 by the Spaniards who supported the party of the Dake of Mercour, a blow from which it never fully يتدريه فتخرح

It has now a population of 3178 persons, who carry on the manufacture lines years, and THE A LIMITER of the best horses in Bretagne. A good if here is grown in the neighbourhood, from which is made. The port of Treguier, which is formed in a manuary of the ervers, is safe, and accessible to vessels

1 2 4 7.103

wars a sea are arreadissement of St. Brieuc, on the Task by he from the mouth of the river Trieux: it is not ave man real. Pampol has a safe and convenient . r . r r va. in vessels are fitted out for the Nowand the linery and a me trade is carried on in corn, the and men vari. The population in 1832 in the line was a first the whole commune.

The manufactured here.

2 - - - x < n the arrand.sement of Gulingamp, on the The A min which it takes its name), several miles to me and and a con any main road. The popula-تم ينزي عن أيماً for the town, or 1647 for the whole

\_ n.e. - NEES are—in the arrondissement of St. iren, between St. Briouc and Chopu-- - Liren, between St. Briouc and Guingamp, Pan w Le manune 5453), St. Jacques, Lanvollen,

and Pommerit:--in the arrondissement of Dinan. Jug :. on the Arguenon, on the road between Dinan and Lan balle, and Matignon on the coast; with the bourgs Broons, St. Jouan de l'Ile, and Plancoet:—in the arridissement of Gulingamp, Callac near the Hière, and Ratrenen near the Lorette, both in the mountainous part the department; with the bourgs of Belle-ile-en-terre a:: Bourbriac (population of the commune 3613):- in the rondissement of Lannion are the bourgs of Plestin (popula: of the commune 5040), La Roche, Lezardieux, and Variat Marché:—in the arrondissement of Loudéac, Corlay, betwee: Guingamp and Pontivy, on the river Salon; Uzel, near the Coust; and La Cheze on the Lie; with the bourgs of Plentin (population of the commune 3013), Colinee, St. Carade. Gouarec, Langast, and Merdrignac. Where the population is not given it does not amount to 1500 for the town. 3000 for the communes. There are several villages in the department which have a large rural population; as Plousa Plelo, and Louargat, which have above 5000 each; eleve. others have above 4000 each. Of the towns mentioned above Uzel is one of the chief marts in the department is the sale of linens; Jugon trades in linen, butter, and corrand Châtelaudren in linen yarn, corn, trefoil seed, catter. butter, and honey: this last-mentioned town was some years since nearly destroyed, and most of the inhabitare. drowned, in a great flood, caused by a neighbouring last breaking its banks. The village of Corseul, not far fr. Dinan, preserves the name of the Curiosolitae or Curiosolites, the tribe who, in Cæsar's time (Cæs. de B. G. II is III. 7, VII. 75), inhabited the district. The traces of a considerable town, destroyed many ages since, may be perceived near this village.

ceived near this village.

The department of Côtes du Nord constitutes the diocese of St. Brieuc, the bishop of which is a suffragan of the archbishop of Tours. It is under the jurisdiction of the Cour Royale or high court of justice of Rennes, and a comprehended in the XIIIth military division, of which had appears to the head curvature. Rennes is the head quarters. It sends six members the Chamber of Deputies. Education here, as indeed throughout Bretagne, is in a very backward state.

COTINGA. [Coracina (Coracina Scutata). PIATHAT.

PROCNIAS.]
COTTAGE. [House.]
COTTAGE ALLOTMENTS may be considered as switched by labourers, either attached to, or portions of land hired by labourers, either attached to, crapart from, their dwellings, as they, assisted by their famlies, may be able to cultivate without ceasing to let out : services daily to others. They are thus distinguished free larger portions of land which require some capital and the occupier's whole attention, and consequently partake most of the character of small farms. The object of contact allotments is to increase the resources of the labour. firstly, by supplying him with many necessaries and cro-forts which he would have a difficulty in purchasing from a portion of his wages, and which, if even he could do so, would purchase at a great disadvantage; secondly, by a abling him to turn everything to profit, so that noth a need be lost. With regard to the quantity of land who ought to be let to the labourer for this purpose, there have been much discussion. Various experiments have been tried, and the opinion of the persons best informed upon: subject appears now to be, that a quarter of an acre is at : the quantity which, without prejudice to his other emry ments, a labourer can in general thoroughly cultivate, a consequently derive the greatest profit from; but this. course, will vary with circumstances. A large family, act: of whom can assist, and uncertain employment, may remain a larger portion desirable. In limiting the quantity to a quarter of an acre of land, it must be understood that we are speaking of land under cultivation; where means base been found in a neighbourhood for letting a sufficient quartity of pasture to cottagers for one or two cows, no inconvenience has been found to result, while a most import. ant addition has thus been made to their means of sub-But the possession of a cow or cows by labourers s attended with other advantages: An appropriate employment is thus supplied to the female portion of the families, whom mechanical inventions have deprived of t: facility which they formerly had of gaining their liveliho-by knitting and spinning. Cheap and nutritious meets re-afforded to persons of all ages, but more particularly co-dron; and additional facilities are given for keeping particularly cowhich contribute not only to the immediate support of ties

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The named marries and the mode in which cotton v 4 entilled the armountment of tissues in this country, up to to as a ready been shown in this wer. METRICHT. The lotton goods of which mention we in the marry listory of the manufacture were mix. FIG. 1 WHEN the Warp was composed of linen and on ...vert i stom the mode of spinning then in use: ...vert sometent strength to dt the latter for being us wire. This inficulty was surmounted by the inventional whose met patent was obtained in it m when me cotton inbries have been made exclusith that materns. The progress of the manufacture to That have promise of the rapid extension which if mervirus elimined. In 1764 the quantity of cotton in men was \$70.794lbs, and the annual average from the annual average from the annual contemplation of points. your and amount. In the five following years anoma verage mannity was no more than 6,766,613: 1 ...e ...anniiv used was 30,603, 451lbs., and at the me the manufacture continued stationary during the teremover it the community of the yearly average is taken. I we be so war in the last mentioned series, the quite ov so cove or millions of pounds. From that the the new restriction to immortant, the annual average of surption same on minious of pounds; but with the refera make at marrierumary impulse was given to the train. in the minute therefore consumption of cotton, taken 2 minuse c. me y mrs. (as been as follows:-

be convening a mement of the production of cott names of the condition in different periods during the second condition and collection of tables in the condition in manufacture, and foreign trade the condition ampired by other of the American congress and the condition appear of the American congress and the condition of the United States' treasures across appear to have been compiled with great of the trade to the condition of the united states. The following the second condition and the condition of the following condition of the condition of

Total ; c L = 1 Raw Cr	Other parts of the World.	Mexico and South Ame- tica ( Acid- Sive of Trans.)	cls	. 144 2 244			*****	•.		No.		٠.	47 V	***	Ness 10 san as Total	•	t vaci	٠,	ALC:	1	(ilin	- 1
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The first thin given by Mr. Woodbure, dowing the strength of t

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It opposes from he foregoing figures that rather a han we carries cas per control all the cotton sent a from he places of production are shipped to Englar 2 survive emarkable, that winds the production of the crowle has increased in the United States until 2 requais no production of the whole world as it exists. e, the positive grown in all other countries, which is verpenon or linear and Egypt, has materially decrease this beaut has been attributed to various causes, an winch may be mentioned the good quality of Ame ... cotton, the low piece of land there, and the great inq i ments that have been made in cleaning the cotton from and by means of Whitney's saw-gin, introduced in 17 It is evident however that the greater part of these asvariages might have been shared by many other courses in which the soil and chinate are equally favourable for . branch of husbandry; and it will probably be more government with the fact if we attribute the success : American planters to their greater intelligence and indiaseconded by the commercial enterprise by which it. country is characterized.

During the period in which the increased production of the period in which the increased production of the period in which the greatest rapidity of the prices have been continually declining. It is \$73,150,000 the table of prices given by Mr. Woodbury as those of the prices given by Mr. Woodbury as those of the prices given by Mr. Woodbury as those of the prices given by Mr. Woodbury as those of prices

On Three States, of the places of experision, and in pulse, all kinds of conton, it conferent that the evenes-ness of wash queend of five years, from 1794 to 1932, has been as follows, but

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		4 II.	
See Island	2 1 0	or in the part of the	
Not Island Democrate and Buchoo		1 1	
Responses			
Promambaros and Cours.	- B. OR	7.7	
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New Orleans .	- 11 74	0.116	
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micran  n. Bast Ludio Company's fore Trifials West Indias  Browl  United States of America  Office places		 0,181,017 Hei, 01,000,011 1,010,270 24,090,300 280,000,010 6,000,444
	West.	202 202 202

The growth of this trade has been rapid beyond all comparative of the first the fold imports were comewhat has then 20 augustus pounds, no part of which was farmined by North America. Our West India colonios applied marrly meethers, about an equal quantity was trought from foreign relative in the same quant quantity was trought from foreign relatives in the same quant quantity was trought from foreign relatives amounted to 31.447,000 pounds from Hradi, and 5,000,000 pounds from the Laviest. In 1780 the importations amounted to 31.447,000 pounds, none of which was supplied by the United States. In 1780 the quantity was only 26,401,400 pounds. In this year a communicial treaty was made between the United States in American remote of such attolesses that had praviously imported from the West Indias. Among these articles cotted was included, Mr. Joy, the American negotiator, and being aware that cotton was then becoming an article of export from the United States. In 1800 the imports had more than doubled, having reached acotton that indicate quantity was obtained from American in which any considerable quantity was obtained from American in which any obtained rounds that quarter were about 16,000,000 pounds. The progress of the trade during the present contary is shown by the following table, archibiting the imports at intervals of five years:

Procedings.

Provide Visité Brand 92,000,000 (bs. 36,000,000 46,666,000 89,990,174 130,905,000 210,605,002 

The quantities accordly coupleyed in our manufacturies in different years during the room period and at equal interrals have been as unders—

[010] 61,094,122 fbs. 1820, 102,820,632 fbs. 1840, 08,978,103 1825, 202,345,869 1840, 122,701,820 1820, 260,016,640 1845, 92,462,981 1840, 320,407,092

The papel extension thus cleave has altogether resulted from the inventions of Hargreeve, Arkweight, Crompton, and others, in spanning exactinery, and more recently from the invention by Dr. Cartweight, since perfected by other mediantetians, of the power-loop. But for these inventions it would have been impossible for our artisans to have competed successfully with the spinners and weavers of halos, from which country we proviously received our supply of spuchies and calicose. The conderful professory of the Hindus in this branch of manufacture and the low rate of wages among them have, by means of our inventions, been so completely overcome, that not only have we consed to import for use the muslim of India, but have for many years sent great and continually inversaling abipments of these goods to clude the natives of India. Those shipments were quite inconsiderable until the partial opening

of the trade with India in 1814, in which year our looms supplied 818.202 yards of cetton goods to India. Two years afterwards the shipments were doubled. In 1818 they amounted to about 9,900,000 yards, and from that time the shipments have increased so greatly, that in 1835 the mar-kets of India and China took from us 62,994,489 yards, the declared value of which amounted to 1,660,806L, exclusive of 8,233,142 lbs. of cotton yarn, valued at 603,211L siderable slupments of cotton piece goods are still made from India to this country, but nearly the whole are re-ex-

It is owing to the low price of our manufactures, more perhaps than to their comparative excellence in other respects, that this commercial revolution has been brought about. The hand-spun varus of India, produced as they are from corton of a quality inferior to that employed in our factories for the finer kinds of fabrics, are more durable and are cannot se of being converted into cloths more cu-Thus's fine than have hitherto been woven in England; but se great is the commy attained in the various processes of our manufactural that this advantage of durability has been more than you derbuildeed.

The pane we at comm manufactured in various countries as good at Wacht are's Tables for the year 1833,

England 254,500,000 lbs.
F-121-8
Till et Sin es
India and China 242000.000
Making and South Ame-
Test metaling Brazil . 35,000,000
German
Tarket mil Africa 42000000
Stude 1 10,00 100
France
Energiane

The number of sers, as employed in and connected with the proper manufacture, and the number of spindles in use m some it were committee, is stated in the same tables as Jimi Vs -

		Persona	Sy adles.
Estati	1833	1,500,000	9,500,000
Unice Sales	1531	260.000	1,750,000
France	1534	6د ونړونو نا	3,250,000
Svaniani .	1524		259,200

I'm been omitted that the produce of thirty-seven some some runsh for the supply of one form; but this remains turn theretis area the fineness of the yard. and is not are raise where nower-looms are used, the PARTY OF A 2 WART IN these being greater than that have a hard comes in the properties of five to two. The Tumber of never-10, me used for weaving cotton at the end of the very local mother United Kingdom, was 109,626, it when holds were in England 17,53, in Scotland, and The article of the number of persons employed in cotton in the same near was 20 0.34. The propor-The far also have the seems of the handling were to

	<b>L</b> -	Trans.	Treal
Light	•• -	142 6	183,243
5it		ار است ا	32.580
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The control of the control of the States was set with the control of the Control States was set with the control of the Control States was set with the control of the maintenance and operation of the control of the c

The result of the second representation the The transfer of the same and th im wur mit mit Emmit und America. additioned as a real editions

made in 1831 and 1832; in the first of which years we have seen that, according to Mr. Woodbury, the number of spindles in use in the United States was between oneand one-sixth of the number used in this country. 1. great demand for cotton goods within the States has his to prevented any very considerable exportation; the : annual value of the shipments made between 1825—... viously to which year the official tables are silent as texports—and 1832, was under 250,000l. In 1833 the given at 21 millions of dollars (520,000L), and in :-at 2,200,000 dollars (458,000).). The greater part of the shipments were made to Mexico and the South Amer. states.

The quantity of cotton imported into France in 1757. urliest year as to which any returns are given, was 4,4 🙉 kilogrammes, or not quite ten millions of pounds; and : . not until after the return of peace that any decided . . mentation occurred in this branch of industry. In 1mentation of cotton was 16,414,606 kilogramme—millions of pounds; in 1820 it had reached 20,000,000 kgrammes; in 1825 it was still below 25 millions; in 15 amounted to 294 millions, and in 1833 reached 35,60 kilogrammes (784 millions pounds). In the same w the weight and value of cotton goods exported from Fra were as follows:-

		Kilogrammes.		Franci.
1787	•	•••	•	21,227,200
1815	•	,4.5,884	•	8,698,840
1820	•	1,437,358		29,120,055
1825	•	1,914,718	•	43,190,495
1830	•	2,454,569		<b>55,636,</b> 150
1833	•	2,556,527	•	57,007,133

If we compare the quantities here stated for 1833 w the consumption of our own factories and the ship made from the United Kingdom in the same year, :: be seen that the quantity of cotton spun in France was to, or rather more, than one-fourth of that used in our! and that the value of the exports from France was not equal to one-eighth part of the value of the shipments: England.

The only other country in which the cotton manufais prosecuted with a view to the supply of foreign man. is Switzerland. The entire and absolute freedom of ': allowed throughout the Swiss cantons prevents our : any statement of the quantity of the raw material at time imported, or of manufactured goods exported 7 cotton manufacture is of modern introduction: the spinning machine was established at St. Gall, in the ... 1800; but Switzerland still imports considerable quant. of foreign-spun yarns for the use of her hand-loom were as well as of power-loom cloths from England, which dyed and printed, and afterwards exported. Finding t. selves shut out from the greater part of the market Europe by heavy duties and prohibitions, the mercha-Switzerland have directed their attention to the sup North and South America, and partially of India also. perfection to which dveing and cotton-printing have obrought in the cantons gives them great advantages. Sgreat is the degree of perfection attained in the arcation of the colour denominated Turkey red, that c: and prints of that colour are imported from Switze into England: the same may be said of embroidered mass

The cotton manufacture is the most generally diffuall the branches of industry upon which the product clothing depends. The greater part of the countries which it is carried on limit their production of cotton; to the wants of their own people. The perfection to a the spinning processes have been carried in this o has made the greater part of the world in some medependent upon our cotton mills for the finer des m of yarns; and a sufficient indication of the univernotion wearing may perhaps be afforded by inspect. the table given under the head of Corron Manufac : and which contains a statement of the quantities of rent descriptions of cotton fabries, and of twist and yare.

pysted from the Un ted Kingdom during the year 18-3 COTTON SPINNING. Among all the antient channel arts there were few so simple as that of conver the downs filaments of the cotten plant into a conti-throad according to the me bods generally used before time of Hargreaves and Arkwright, and which methods . many man as was received to too still employed in eastern countries. There are, on the man another was lother hard, few processes for the performance of which the

breach or the country and submy the age of invention, the country of t

reserving it, is made to receive with great velocity. The ries than aliab it tweeted is wound upon bobbins by childron and is her reads for the spinning frame. About the a martine called a de frame was contrived for were my reting to inferior numbers of yarn. Instead of we owner care the frame is provided with a series of spin-dies each of which is provided with a flyer, the revolutions of which give the requisite twist to the cord, which is delia at once to the hobbin fitted loosely on the spindle. The mer former more recently introduced, is used for prematting varies of all qualities. Instead of cans, this frame is precioused with receiving horizontal cylinders, and by its meens a mach greater quantity of work can be done in a green time than with the fly frame. The rove which it recourses has no twist, and is therefore very tender, and the train of waste which it occasions is greater than is coherence experienced. The tube frame is an American never we be: has been improved in this country; a patent

in these improvements was granted in 1829.

The principle of Arkwright's spinning frame has been alwaiv explined. AREWRIGHT.] The varn produced by its stance of the machinery being at first set in motion by was er power. The throstle-frame is the same in principle as Arkwara's invention, but the movement of the parts Bearing that the speed of the machine is increased, and a greater number of spindles may be driven with an er it impount of power; it was introduced about the year. ?. The mulc-jenny, invented by Samuel Crompton, computes the essential principle of Arkwright's frame with the property of stretching possessed by Hargreave's jenny. By means of the mule-jenny, the roving is first drawn and then sare exed. The effect of this improvement is to make the vara iter, and of a more uniform tenuity. When deliversi or the rulers, the thread is thicker in some parts than in others, and these thicker parts not being so effectuwist of as the smiller parts, are softer and yield more really to the stretching power of the mule, and by this The second second employed for higher numbers there is not be the found, because smaller yarn w 1.2 m.: hare strength to bear the drag of the bobbin, but a mile-spenning no bibbin is used, and the yarn is wound or tall upon the spindles without subjecting it to any strain. The spindles in this machine are regularly arranged 67 a rarrage, which when put in motion recedes from the tues will a velocity somewhat greater than that at which and the varies revenue as twist by the rapid revolving if the win less and when the rollers are made to cease grand but the rolling, the name-journy still continues to it v. 12 wer mattin, and its spindles to re-where the securities rule is from the rollers while both are in series and id a sereing this is usually about fifty-four or arry quarter as a secretary mass a section about may four or all the contrast, the space through which the mule moves programming and discuss the contrast out the rollers, is easier to a roll of the earraged and the further space and the contrast are stormed, and the further space ea and the grammat true marriages and the further space and the first true marriage after the milers are stopped, a mount of the district part of their persons the district part of their persons the district part of their persons the district part of the true to the district part of the district part o A to refut 2 to the five the thread in a way to do not be a to the analysis of the state at the and the state of a personnel tra-والمتراجع والرأب والموارد والمتعلق المعلود والمعا

cidentally broken in the stretching. This self-acting mul. is even more complex in its arrangements than the ori ... machine, and hence great doubts were entertained as to successful working. It is probably owing to the great and ability shown by the inventor in their constructhat these doubts have proved ill-founded. This inver: in its improved form was secured by patent in 1830, a: has already come extensively into use; its advantageregards economy, and rendering the manufacturer indiscredent of a class of workmen who have frequently proved fractory, are so great, that this machine will, as a matte: course be adopted in every case where new machinery is quired; it is already (1836) used in more than 100 factor...

If the yarn spun with the mule-jenny be intended for cas weft in the factory where it is produced, the cops are once applied to the shuttle, and of late it is sometimes: custom to export them in that form; but when intended for the content of the for warp, and generally when exported, the yarn is re into hanks each 840 yards in length, for performing w operation a self-acting reel has been contrived. This cass is attended by young women. The diameter of treel is 44 feet; when it has performed 80 revolutions. is formed measuring 120 yards, and seven of these i make up a hank. Each hank is separately tied round v a thread, and weighed to ascertain its fineness; the day ent sizes are then put by themselves and separately parain paper bundles of either five or ten pounds weight.

Fine yarns are usually singed, in order to remove the loose downy fibres and to give them smoothness. The accomplished by subjecting the thread to the action a series of coal-gas flames, through which it is several the

assed with great velocity.

Cotton thread is made by laying together two or E: yarns of equal quality, and twisting them, for which puralso machinery is employed. Previous to the doubling twisting, the yarn is passed through a trough, cona thin solution of starch; the twist is given in an or direction to that applied by the spinning machine the thread to resemble in this respect or anzine silk.

Scarcely any operation in a cotton mill is carried fore without the intervention of a machine, by which the w is done with greater precision, and also with greater crity, and consequently greater economy. The packurathe hanks of yarn into bundles is the work of a land press, by means of which the hanks are pressed into a small compass, the power of the machine enabling v.

females to exert quite sufficient strength for the purp.
The degree in which the inventions that have here noticed have reduced the expenses attending this broof manufacture, is shown by the following statement, drawing statement, dra up by Mr. Dugald Bannatyne, lately and for many vecretary to the Chamber of Commerce at Glasgow. Pr of cotton-yarn, 100 hanks to the lb., in the following years -

			s.	d.					S.	d.	
1786			38	0	per lb.	1799			10	11	p i
1787			38	0	. ,,	1800			9	5	٠:
1755			35	0	79	1801			8	9	
1759			34	0	 m	1802			8	4	_
1790		•	30	0	**	1803			8	4	_
1791			29	9	22	1804		-	7	10	-
1752			16	1	,,	1803			7	10	-
1793			15	1	»	1506		-	7	2	-
1794			15	1	"	1807			6	9	-
1795*		•	19	0	**	After	mar	ıv fl	_		 
1796			19	0	**	1529		•	3	2	•••
1797			19	Ô	**	1832	-	•	2	11	-
1795+	•		9	10	99	1	•	•	-		•

The waste of material in spinning cotton is various. timated. Mr. Kennedy calculated, in a paper coatr: by him to the Manchester Literary and Philosophic. elety, that the waste amounts to 14 or, per lb., or near's tenth of the original weight; and this estimate is the to be very near the truth.

Ine tonowing statement, taken from the report of commessioners appointed to inquire concerning the loss of children in factories, was designed to show, from a returns made by a great number of manufactures manner and properties in which the different classical states and the properties of the remaining throughout the content of their monthly not earnings throughout the comment of their monthly not earnings throughout the comment of their monthly not earnings throughout The following statement, taken from the report of الاستان الأسام الأس

\* Sy a from Bearless cotton

The second of the second secon

\* Spice from See Inland co. . .

	Ad	ults.	Children under 18 years of age.				se age certain, icy in					
			Malos.		-Females.			whose a e uncert clency i	ber de	Aggrege	ıta.	
Emuloyed II		Fe- males.	In the direct employ of masters.	In the direct employ of operatives.	Employer uncertain.	In the direct employ of masters.	In the direct employ of operatives.	Employer uncertain.	Proportion whand sex are ufrom a deficient the returns.	Total number employed	amount of ! monthly net carnings.	
Cleaning and spreading cotton . Carding Mule-spinning Throstle-spinning . Recling Weaving Roller covering Engineers, &c.	1,330 10,361 22,727 793 722 20,440 261 3,759	2,319 15,062 5,196 3,000 11,208 28,566 389 34	951 4,983 3,038 1,409 182 4,581 19 151	3 461 23,634 25 25 2,582 3	31 78 257 100 204	345 8,039 1,255 2,203 2,306 12,109 31 3	6 458 8,663 19 76 4,261 22	13 163 82 160 119 119	819 364  2193	4,998 40,484 65,216 7,709 14,638 75,055 723 3,975	75,276 139,660 11,615 29,817 168,663	19 6 10 0 1/ 9 10 1 8 4 16 3 18 5 0 9
	60,393	65,774	15,314	26,742	689	26,351	13,505	656	3376	212,800	£ 414,481	1 1

The following statement exhibits the actual working of a cotton-mill in Manchester, in the year 1834. The yarn made was all of fine quality; viz.

iting was an or time quanty, viz.	
No. 130 to 150	5,038 lbs.
,, 155 to 160	16,478 ,,
" 165 to 170	19,488 ,,
,, 175 .	21,679 "
Total quantity of yarn spun	62,683 ,,
Total weight of rovings .	68,127 ,
Waste (1.278 oz. per lb.) .	. 5,444 ,,
Number of mule jennies .	109
" of spindles .	. 32,448
Weight of yarn per spindle	1 lb. 14% oz.
Number of spinners employed	56
" of piecers employed	156
Total amount of wages paid .	£ 5,894
Spinner's average net weekly earnings	. 24s. 8ld.
Cost of wages on each pound of yarn	. 18. $10\frac{1}{2}d$ .
The relative cost of varns of different dea	rees of fineness

the description of cotton used for their production, and the countries which are our chief customers for each quality, are as follows:-

Quantity of yaru.	Price per 1b.	Growth of cotton employed.	Countries to whichexported.		
Water twist, No. 12 ,, 20 ,, 30 Mule twist, No. 40	d. d. 12½ to 13 13½ ,, 14 16 ,, 16½ 16 ,, 16½	North America, or India ditto ditto ditto	Italy. Germany and India.		
50 60	184 ., 19 21 ., 22 s d.	ditto d tto	Russia, Ger- many, India, and China.		
70 80 90	9 24 2 5 9 10	North America, or Egypt ditto ditto	) Germany,		
;; 100 ;; 100	3 3 4 1	dirto dirto	Switzerland, Russia, and India,		
., 130 ., 140 ., 150	4 6 5 1 6 6 7 4 8 <b>5</b> 9 8 13 0	ditto North America, dit:e	)		
160 170	7 4 8 5 9 8	ditto ditto ditto	Switzerland and France.		
200 250	13 0 27 0	ditto ditto	)		

The prices here stated were those obtained in January, 1536. It will be seen that the price of the same count is greater for water twist than for mule twist. The hardness and closeness of texture of the former better fits it for warps for heavy goods, such as fustians and for sewing cotton, while the lower numbers of mule twist are best adapted for weft in coarse goods, and the higher numbers for both warp and weft of fine cloths, such as muslins.

The rate of wages paid to persons of various ages in the cotton mills at Manchester, has been stated on the authority of the Factory Commissioners as under:—

			Average weekly wages.					
			Males.			Females.		
			8.	d.		s. d.		
From	9 to 10		2	93		2 114		
**	10 to 12		3	8		3 9∤		
,,	12 to 14		5	01		4 101		
1,	14 to 16		6	5.j		6 43		
"	16 to 18		8	24		8 03		
**	18 to 21		10	4		8 11		
	21 and unward	N.	0.0	53		9 61		

The Act of 1833, for regulating the labour of children

in factories, forbids the employment in a cotton factory of any child under thirteen years of age for more than nine

hours during the day.

It is a curious fact, that a great part of the yarn used for making very fine muslins at Paisley and Glasgow is spun in Lancashire. The machinery in the Scottish mills is equally well constructed, and the material used is of the same quality in both places; but the spinners in Lancashire who apply themselves to the production of fine yarn are comparatively few and selected from a greater number than find employment in Scotland, where the small proportion who attain the requisite sleight-of-hand are not able to produce fine yarns in sufficient abundance for the supply of the Scottish looms.

A great and increasing proportion of English spun yarn is every year exported to foreign countries. The exports since 1820 have been as follows.-

1820	23,032,325 lbs.	1828	50,505,751 lbs.
1821	21,526,369 ,,	1829	61,441,251
1822	26,595,468 ,,	1830	64,645,342 ,,
1823	27,378,986 ,,	1831	63,821,440 ,,
1824	33,605,510 ,,	1832	75,667,150 ,
1825	32,641,604 ,,	1833	70,626,161 ,
1826	42,189,661 ,,	1834	76,478,468 ,
1827	44,878,774	1835	83,214,198

The table inserted under the head cofton manufactures,

The table inserted under the head cofton manufactures, showing the exports of cotton goods generally in 1835, particularises the countries to which English spun yarn was sent. COTTON MANUFACTURE AND TRADE. The use of cotton as a material for the production of woven fabrics was known in India and China for many centuries before its introduction into Europe. The earliest mention of cotton by the Greek writers is by Herodotus (iii. 106) in his brief notice of the usages of the Indi: he calls it (iii. 47) by the significant name of tree-wool (είριον ἀπὸ ξόλον), apparently not being acquainted with the native name. In the reign of Amasis, B.C. 563-525, cotton was known in the reign of Amasis, B.C. 563-525, cotton was known in Egypt, but it must have been imported, as there is no reason for supposing it was then grown in Egypt. Cotton cloths were, according to Arrian, among the articles which the Romans received from India, and there is no doubt the manufacture had been carried on in many parts of Asia, long before any extant notice of that quarter of the world being visited by Europeans. The perfection to which the weaving of cotton India, notwithstanding their rude and imperfect implements, attests at once their patience and ingenuity. In China, this manufacture is supposed not to have existed at all before the beginning of the sixth century of the Christian era. The cotton plant was indeed known in that country at a much earlier period, but continued till then to be cultivated only as a garden shrub, and was not indeed propagated on a large scale until the eleventh century; at the pre-ent time nearly all the inhabitants of that populous empire are clothed in cotton cloths of home manufacture.

Before the discovery of the passage to India by the Cape of Good Hope, cotton wool is said to have been spun and woven in some of the Italian states, the traders of which were the channels through which the cotton fabrics of India were distributed to the different countries of Europe. Becoming thus acquainted with these goods, and having near at hand the raw material of which they were formed, it was natural that they should apply to the production of similar goods the manufacturing skill they had long possessed.

No. 479.

Baines has shown ('History of the Cotton Manufacture,') that the ootton plant was extensively cultivated, and its produce manufactured, by the Mohammedan possessors of Spain in the tenth century. This branch of industry flourished long in that country. In the thirteenth century, the cotton manufacturers formed one of the incorporated companies of Barcelona, in which city two streets received names which point them out as the quarter in which the manufacturers resided. The cloths made were mostly of coarse texture, and a considerable quantity was used as sail-clith. The name fustions, from the Spanish word fuste signifying 'substance,' was borroved from the Spanish weavers, and is still used to denote a strong fabric made of cotton. The intercourse between the Mahammedan poss sees of Span and the Christian inhabitants of other Ear pean countries was so small, owing to religious pre-je h e, that the arts which long flourished among the fe mer, did not extend the aselves to the latter; the traffic of Andalu in was a'l carried on with Africa and the East.

I'. in Laly the out made its way to the Netherlands, and at the end of the sixteenth or the beginning of the second so the century was brought thence to England by a vestual to forces. Lewis Roberts, in The Treasure of Triffe quelished in 1841, makes the earliest mention ex-tited the magnificture in England. He says, 'The town of Manchester buys codon weel from London that comes 1 m Cyrres and Smyma, and works the same into fus-

the Social cases and denoties?

There is abundant evolution the show that in the beginning There is abundant explaned to show that in the beginning of the sixtencth century, and probably buffer that time, of the was entired at 1 converted that of hing in most of smallest converted that of hing in most of smallest converted the scattern's loss of the Medicard in the Empean configuration of Mexico in their factors in the Empean configuration of Mexico in their factors in the Laurence and mixed with the fine hair configuration. It has moved and mixed with the fine hair configuration is a fixed by the transfer of these were sent by the tensor of the sent of the sent of the coast of Guinea, and it is a like Mixed with his Annels of Chamerce, that of the mexicon his limit benchmin 1990 from the matter that it is a fixed to transfer on the limit of the coast of the countries.

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The wear of the second of the was a second to the and Britania 12 1 0 3 2

with which they worked, and having converted it : cloths to carry their wares to market and sell them on ' own account to the dealers; but about 1760, the merci of Manchester began to employ the weavers, furn them with yarn for warp, and with raw cotton, which spun by the weaver's family for the west, and pay the fixed price for the labour bestowed in weaving.

The application of machinery to the preparation spinning of raw cotton for weft preceded by some yearinventions of Arkwright. In the year 1760, or soon of carding engine not very different from that now us a contrived by James Hargreaves, an illiterate weaver siding near Church in Lancashire; and in 1767 the ning-jenny was invented by the same person. This no. as at first formed contained eight spindles, which made to revolve by means of bands from a horizontal w. Subsequent improvements increased the power of the ning-jenny to eighty spindles, when the saving of live which it thus occasioned produced considerable among those persons who had employed the old in spinning, and a party of them broke into Hargreaves' ) and destroyed his machine. The great advantage invention was so apparent, however, that it was some brought into use, and nearly superseded the employment the old spinning-wheel, when a second rising took 1. the persons whose labour was thus superseded by it. I. went through the country destroying wherever they c find them both carding and spinning machines, by v means the manufacture was for a time driven avas : Laucashire to Nottingham.

The coiton-yarn produced both by the common spir. wheel and spinning-jenny could not be made suffice strong to be used as warp, for which purpose him owas employed. It was not until Arkwright's similar frame was brought into successful operation that time advantage was overcome. [ARKWRIGHT.] Yarn sp :: Hargreaves' jenny continued for some time to be wete. At first, the manufacturers of cloths com; cotton only were subject to much annoyance from termination of the revenue officers to charge them double the duty paid upon calicoes woven with linenand printed for exportation; and also by prohibit 2 use at home. With some difficulty an act of partial was obtained for removing these obstacles to the dec. ment of the manufacture, which from that time wascented with a great and continually accelerated r. increase.

The earliest attempts at producing muslins were n about the year 1780, but without much success, ali: India-spun yarn was substituted as weft for that proby the spinning jenny: the greatest degree of finer. which yarn spun with Arkwright's frame had then brought, was eighty hanks to the pound, and even digne was not attainable by means of the jenny, disadvantage was overcome by the invention of Mr. S. clisadvan age was overcome by the invention of Mr. S. Cr. mp. f. n. which came into general use about the 175%, and which partaking of the nature of both 1 granes' and Arkwaight's machines, was aptly called granes' and Arkwaight's machines, was aptly called granes' and Arkwaight's machines, was aptly called granes of this piece of mechanism, were produced of a much greater fineness than had been attained. Mr. Crempton's invention was made so years believe it could be openly used, because of its firmed with the pitent was admilled, the mule-jenny was a reliable out the pitent was admilled, the mule-jenny was a reliable out the creater of the reliable of the mule-jenny was a reliable out the creater of the mule-jenny was a reliable out the creater of the mule-jenny was a reliable out the creater of the mule-jenny was a reliable out the creater of the mule-jenny was a reliable of the reliable of the mule-jenny was a reliable of the reliable of th ready one excessely into use, so that in 1787. It is established where made at Bilton, Glasgow, and Possibly and et al. In the price paid of analytic problem. The price paid of analytics per by that such have been the major vegations per by that such have been the major vegation per by the since fineness has stillate been soften by the same fineness has stillate been soften by the same fineness has stillate been soften by the same fineness has at late been soften by the same fineness has at late been soften by the same fineness or soften by the same fineness of the same f randy and expensively into use, so that in 1787,

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Property of the control of the contr		Control of the contro		Sterlie		
Total .	4 1 14/44	100	1 0	7.	300	
	늗.	3 4		9		

Each of these towns, if of such continues on maintained by a shifted waver, as supplied at predicting 190 yards of what per result, or 60-00 yards in the vest, at which rate the content projectors power of the whole transfer of beam amounts towns randoms of yards. It is no product is the second amounts towns randoms of yards. It is no product however, that she products only to remark the law may been proceed to re-interest excent. Hardsorte if has not been proceed to re-interest excent. Hardsorte if has not been proceed to re-interest excent. Hardsorte if has not been proceediable in products only too colleges, mustipe, and fancy goods no reverse to the hard. The number of hand them, weavers rating to be assuminable with the same correstness as the number of power despects, while bout from manying to alternative at the results for another the appropriate of the arts who in more than the form of the results of the arts who is no interest of the arts who is no interest, while bout from weaving to alternative to mental time of alternative towns have been made in the results at a respect and the hardsort of these dominate towns have been made in the results at respect and the hardsort at page 100.

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The following statement of the Standon of Catton Contents in operation in the different parts of the United Kingdom, it the Standon and April of the Persons amplitude thereing is whitesteed from Between made by the Important of

Accepted to	1		-1 March		100.10		IN S. 10 Years   10 Years				Total Number of		
	Arthur.	Keepy.	800	Frei.	m'm	Free.	Reserv	Free.	Munk	Fine	Thales.	Youthe	A200.
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		*	941	-	No.	1,00	V. 14.	7		17,450	が歴	11.50	110

mercial Diotionary,' published in 1834, estimated the value of every description of cotton goods made in Great Britain in 1833 at 34,000,000l. Mr. Kennedy, who is considered a good authority on this subject, supposed the value in 1832, when the quantity of the raw material used was about 12 per cent. less than in 1833, was 24,760,000/. Mr. Baines, who has taken great pains to test the accuracy of his calculations in every possible way, has made the value amount, in 1833, to 31,338,693L (Hist. of Cotton Manufacture, p. 412). If this calculation was correct for that year, the value in 1835 must, owing to the increased production, have somewhat exceeded 35,000,000L, and according to customhouse returns, including 11 months of 1836, the amount during the year 1836 cannot fall much below 40,000,000/. The estimate made by Mr. M'Culloch calculates that the quantity of the raw material used is 240,000,000lbs., and its value at 7d. per lb. Wages of 800,000 weavers, spinners, bleachers,

&c., at 22/. 10s. per ann. . . . 18,000,000 Wages of 100,000 engineers, machine-makers, smiths, masons, joiners, &c., at 30l. a year each 3.000,000

Profits of the manufacturers, wages of superintendents, sums to purchase the materials of machinery, coals, &c. . . . .

6.000,000

100

£34,000,000

The quantity of raw material taken for use in 1835 was 333,043,464 lbs.; this, at the average price of 8d. per lb., which is certainly below the actual rate, amounted to 11,100,000/., and assuming that through improvements in the processes of manufacture the wages and other expenses were no more than the estimate of Mr. M'Culloch, the value of goods manufactured in 1835 exceeded 38,000,000/. In the eleven months of 1836, from 5th January to 5th December, the quantity of cotton taken by the spinners has been 348,343,066 lbs., and although some little check to commercial operations was felt during a few weeks pre-ceding and following the latter date, which may prevent

the consumption for the whole year being proport. . . to that of the eleven months, it may be fairly assume that the quantity manufactured throughout 1836. amount to 370,000,000 lbs., which, at the average prac-94d per lb., to which raw cotton has advanced throu byear, will amount to 15.031,250l. There is no reas: believing that any material improvement in the spini... weaving processes has been introduced within the last v and on the other hand it is known that the prices of z articles auxiliary to the manufacture have increased. . that a continual accession has been made to the nun. : hands comployed, while the wages of a part at least been increased. Assuming then that the various taken into the estimate by Mr. M Culloch, as am to 27,000,000 m, would have been correct as applied. quantity used in 1835, those items upon the in requantity of 1836 will amount to 30,000,000/, and the w value of the manufacture will be 45,000,000%.

The declared value of cotton manufactured g. i. .: ported in 1835 was 16,421,715L, and of yarn 5,700. It has been said that no reliance is to be placed up-value thus declared; but besides the fact that the chants have no motive for disguising the truth in the clarations, their general accuracy has been teste i proved in various ways by Mr. Baines, and it m. v = a further corroboration that the value declared i.. . amounts in the average to only 61d, per yard upon the nitty shipped. It has been held that the value of the c fabrics retained for use within the kingdom execution value of the part exported by 30 to 40 per cent. becontent ourselves with estimating the value of the and the export demand to be equal, the whole valmanufacture in 1835 exceeded the sum above men; 38,000,000/.

The progress of this manufacture is shown have lowing table, which contains a statement of the quar. cotton used by the manufacturers and the value .:

manufactures exported from 1801 to 1835.

Years.	Quantity of	Value of Goods Exp. rted.		İ	Quantity of	Value of Goods Exported.		
	Cotton Wool tak n for Consumption.	Official. Real, or Declared		Years.	Cotton Wool taken for Consumption.	Official.	Real, or Declared	
	lles.	£.	£.		ibs.	£.	£	
1901	51, 201, 433	7,050,803	1	1419	133,116,851	18,282,292	14,655,912	
1-12	56,615,1.0	7.6:1.303	•	1-20	152.819.633	29.531.079	16.516.748	
1-13	52,251,	7, -1,441	1	1 1-21	15, 401,549	22,541,615	16,094,747	
1-14	61 6 15	9,716,772	l	1422	143, 428, 127	26,911,043	17,418,754	
1415	54. 4. 4. 163	9.5.4.165	<b>:</b>	1823	1-6.311.070	26,544,770	16,326,694	
1-16	57.5 4.416	10,4-0,049	i	14.4	141,024,743	30.155.901	18, 452, 987	
1- 7	72,714, 61	10 00,765	i	1-25	2(2,546,869	29.495.241	18. 51.526	
1-14	4141.115	12,9%,096	ı	1-6	162,883,019	25.131.270	14,093,469	
1	Sec. 46 7	13, 135,906		17	249,804,396	23, 182, 498	17.65, 163	
1-10	124.70 .5 6	14,95, 934		1974	2 - 9-7.744	31,467,417	17,244,417	
1-11	90,000,004	12,0 3,143	i	1500	204.097.037	37,249,432	17.545,(11)	
1-13	61.2 5.024	16,317,630	'	ادرا	169,616,640	41,050,969	19,425,664	
17.3	50,146,000	Records Justs	aved by fire.	1 1	273,249,653	39,157,17,3	17,250,904	
IHI4	51,777, 402	17.08	20,033,152	1 7 7 4 1	150,412,463	43 786,255	17.514 30	
1 5 1	92 525 951	22, 249, 645	20,620,956	' , , , , ,	2 3,6-2,976	210, 210	18.4-6 400	
1-16	£6, ≈13,021	17,564,461	15,577,702		24 4 7 02 401	51.0-9.140	\$1,513,5-3	
1-17	110,757,026	21,259,1	16, 12,001		31, 143, 164	52,333,278	22,158,344	
14.4	162,122,705	22,539,150	18,767,517	1		,,-	,,,,,,,,,,	

The quantity and declared value of different descriptions of these goods exported in each year from 1820 to 1833 given in the following table :-

	White or Plain Cottons.		Printed or Dyed Cottons.		Hossery and Smull Wares.	Twist as	Treal Declared	
Years	Yarda,	Declared Value.	Yards.	Declared Value.	Declared Value.	Pounds,	Declared Value.	Vale
1929 1-11 1-24 1-24 1-25 1-26 1-26 1-29 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-1	113,642,146 123,921,632 151,162,131 121,141,705 171,162,131 151,141,704 151,141,704 161,704,146 161,704,146 161,704,142 161,704,142 161,704,143 161,704,144 161,704,143 161,704,143 161,704,143 161,704,144 161,704,144 161,704,144 161,704,144 161,704,144 161,704,144 161,704,144 161,704,144 161,704,144 161,704,144 161,704,144 161,704,144 161,704,144 161,704,144 161,704,144 161,704,144 161,70	5, 451, 024 5, 713, 7.72 5, 713, 7.72 6, 517, 973 5, 7, 4, 9, 53 6, 51, 117 6, 97, 117 6, 97, 117 6, 97, 117 6, 117, 117 6, 117, 117 6, 117, 117 6, 117, 117 6, 117, 117 6, 117, 117 6, 117, 117 6, 117, 117 6, 117	154,654,144 146,412,402 150,997,157 144,634,567 174,50,749 155,749 155,741 154,544,618 170,932,475 189,0,2,152 199,799,466 192,194,632 204,532,407 334,642,252 274,335,661	6, 7,742,505 7,454,243 7,454,243 7,450,644 7,452,14,2 8,205,117 5,454,52 7,1,4,149 6,851,447 6,851,447 6,851,447 6,851,463 5,645,796 6,652,796 6,652,796	496, 540 611 9 99 722, 543 721, 014 761, 766 919, 767 775, 497 1, 144, 552 1, 165, 763 1, 175, 153 1, 175, 153 1, 175, 193 1, 175, 193 1, 177, 193 1, 177, 193	23, 032, 325 21, 826, 360 26, 593, 468 37, 378, 986 37, 378, 986 31, 641, 604 42, 183, 661 44, 474, 774 50, 503, 774 64, 645, 342 63, 841, 440 75, 667, 150 70, 625, 161 76, 173, 464	4. 8.996, 639 9.305, 823 9.305, 823 9.97, 583 9.625, 946 3.135, 396 3.206, 729 3.491, 338 3.595, 405 3.595, 405 4.734, 739 4.734, 024 5.911, 015	6.516 71 16.517 72 16.521 72 16.522 72 16.525 62 18.530 52 14.623 12 17.535 62 17.535 62

An account of the quantity and declared value of British cotton manufactured goods exported from the United Kingdom, distinguishing the description of goods, and the various countries whereto the same were exported in the year 1835.

COUNTRIES TO WHICH	White or Plain	2 Cottons.	Printed or Dy	ed Cottons.	Hosiery and Small Wares.	Twist and Yarn.		Total Declared
EXPORTED.	Yards.	Declared Value.	Yards.	Declared Value.	Declared Value.	Pounds.	Declared Value.	Value.
		£.		£.	£.		£.	£.
Russia	2,243,650	83,708	639,409	25,590	5,382	21,082,519	1,365.027	1,479,707
Sweden	44,336 176,3-0	1,407 5,578	11,705	637	926	840,774	60,751	63.721
Norway Denmark	70,150	1,733	514,940	12,338 1,916	1,715 159	104,551 119,980	6,234 6,539	25,805
Penmark Prussia	240	1,737	67,999	1,910	251	16,753	1,427	10,397 1,698
Germany .	13,857,147	324.539	29,714,601	866,524	217,968	27,866,013	1,746,893	<b>3,</b> 155,924
Holland	10.675.371	263,004	11.071.368	332,588	50,598	13.869.141	1.194.651	1,840,841
Beigiam .	1,105,465	45,754	2,476,509	90,958	123,537	42, 63	7,067	267,316
France	1,045,212	32,885	1,387,281	39.368	106, 154	82,523	39,493	217,900
Portugal, Proper	16,832,595	312,169	17,878,068	483,833	20,998	161,438	13,338	830.338
, Azores	395,293	8,559	546,992	13,254	937	14,955	726	23,536
Madeira	212,389	4,704	238,168	5,231	1,174	90	6	11,115
Spain and the Balearic Islands .	146,618	3,958	275,435	7,069 7, <b>6</b> 67	1,293 742	1,820	248	12,568
., Canaries	239,673	5,989	970,891	7,667	742	200	20	14,418
Gibraltar	8,824,726	196,470	8,378,813	252,670	11,701	26,145	2,466	463,307
Italy and the Italian Islands .	21,280,891	527,267 21,220	13,401,443 591,320	423,691 16.695	37,289 3,190	7,024,598	427,875	1,416,122
Malta	1,228,532 698,941	14.432	524,393		962	306,560 131,080	18,883 8,382	59,983
Ionian Islands	18,901,925	543,987	12,966,023	13,998 426,046	3,344		89,404	37,774 1,062,781
Turkey and Continental Greece . Morea and Greek Islands	69,659	3,410	100,541	4,877	439	1,575,400	03,404	8,726
Egypt (Ports on the Mediterranean)	3.895.326	106,636	1,430,701	55.143	290	464,120	29,603	191.672
Tripoli, Barbary, an t Marocco .	1,097,514	22,537	80,300	1.555	125	402,120	20,000	24,217
Western Coast of Africa	456,939	11.506	3,448,219	113,271		1.149	316	125,560
Cape of Good Hope	1,996,8 6	48.936	2.126.279	64,374	467 9,357	12,612	780	123, 497
St. Helena	53,953	1,535	78,450	3,008	325			4 568
Mauritius	973,900	27,592	1,369,261	42,838	7,092	35	11	77,533 2,457
Arabia	77,425	1,953	18,724	504				2,457
East India Company's Territories	33,459,172	996,340	12,318,105	341,953	30,631	5,399,762	432,821	1,801,775
and Ceylon	8,963.873	212,726	2,248,339	76,596	2,530	2,833,362	170,390	462,242
Sumitra, Java, and other Islands !	7,017,618	182,558	2,531,265	86,123	3,948	213,935	15,166	287,795
in the Indian Seas	1,421,036	36,746	637,881	26,649	450			63,845
New South Waters, Van Diemen's !	1,233,812	34,313	1,079,297	38,056	11,404	4,820	<b>33</b> 8	84,111
Land, and Swan River New Zealand and South Sea Islands	7,759	294	7,360	155	1			449
British North American Colonies .	7,896,245	198,796	8,975,688	251,451	31,899	204,160	11.314	493,460
British West Indies	18,741,807	425,142	22,804,186	568,497	42,022	22,754	2,200	1,037,861
Hayti	2,041,371	59,669	4,446,417	128,395	11,003			198,066
Caba and other Foreign West Indies	6,800,903	159,268	9.180.426	242,954	19,203	250	30	421,455
United States of America .	25,415,034	787,841	49,547,891	1.695,147	327,910 7,881	126.888	8,529	2,729,430
Mexico	1,454,701	49,851	4,147,243	154,816	7.881	591,962	39,164	251,712
Guatemala	297,160	5,640	251,000	5,858	1	12,620	1,610	12,608
Columbia	1.062,368	26,159	1,993,190	49,984	2,212	in in	• 60.	78,355
Brazil	28,399,127	624,724	30,431,795	813,919	62,066	10,198	981	1,501,689
States of the Rio de la Plata .	7,457,260	157,091 194,748	5,396,027 7,776,495	155,300	26,448 15,390	34,560 2,360	2,824 263	341,712 436,533
Cinle	9,038,270 3,579,087	92,827	6,306,988	226,132 190,180		5,400	390	293,260
Peru Luman Aldamen					1	1		
Isles of Guernsey, Jersey, Alderney, Man, &c.	809,715	45,233	123,755	3,579	28,899	6,743	389	78,100
Total in 1835	277,704,525	6,910,506	279,811,176	8,270,925	1,240,284	83,214,198	5,706,589	22,123,304

The capital invested in this branch of industry has been estimated by Mr. Kennedy at 30,000,000L, and by Mr. McCulloch at 34,000,000L, which greater amount is very moderate in the opinion of Mr. Baines. Mr. McCulloch supposes that a capital of 4,000,000L is engaged in the purchase of the raw material, in which case the same money must be employed nearly at the rate of four separate transactions during the year; capital employed in the payment of wages 10,000,000L, which supposes that the wages have to be advanced 6 months before the goods are produced and sold. The remaining 20,000,000L are supposed to consist of stocks of goods on hand and of capital fixed in spinnon y and weaving factories, power and hand-looms, worksings, warehouses, and machinery. This latter portion of the capital must have been greatly increased of late; but notwithstanding the great increase in the amount of the manufacture, it is probable that no great addition to the floating capital has been required, the briskness of the trade causing a quicker return, so that the same amount of business.

COTTON, SIR ROBERT BRUCE, an eminent English antiquary, descended from an antient family, was the son of Thomas Cotton, Esq., and born at Denton, in Hunting-donshire, January 22, 1570. He was educated at Trinity College, Cambridge, where he took the degree of B. A. in 1585. His taste for antiquarian studies induced him to repair to London, where he became a member of a society of tearned men attached to similar pursuits. He soon distancement of all kinds relating to the history of a country. The dissolution of monasteries, half a century before, had thrown so many manuscripts of every description into private hands, that Mr. Cotton enjoyed peculiar

advantages in forming his collection. In 1600 he accompanied Camden, the historian, to Carlisle, who acknowledges himself not a little obliged to him for the assistance he received from him in carrying on and completing his Britannia; and the same year he wrote 'A Brief Abstract of the question of Precedency between England and Spain.' This was occasioned by Queen Elizabeth desiring the thoughts of the Society of Antiquaries already mentioned upon that point, and is still extant in the Cottonian library. (Jul. C. ix. fol. 120.) Upon the accession of King James I. he received the honour of knighthood, and during this reign was not only courted and esteemed by the great, but consulted as an oracle by the privy councillors and ministers of state upon very difficult points relating to the constitution. In 1608 he was appointed one of the commissioners to inquire into the state of the navy, which had been neglected after the death of Queen Elizabeth, and drew up a memorial of their proceedings to be presented to the king, a copy of which is also preserved in the Cottonian library. (MS. Jul. F. iii.) In 1609 he wrote 'A Discourse of the lawfulness of Combats to be performed in the presence of the King, or the Constable and Marshall of England, which was printed in 1651 and in 1672. He drew up also, in the constable and Marshall of England, which was printed in 1651 and in 1672. in the same year, 'An Answer to such Motives as were offered by certain military men to Prince Henry, to incite him to affect Arms more than Peace.' This was composed by order of that prince, and the original manuscript remains by order of that prince, and the original manuscript remains in the Cottonian library. (Cleop. F. vi. fol. 1.) New projects being contrived to fill the royal treasury, which had been prodigally squandered, none pleased the king, it is said, so much as the creating a new order of knights, called baronets; and Sir Robert Cotton, who had been the principal sector of this selection was in 1611, phasen to be cipal suggester of this scheme, was, in 1611, chosen to be one, being the thirty-sixth on the list. His principal resi-

at Great Connington, in Huntingdonshire, exchanged for Hailey St. George, in Cambre was afterwards employed by King James

He was afterwards of Mary Queen of Sanday He was alterwants employed by King James the conduct of Mary Queen of Scots, from the interpresentations of Buchanan and Thuanus, in on this subject is thought to be income. is representations of Buchanan and Thuanus.

In is representations of Buchanan and Thuanus.

We up on this subject is thought to be interwoven

Annals of Queen Elizabeth, or else printed

of Camden's 'Epistles.' In 1616 the king

to examine whether the Papists, whose num

to examine whether the Papists, whose num

and the nation uneasy, ought by the laws. to examine whether the Papists, whose number and the nation uneasy, ought by the laws of the put to death, or to be imprisoned. This task with great learning, and produced with great learning, and produced with great learning. be put to death, or to be imprisoned. This tack with great learning, and produced upon that arguments, which were rubished in 1672, among 'Cottoni Posthuma.' It was in 1672, among 'Cottoni Posthuma.' It was that he wrote a piece, still preserved in the Posthuma in the that he wrote a piece, still preserved in the Prizery, entitled 'Considerations for the repressing all preserved in the Prizery, entitled 'Considerations for the repressing without the blood.' He was also employed by the House when the match between Prince Charles and the prizery when the match between Prince Charles and the prizery when the match between Prince Charles and the prizery when the match between Prince Charles and the prizery when the match between Prince Charles and the prizery when the match between Prince Charles and the prizery when the match between Prince Charles and the prizery when the match between Prince Charles and the prizery when the match between Prince Charles and the prizery when the prince Charles and the prizery when the prizery blood. He was also employed by the House when the match between Prince Charles and of Spain was in agitation, to show, by a short of Italian of the treaties between England and the United States of the treaties between England and the United States of the treaties between England and the United States of the treaties between England and the United States of the treaties between England and the United States of the treaties between England and the United States of the of Spain was in agitation, to show, by a short of the treaties between England and the House the unfaithfulness and insincerity of the latter, the unfaithfulness and insincerity of the latter, the unfaithfulness and insincerity of the latter, the universal monarchy. Sir Robert Cotton wrote works, many of them small pieces in the carriers and the works, many of them small pieces in the short are among his Posthuma, others are printed the short of the short

in 1914 as 1615. Sir Robert Cotton's intimacy with Carr. mosts and find him under suspicion with the court of knowledge of the circumstances of Sixty. doath. He was even committed to the custody lost in the first him, was he released from this confinement of five months, during which time he appeared to the custody lost in the first him, was he released from this confinement of five months, during which time he appeared to the custody lost in the five months, during which time he appeared to the custody lost in the five months. of five months, during which time he appears the perfidy the state of the Spanish ambassador about the second received the sec the same time, the repairs ambassador, about the same time, the another imputation, his name having been.

To inflation, inserted in a list suffered to go abroad with the who had secretly received gratuities from the same time, the 11 to a null mendor for similar purposes. From this how-

homour was perfectly vindicated. send subtry of the king. In the next year an occurplace, the consequences of which shortened A tract was handed about in manuscript, entitled, The inquiries that were immediately made for 11. Cottonian library. Sir Robert, perfectly consecus 1.13 (moreonea, made street inquiry into the transaction, the transaction to the third written at Florence, 16.11, by Robort Dudley, duke of Northumberland, under the continuable title of Propositions for his Majesty's to hoolle the Imperlimency of Parhaments,' had, to hom, found its way into his library, and that, to the state suspected, for a pecuniary consideration, b. of all ordens or more copies of it to be taken, under the famor of the a titles. Although Sir Robert Cotton the explored and read his innocence of having written or at a consisted that truet, no destructive to the liberties of the to to the tenewed protonce that his library was . . . ; c m equalistica, and himself once more excluded or of year chaif Marchael at his house in Westminster, 107 1/23 A best time before his death he requested . He ver by men to suculy to the Lord Privy Seal, and . . . . fine be beat the council, that their so long detainhe leads from him, without rendering any reason here were had been the cause of his mortal malady. been not as well no other execumulations, it appears that the representation of the procession. by I we the weath redo of the church of Connington,

or the stand, but should pass outire to his heirs; and a sum that by his son, Sir Thomas Cotton, which is synonymous with the family country, for John Cotton. In 1700 an act of Acanthopterygii, termed by Cuvier " celle des Jones Cuirassees."

parliament passed for the better securing and present this library in the name and family of the Cottons, for benefit of the public; the mansion house, in which library was contained, to be preserved for the use of descendants of Sir Robert Cotton, the founder, for even. . the library to be made publicly accessible; and to be veafter Sir John Cotton's death in trustees. Sir John Co after Sir John Cotton's death in trustees. died in 1762. Another act of parliament was then f. ... which passed in 1706, by which the purchase of the lewas effected for the sum of 4500l., and that and the l. . . vested thenceforth in the queen, her heirs, and success for ever: the management of the library being still -in trustees. Whether it was for the purpose of creet: new building for the reception of the library on the sac the said house—which indeed was directed by the last notioned act—or for what other reason, does not at  $\gamma_{\rm D} \sim$ appear: but we are informed in a subsequent report of committee of the House of Commons, that the library in the year 1712 removed to Essex House, in Essex-.... Strand, where it continued to the year 1730, when i. . conveyed back to Westminster, and deposited in a h ... in Little Dean's Yard, purchased by the crown of the of Ashburnham. Here, shortly after, on the 23rd Oc-1731, a fire broke out, in which 111 manuscripts (m. .. them of the greatest interest) were lost, burnt, or ex. defaced, and ninety-nine rendered imperfect. It had deed nearly proved fatal to the whole library. With mained were removed, by permission of the dean and ter, into a new building designed for the dormitory of V. minster school. In 1753, when the legislature was it. by the will of Sir Hans Sloane to found the British 's seum, the Cottonian library was included in the act t. which that institution was founded, and was transferre the British Museum in 1757. The act directed that trustees, to be nominated in succession by the rep: atives of the Cotton family, should be for ever ad. . . those appointed by the same act for the general exceof its purposes.

Besides the library of manuscripts, the Cottoman lection contained a considerable number of valuable c chiefly Saxon and old English, and several antiqui Roman and English, all of which are now incorporate. . .

the collection of the British Museum.

A catalogue of this library, in a thin folio volume, a piled by Dr. Thomas Smith, was printed at Oxford in 1. and a more ample one accompanied by a copious in compiled by the late Joseph Planta, Esq, was publicunder the orders and at the expense of the Commission

upon the Public Records, folio, 1802.

Sir Rebert Cotton was liberal in communicating: rials out of his collections in his life-time. Speed's if tory of England' is said to owe most of its value and . ments to it; and Camden acknowledges that he read the coms in the Britannia from his collection. To Kn the author of the 'Turkish H.story,' he commun: he commun: . authentic letters of the Knights of Rhodes, and the atches of Edward Barton, ambassador from queen F. both to the Porte. Sir Walter Raleigh, Lord Bacon, S. and Lord Herbert, were all indebted to Sir Robert C... library for materials. Lingard's and Sharon Tu, 'Histories of England,' and numerous other works, are 1. that its treasures continue at this day unexhausted.

COTTUS (Linnæus), a genus of fishes of the seanthopterygii and family Loricati\* (Jenyns). To it characters:—head large, depressed, furnished more or with spines or tubercles; teeth in front of the von er a in both jaws, none on the palatines, two dorsal fins; yet. fin small; body without scales; branchiostegous rays s x

The Bull-head or Miller's thumb (Cottus gobio, L... affords an example of this genus. This little fish, wl: found in almost all the fresh-water streams throughou. E rope, is from three to four inches in length, and of a brown colour above, more or less mottled and spotted, and who beneath. The head is very large in proportion to the land and without spines; the preoperculum has a single corr spine on the posterior part; the eyes are small, and dix upwards. The number of fin-rays are—anterior descent to 9, posterior 17 or 18; pectoral 15; ventral 3; analicaudal 11. The bull-head more particularly frequences those streams in which pebbles abound, and feeds u aquatic insects, &c.

This this funds upon small evolutions and the Ry of same lines. The Fither-highes of Long-screen Cottos (Cottos bulgles, inglicesco), is alone the same were unit evolutionally the best of the source were unit evolutionally in appearance unit hades, that two species however, is solidared found increditate near hades, and the species is discussed in the bulgles where the sale flowers in the last by the huma persity arms though the species from the last by the huma persity arms though the species in the eyes is less. The event theory is proportion the competitor membrane discussed in the switch line are destiliant. There are several often control in the about expected flowers are in the eyes in how the first the found of the foundation of the

The remaining British grotes of this game inhelid the levens, and squater with release of the course places of the course 


are lowester must remainedly influsions, name are less are delivered intended designations, name are lowester hand designated express the tasts; the upper jac off largest the largest through a subject of the surface 
When the biology members of the absorber is drivened to the grant of the control of the absorber is drivened to the grant of the control of the absorber is a control of the control of th the decreases of the unmirrant contents that the transcription of the three states and the three-states are green in which the three states are the transcription of the states and the three states are the transcription of the decrease of the decrease of the transcription of the decrease of the de

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removal of the cough in any other mode than by the cure of the disease of which it is the sign, and to the discrimination of which it should be the guide.

COUGUAR. [FELIS.]

COUI. [TESTUDINATA]
COUIA. [COYPOU.]
COULOMB, CHARLES AUGUSTIN DE, was born at Augoulême in 1736, studied at Paris, and entered at an at Augouteme in 1750, studied at rars, and entered at an early age into the army. After serving with distinction for three years in the West Indies, he returned to Paris, where he became known by a treatise on the equilibrium of vaults (1776). In 1779 he was employed at Rochefort, where he wrote his 'Théorie des Machines Simples,' a treatise on the effects of friction and resistances, which gained the prize of the academy, and was subsequently printed separately in 1809. A project of navigable canals had been offered to the Etats of Bretagne, and Coulomb was appointed by the minister of marine to examine the ground. His report was unfavourable, which so displeased some influential persons that he was placed in confinement: the pretext was, that he had no order from the minister of war.

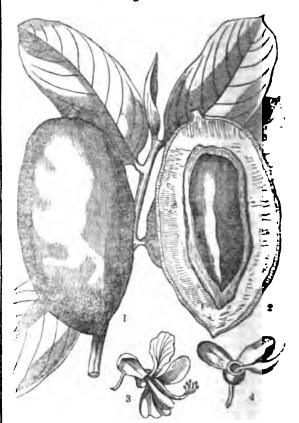
The Etats afterwards saw their error, and offered Coulomb a large recompense, but he would accept nothing but a seconds' watch, which afterward served him in all his experiments. In 1784 he was intendant des eaux et fontaines; in 1786 he obtained the reversion of the place of conservateur des plans et reliefs, and was sent to England as a commissioner to obtain information on the hospitals. At the revolution he lost his public employments, and devoted himself to his domestic affairs. He was one of the first members of the Institute, and an inspector-general of public instruction. He died August 3, 1806, havin a high moral and social character through life. He died August 3, 1806, having supported

There are many men into whose biographics we are obliged to insert more account of their labours than will be necessary in the case of Coulomb. All his researches are of such permanent character, that it would be repetition to describe them in a work which must treat separately of mechanics and electricity. We have no prominent acts of mind to record which individualize his discoveries, though they were marked by a union of patient industry and ex-perimental sagacity of no common order, accompanied by a strong sense of the necessity of mathematical experiment. or numerical determination of mechanical phenomena. He was, we may say, the founder of the school of experimental physics in France, a country which, till his time, had been by no means pre-eminent in that branch of discovery. His researches on friction, and resistances in general, were the first in which the subject had been pursued manually by one with the knowledge of mathematics necessary to combine or separate the results according to the subject and the method. In electricity he was the first who invented the method of measuring the quantity of action, and from it he deduced the fact of electrical attractions and repul-sions, following the Newtonian law. He ascertained the non-penetration of these agents into the interior of solid bodies, and on these two conclusions the mathematical second phenomenon from the first. He extended in a great degree to magnetism his conclusions on electricity. The instrument by which these brilliant results were obtained was of his own invention, the Torsion Balance, the principle of which is a needle hanging from a flexible thread, in which the force of torsion necessary to produce a given effect in producing oscillations of the needle being first ascertained, the instrument remains a determinate measurer of any small forces; or, if the absolute force of torsion be unknown, it may be made to give comparative determina-tions. This construction, in the hands of Cavendish [Ar-TRACTION], determined the mean density of the earth, and is now as much of primary use in delicate measurements of force, as the common balance in analytical chemistry. There is, perhaps, no one to whom either the determination of resistances in mechanics, or the theory of electricity, are so much indebted as to Coulomb. The account of his life is from the article in the 'Biog. Univ.,' by M. Biot. See also

ELECTRICITY, FRICTION, &c.
COUMAROUNA ODORATA, also called DI'PTERIX ODORATA, is the plant which yields the sweet-scented Tonga bean of the perfumers. It is a native of French Guiana, where it forms a large forest tree, called by the natives Coumarou; the trunk is said to be 50 or 80 feet high, with a diameter of three feet and a half, and to bear

a large head of tortuous stout limbs and branches. leaves are pinnated, of two or three pair of leaflets, with an odd one at the extremity. The flowers appear in a lary branches, and consist of a calyx with two spread sepals, and five purple petals washed with violet, of which three upper are the largest and most veiny. The stame are eight, and monadelphous. The fruit is an oblong had dry fibrous drupe, containing a single seed; the odour (
its kernel is extremely agreeable. The natives string to
seeds into necklaces; and the Creoles place them amo;
their linen, both for the sake of their scent and to ke away insects.

The genus belongs to the tribe Cassalpinia, of the ritural order Fabaceae, or Leguminosae.



COUNCILLORS. [BOROUGHS OF ENGLAND AND WAI...

COUNSEL, an abbreviation of counsellor. In English counsellor is a barrister [BARRISTER], or one who has a twelve terms at one of the four inns of court, and obtain certificate under the 9 Geo. IV. c. 49. The word has plural number, and is used to denote either one or to counsel. The duty of counsel is to give advice in tions of law, and to manage causes for clients. styled common law, equity, or chamber counsel, accurate to the nature of the business they transact. They are posed to plead gratuitously. [ADVOCATE.] In the work of Mr. Justice Bayley, 1 Chit. R. 351,—'they are to paid beforehand, because they are not to be left to chance whether they shall ultimately get their fees or 1 and it is for the purpose of promoting the honour and grity of the bar that it is expected all their fees should paid when their briefs are delivered. That is the way they are not permitted to maintain an action for it. fees.' Counsel may be retained generally, that is, to vocate any cause in which the retaining party may engaged, or specially with reference to a pending and generally speaking, it is not optional for counrefuse a retainer; there are certain rules however

which their practice is regulated.

Counsel in a cause have the privilege of enforcing. thing which is contained in their instructions and is perties :

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22 that making in question, and are not bound to inquire whether it be true in take they are also at linurity to make the nonmounts in the achieves addition.

Formarily, to case of theory, common the behalf; they in the list of provided to achieve the pury in the behalf; they in that I services resemble and more evanuate the structure.

Common the statement of the pury in the behalf; they in that I services resemble and more evanuate the winter of the list of the statement in the structure of the pury in the behalf; they in that desire by common.

Common the common that for related was the prediction of the leader of confinence and are as far under the prediction of the leader of the behalf of the production of the pulper of the court, there are also service the event of realizable for making an interest of the repulation of the making the which common to achieve a high an officer of the treatment of the making was particle. Considered in the analysis of the production, that word origin to translated by severally an officer of the provinces. Linear speaks of the souther the appropriate the court of the propriation of the appropriate the provinces. Linear speaks of the souther the provinces the that Augusta passages of the works. Discussionally as also that Augusta passages of the souther production of the magnetic particle of the propriation of the appropriation of the translated for another the court of the constitution of the surface of t

I punite.

Thinks the next two recessed the Frenk kings, the counts of the mean of the branch kings, the counts of the mean of the presented in the start, but the accessed the pulse. He presided in the start, but the accessed the pulse the presided in the start of the policy of the pulse, afficient at various depression of the pulse the pulse, the presided in the start of the order of the pulse, the presided in the start of the first of the accessed a great influence in the mutuation of the later of descriptes, who, under the title of the transment of a small district, after himited to a town of the beaution of the same time a judge, well administrator, and a military commander. In case was be lad a person the continuent of his county to the my the last of person the mathematical to a the transment. With the progress of time, the mathematical accessed at the first of the places be radiately, and in making the more for the district of which they had only to the mathematical three districts of which they had only to the mathematical three contents themselves with securing the reversion that they content to their collatoral hours and finally they that any the first of the places be radiately for ever, made; Heigh the places have a place to the districts of which they had only the of the content to their collatoral hours and finally they that any the content of the mathematical forms and the mathematical procession. The processes of at the authort Pranta, horing that care and a magnitude lie was elected allowed of the content of the mathematical mineral accession. The processes of at the authort Pranta, horing that allowed a first of the authort Pranta, horing that allowed a first of the authort Pranta, horing that allowed a first of the authort Pranta, horing that allowed a first of the authort Pranta, horing that the case of the content of the mathematical three contents and the content of the mathematical three contents.

the state of the perfect of the state of the

counter appearing at terms is an interest of the counter that the ground upon which the works at this broadgers are formed, and extending to any convenient distance to works the country: it is frequently terminated by a small reduction or bathery, from whomen a fire of light artiflery is directed into the trenches of the enemy. These trems to being always, if possible, disputed so that they contain the enfladed by the guars of the fartrens, a counter approach becomes necessary in order that the gardien way be analysis to along the fire from them, as in maps de the counterminations along them.

If counter approaches are intended for more than a successory purpose, the purapers of the reduction should be strong enough to reads the fire of artiflery, and known works should be secured against an attack at their source by lines of patients.

should be seemed against an attack at their gauge by have of patients.

LOUNTER-FORUTS, in military architecture, are her treeses of break or stone built against the constance will by which the outward pressure of the manpart, or of the natural pressure of the direct, in reasond. The rectangular portions at N and M Ag. 2. Bastron, are marker-force to situated. Tany are interested in increase the amounter-force to situated. Tany are interested in increase the amount of such walls, and are formed between them and the earth which the walls retain. Their depth is mostly repair to the mean thickness of the recreaming, and they are placed at interests of about 18 feet from one other, along the walls. They are sometimes collineated together by counter-arches. (REVERMENT).

TOUNTER-GUARDS are outworks occasionally constructed on the exterior of the bestions or revolute or a factors in order to retard the formation of a brunch mediture of those works.

The counter-guard is in general merely a line of remipers aurmanical by a parapet, and broken in different in the form it the form the harden in the north which it covers it has been rether than the interest owns, in order that the fire from the latter may have some appriantly over that of the county to any followed which be now force to the counter guard when he has taken it. In his take, the rear of the parapet, should not record about it for that, that,

while there may be room for the defenders, the enemy may not have sufficient space for the establishment of a battery on its terreplein; and consequently, that he may not be able to breach the bastion or ravelin till, by mining or otherwise, he has destroyed the counter-guard.

When counter-guards are constructed in front both of a bestion and of the collateral ravelin, the interval between their extremities unavoidably leaves a face of one of these works exposed: and, as a breach in the former would be more total to the defenders than one in the latter work, the lengths of the counter-guards must be determined by the condition that the exposed face be that of the ravelin.

What are called counter-guards in the second and third evitems of Vauban are, properly, bastions detached from the line of rampart called the enceinte. [See the work marked

V. in #2.3 Bastion ]

COUNTERMINE. [Mines, Military.]

COUNTERPOINT, in music (contrapunctum), is a
term now synonymous with harmony [Harmony], and nearly so with composition; but the latter implies more of missistem, of imagination, particularly as relates to melody, then counterpoint imports. Counterpoint in its literal and strict some arguifics point against point. In the infancy of harmony, interest notes or signs were simple points, or date, and in compositions in two or more parts were placed on the over, or against, each other. Subsequently the beam was applied to the parts added to a given melody, such modulity taking the mains of cantus-firmus, canto-fermo, or plans some [Plans Sono.] Viewing it in this sense, the Pulsa Martini whole his very elaborate and justly-celeto seed sever di Contrappunto sopra il Canto-Fermo the same & work to which we refer every student who wishes 1..., .... If it means he (1 199), ranks counterpoint as the prinespot port ( essetta principale') in airs, &c., written in terport And many writers consider the word as applythe to trad In Popuse h, the acute Spanish jesuit Eximene,

the industrious Dr. Lichtenthal, &c.; so unstable is musi cal language, so ill defined musical terms!

Counterpoint is divided into Simple, Florid or Figure: and Double. Simple Counterpoint is a composition in : or more parts, the notes of each part being equal in v to those of the corresponding part, or parts, and conor-Johann Fux\*, in his Gradus ad Parnassum (1725), furns us with the following examples of this species, calling ... part cantus firmus or the canto fermo, the other contrag. tum, or counterpoint, and taking each in turn as the taking lody. We have here substituted the treble for the c ckd-

Counterpoint. Canio fermo. Canto fermo-

Counterpoint. In Horid Counterpoint two or more notes are against each note of the subject, or canto fermo, and t

cords are admissible. Examples from Fux. Double Counterpoint, says the German theorist will



couples we have quided, the exposion of composition in ] who he say of this parts may be transposed into the tenth at a relative mailting mane index, the subject remaining the many transposed in the tenth of the subject remaining that many the first many the subject the subject remaining the subject to subject to subject to subject to subject the subject to por that the test may become the subject, the subject to the fire producing new meladies and new harman in the subject to the from what were to have been quite delighted with the the present baceners, (1013) when subtleties the goods more in or extend than in the present day. Fux

gives the subjoined examples of double counterpoint. : which it will be seen that this is little more than an exwhich it will be seen that this is interested at the sion of florid counterpoint. In the first example the sion of florid counterpoint the treble. In the cond the canto fermo is the upper part, while the con: point is transposed a tenth lower, and becomes the In the third the canto fermo and counterpoint remain ... the first example, while the latter, transposed a tenth latter. is adopted as a base, as in Ex. 2; and thus is formed a . . . position in three parts.





The study of Counterpoint is necessary as part of the administration of a good immorian, though now much negligated in his, notwortheless, been cometimes carried to such a tempth as an become pure polantry. For the principal rules of Counterpoint,—and also for some brief remarks on the question, "a bostor the art of writing in parts." was understand by the authors—see Barmony.

COUNTERSCARP, is that side of the dirch, about a fortrees, which is opposite to the ramperts. The part which is in front of the salent angle of a work is in the form on the plant of a constant or loving the vortex of that angle as a contre, and, if the dirch we that of an authors, the direction of a line which a a tangent drawn to the are from the shoulder of the voluntered of the man direction of a line which a a tangent drawn to the are from the shoulder of the unitatival landon, [See the lines above FG, GT #60 t. Bastion.] This is intended, since the length of the flank is greater than the broadth of the direction along the main ditch; and Communicating a suggests that the tangent should be drawn from the interior sale of the parapet of the shoulder angle, to allow the whole fire of the flank to be directed along the main ditch; and Communicating suggests that the tangent should be drawn from the interior sale of the parapet of the shoulder angle, in order that the directed along the main ditch, having the earth repaired on the side of the counterstrap.

A deep ditch, having the earth repaired on the side of the counters of the covered way a man theorem the directed inflamity the defense of the covered way a nate theorem the directed interior approach into the direct is the counter of the covered way a nate theory presently considered understant into the direct is the counter of the covered way a nate theory presently of the counterstrap of the covered way a nate theory presently of the counterstrap of the covered way a nate theory presently of the counterstrap of the covered way a nate theory presently of the counterstrap of the cove

means of desires.

COUNTERYALLATION, a chain of redouble excented about a fertress in order to prevent the sorties of the gardens; the sorties are sonerably unconnected with moch effect, but constitues they are united by a continuous line of proper. If has happened, during the continuous line of proper II has happened, during the continuous line of proper in the happened, during the continuous of a sone or blockade, that the investing cope has been reserved by an array assuming up to releve the firthes; in which case, where it is intended to acron the defensive without absorbing the large, a chain of redoubt is constructed to mangthese that case, a chain of redoubt is constructed to mangthese that cases as the exterior; this is called a circumstifiction; and originally, like the interior chain, it sufficely currently to Theorytolies, the form of Plates, when he slegted to rise Local monotons, was communically by a long of pulcades to previous the circum of the greyowing and the question that control is the circumstant of the circumstant of the circumstant of the circumstant of the greyowing and the question of the greyowing and the question, the countervallation exaculties by Casar con-

stated of a rampart of earth; 12 feet high, which was carmounted by a paropet, probably of states, and by turness,
at the destines of 80 feet from each other. A triple ditch
was farmed horwen like line and file town. The Roman
army was occamped beyond the line, and carboard by a
carcamelization of similar fora; the latter cas it miles in
circumstrance. It is related in the continuation of the
listory written by Williams of Tyre, that, of the issee, at
Acre by Refined I. of England, the defenders made a
sortic and beying forced the aggre, began to phanke the
comp, and it is added, that Sufadio, being in the neighben chord with an army, made a right attack on the lines;
these circumstances sufficiently tadions that both countsvollations and circomvellations were then in one.

The long duration of artifert suggest condensed such works
misspensable; but the one of artiflery haveny greatly
abridged the time to such the defence of a forming place
can be extended, they have become of loss importance, and,
in list, it is only when the germen of strong and the quarters of the besieging army are operated by the obstate less of
the ground, that any works are consulted in non-corp; and,
in this case, marcal of continuous lines of policious and
high tower of wood, a few simple redoubts and house or orks
of earth are constructed by an army of observation in the field
when any effort on the part of the enemy to rune the siege
is approbability. Figure 1

COURTY. [String 1]

COURTY, [String 2]

COURTER, from the French courter, in ten a meaning
resent in basis, in express; a bourse of despitables. The
advantage of receiving the carinest intelligence, and of our
verying arrives as a very early period. Herodotics (this
life press as particular description of the speed of the Persian
Aryuphine (Angarcion); and the couriers themselves drynpas (angarol). Another description of couriers are an only the
made of conveying intelligence was called by the Persian
Aryuphine (Angarcion); and the couriers the battle of Marsthou,

ascertained the journey which a horse could fairly perform within a day, and placed stables at regular distances, so that messengers could receive or deliver letters from hand to hand.—Gibbon, in his 'Decline and Fall of the Roman Empire,' (chap. ii.) speaks of the swiftness and regularity of the Roman posts. The Romans called such messengers cursores: they were sometimes sent on foot and sometimes on horseback. The earliest couriers of the European nations were probably what have since been called running-footmen. In manuscripts of the thirteenth century such messengers are occasionally styled trottarii or trotters. The running-footmen or couriers, who accompanied John Duke of Marlborough in his wars, are several times represented in the tapestries at Blenheim-house. COURIER, PAUL LOUIS, was born in 1774. His

father was a substantial farmer, who gave him a good education. Courier made considerable progress both in classical and mathematical studies. He served in the French army in the campaign of Rome in 1798-9. In his letters written from that country to several friends, and especially in one dated Rome, January 8, 1799, published long after in his Correspondance Inédite, he gives a frightful account of the spoliations, plunder, and cruelties committed by the invaders in that unfortunate country. Courier's love of the arts and literature, which never forsook him during his military career, made him especially indignant at the rapacity with which procious sculptures, paintings, and MSS. were torn from public and private collections, and hastily and often ignorantly or carelessly huddled together and packed up for Paris, by which several valuable objects were injured or lost. He also describes the misery of the people of or lost. He also describes the misery of the people of Rome, many of whom were absolutely starving, while the generals, commissioners, and other agents of the French Directory were revelling in luxury. On his return to France after the first peace, Courier published several translations from the Greek, such as Isocrates' Eulogy of Helena, Xenophon's treatise on the Command of Cavalry and on Equitation, and remarks upon Schweighæuser's edition of

Atheneus. He also began a translation of Herodotus.

In 1806 he again served in Italy with the army that invaded the kingdom of Naples. He went into Calabria as far as Reggio, and witnessed the desultory but cruel warfare carried on in those regions. His letters from Naples, Calabria, and Puglia, 1806-7, give some valuable information concerning those times and events. Here again Courier spoke to his friends the language of truth; he was not more blinded by the proclamations of Napoleon the Emperor than he had been by those of the republican Directory. His testimony confirms what Colletta and other national writers have recorded of the atrocities of the Calabrian war. He comments severely on the judicial murder of Rodio, a colonel in the service of king Ferdinand, who was taken prisoner, tried by court-martial, acquitted, then tried again, Courier says by orders from Napoleon, condemned, and executed. He speaks also in the same letter, Naples, July 1807, of a courier from the queen being murdered near Naples, and his despatches sent to Paris, and other transactions of a

similar nature.

Courier served with the rank of chef d'escadron in the Austrian campaign of 1809. After the battle of Wagram, he gave in his resignation, which was readily accepted; for his inquisitive turn of mind and independent temper made him looked upon as a troublesome person by the more tho-roughgoing officers of Napoleon. On reaching Florence, he discovered in the Laurentian library an unedited MS. of Longus, of which he meant to avail himself for a trans-lation of that author. Happening to upset an inkstand on the MS. by which accident a page was blotted, the libra-rian accused him of having done it purposely. Courier defended himself, but some persons in power at the Court of the Princess Eliza, Napoleon's sister, took part against him, and he was ordered out of Tuscany. Courier wrote a humourous account of the whole transaction, in a letter addressed to Mr. Raymouard, in which he did not spare his accusers. His translation of Longus was subsequently published in 1813 and was well received by the learned. Retiring to his farm at Veretz, in the department of Indre et Loire, he heard with no regret the fall of Napoleon, and expressed himself as satisfied with the charter given by Louis XVIII. if conscientiously fulfilled. He however began soon to find fresh matter for his satirical vein. His 'Livret, or Memorandum-book, and his letters, give a curious picture of provincial politics, and of the state of society in the interior

of France after the restoration. He expense the petty absolutism and consequential tone of the local authorities, the prefects, sub-prefects, procureurs du roi, clerks, and all the departmental, district, and communal bureaucracy. One of his letters turns upon the style in which a procureur du roi writes to order the arrest of a man, the style, as Courier observes, of the imperial regime. His letters, several of which were published at the time in the 'Censeur,' have been compared for their power and humour to Pascal's culc-brated Provinciales. He also directs his attacks against the priests, many of whom, by their intolerance, fanaticism, and meddling spirit, did infinite mischief to the cause of the Bourbons. When, in 1821, a subscription was opened all over France to purchase the estate of Chambord for the infant duke of Bordeaux, he wrote 'Simple Discours aux Membres de la Commune de Veretz,' for which he was tried, and condemned to one month's imprisonment. He published an account of his trial, under the title of ' Proce Paul Louis Courier, vigneron.' Courier was now looked upon as one of the most formidable antagonists of the Bourbonist party. He was however by temper a grumbler, caustic and satirical rather than factious. At the beginning of 1825 he was found murdered near his house at Veretz, but no clue was discovered to the perpetrators of the crime. Some attributed it to political, others, perhaps with more reason, to private enmity. His works have been collected, and published in four volumes 8vo., Brussols, 1828. The fourth volume contains his unedited letters. They are valuable as sketches of actual life and manners.

and as materials for contemporary history.

COURLAND, one of the Baltic provinces of Russia. in Europe, is composed of the former duchies of Courland and Semigallia, of the old bishoprick of Pilton, and of Polangen, a district of Samogitia. It was until 1795 a possession of the Polish crown. The boundaries of Courland are, on the north, the gulf of Riga and Livonia; on the west, the Baltic sea; on the south, the province of Wilna, and Prussia; and on the east, the provinces of Vitepak and Minsk. Its area, according to the inquiries of the Courland Society of Arts and Literature, is 9575 square miles, but according to Reymaim and Hassel, 10,689; and the population, which was 418,162 in 1790, may now be estimated, according to Arsenief, at about 450,000. The surface towards the sea coast is level, and presents a sandy plain about Mitau, Windau, and Goldingen, but its general character is undulating. It is intersected by two ranges of heights, one of which runs parallel with the Dina or Dwina, heights, one of which runs parallel with the Düna or Dwina, while the other takes a more westerly direction, and spreads its arms out in various directions. The most elevated points are the Huningberg, an agglomeration of sand, which is about 450 feet high, and the Silberberg. The coast is partly flat, and partly lined with sand-hills. The most northerly point is the dangerous promontory of Domes-Nüs, which is a continuation of the Blue Mountains, and stretches out between the Baltic and the guif of Rira. Two-fifths of the soil are covered with formsts or of Riga. Two-fifths of the soil are covered with forests or underwood, and a considerable part by moors of peat; nearly 15,000 acres are covered with marshes, or occupied by the 300 lakes and ponds and 118 small streams and rivulets which render the climate of Courland, though not unhealthy on the whole, raw, moist, and foggy. The largest of these lakes is the Usmaiten, in the western district of Goldingen, which is about twenty miles (thirty-five versus) in circumference; that of Sausken is ten miles long, and nearly two and a half broad; that of Angern is more properly a bay or 'haff' of the gulf of Riga. The principal river is the Düna, which skirts the eastern boundary of Courland, and of which the Aa or Bulleraa, one branch of which flows into it by a north-westerly course from the of which flows into it by a north-westerly course from the Livonian frontier, is a tributary. Besides these two rivers, Courland is watered by the Windau (which, entering it from the province of Wilns, takes a northerly course, forms a fine cataract near Goldingen, and falls into the Baltic at Windau), the Libau, the "sacred" Aa, Anger, Bartau, &c. There is a canal of some importance near Goldingen; but that which, when completed, will be of far more essential benefit to the province, is the canal begun in 1825, which will unite the Windau and the Niemen. There

are sulphurous springs at Smoden, Baber, and Baldanen.
The soil of Courland is in general light and sandy; it is most productive on the side towards Livonia. In the moors and morasses blocks of granite are occasionally found imbedded. Agriculture is the principal occupation

of the inclaimant, the rates have quantilies of type being, and onts (out to be in propertion of wheat, and to as still of making both on the propertion of wheat and to as still of making both. The properties of wheat is many fleel, other than the properties of th

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mmoralities, and behaving in a manner unbecoming an officer and a gentleman; of these the courts-martial take cognizance, and on conviction the offender may be dismissed from the service. At home, military men are not, in general, amenable to courts-martial for civil offences; but abroad, where there may be no civil courts, the case is different.

The provisions of the Mutiny Act affect not only the cavalry and infantry of the regular army, but extend to the officers and privates in the corps of artillery, engineers, and marines; to all troops in the employment of the East India Company, or serving in the colonies; to the militia during the time that it is assembled and being trained; and lastly, to the yeomanry and volunteer corps. All are subject, with-

out distinction, to trial and punishment by courts-martial.

The rules of the service require that the president of every general court-martial should be a field-officer, if one of that rank can be obtained; but, in no case, must be be inferior in rank to a captain. And it should be observed, that none of the members are to be subalterns when a fieldofficer is to be tried. As the president has the power of reviewing the proceedings, it is prescribed, and the propriety of the regulation is manifest, that he be not the commanderin chief or governor of the garrison where the offender is tried. A judge-advocate is appointed to conduct the prosecution in the name of the sovereign, and act as the recorder of the court.

No general courts-martial held in Great Britain or Ireland are to consist of less than thirteen or nine commissioned officers, as the case may require; but in Africa and in New South Wales the number may be not less than five; and, in all other places beyond sea, not less than seven. Commonly, however, a greater number are appointed, in order to guard against accidents arising from any of the members being found disqualified or falling sick. even number is purposely appointed, in order that there may be always a casting vote; and the concurrence of two-thirds of the members composing the court is requisite in every capital sentence. No officer serving in the militia can sit in any court-martial upon the trial of an officer or soldier in the regular army; and no officer in the regulars is allowed to sit in a court-martial on the trial of an officer or private serving in the militia. Likewise, when marines, or persons in the employment of the East India Company, are tried, the court must be composed of members consisting in part of officers taken from the particular service to which the offender belongs. The members both of general and regimental courts-martial take rank according to the dates of their commissions; and there is a particular regulation for those who hold commissions by brevet. [BREVET.] They are always sworn to do their duty, and witnesses are

In the accusation the crime or offence must be clearly expressed, and the acts of guilt directly charged against the accused; the time and place must be set forth with all possible accuracy; and, at a general court-martial, a copy of the charge must be furnished by the judge-advocate to the accused, that he may have full opportunity of preparing his defence. The accused has the power of challenging any of the members, but the reason of the challenge must be given, and this must be well founded, otherwise it would not be admitted; for the ends of justice might be often defeated from the impossibility of getting members to replace those

who were challenged.

examined upon oath.

The court must discuss every charge brought against the accused, throwing out only such as are irrelevant; and judgment must be given either upon each article separately, or the decision of the court upon all may be included in one verdict. The evidence is taken down in writing, so that every member of the court may have the power occasionally of comparing the proceedings with his own private notes; and he is thus enabled to become completely master of the whole evidence before he is required to give his opinion. At the last stage of the trial the decisions of the everal members are taken in succession, beginning with the junior officer on the court: a regulation adopted obviously in order to insure the unbiassed opinions of those who might otherwise be influenced by deference to the

o are superior to them in age or rank. or garrison courts-martial are appointed by ing officer, for the purpose of inquiring into ers of the inferior degrees; and they are emdict corporal punishments to a certain extent
rticles of war require that not less than five | law of that kingdom 'jus curialitatis,' or right of courtship,

officers should constitute a court of this nature; or three when five cannot be obtained. The practice is to appoint a captain as president, and four or two subalterns as the case may be; the court has no judge-advocate to direct it; therefore the members must act on their own responsibility. The proceedings are to be taken down in writing, and the sentence cannot be put in execution till it has been confirmed by the commanding officer, or by the governor of the garrison.

No commissioned officer is amenable to a regimental court-martial; but if an inferior officer or private should think himself wronged by such, he may, on application to the commanding officer of the regiment, have his cause brought before a regimental court-martial, at which, if the complaint is judged to be well founded, he may on that authority require a general court-martial to be held.

An appeal may be made from the sentence of a courtmartial by the party who conceives that he has suffered injustice; the appeal lies from a regimental to a general court-martial; and from this to the supreme courts in the kingdom. It is easy to imagine, however, that the superior court will refuse to receive the appeal unless there should be very satisfactory evidence that the merits of the case have not been fairly discussed.

After the sentence of the court-martial has been pro-

nounced, it is transmitted to the king, who may either confirm it, or, if sufficient reason should exist, may, on the ground that the process is not complete till the royal sam-tion has been given to the judgment, return it to the court for revision; or again, by virtue of his prerogative, he may remit the punishment awarded.

The chief distinction between the trial by court-martial and by jury is, that in the latter the verdict must be unantmous, while in the former the concurrence of a majority only in opinion determines the verdict. The writers on military law have endeavoured to show that the advantages in this respect are on the side of the court-martial: they contend that every member of such court delivers the opnion which he has formed from the evidence before him; while it may frequently happen in other courts that, in order to procure unanimity, some of the jury must surrender their own opinions. It may be observed, however, that in such a case the decisions are at least of equal value,

since, in the event of a concession of private judgment, the verdict is in fact formed on the opinion of the majority.

(Grose, Military Antiquities; Tytler, Essay on Military Law; Samuel, Historical Account of the British Army; Simmons, On the Practice of Courts-Martial, with Sup-

COURT OF RECORD. [Courts.]
COURTESY OF ENGLAND is the title of a husband to enjoy for life, after his wife's decease, herediaments of the wife held by her for an estate of inheritance, of which there was seizin during the wife's life, and to which or which there was seizin during the wife's life, and to which issue of the marriage is born which by possibility may inherit. It is said to be called courtesy of England as being law peculiar to this country. In the law of Scotland however it is known under the title of 'jus curialitatis,'and it is also stated in a Rescript of Constantine, Cod. vi., 59, 1, and in the laws of the Alemanni, Lindenbrog, 'Codex Legum Antiquarum,' 1613, p. 387, 'Lex Aleman.' c. 92, though by the law of the Alemanni the husband took the inheritance under circumstances similar to those that out inheritance under circumstances similar to those that establish the title to a life estate only in the English law. This title of the husband's tenancy of the estates of his wife depends upon a valid marriage, the seizin of the wife during marriage of the same estate respecting which courtesy is claimed, issue born alive during the wife's life capable of inheriting, and the death of the wife. Lands held by the wife descendible only to her some would not in case of the birth of a daughter, be subject would not, in case of the birth of a daughter, be subject to this title of the husband; nor would a child brought into the world by the casarean operation, after the mother's death, establish it. It differs from the similar rights of the wife to dower in several respects, the wife taking only part of the husband's estate, and being entitled to her tenancy though no issue is born; whereas the husband takes the whole estate, the caput baronise, and such indivisible rights out of which dower is not or cannot be assigned. By the custom of Gavelkind, a man may be tenant by the courtes,

is substantially the same with the courtesy of England. As | in the latter kingdom, five things are necessary to it; namely, marriage, that the wife is an heiress and infeft, issue, and the death of the wife.

As to the marriage, it must indeed be a lawful marriage, but it is not necessary that it be regular and canonical; it is sufficient that it is valid in law, whatever be the precise form in which it became so. According to the ancient borough laws, c. 44, the courtesy extended only to such lands as the woman brought in tocher; but afterwards it was the lands to which she had right by inheritance, as the law still is. It was always the law that the wife must be heritably infeft and seised in the lands. The fourth requi-site is, inheritable issue born alive of the marriage; that is to say, the child born must be the heir of the mother's estate, and it must have been heard to cry; for though it be otherwise in England, crying is here the only legal evidence of life. In the last place, by such issue the husband has during the life of the wife only jus mariti, as Skene says (De verb. signif. voce Curialitas); after her decease he has jus curialitatis; or as Blackstone speaks, with reference to the law of England, the husband by the birth of the child becomes tenant by the courtesy initiate, but his estate is not consummated till the wife's death; which is the fifth and last requisite to give the complete right of courtesy, the bushand needing no seisin or other solemnity to perfect his title.

COURTRAY or COURTRAI—in Flemish Kortryk,—a fortified town of West Flanders, the chief place of the district of the same name, is about 16 miles east from Ypres and 25 miles south from Bruges, in 50° 49' N. lat. and 3° 18' E. long. The town occupies both banks of the river Lys, by means of which it has communication with the principal towns of Flanders. Courtray existed in the time of the Romans, under the name of Cortoriacum, and as early as the seventh century enjoyed the privileges of a municipal city. The fortifications were begun in 1290; the castle was built in 1385 by Philip the Bold, duke of Burgundy. The works were enlarged and perfected, chiefly by the French, who built a citadel in 1647. The Flemyngs, in 1302, commanded by John count of Namur, encountered a French army near to Courtray, and found on the field, after the battle, about 4000 gilt spurs, which caused it to be called the battle of spurs. The town was taken by the French successively in 1643, 1646, 1667, and 1683, and was restored to Spain by the peace of Ryswick. The French destroyed the fortifications in 1744; in 1793 they obtained a victory over the English near the town, of which they took possession a few days afterwards, and constituted it chief place of the department of the Lys.

The population of the town, on the 1st January, 1835, was 18,858, and that of the entire parish 19,124; its streets are wide, the houses well built, and it contains several fine buildings, among others the Town-hall, a Gothic structure, the churches of St. Martin and of Notre Dame. This lastmentioned was built by Baldwin count of Flanders. Courtray contains an exchange, a college, and two asylums for orphans. A great part of the working population is employed in spinning flax, and in weaving and bleaching linen cloths and table-linen. The fine linens, known under the name of Courtray cloth, are made in the surrounding districts, and sold unbleached in the weekly market held in the town, where the pieces are finished and prepared for sale to the consumers. The number of pieces of linen thus brought to the town annually amount to 30,000; about twothirds of this quantity are bought by the dealers in Courtray, and the remainder are sold to brokers from Bruges, Ypres, Ghent, and Brussels, and even to English and French mercliants. The dyers of Courtray imitate with success the colour known as Turkey-red. Thread-lace and silk-lace colour known as Turkey-red. Thread-lace and silk-lace are among the branches of industry pursued.

(Vun der Maelen's Dictionnaire Geographique de la Pro-

vince de la Flandre Occidentale; Statisticul Papers printed

by order of the Belgian government.)
COURTS. The Courts of Common Law in this country,
like most other branches of our constitution, have grown up gradually with the progress of the nation, and may be traced back, partly to the institutions of our Anglo-Saxon forefathers, and partly to the more artificial systems introduced under the government of the Normans. From the enrliest times of which we have any account, we find the tribunals of the Germanic nations consisting of a presiding ball these departments indiscriminately. The Anglo-Saxon king had the same jurisdiction over his thanes that they ball over their own vassals. He punished all enormous

gether with certain assessors, whose denominations (and probably their functions also) were different among different tribes and at different periods. Of this nature were the country. The most important of these, was that whose jurisdiction extended over a shire or county, in which the presiding officer was at first the Earl, Alderman, or Count; and subsequently, his deputy the Vice Count or Sheriff (Shire Reeve). This tribunal exercised ecclesiastical as well as civil jurisdiction, and the bishop sat as an associate to the earl or sheriff.

The judicial functions of this Court were divided into

four distinct branches. The first included all ecclesiastical offenses; and in these the bishop was judge, and the count or sheriff his assistant, and if the delinquent disregarded the censures of the church, he enforced the sentence by imprisonment. The second branch (in which the sheriff was judge) included all temporal offences, such as felony, assaults, nuisances and the like. The third head included all actions of a purely civil nature: here the sheriff was the presiding officer, and executed the judgment; but the judges were the freeholders who did suit to the court. And fourthly, the sheriff's court held an inquest yearly of frank pledge. One branch of the jurisdiction of this tribunal was abolished by William the Conqueror, who separated the ecclesiastical from the civil power, and the bishop was no longer associated with the civil magistrate. The view of frank pledge now exists only as a form, but the other two branches of jurisdiction still subsist, though with diminished power and importance.

In order to exercise his criminal jurisdiction, the sheriff was required twice in every year to make a tour or circuit of his county. The power of determining felonies was taken away by Magna Charta, but the remains of this tribunal are still known as the sheriff's tourn, in which cognizance is taken of false weights, nuisance and other misdea-meanors. The civil jurisdiction of the sheriff still continues in the county court, the powers of which were limited to cases under forty shillings, at least as early as the reign of King Edward I.: and that sum now (except in case of replevin) limits the ordinary jurisdiction of the county court.

The land over which the jurisdiction of the sheriff ex-

tended, is said to have been distinguished as reve land. The thanes or nobles had, in the lands granted to them, a similar jurisdiction of their own, as well civil as criminal. (1, Reeve's *Hist. of English Law*, 7.) The limits between the jurisdiction of the sheriff and that of the lord were strictly preserved. But when the lord had no court, or refused to do justice, or when the parties were not both subject to his jurisdiction, the suit was referred to the tribunal of the Reeve; and a suit commenced before the lord might be removed by the defendant before the higher tri-

The civil tribunal of the lord was similar to the county court in its constitution and its powers, except that the presiding officer was not a public functionary (as the Reeve was), but the bailiff of the lord. This tribunal still exists under the style of the court baron, and is incident to every manor in the kingdom. The judges are the freeholders who owe suit and service to the lord of the manor, and if there are not at least two such freeholders in the manor, the court is lost. This was formerly the proper court in which to commence real actions to try the title to lands within the manor. The lord's tribunal in criminal cases, in which he had the same powers that the sheriff exercised in his turn, was called the Leet.

The same powers which were exercised over a particular manor by the court baron and court leet, were also exercised over particular hundreds by the hundred court and the leet of the hundred. But the number of these courts was much diminished by stat. 14 Edward III., by which all hundreds, except such as were of estate in fee, were rejoined (as to the bailiwick of the same) to the counties at

Besides these courts of inferior jurisdiction, there was also a supreme tribunal, in which the king presided. In the Saxon age, and for some time after, the legislative, the administrative, and the judicial functions of the government had not been separated; and the Wittena-gemote, or

crimes committed against the king's peace. His-court was likewise open to all those to whom justice had been refused in the inferior tribunals; and he had the power of punishing the judges if they pronounced an iniquitous sentence. It also seems probable that the king's court was a court of appeal, in which the judgments of all other tribunals, if

erroneous, might be reversed.

The Norman Conquest does not seem to have produced any immediate change in the constitution of this na-tional assembly, which thenceforth became more known as the Great Council. Its members exercised the same varied functions as under the Saxons; but when they sat in their judicial capacity, they had the assistance of the great officers of state and certain persons learned in the law, styled Justiciars, or Justices. William the Conqueror also created an officer to preside over judicial business, under the title of Chief Justiciar. The functions of this tribunal thus became gradually separated from the general business of the grand council; and from being held in the hall of the king's palace, it was distinguished by the style of Aula Regis. A great distinction was drawn between this and all the courts of Saxon origin, from the mode of authenticating its proceedings. There were at this time no written memorials of legal proceedings, and indeed of few other public acts; and when it was necessary to esta-blish any judgment or statute which had been made by the king assisted by his council, it was usual to call the testimony of some of the nobles who were present, to bear record of the fact. In progress of time, all such proceedings were written down at the time on parchment, the nobles present signing their names as witnesses, and so bearing record of the truth of what was there alleged. The writing itself was called a record; and it was held to be evidence so conclusive, that when produced, nothing was allowed to be alleged in derogation of it. The entry of proceedings on record was adopted in the judicial, as well as in the other departments of the great council, and hence the Aula Regis became distinguished as a court of record. The power and importance of the Aula Regis rapidly increased. It not only maintained the former powers of the council in punishing offences against the public, in controlling the proceedings of inferior courts, and in deciding on questions relating to the revenue of the king, but it engrossed also a great portion of the 'common pleas,' or causes between party and party. And though we may suppose that it was only the more important causes that were taken into the Aula Regis, yet as early as the reign of Edward I., when the jurisdiction of the county courts was confined to 40s., all actions above that amount were brought into the king's courts

The Aula Regis seems at a very early period to have been distinguished as exercising three several capacities, according to the different natures of the causes that were brought before it, which are treated of in our earlier legal writers as pleas of the king, common pleas, and pleas of The bond of connexion between these several jurisdictions was the chief justiciar, who presided over all of them. But in the reign of Edward III., this office was abolished, and thus were finally destroyed the unity of the Aula Regis and its connexion with the grand council, which became henceforth essentially a legislative body; and though it still retains traces of its original functions in its title of the *High Court* of Parliament, yet it has ever since ceased to exercise any judicial powers, except in cases of impeachment, or as a court of ultimate appeal. On the dissolution of the Aula Regis, the three ourts of the King's Bench, the Common Pleas, and the Exchanger, had each of them a perfectly distinct and separate existence. The Court of King's Bench had the conrate existence. The Court of King's Bench had the con-trol of all inferior tribunals and the cognizance of all tres-passes against the king's peace; the Court of Exchequer had cognizance of all cases relating to the revenue; and the Court of Common Pleas was the only tribunal for causes of a purely civil nature between private persons. The Courts of King's Bench and Exchequer still retain each of them its peculiar juri-diction; and the Common Pleas is still the only court in Westminster in which a real action can be tried; but the great mass of causes between party and party may now be brought indiscriminately in any of the three courts. The mode in which the King's Bench and

equer originally contrived by fictitious proceedings ria'e to themselves a share in the peculiar juristhe Common Pleas will be found in the accounts

10se courts.

There was likewise another court, of a more limited cha racter, which though held in the Aula Regis does not appear ever to have been under the control of the chief justiciar, viz., the Court of the Marshalsea, which had jurisdiction where one of the parties at least was of the king's household. Charles I. created by letters patent a new court, styled the Court of the Palace, with jurisdiction over all personal actions arising within the verge of the palace, that is, within twelve miles of Whitehall. These courts are now held toge ther every Friday. The Court of Marshalsea is, in fact, dis-used, but the Palace Court is in active operation.

The Saxon kings had been in the babit of making pro gresses through their dominions for the purpose of admi nistering justice. This practice was not continued by Will liam the Conqueror; but he annually summoned his great council to sit at the three feasts of Easter, Whitsuntide, and Christmas, in three different parts of the kingdom Winchester, Westminster, and Gloucester But when the great mass of the legal business of the country was brought into the king's courts at Westminster it became necessury to take some more efficient measures for the trial of causes

in the country.

The first expedient adopted was to appoint itinerant judges, justices in Eyre, who travelled through the kingdom, holding plea of all causes civil or criminal, and in most respects discharging the office of the superior courts. These itinera or Eyres usually took place after an interval

of seven years.

About the end of the reign of Edward III. this system was wholly discontinued, except as to pleas of the king's forests, the functions of the justices in Eyre being superseded by the justices of Nisi Prius. This system was first established by a statute of Edward I., which, in order to prevent the expense of bringing up the juries to the king s courts at Westminster, provided that certain judges of those courts should be appointed to make circuits twice a year for the trial of issues, upon which judgment was to be given in the court above. This system is still in operation. The justices appointed by the commission of Nisi Prius also receive commissions of Oyer and Terminer and of gaol delivery, to authorise them to try criminals; and a commission of assize, under which they used to try a peculiar species of action called assizes. These actions have long been obsolete; but the name of assizes is still given to the sittings of

the justices on circuit under their several commissions.
Under the Norman kings the fines, amerciaments, and forfeitures in the king's courts constituted a considerable portion of the revenue, and the administration of justice was held to be an important branch of the royal prerogative. But, like other branches of the prerogative, we sometimes find it in the hands of a subject, either by grant from the crown, or by prescription, which, in the eye of the law, supposes a grant, though such supposition is often at variance with probability; within the counties Palatine and other royal franchises, the earls or lords had regal juand other royal tranchises, the ears or fords had regal jurisdiction, saving the supreme dominion of the king. They had the same right as the king to pardon offences; they appointed judges of eyre, assize, and gaol delivery, and justices of the peace; all legal proceedings were made in their name, and offences were said to be committed against their peace, as in other places against the peace of the kinz. These royal prerogatives were, for the most part, re-annexed to the crown by stat. 27 Hen. VIII.; but the form of the judicial establishment still remained. The County Palatine of Pembroke was abolished by the same statute, and the County Palatine of Hallamshire shared the same fate in the reign of Elizabeth. The Counties Palatine of Chester and Lancaster are still in existence, but have long ceased to be in the hands of subjects: they are now vested in the king. The palatinate jurisdiction of Durham continued to our own day to be possessed by the bishop, but this also has been, by statute of the year 1836, vested as a separate franchise in the king; and by another statute of the same year the secular jurisdiction of the bishop of Ely has been abolished.

But besides these palatinate jurisdictions, created to increase the power and gratify the pride of the nobles on whom they were conferred, the crown has also from time to time erected courts, with a jurisdiction limited in point of territory, and always under the control of the king's superior courts. If, in the Saxon times, the boroughs had courts similar to those of the Hundreds, there are now no traces to be found of their existence; but however that may

be, it is certain that when commerce increased, it was found of the utmost importance to the boroughs to be relieved from the jurisdiction of the feudal lord, and at the same time to the jurisdiction of the feudal lord, and at the same time to have some court of justice to apply to, less distant, dilatory, and expensive, than the king's courts at Westminster. And accordingly there has, at some time or other, been granted to almost every borough of any importance, the power of exercising civil and criminal jurisdiction within certain prescribed limits. These courts were in all cases courts of record, but in other respects were not modelled on any uniform system. There was the greatest possible variety in their constitution and the extent of their powers. But the mode of proceeding in all of them was founded on the common law and the practice of the superior courts. the common law and the practice of the superior courts, and a writ of error lay into the King's Bench, except from the courts of London and the Cinque Ports. By far the the courts of London and the Cinque Ports. By far the greater number of these courts have fallen into disuse. One of the causes of their inefficiency, viz., the want of competent judges and juries, has been partially removed by the Municipal Corporation Act, and a greater uniformity has been introduced by giving to all of them jurisdiction as far as 20l. But in order to bring these courts into active operation, it still remains for the legislature to provide some more simple machinery for carrying on their ordinary promore simple machinery for carrying on their ordinary pro-ceedings; to give them better means of executing process, and of compelling the attendance of witnesses; to secure the efficiency and responsibility of the inferior ministers, and to restrict the power of removing trifling suits into the superior courts. The general incompetency of inferior courts in carrying on the ordinary proceedings in a cause is attested by a plan which has lately been introduced by the legislature. Any of the courts at Westminster is authorized, when a cause commenced there has been carried thorized, when a cause commenced there has been carried through all its preliminary stages, to send it by writ of trial, to be tried before an inferior judge, and, after trial, the cause is returned, and judgment given in the superior court. If the borough courts should ever be brought into a state of activity, the system of writs of trial, which is merely a substitute for local tribunals, would probably fall to the

Whenever that time shall arrive it will be a curious thing to trace the history of the administration of justice, which, to trace the history of the administration of justice, which, under the Saxons, essentially local, rising from the smaller jurisdiction gradually to the higher, became, under the Norman dynasty, centered in one point, the monarch being the fountain of justice. This system of centralization, connected as it was with the principles of feudalism, which so long prevailed in this island with peculiar force, was elaborated, in the course of centuries, to a high state of perfection; it absorbed the remains of the antient local jurisdictions, and stunted all attempts at the establishment of new. But as the artificial systems and feudal associations new. But as the artificial systems and feudal associations, for which we are indebted to the Normans, gradually wear away, the public mind is prepared to revert to the simpler and more popular institutions which existed ages ago among our forefathers, and which seem to be peculiarly adapted to

the character of the Germanic nations.

There is a great distinction between courts of record and courts not of record: courts of record are the king's courts, and have power to fine and imprison, which is not the case with courts not of record. From the judgment of a court of record there lies an appeal to the superior courts by writ of error; in courts not of record this is effected by a writ of false judgment. The county court, court baron, and hundred court, are courts not of record. The other courts of common law which we have mentioned are courts of re-

The great mass of the litigation of the kingdom is carried on by means of the superior courts of Westminster. In each of these courts there is a chief justice, and several puisne judges. In the Exchequer these are styled the chief baron and barons, no doubt bearing in their title traces of the time when their office was filled by the lords of parliament. Another remnant of the original constitution of the

ment. Another remnant of the original constitution of the courts appears in the appellation of 'my lord,' which is always given to the judges in their official character.

The number of puisne judges has varied at different times. During the reigns of the Stuarts there were frequently four, but after the revolution the number seems to have been constantly three, in each court, constituting, together with the two chief justices and the chief baron, the twelve judges of England. By an act of parliament of the vear 1830, a fourth puisne judge was added to each in the sure in the appellation of the Lez and Audoungane, 
court, making the total number of the superior judges of common law fifteen instead of twelve. But the five judges never sit all together, the full court consisting as formerly

of four only.

During the terms, which are four periods in the year of about three weeks each, the three courts sit at Westminster for the determination of all questions of law; and twice a year fourteen of the judges make their circuits through England and Wales, to try, with the assistance of juries, all disputed questions of fact that arise in the country. Actions brought in Middlesex or London are tried in the same manner at the sittings which are held on certain days

in and immediately after every term.

From each of the three courts there lies an appeal by writ of error to the Court of Exchequer Chamber. This is not a permanent court, consisting always of the same members; but from whichever of the three courts the appeal is made, it is brought before the judges of the other two. From the constitution of this tribunal, it is evident that where any considerable difference of opinion exists among the fifteen judges, it is incapable of effecting one of among the fifteen judges, it is incapable of effecting one of the chief purposes of a court of appeal—that of producing uniformity of decision: and, accordingly, a further appeal lies by writ of error to the House of Lords.

For the history of the courts, see Reeve's History of the English Law; Maddox's History of the Exchequer; Palgrave's Progress of the English Commonwealth; Allen's Inquiry into the Prerogative.

COUSERANS, or COUZERANS, or as it was written in the last century, CONSERANS, a district of the former province of Gascogne in France, is bounded on the east by

province of Gascogne in France, is bounded on the east by the county of Foix, on the north and west by the district of Comminges, and on the south by the Pyrenees, which separate it from the province of Catalonia in Spair. Couserans is a mountainous district: it is watered by the Aubouigane, the Lez, the Orle, the Bordes, the Riverol, the Balameig, the Eschint or Eshint, the Aleth, the Erce, the Courtignon, the Arac, and the Bau, all of which fall ultimately into the Salat, which carries off the whole drainage of the district into the Garonne. Couserans is now included in the department of Arriège. [Arrie'ge.]

This district derives its name from its antient inhabitants

This district derives its name from its antient inhabitants the Consoranni, or Consuarani. Both these names are found in Pliny, who appears to be the first Roman writer that has mentioned them: they are not noticed by Cæsar. From the difference of the names some writers have supposed the existence of two people, but M. D'Anville, with apparently good reason, rejects this supposition. It is difficult to say whether, under the Roman division of Gaul, they were comprehended in the province of Novempopulana, or that of Narbonensis Prima: perhaps they were divided or that of Narbonensis Prima: perhaps they were divided between them. Their chief town, Austria, or Consoranni, has assumed, from one of its bishops, its modern designation of St. Lizier. Upon the downfal of the Roman empire, Couserans came successively into the hands of the Visigoths and the Francs. In the feudal times it ranked first as a county, afterwards as a vice-county. It does not appear to have been included in the cession of Gascogne to the Ruelish by the treaty of Bretigny. The hishoppic in appear to have been included in the cession of Gascogne to the English by the treaty of Bretigny. The bishopric in which this district was comprehended originated probably about the end of the fifth century: the bishop was a suffra-gan of the archbishop of Auch. St. Lizier, from whom the gan of the archbishop of Auch. St. Lizier, from whom the episcopal town took its name, was elected bishop about A.D. 698, and died A.D. 742. The diocese is flow merged in that of Pamiers, the bishop of which is a suffragan of the archbishop of Toulouse and Narbonne.

The town of St. Lizier has a population of about 1100, according to the last edition of Malte Brun. The bishop's palace has been converted into a dépôt de mendicité, or convenue. There are in the neighbourhood of the town

parace has been converted into a depth to mentaltite, or poor-house. There are in the neighbourhood of the town mines of copper and lead, and beds of grey, white, and black marble. The other towns are St. Girons (population 3634 for the town, 4381 for the commune), Castillon, at the junction of the Lez and Aubouigane; and Rimont, near

probably its origin, to the Romans: according to the tradition of the country, it was built by the Emperor Constanting Chlorus (father of Constantine the Great), who called it after his own name Constantia, or, according to Ammianus Marcellinus, Castra Constantia, from whence by corruption is derived the modern name Coutances. Before the division of France into departments, this place was the capital of the district of Cotentin [COTENTIN], to which it gave name. There are no Roman antiquities at Coutances, except an aqueduct, said to be of Roman original, but which has been repaired since their time. The cathedral (Notre Dame) is one of the finest Gothic buildings in France; the church of St. Pierre is also worthy of notice. The population of the town in 1832 was 8957. The inhabitants carry on considerable trade in agricultural produce (especially horses); and manufacture bed-ticking, tape, and parchment.

The bishopric of Coutances originated in the fourth cen-

tury. It comprehends the department of Manche. The bishop is a suffragan of the archbishop of Rouen.

Coutances is the capital of an arrondissement, having a population (in 1832) of 136,847. It has a tribunal de com-

COUTHON. [COMMITTEE OF PUBLIC SAFETY.]

COUTRAS, a small town in the department of Gironde, at the confluence of the Dronne and the Isle. Here the Huguenots, under Henri of Navarre, afterwards Henri IV. of France, defeated the army of the French King Henri III., under the duke of Joyeuse, who fell in the action, 20th October, 1587.
COUVIN. [NAMUR.]

COVE, is a small inlet on a rocky coast. When the indentation is wide and deep enough to admit vessels of fifty tons burden and upwards, it is called a harbour; but when it is too narrow for that purpose, and can only be entered by small craft, it is called a cove.

COVENANT is a written agreement, by deed under seal, between two or more persons, whereby some act is agreed to be done; or, upon the happening of some event, some charge or liability is agreed to be borne by some party thereto. The person entering into the agreement, and subjecting himself to the penalty of its breach, is called the covenantor, and the person with whom it is made, the covenantee. The portion of the agreement which expresses the character of the liability of the covenantor is called the

Covenants take many varieties of forms, and are variously stated. They usually arise from the express words of the parties, but any words denoting the intention are sufficient; as, 'I agree,' 'I am content.' They are sometimes inferred, by law, from the relation of the parties or from the nature of their contract. Thus a demise for a term of years, will sustain, upon an implied covenant, an action for quiet en-

The lien of covenants usually contains introductory words, declaring the extent of the covenant. If there are several covenantors, it usually declares the covenant to be several, or joint, or joint and several. In case the covenant is several, each of the covenantors covenants for himself alone, and may be sued alone; if joint, each of the covenantors covenants for himself as well as for each other, and all must be sued together; if joint and several, each party covenants for himself, and as a surety for those with him, and an action, in this case, may be brought against one of the covenantors only, or, against all. The courts however, even in these cases, regard the interests of the parties; and if the interest, or cause of action, is joint, the action must be brought against all the covenantors, though the terms of their covenant may be joint and several; and if the interest, or cause of action, is several, though the covenant is joint, the parties must be severally sucd. The reason is, that difficulty would arise if judgment in distinct actions should be asked for one and the same cause against several persons, or against persons whom there is no cause of action to affect. The mere terms of a covenant are not therefore a sufficient guide to determine the propriety of joining parties in an action upon it.

Covenants are divided into real and personal, though, as

now used, they are as to remedy, chiefly personal.

The former affect realty, and may bind the real estate of

afford some specific advantage or protection to those into whose hands the realty to which they relate shall pass; or, to secure the performance of some specific duty by those who may possess the realty to which they relate.

In the construction of all covenants the intention of the parties is regarded. The general rules usually laid down for this purpose depend upon the presumed intention of the parties; and for this reason, a statute declaring the effect of certain covenants, and enabling them to be stated in a few words, has long been desired, in order to shorten the length of conveyance and to avoid litigation. By such a measure the express intention of the parties would always appear in deeds, by their adoption of the abbreviated language of the law, or by their restraining its general effect. Indeed, in the statutes relating to the registry of deeds in Yorkshire, it is declared that the words 'grant, bargain, and sell' are to operate as covenants for title, for further

assurance, and for quiet enjoyment.

The intention of the parties, however, is not always sufficient, in the case of real covenants, to secure their object. It is frequently desirable, when the possession of land is parted with, that the purchaser and his assignees should always be able to resort to the vendor or to his heirs for protection, or that the purchaser and his assignees should perform certain duties, and that the covenants for these purposes should always be connected with the party enjoying the land, or, in other words, that such covenants shall 'run with the land.' In order that this shall occur, the mere intention of the parties, however definitely expressed, a insufficient; there must also be privity of estate. When land mortgaged in fee was demised by the mortgager, a covenant entered into with him was merely personal; for though in equity the owner of the estate, at law the mortgagor is a mere stranger to it: there was no privity of estate between the lessor and lessee. (Webb v. Russell, 3 Term Rep., 402, 678; 1 Hen. Blackstone, 562.) The assignee also must come in of the same estate as his assigner. or the covenant will also be merely personal. Thus, a covenant to pay a fee farm rent, in a deed enabling the purchaser to appoint his estate to uses, became a mere personal covenant by the exercise of the power to appoint, for the appointment did not convey the same estate that the purchaser had acquired. (Roach v. Wadham, 6 East. 289.; [USES.] The Real Property Commissioners have stated three rules respecting covenants running with the land.

1. A covenant to run with the land so as to bind the assignee, or to give to him the benefit of it without his being named, must relate directly to the land, or to a thing parcel of the demise: such is a covenant to pay rent, to keep buildings in repair, or to observe particular modes of cultivation. 2. When it respects a thing not in existence, but which, when it comes into existence, will be annexed to the land, the covenant will bind the assigns by naming them, but will not bind them unless named: such is a covenant to erect buildings, or to plant trees. 3. When it respects a thing not annexed, nor to be annexed, to the land, or a thing merely collateral, or in its nature merely personal, the covenant will not run, that is, it will not bind the assignee, nor pass to him, even though named: such as a covenant to haul coals to the lessor's house, to grind corn at his mill, or to buy or sell stock in a certain manner. These rules, however, though originally laid down with reference to leases, have been treated as applying to cases not involving the relation of landlord and tenant. They involve many subtle distinctions, and it has been proposed that all covenants, of whatever nature or for whatever purpose, should, unless a contrary intention is expressed, or may be inferred from the instrument, bind the assignee of terms.

The Law Commissioners also divide covenants where the relation of landlord and tenant, or lessee and reversioner, does not exist, into three classes. 1. Covenants made with the owner of the land to which they relate; as covenants for title, to indemnify from existing charges, for farther assurance, &c., which supply the old remedy of warranty. with the difference, that pecuniary damages, instead of the recompense of land, are obtained under them. 2. Covenan made by the owner of the land to which they relate; as to build on certain land, to keep up a road, to keep a space of the covenantor in the hands of the heir and of his assigns.

Personal covenants bind only the covenantor, or his executors and administrators, that is, his personal estate in their vided into fractions and sold to different persons, one of the purchaser of the most valuable share, holding the deeds and writings. It has been contended that a covenant by the owner of land respecting the land should always run with the land; but this doctrine has not been established, and if sanctioned, might give an injurious control over property for an indefinite period.

At common law, none but parties or privies, by contract or estate, could take advantage of covenants, or be bound by them. Upon the dissolution of monasteries, great evils were found to follow from this state of the law, the lands then seized by the crown, and afterwards transferred to patentees or grantees of the crown, being leased under covenants, which ceased to be binding by the absence of any privity between the lessees of the church lands and the new owners of such lands. To correct these evils the 32 Hen. VIII. c. 34, was passed, which gave to the grantees of reversions generally, and to the grantees and patentees of of reversions generally, and to the grantees as were pos-the crown the same advantages and remedies as were pos-treature of the land. The sessed by the original lessors or grantors of the land. statute placed the parties to whom it applied in the position of those who were privy to the original contract. To covenants, however, merely collateral, the statute does not apply; that is, if the covenant is beneficial to the lessor, without regard to his continuing the owner of the estate, it is a collateral covenant, upon which the assignee of the reversion cannot sue. The assignee of the reversion, however, is entitled to the benefit of all covenants entered into by a lessee with the lessor, his heirs and assigns, provided such assignee be the owner of the reversion immediately expectant on the term, and provided the estate he has be the same estate which, or a portion of which, the lessor had at the time of granting the lease. If there be a title paramount by escheat or otherwise, the covenant is at an end, if such title defeats the lessor's estate.

It was a common practice, in order to secure the performance of a covenant, to take a bond as an additional security. It enabled the obligee to elect between an action of debt for the penalty of the bond, or to proceed upon the covenant. The reason of the practice was, that at common law a devisee of the real estate of the covenantor was not liable to an action for a breach of covenant, though by the statute of fraudulent devises (3 W. and M. c. 14), he was liable to an action for breach of the condition of the bond. This is now remedied by the 1 W. IV. c. 47, which extends the provisions of the 3 W. and M. to the case of a covenant.

By the 3 and 4 W. IV. c. 42, actions on covenants must be brought within twenty years after the cause of action has arisen.

Covenants may be discharged by a release, by their performance, by the destruction of the seal, or by the destruction of the interest upon which the covenant depends. They may be void at the time of their creation upon account of the personal incapacity of one of the parties to contract, as being an idiot or a lunatic, or upon account of their object being illegal, as relating to bribery, gaming, illegal insurances, lotteries, sales of offices, simony, smuggling, stock-jobbing, usury, or to wagers. They will also be void if opposed to public policy, as not to trade generally, though a covenant not to trade in a particular place, or with a particular person, would be valid.

COVENANT and COVENANTERS. [Cameronians.]

COVENANT and COVENANTERS. [CAMERONIANS.] COVENTRY, a city locally situated in the hundred of Knightlow, in the county of Warwick, of which however it forms no constituent portion; having been made, with several adjacent villages, a separate county, by an act of Henry VI. in 1451, and entitled the County of the City of Coventry. The city, exclusive of the suburbs, is about three quarters of a mile in length, and stands on a small elevation which slopes gradually towards the east and west. The situation is nearly in the centre of the kingdom, on a level tract, which, near Coventry, is about 300 feet above the sea level; 91 miles N.N.W. from London, and 10 N.N.E. from Warwick. It is a place of great antiquity, but its origin appears to be only obscurely known. By some writers it is asserted and by others denied that the name is derived (as Covent Garden from Convent Garden) from a spacious convent which was founded, says Leland, by king Canute, and was destroyed by the traitor Edric in 1016. However this may be, it is certain that in the reign of Edward the Confessor, in 1044, earl Leofric, a powerful lord of the large territory of Mercia, with his wife, the lady Godiva, founded at Coventry a magnificent Benedictine

monastery, and appropriated to it half the town and twenty four lordships, besides enriching it with a profusion of rich presents. The capacious cellar of the monks still exists, measuring 75 yards in length by 5 in breadth. From the date of this religious establishment the prosperity of the place appears to have taken its rise. After the Conquest the lordship of Coventry came to the earls of Chester. Leland, writing in the reign of Henry VIII., says that the city was begun to be walled in in the time of Edward II. and that it had six gates, many fair towers, and streets well built with timber. Other writers speak of thirty-two towers and twelve gates. The walls were demolished by Charles II. in consequence of the active part taken by the citizens in in consequence of the active part taken by the cluzens in favour of the parliamentary army. During the monastic ages Coventry had a large and beautiful cathedral, similar to that at Lichfield. At the Reformation it was levelled to the ground by order of Henry VIII., and only a fragment or two now remain. There are three antient churches, and which the most remarkable for of which St. Michael's is by far the most remarkable for architectural beauty and ornament. It was originally built in 1133, in the reign of Henry I., and was given to the monks of Coventry by Ranulph earl of Chester, in the reign of Stephen. Sir Christopher Wren is said to have considered this church a masterpiece of the lighter Gothic style. The spire rises finely tapering out of an octagonal prism upon the tower, and its summit is 303 feet from the ground. The interior is lofty and finely ornamented with rows of clustered pillars and arches, with a roof of curiously carved oak and numerous windows of antient coloured glass. (Description of St. Michael's Church, by William Reader, Coventry.) Trinity church is a Gothic edifice, but heavier and less elegant than St. Michael's. The height of its spire is 237 feet. St. John's is a plain cruciform structure, founded in the reign of Edward III. A handsome new church has been built under the parliamen-The interior is lofty and finely ornamented with handsome new church has been built under the parliamentary commission. One of the richest and most interesting vestiges of the ornamental architecture of the fifteenth convestiges of the ornamental architecture of the lifteenth century in Coventry, and perhaps in England, is a capacious building called St. Mary's Hall, erected in the reign of Henry VI. The principal room is 63 feet by 30, and 34 feet in height. Its grotesquely carved roof of oak, the gallery for minstrels, the armoury, the chair of state, and especially the great painted window facing the street, are admirably suited to furnish a vivid idea of the manners of the age in which Coventry was the favourite reserved. the age in which Coventry was the favourite resort of princes. A tapestry made in 1450, measuring 30 feet by 10, and containing 80 figures, is a curious and beautiful spe-cimen of the drawing, dyeing, and embroidery of that period. This hall is the property of the corporation, and is used as a council chamber, and for civic festivities. (Guide to St. Mary's Hall, by William Reader, Coventry.) In the market-Mary's Hall, by William Reader, Coventry.) In the market-place a richly ornamented Gothic cross, considered one of the finest in the country, was erected in the sixteenth cen-tury, and taken down in 1771 to gratify the bad taste of the inhabitants. It was hexagonal, 57 feet high, with eighteen niches of saints and kings. (Gough's Brit. Topog., vol. ii., p. 303.) The hospital in Gray Friars' Lane is very antient, and richly ornamented with carved oak. The building called the Mayor's Parlows is of the sixteenth century. called the Mayor's Parlour is of the sixteenth century : it is used for judicial purposes.

Coventry has been the seat of two parliaments; one held by Henry IV. in 1404, called Parliamentum Indoctum, from being composed of laymen inimical to the interests of the clergy, or, as some writers say, from the fact of lawyers being excluded. The other by Henry VI. in 1459, called Parliamentum Diabolicum, from the numerous attainders it issued against the Duke of York and his adherents.

Froissart and Holinshed give a graphic account of the combat at Coventry of the Duke of Norfolk and the Duke of Hereford, afterwards Henry IV. See also Shakspeare's Richard II.

Coventry has been always renowned for its exhibition of pageants and processions; and in the monastic ages it was remarkable for the magnificent and costly performance of the religious dramas called Mysteries. Accounts are extant of these solemn shows as early as 1416. They were performed on moveable street-stages chiefly by the Gray Friars, on the day of Corpus Christi. The subjects were the Nativity, Crucifixion, Doomsday, &c., and the splendour of the exhibitions was such that the king and the royal family, with the highest dignitaries of the church, were usually present as spectators. (See A Dissertation on the

Pageania or Dramatic Mysteries antiently performed at 'mentry, and other Municipal Entertainments, by Thomas 4to., 1825.) The plates in this work are extremely interesting, and the facts are valuable as indicating the great progress of society since the time when kings and pre-lates witnessed with gratification and applicates what would now shock the feelings and be condemned by the judg-ment of the humblest member of society. The following illinns from a full of expenses inserted in the work just mentioned, will give an idea of these dramatic persona: - Payd for 2 pound of have for the d.vili's head, 3e.; mending his hose, 8d. Black canvas for shirts for the damned, 4e. Rod buckram for wings of angels (represented by naked children), 7a. Paid for a cote for God, and a payre of gloves, The following work also contains much curious information: 'The Pageant of the Company of Sheremen and Taylors in Coventry, as performed by them on the festival of Corpus Christi, with other Pageants at Coventry, on the visit of Henry VI. and his Queen in 1455; of Prince Edward in 1474; of Prince Arthur in 1498, &c.; with the Verses recited in character on those occasions.' By W. Reader, Coventry. Other writers give descriptions of the costly pageants exhibited to Henry IV., Henry VII., and several other kings. Coventry was the favounte residence of Edward the Black Prince. Here also Queen El.zabeth delighted to see 'The game of Hock Tuesday,' which represented the massacre of the Danes by the English in 1002, and it was for her especial amusement that, in addition to a ring for baiting bulls, another was put down for badger-baiting, her favourite sport. The peculiar predilection of the people of Coventry for gorgeous pageantry is still displayed in the celebrated processional show at the great fair on the Friday in Trinity week, when many theusands assemble to see the representative of lady Godiva. The legendary orig of this singular exhibition is as follows: Barl Leofric had subjected the citizens of Coventry to a very appressive taxation, and remaining inflexible against the entreaties of his lady for the people's relief, he declared that her request should be granted only on the condition that she should ride perfectly naked through the streets of the city; a thing which he supposed to be quite impossible. But the lady's modesty being overpowered by her generality, and the inhabitants having been enjoined to close all their shutters, she partially realed herself with her flowing hair, made the circuit of the cur on her palifier, and thus obtained for if the evonersnon and freedom which it benevieth enjoyed. The story is embelished with the incident of Peeping Tom. a prying inquaitive titler, who was struck blird for popping out his head as the bidy passed. His efficy is still to be seen protruded from an upper window in High Street, adjoining the King's Head tavera. In Gough's edition of Camden's Britanina," (vol. n. p. 346) it is stated that Mathew of Westminster, who wrote in 130", that is, 350 years after the time of Leofte, is the first who mentions this legeral, and that many preceding writers who speak of Levine and tiod in do not motor it. In Rudder's Goncestershire, p. 607, a sum or legend in said to be related of Briavel's Challe. The Consolin prosession as at present exhibited. began only in the reign of Charles II. in 1677; it consists monally of Saint theorge of Brighand on his charger, lady Cichica a female who rides in a dress of flesh coloured muslin, with downing have, on a beautiful grav horse; then follow the motor and consecution, the whole of the city companies. the west combon to this in armour Junu bishop Baine the ties, all or splendid become with a great profusion of bott and rebends reamed of feathers, and numerous bands ! of mining of the to copy and bounder in y's boundary Show to a first the B. W. Realist 1 the course from NE to SW, measures about eight

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sessions are held, of which the recorder is sole judge, besides which there are various other courts.

Besides the patronage of many important appointments, the corporation had formerly the distribution of charitable funds amounting to 7300l, per annum. The following are the principal institutions of this kind, which in Coventry are very numerous. Sir Thomas White's charity, founded in the reign of Henry VIII, produces annually between 2000l. and 3000l. The Bablake Men's Hospital, of which an income of about 1500l. is devoted to the maintenance of poor and aged men, was founded by the will of Thomas Bond, in 1506. The Bablake Boys' Hospital has an income of about 940l., appropriated to the maintenance and education of young and poor boys. Besides these, there are twelve other considerable charities, and several minor ones. A full account of these charities is given in the 'Reports on Charities'

The free school is a richly endowed institution founded by John Hales in the reign of Henry VIII. Here Sir William Dugdale and several other eminent men were educated. The income is about 900L per annum; and the school has two fellowships at St. John's Coll., Oxford, one at Catherine Hall, Cambridge, and six exhibitions at either nniversity. It appears from the Charity Commissioners' Reports, that the school was grossly mismanaged at the time of the inquiry: the fine school-room was locked up, and the books of its library, which had not been used to light the fire with, were missing or torn and covered with mould. Since that time a new head-master has been appointed, and at present the school is again attended by a number of pupils. There is a large Lancasterian school, Sunday schools, and several good private academies; with places of worship for Catholics, Presbyterians, Unitarians, Independents, Baptists, Methodists, and Quakers. The general appearance of the town is gloomy and crowded; many of the streets being narrow, and darkened by the projection of the upper stories of houses built in the fifteenth and sixteenth centuries. The city retains its antient limits; any enlargement of which is prevented by the surrounding common, called the Lammas Lands, on which the freemen have the right of pasturing their horses and cows. streets are lighted and watched at night, but are not generally paved, or supplied with public sewers. In addition to the buildings already noticed, may be named the County Hall, a stone edifice erected in 1785, and the Draper's Hall, which is ornamented with Tuscan pilasters, and is elegantly fitted up for assemblies and other public entertainments. The gaol has recently been rebuilt by the corporation at an expense of above 16,000%.

In the time of the Edwards and Henries the tradesmen of Coventry were famed for their affluence. In 1448 they equipped 600 armed men for the public service. Until the war between England and France in 1694, the staple manufacture was woollens, broad-cloths, and caps; and previves to 1580 there existed a famous manufacture of blue thread, the water of the small river Sherbourn, which passes through the city, being an excellent menstruum for dveing this colour. During the eighteenth century there was a flourishing manufacture of tammies, camlets, shalloons, calimancoes, gauzes, &c., but it is no longer continued. At present the staple manufactures are ribbons and watches. The former was introduced about 1730, and in 1830 the number of individuals to whom it afforded employment in the city and adjacent villages is said to have been about 16.000, the number of looms being nearly 3000. Of late years this manufacture has not been so prosperous, for which one of the reasons assigned is the fact of a great portion of the proprietary manufacturers residing in London. (See Recent on Mininfactures.) The manufacture of watches was introduced about 1800, and has become so extensive that the annual number manufactured is equal to that of Landon. The local position of Coventry is favourable for connected operations, being nearly central between the four greatest parts of England—London, Bristol, Liverpool, and Hull; possessing great facilities of water communica-tion by the Coventry and Oxford canal, which opens into the Grand Trunk navigation, and having one of the main roads from London to Birmingham passing through its Allertz.

There are several guilds, or incorporated trading companies, some of which are possessed of considerable property, which they spend in charity and festivities. The city of Coventry sends two members to parliament. The elective

franchise was first granted in the reign of Rdward I. The number of electors since the Reform Act, is 5000. population of this city in 1377 was 7000, at which time there were only 18 towns in the kingdom having 3000 inhabitants. In 1831 the population was 27,070, of whom 204 families were employed in agriculture, and 4913 in trade and manufactures. There is a weekly market on Friday, and fairs on the second Friday after Ash Wednesday, May 2nd, Friday in Trinity week, August 26th and 27th, and November 1st, for the manufactures of the city, and for cattle.

(Antiquities of Warwickshire, by Dugdale; History and Antiquities of Coventry, 12mo., 1810; New Coventry Guide, by W. Reader.)

COVERDALE, MILES, bishop of Exeter, a native of Yorkshire, was born in 1487. He was educated in the house of the Augustine friars in Cambridge, of which Dr. Barnes, afterwards one of the Protestant martyrs, was then Whether he took a degree at the University of Cambridge in early life seems uncertain; but Godwin says he afterwards received the degree of D.D. from the University of Tübingen, and was, though later in life, admitted ad eundem at Cambridge. Being in his early years attached to the religion in which he was brought up, he became an Augustine monk. In 1514 he entered into holy orders, and was ordained at Norwich; but he afterwards changed his religious opinions. Bale says he was one of the first who, together with Dr. Robert Barnes, his quondam prior, taught the purity of the gospel, and dedicated himself wholly to the service of the Reformation. About this time, probably 1530 or 1531, the reformed religion began to show itself at Cambridge, where various eminent men, and Miles Coverdale amongst them, began to assemble for conference on those points which had been discussed by the reformers abroad. In 1532 he appears to have been abroad, and assisted Tyndale in his translation of the Bible; and in 1535 his own translation of the Bible appeared, with a dedication to King Henry VIII. It formed a folio volume, printed, as Humphrey Wanley (Lord Oxford's librarian) thought, from the appearance of the types, at Zürich, by Christopher Fros-chover. He thus had the honour of editing the first Eng-lish Bible allowed by royal authority, and the first translation of the whole Bible printed in our language. The Psalms in it are those now used in the Book of Common Prayer. About the end of the year 1538 Coverdale went abroad again on the business of a new edition of the Bible. Grafton, the English printer, had permission from Francis I., at the request of King Henry VIII. himself, to print a Bible at Paris, on account of the superior skill of the workmen, and the goodness and cheapness of the paper. But, notwithstanding the royal license, the Inquisition interposed by an instrument dated December 17, 1538. The French printers, their English employers, and Coverdale, who was the corrector of the press, were summoned before the inquisitors, and the impression, consisting of 2500 copies, was seized and condemned to the flames. The avarice of the officer who superintended the burning of the copies, however, induced him to sell several chests of them to a haberdasher, for the purpose of wrapping his wares, by which means a few copies were preserved. The English proprietors, who had fled at the alarm, returned to Paris when it subsided; and not only recovered some of the copies which had escaped the fire, but brought with them o London the presses, types, and printers. This importa-ion enabled Grafton and Whitchurch to print, in 1539, what is called Cranmer's, or 'The Great Bible,' in which Soverdale compared the translation with the Hebrew, corected it in many places, and was the chief overseer of the vork. Coverdale was almoner, some time afterward, to Purcen Catherine Parr, the last wife of Henry VIII., at those funeral he officiated in the Chapel of Sudeley Castle of Choucestershire in 1548. On August 14th, 1551, he succeeded Dr. John Harman, otherwise Voysey, in the see of Exeter. On his appointment to this bishopric, Coverdale was so poor as to be unable to pay the first fruits, which herefore the king, at the solicitation of Archbishop Cranmer, cused. On the accession of Queen Mary, and the concorn his see, and thrown into prison, out of which he was eleased after two years' imprisonment, at the earnest re-ucet of the king of Denmark, whose chaplain, Dr. John Tachabaus, had married the sister of Coverdale's wife. On us release, which was on the condition of banishing him-

self, Coverdale repaired to the court of Denmark; he went afterwards to Wesel, thence to Bergzabern, and finally to Geneva, where he joined several other English exiles in producing that version of the English Bible which is usually called 'The Geneva Translation;' part of which, the New Testament, was printed at Geneva in 1557, by Conrad Badius, and again in 1560, in which last year the whole Bible was printed in the same place by Rowland Harte. On the was printed in the same place by Rowland Harte. On the accession of Queen Elizabeth, Coverdale returned from exile; but having imbibed the principles of the Geneva re-formers, as far as respected the ecclesiastical habits and ceremonies, he was not allowed to resume his bishopric, nor was any preferment offered to him for a considerable time. In 1563 Bishop Grindal recommended him to the bishopric of Llandaff; but it is supposed that Coverdale's age and infirmities, and the remains of the plague, from which he had just recovered, made him decline so great a charge. In lieu of it, however, the bishop collated him to the rectory of St. Magnus London Bridge. He resigned this living in 1566. The date of his death has been variously stated. The parish register of St. Bartholomew, behind the Royal Exchange, however, proves that he was buried February 19th, 1568, in the chancel of which church a Latin epitaph remained for him, till it was destroyed along with the deput for him the great first along with the church in the great fire of 1666. Coverdale was the author of several tracts calculated to promote the doctrines of the Reformation, and of several translations from the writings of the foreign reformers: a list of no fewer than seventeen of these will be found at the end of Coverdale's life in Chalmers's Biographical Dictionary, which is our authority for the greater part of the facts here mentioned. (See also Strype's Lives of Cranmer, Parker, and Grindal; his Memorials and Annals; and Tanner's Bibliotheca Britannico-Hibernica.)

The third centenary of the publication of Coverdale's Bible was celebrated by the clergy throughout the churches of England, October 4th, 1635 and several medals were

struck upon the occasion.

COVERED-WAY, a road surrounding a fortified post along the side of the ditch which is opposite to the ramparts. It is usually about 30 feet broad, on the level of the natural ground, and is protected by the mass of earth called the glacis. Its situation is indicated by the unshaded space above the line R R in the article Bastion (fig. 1). As the works of a fortress form a series of angles which are alternately re-entering and salient, the covered-way necessarily changes its direction at each angle; and the spaces which are there formed by its branches (as at L and above the curve line at E in the article and figure above cited) are respectively designated 're-entering and salient places of

Under the name of orlo the covered-way is met with in the writings of the first Italian engineers, and it is said to have been invented by Tartaglia in the 16th century.

In the defence of a fortress this work is of great importance. A constant fire may be kept up from thence while the trenches of the besiegers are being slowly executed on the surface of the glacis; and in the systems of Vauban and Cormontaingne it is purposely made so narrow as to render the construction of a breaching battery upon it im-possible, except by the tedious operation of removing a

large part of the glacis.
Without the covered-way, troops making a sortic would, after having crossed the ditch, be scarcely capable of de-ploying under the fire of the enemy; and, in retreating, if pursued, they might be cut in pieces on the counterscarp before they could descend into the ditch, or gain, by the bridges, the posterns of the fortress; whereas by the sally-ports, or by steps temporarily formed along the interior side of the glacis, the departure from, or the return to, the covered-way is readily accomplished by a large body of

An attack on the covered-way is, moreover, a difficult enterprise, and is usually attended with great loss to the besiegers: the thickness of the glacis renders it impossible to facilitate the assault by forming a breach in it; a grazing fire of musketry from the covered-way disorders the assailants during their approach; and, when arrived at the crest of the glacis, one, and sometimes two rows of palisades form a serious impediment to a descent into the work. Rven if an entrance should be gained, the assailants are confined between the traverses and annoyed by the fire of the defenders who have retired behind them, or by a

plunging fire from the parapets of the fortress. It is easy to conceive, therefore, that such an attack will scarcely be made unless those fires have been previously in part silenced, and the palisades in the covered way deranged by a fire of guns or howitzers from the enfilading batteries. COVERTURE. [Wife.]

COW, one of the most useful of the domestic animals Her milk is peculiarly adapted to nourish infants and invalids, and requires no preparation to make it palatable or wholesome. In the article CATTLE we have given an enumeration of the various breeds of cows; and under BUTTER and CHEESE an account of their principal produce. We shall here confine ourselves to the proper management of a cow, so as to make her most productive; and to the most common diseases to which this animal is

where only one or two cows are kept, especially where they are to be maintained on a limited portion of pasture, it is of great importance that a good choice be made when they are purchased or reared. Some breeds no doubt are much superior to others; but as a general rule, there is a better chance of having a profitable cow, if she be reared on the land on which she is to be kept. When the common beved of the country is decidedly inferior, it may be profitat le to bring a cow from a distance, in which case it should be from some district of which the pasture is rather inferior to that to which she is brought, or at least not better. best breeds are found in the richest pastures, but they do not thrive on worse. On poor land a small active cow will pick her food and keep in condition, where a fine large cow would starve, or at least fall off rapidly. This is particularly the case in the mountains, near the tops of which no domestic animal will live but the goat, and next to it the smallest breed of cows. Where the pastures are poor but extensive, cows give little milk, and the number which can be kept must make up for the produce of each. Where, on the other hand, cows are stalled, as in Flanders, and fed on artificial food brought to them in sufficient quantity, large bulky cows give the best return for the food; at least this seems to be the opinion of the Flemish farmers in general. In France, where the cows are led along the roads to pick up the herbage growing by the road-side, or are tethered on a small portion of clover or lucern, a small lean cow is pre-ferred; and in general the cows commonly met with, and which are bred in each district, seem the best adapted for the mode in which they are fed. Whatever be the breed or quality of a cow, she should always have plenty of food, without which no considerable produce in milk can be expected. This food should be succulent as well as nourishing, or else fat will be produced instead of milk. A cow This food should be succulent as well as nourishwell fed may be safely milked till within a month of her calving. It is better that she should be dry before the new milk begins to spring in her udder. A little attention will readily prevent her becoming dry too soon, or being milked too long. Heifers with their first calf should be allowed to go dry sooner than older cows; because their growth would be impeded by the double drain of the milk and the calf. It is best to let a heifer go to the bull when nature prompts her to it, provided she be not less than fifteen or eighteen months old; for if they are thwarted in their first luat, they are apt to become irregular ever after; and it is advantageous for a cow to calve regularly at the same sea-son of the year. The best time is May, when the grass begins to be succulent. In some countries, such as Switzerland, the cows calve regularly in April or May, and are is killed almost immediately, unless it be reared for stock, well being of little value. In populous countries where yeal is considered a luxury, the calves are kept and fattened b) letting them suck the cows, or by giving them warm milk to drink. Near large towns this is a profitable mode of employing the milk, when it cannot be sold for immediste consumption [CALF.]

A cottager with two or three acres of moderate land may keep a cow, and thus add much to his earnings as a laof permanent grass f-need off, to allow the cow to take exerease, which is necessary to her health. Her food must be raised in regular succession, and cut for her. The earliest green find is rye; then tares; then clover, which may be green find is tye; then tares; men cooks, ample supply, it will so to succeed each other as to give an ample supply. Cabbages, beet-root, parsings, potatoes and turnips, continue the supply during winter; and the dung and urine

of the cow carefully collected, will be sufficient to keep the land in condition. This system, lately introduced into some parts of Ireland, has already greatly improved the condition of the industrious poor. There is very good advice on this management in Cobbett's Cottage Economy, a useful little

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Where cows are allowed to be in the open air, with proper shelter in case of stormy and wet weather, they are subject to few diseases. They must be carefully looked to at the time of calving, but except in urgent cases nature must be allowed to perform her own office. A little common sense and experience will soon teach the possessor of a cow to and experience will soon teach the possessor or a cow to assist nature, if absolutely necessary; and in case of difficulties the safest way is to call in an experienced person. Drinks and medicines should be avoided; a little warm water, with some barley or bean meal mixed with it, is the most comfortable drink for a cow after calving. The calf, and not the calf should have the first milk which necessary and not the cow, should have the first milk, which nature has intended to purge its intestines of a glutinous substance which is always found in the new-born calf. A very common disease with cows is a disordered function of the liver. producing a yellowish tint in the eyes, and sometimes in the skin. A gentle purge, consisting of half a pound of Glauber salts, an ounce of ginger, and two ounces of treacle. with two quarts of boiling water poured over them, may be given when it is milk-warm, and repeated every other day; keeping the cow warm, if it be in winter, by a cloth over the loins, and in a shed. This will in general restore her health. Should the cow appear to have a chronic affection, the safest course for a cottager is to part with her at any price to those who may be better skilled in curing diseases; for it is seldom that a cow is worth the expense of the farrier's attendance in such cases. The symptoms of a diseased liver or lungs in a cow are leanness, with a staring coat, a husky cough with loss of appetite, a difficulty of breathing, and a great diminution in the secretion of the milk. The first loss by the sale of the cow is always the least in the end. In accidents, or acute diseases, the attendance of a clever veterinary is indispensable.

Nothing is more prejudicial than the idea that medicines

are necessary to keep cows in health; and the practice of keeping advertized medicines at hand to give to an animal whenever it is fancied to be ill, is very detrimental to their health. Attention to food and exercise, giving the first regularly and in moderate quantities at a time, and allowing the cow to use her own judgment as to the latter, are the great secrets of health; and a healthy young cow reared at home, or purchased of a conscientious dealer, will probably live to old age without ever having had any disease. A cow is old and unprofitable when she reaches twelve or fourteen years. She should then be sold and a young one purchased. If the cottager have the means of rearing a cow-calf to succeed the old mother, he will do well; if not, he must lay by a portion of the cow's produce every year to raise the difference between the value of the old cow and a young one. The saving banks are admirable institutions for this purpose: a few shillings laid by when the produce of the

exchange an old one for a younger.

COW-TREE, a plant little known, belonging to the natural order Urticacese, and apparently to the genus Brosimum, from which, when wounded, a milky nutritious juice is discharged in such abundance as to render it an important object to the poor natives in whose country it grows. It is described by Humboldt as being peculiar to the Cordilleras of the Coast of Caracas, particularly from Barbula to the lake of Maracaybo, near the village of San Mateo, and in the valley of Caucagua, three days journey east of Caracas. In these places it bears the name of Palo de vaca or arbol de leche, and forms a fine tree resembling the star apple of the West Indies. Its oblong pointed leaves, rough and alternate, are marked by lateral ribs, prominent at the lower surface and parallel; they are, some of them, ten inches long.' Its flowers and Brosimum, from which, when wounded, a milky nutritious they are, some of them, ten inches long? Its flowers and fruit have not been seen by any botanist. From incisions in its trunk flows a glutinous milk, similar in consistence to the first milk yielded by a cow after calving. It has an agreeable balsamic smell, is eaten by the Negroes, who fatten upon it, and has been found by Europeans perfectly innoxious. In chemical characters it is remarkably similar to the milk of capitals. similar to the milk of animals, throwing down a cheesy matter, and undergoing the same phenomena of putrefaction as gelatine.

Burnholdt supposed the son-trees to belong to the Suppose of the first to the Corner, it is at least entering that it is enter a species of Businesses, it is at least entering to it. It is enter a species of Businesses, it is at least entering to it. It is enter a species of Businesses, it is at least entering to it. It is enter a species of Businesses, it is at least entering. The latter attended on the principles of the Uringsome arrive.

The latter attended on penders the row-row will enter the interest of the state of the mility pures of Businesses plants as at a since the same highly parasiness. But interests are now as quantised with many distances of imposed a plants in a since the same highly parasinesses of imposed a Businesses, butingpag is the deadly Apocynamical family solds a dock such mility fluid destinate of necessary, and he known paint of Coylon is a serie of East Indian way plant, instructional and damperous. In the absence of several winds a court and damperous. In the absence of several winds a court and damperous to the Assispants of several winds a court and damperous to the Assispants of several winds a time of several and damperous of the assistance and it the court of the assistance and in the court proposition and without difficulty in the court of the attended at the supplement without difficulty in the court of the attended at the supplement without difficulty in the court of the attended at the supplement without difficulty in the court of the attended at the supplement without difficulty in the court of the attended at the supplement without difficulty in the court of the attended at the supplement without difficulty in the court of the attended at the supplement of the attended a

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on unbeaut is a correction of 41 Koochen, the Bongsii one of one of the plants that produces it, common of the area found upon the pade of different species of Africages, loy are exceedingly dender, bulle, and couly defaulted, at the fragments resulty stock into the stan and produce a stackendal tribing; house they are frequently employed as a correction purposes. Cowitch is also used mechanisms as a correction, by indust mixed with syrugatil of the consistence of between the given in doses of two or three landsmarks.

remarks.

The plants that have there pels are large (wining annuals arguments), with horses like those of kidney beaus, dark purple paper one flowers, with a short standard lying their again the sings and head and standard lying their again the sings and head argo-headed antiners. The pulse smithin from one to us seeds, and are revered by avery writibled shravalled alon, which even stands up an little planes. Before they are size and their have hardened, as pasts are seeplered as a vegetable, like kidney house, and are described as beaut didicious. The species are found to be lace, thickels, on the burks of revers and about extensioners in both the Rest and West Indian, and America which the trops. Miscans arens and pourseus nearly bounds that the trops. Miscans arens and pourseus nearly bounds by the Telingus Energy desia geneta, or Elephant's fermily word, is said to exceed the others in the irritating saming proposity of its lacins. Dr. Restough states that the parameters was one of the plants formarly used in bules to said out to exceed the others in the irritation sounds. So have the interesting sounds are taken for and it is more than itself that the differ plants amplicant for the areas base and a reformately much loss dangerous than those who employ them imagines.



COWLEY. ABRAHAM, the sun of a green reachest in Files Street, London, was harn in 1818, and codecated at Westmitters belied, and Erinity College. Combridge. He was at sally such and attributes his direction of the genina to the periosal of Speciaer, whose works, he says, were work to by to his motion a portion of and with whole his made introduction to the meaning a protect of and with whole his made introduction to the meaning a mean of the things. The Tragonal Huntery of Pyramen and Timbel. written when he was too years old. At college his narrossed his requestion by the elegance of his expresses per at his Therefore, an introduction, and an interest of his proposed to greater per at his Therefore, an introduction made works, companed the greater per at his Therefore, an introduction of the history and made to the history and extended to the cent t party, he was opened in 1812, affare in that share he had not a meaning at he made to the control of the follows of the follows of the party in leaf Jerman, afterwards acro 181. Altania, was anniholyted in the honorable and coundouthal office of cyphesians and decayleases in the correspondence of the exting and space. He followed his hance in Pers in 1846, and or sample yet in leaf agrees. Remarking in 1850, as a cort of agg, the take necessary of the persons with a prefuse, in which he seems to have inverted an interest of the persons of the pers

And this is not wonderful, when we are told | fondness.' that he never loved but once, and then wanted resolution His Miscellanies have gained high to tell his passion. praise from the same critic, as containing 'great variety of style and sentiment, from burlesque levity to awful grandeur.' The style of his prose is also highly commended.

ur.' The style of his prose is also highly commended. COWPARSLEY, a wild umbelliferous plant, called Chæror hyllum temulum.

COWPARSNEP, a wild umbelliferous plant, called He-

racleum Sphondylium.

COWPER, WILLIAM, was born at Great Berkhamstead in Hertfordshire, of which place his father, the Rev. John Cowper, was rector, on the 15th of November (old style), 1731. He was first placed, when he was but six years old, at a school kept by Dr. Pitman, at Market Street in Hertfordshire. The cruelty of an elder boy rendered the two years which he spent here two years of misery. He was next placed in the house of an oculist, apprehensions being then entertained that he would lose his sight; and under the care of this oculist two more years of his buyhood were passed. At the age of ten he was sent to Westminster School, where he stayed till he was eighteen; applying during these eight years with diligence to his studies, and

entering with spirit into beyish sports.

After leaving Westminster, Cowper was articled for three years to a solicitor; in whose office he had for a fellow-clerk the future Lord Thurlow. When the three years for which the future Lord Thurlow. When the three years for which he was articled, during which however he gained no great stock of legal knowledge, expired, he took up his abode in chambers in the Middle Temple. In 1754 he was called to the bar; and in 1759 he was appointed a commissioner of bankrupts. One reason, and doubtless a principal reason, why the law had been fixed upon as Cowper's profession, was the existence of a certain amount of legal patronage in the hands of some of his relations. It was not certainly from any enthusiasm for the law evinced by Cowper; though it has not been made out that his profession had been determined upon by his friends in the teeth of convincing proof that he was unfit for it. Having however a small ratrimony, and looking forward to the exercise in his favour of the family influence which has been mentioned, he cared not for that to which application would lead, any more than he liked the subject to which he was to apply; and accordingly he neglected the study of law. While residing in the Temple, he made love to his cousin, Theodora Cowper, the sister of his correspondent, Lady Hesketh, and dallied with literature. He was a member of a club called the 'Nonsense Club,' consisting entirely of Westminster men, among whom were Bonnell Thornton, Colman, and Lloyd; and he contributed a few papers to the 'Connoisseur,' of which Thornton and Colman were the joint projectors and writers

His residence in the Temple extended through eleven years. In 1763, the last year of that residence, the offices of clerk of the journals, reading clerk, and clerk of the committees in the House of Lords, all which offices were at the disposal of a cousin of Cowper's, became vacant about the same time. The last two were conferred on Cowper. His patrinony was by this time well nigh spent, and the gift was therefore so far acceptable. But the duties attached to the offices of reading clerk and clerk of the committees were duties which required that he should frequently appear before the House of Lords; and to him, who suffered from extreme nervousness, a public exhibition of any kind was, as he himself expresses it, 'mortal poison.' He therefore, almost immediately after having accepted them, resigned these offices; and took that of clerk of the journals. But here again, his cousin's right of nomination having been questioned, Cowper was unexpectedly required to subto throw if to an examination at the bar of the house, before being allowed to take the office. Thus the evil from which he meemed to have escaped again met him. thunderbolt,' he writes in his memoir of himself, 'would have been as welcome to me as this intelligence.... To require my attendance at the bar of the House, that I might there publicly entitle myself to the office, was in effect to friend, the honour of his choice, my own reputation, and encumatances, all urged me forward; all pressed me to undertake that which I saw to be impracticable. Unceasing was the anguish which he now suffered. He even looked forward anxiously to the coming of insanity, a constitutional sendency to which had manifested itself some years before,

that he might have a reason for throwing up the office; and when the dreaded day drew near, and he found himself still in possession of his senses, he determined on the commission of suicide. His many attempts to destroy himself all failed of success, owing, as he is pleased to explain it in office was ultimately resigned on the very day appointed for the examination; and shortly afterwards he became insane. He was immediately placed under the care of Dr. Cotton at St. Alban's, with whom he stayed until his recovery, which took place about eighteen months after, in June,

The form which Cowper's madness assumed was that of ligious madness. A belief that he had been irrevolably religious madness. cut off from a state of grace in this world, and of salvation in the next, was that which preyed upon his mind previous to the coming of the shock, and was predominant while it lasted. In the three subsequent periods of his life du.in; which madness returned to him, from 1773 to 1776, for about six months in 1787, and during the six years preceding his death, its form was the same.

On Cowper's recovery in 1765, he took up his residence in Huntingdon, solely that he might be within reach of a founger brother who was then at Cambridge. Here he became acquainted with the family of Mr. Unwin, the benefic al influence exercised by whom on Cowper's subsequent life is well known. Finding that his spirits were sinking in the solitude in which he lived, and also that his scanty means were not sufficient to maintain a separate establishment, he became a boarder in Mr. Unwin's house. On Mr. Unwin's death in 1767, Cowper and Mrs. Unwin removed to Olney in Buckinghamshire, attracted thither by their esteem for Mr. Newton, who was then curate of the place. Mr. Newton, a man greatly to be respected for moral worth, was of that religious class which is commonly called evangelical; and Cowper now entered upon what is styled by a biographer belonging to the same class of pietists 'a course of decided Christian happiness, substituting frequent evangelical worship for the daily form of prayer with which he had hither to contented himself, and enjoying the advantages of a more extended religious intercourse. It is probable that Cowper, with his constitutional nervousness and predisposition to mental derangement, did not derive unmixed good from the excitement of frequent prayer-meetings and an unremitting attention to religious subjects. Mr. Newton had formed a plan of publishing a volume of hymns, and prevailed on Cowper to assist in composing them. They were afterwards published in 1776, under the title of Olney Hymns; but Cowper, before he had proceeded far in their composition, was visited with his second attack of madne:s, which lasted nearly four years.

In 1776, after Cowper's recovery, Mr. Newton removed from Olney. By Mrs. Unwin's advice he was now induced to commence a poem, taking, upon her suggestion, the Progress of Error for his subject; and he immediately went on to write three more moral satires, intitled 'Truth,' 'Table Talk,' and 'Expostulation.' These, together with the poems intitled 'Error,' 'Hope,' 'Charity,' 'Conversation,' and 'Retirement,' and some smaller pieces, were formed into a volume, which was published in 1722. In 1776, after Cowper's recovery, Mr. Newton removed sation,' and 'Retirement,' and some smaller pieces, were formed into a volume, which was published in 17-2. He published a second volume in 1785, containing the 'Task' and 'Tirocinium,' the former of which poems had been commenced on the suggestion of another female friend, Lady Austen. It is to the same lady that we are indebted for the 'History of John Gilpin.' He had begun in 1784, so soon as the 'Task' and 'Tirocinium' had been written, his translation of Homer, which occupied him for in 1784, so soon as the 'Task' and 'Tirocinium' had been written, his translation of Homer, which occupied him for the next six years. The translation was published in 1791. During its progress he had changed his place of residence from Olney to the neighbouring village of Weston, on the recommendation of his cousin, Lady Hesketh, with whom he had recently renewed. he had recently renewed a correspondence which had been long suspended, and whose attentions contributed much to the comfort of his later years. Almost immediately after the translation of Homer was completed, he undertook to superintend a new edition of Milton's Works, and to furnish translations of the Latin and Italian poems. In 1792 he paid a visit to Hayley at Eartham, in Sussex, not having made a journey for twenty years before. Symptoms of his constitutional malady had occasionally shown themselves during the eight or ten preceding years; and in the be-ginning of 1794 he was again affected with madness. A change of scene being judged desirable, he was removed

first to North Tuddenham in Norfolk, thence to Mundsley, and afterwards to East Dereham; and he succeeded in obtaining short intervals of comparative tranquillity, during which he composed one or two small pieces and revised his translation of Homer. Mrs. Unwin, his faithful companion, died on the 17th of December, 1796; and after three dreary years, Cowper fullowed her to the grave on the 25th of April, 1800. He died in his 69th year.

Cowper's merits have been summed up by Mr. Southey in the words—'the most popular poet of his generation, and the best of English letter-writers.' His letters are written in a genuine unaffected English style, and are marked for the most part by a playfulness and humour which effectually prevent the weary feeling that usually along continuous reading of enisteless or research. attends a long continuous reading of epistolary correspondence. Absence of affectation is again a chief characteristic of his poems. They are free from all sickly sentimentality or mannerism in language. As regards freedom from the first, the manliness of the poet presents a striking contrast to the feminine character of the man; while, with reference to the second point, Cowper has the merit of having done much towards that improvement in poetic diction which has since received a mighty impulse through the poems of Mr. Wordsworth. He was an enthusiastic lover of nature; and some of his descriptions of natural objects are such as Wordsworth himself might be natural objects are such as Wordsworth himself might be proud to own. His poems contain also, as it is not too strongly expressed by Hazlitt, 'a number of pictures of domestic comfort and social refinement which can hardly be forgotten but with the language itself.' (Lectures on the English Poets, p. 182.) There is a striking amount of variety in his poems, or, taking but one of them, in the 'Task' alone. Some of his smaller pieces, as for instance the Lines on receiving his Mother's Poetrait, and those the Lines on receiving his Mother's Portrait, and those addressed 'to Mary,' are exquisitely pathetic.

It is necessary to say a few words concerning his translation of Homer. Its execution is unequal, as might be expected in the case of a work of such length, and of an author subject to attacks of melancholy as Cowper was. But taken as a whole, and judged by those rules which should be applied to translations, it must be pronounced the best translation of Homer which we possess. He set out with a determination to seize, so far as he could, the real spirit of Homer; whereas Pope, who, it is well known, translated not from inclination, but for money, had thought of any thing else; and having adopted blank verse, he had to make no sacrifices of meaning or language to the tyranny of rhyme. From Cowper too, a man gifted with a decidedly poetical temperament, a more genial appreciation of Homes was to be expected than from one whose merits chiefly consist in powers of wit which are certainly great, and in a facility of rhyming which is certainly extraordinary. Cowper himself said of his predecessor— There is hardly the thing in the world of which Pope was so destitute as a taste for Homer.

There are numerous Lives of Cowper. It is unneressury, since all that is peculiar in the views taken by pre-redling biographers is either embodied or discussed in these two, to mention more than those by Mr. Grimshawe and Mr. Southey. Each of these Lives is prefixed to a Colection of Cowper's Letters and Poems. Mr. Grimshawe unnounces that he presents a 'complete edition of the Works of Cowper, which it is not in the power of any interest. idital besides himself to accomplish, because all others are lebarred access to the "Private Correspondence." The Private Correspondence," The Private Correspondence." The Private Correspondence, it appears, is a collection of Cowler's Letters, which was published in 1824 by Dr. J. Johnson, and the copyright of which is in the hands of Ir. Grimshawe's publishers. Though Mr. Southey is thus lebarred from inserting the whole of this collection in his slittion, he has embodied in the Life all that is material licrein; while, by the kindness of many of the surviving platives of Cowper's friends, he has obtained access to clatives of Cowper's friends, he has obtained access to nuch of his correspondence that had never seen the light. He has also been enabled, through the same sources, to thed new light on many incidents of Cowper's life; for intance, his connexion with the ignorant enthusiast Teedon vol. iii., chap. 16, 17,), and the breach with Lady Austen, which preceding biographers have invented many gossiping tories to explain, and which, by showing that Cowper gra-lually got tired of her society, he has divested of its former nysterious importance. A poem entitled 'Anti Thelyph-hora,' being a satire against those who would do away with

the institution of marriage, appears among Cowper's poems for the first time in Mr. Southey's edition.

COW-POX. [VACCINA.]

COWRY SHELLS are called by conchologists Cyprace

Their beauty has procured them a place among the ornaments of our chimney-pieces, and they have been in demand among civilized and uncivilized nations time out of memory. Like the precious metals, they are not only used for ornament, but they have also the qualities necessary to constitute them a species of currency. In fact, cowries are used as small coin in many parts of Southern Asia, as in India, the Burmese empire, Siam, &c., and especially on the coast of Guinea in Africa. Their great multiplication in these countries has however depressed their value much below that of the precious metals. In 1740 a rupee in Bengal was worth 2400 cowries; in 1766, 2560 cowries; and now, we believe, 3200 may be had for it.

The shells used as currency occur principally in the Philippine Islands, and on the coast of Congo, but particularly among the Maldive Islands, of which they constitute the principal article of export. They are fished for three days after the high tides, by the women, with baskets, in which they take up a quantity of sand containing cowries. When the sand is washed out, the shells are heaped up on the shores, and the fish soon die; they are then ready for the

market. (Sonnerat, Beckmann.) [CYPRÆIDÆ.]
COXE, WILLIAM, archdeacon of Wilts, was born in London, March, 1747. In 1768 he was a fellow of King's College, Cambridge. In 1771 he was appointed to the curacy of Denham, near Uxbridge, but soon after he went to travel on the continent as tutor to the marquis of Blandford, son of the duke of Marlborough, with whom he remained two years. In 1775 he accompanied in the same capacity lord Herbert, son of the earl of Pembroke, with whom he visited a considerable part of Europe. His 'Sketches of the Natural, Civil, and Political State of Switzerland, in a series of Letters to W. Melmoth,' 8vo. 1779, was translated into French with considerable additions by M. Ramond, a French traveller of taste and infor-mation, who rendered Coxe's work, which was rather dry and prosy, more attractive by adding many entertaining details. Coxe's attention had been chiefly directed to the political institutions of the numerous republics of the old Helvetic Confederation, a subject which had been already in some measure treated by Stanyan half a century before. Ramond travelled as a pedestrian through the most remote Alpine districts: he understood the dialects of the country, and in this respect had a great advantage over Coxe. He added to Coxe's work several entire letters, among others one in which he describes the striking scene, which few travellers have witnessed, of a general landsgemeinde, or assembly of the whole sovereign people of the canton of Glarus. Ramond's book is still one of the most interesting works upon old Switzerland, such as it was before the French invasion and subsequent changes. (Lettres de Mr. W. Coxe sur l'Etat Politique, Civil, et Naturel, de la Suisse, augmentées des Observations faites dans le même Pays par le Traducteur, 2 vols. 8vo., Paris, 1781.) In 1789 Coxe published a second edition, much enlarged, of his own work, under the title of 'Travels in Switzerland,' 3 vols. 8vo. The third volume is entirely engrossed by a description of the Grisons. Meantime in 1784, having visited the northern kingdoms of Europe, he published 'Travels into Poland, Russia, Sweden, and Denmark,' in 5 vols. 8vo., which were translated into French. Soon after the publication of this work he ac-companied Mr. Samuel Whitbread on a tour on the continent, and in 1786 he went there again with the son of Mr. Portman, of Bryanston, Dorset. In 1788 he was presented to the rectory of Bemerton by the earl of Pembroke. In 1794 he again visited the continent with lord Brome, eldest son of the marquis Cornwallis; and on his return was made chaplain of the Tower.

Coxe had collected a considerable store of information during his travels, of which he availed himself in writing several historical works, the most important of which is the 'History of the House of Austria from the foundation of the Monarchy by Rudolf of Habsburg to the death of Leopold II. in 1792,' 3 vols. 4to., London, 1807. It is a work of considerable labour and research, and conscientiously written. The author quotes in his preface and in the body of the work, his authorities both printed and MS;

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he also availed himself of oral information which he collected in his travels. 'I have endeavoured,' he says in his preface, 'to divest myself of party and local preju-'I have endeavoured,' he says in dices; I have weighed every evidence with candour and impartiality, and have given the result of a laborious investigation by presenting a faithful and consistent picture of times, characters, and events, without trespassing on the patience of the reader by disquisitions on the innumerable contradictions and clashing testimonies which impeded my progress at every step.

The author has confined himself to the German branch of the house of Austria, leaving out the Spanish branch from Philip II. The work was translated into German, and seems to have been well received at Vienna. Coxe also wrote—1. 'History of the Kings of Spain of the House of Bourbon, from 1700 to 1788,' 3 vols. 4to., 1813. 2. 'Me-Bourion, from 1700 to 1788, 3 vols. 4to., 1813. 2. Memoirs of John Duke of Marlborough, with his Original Correspondence, 3 vols. 4to., 1817—19; an elaborate and valuable work. 3. Memoirs of Sir Robert Walpole, Earl of Orford, illustrated with Original Correspondence and Authentic Papers, 3 vols. 4to., 1798. 4. Account of the Russian Discoveries between Asia and America; to which are added, the Conquest of Siberia, and the History of the Transactions and Commerce between Russia and China,' in 4to. Gmelin, Pallas, Müller, and others had already treated these subjects, but Coxe has added more complete information which he collected at Petersburg. 5. 'Private and Original Correspondence of Charles Talbot, Duke of Shrewsbury, with King William III., the Leaders of the Whig Party, and Others.' 6. 'An Historical Tour in Mongotthebirg, illustrated with plates from the drawings of whig l'arty, and Others. 6. 'An Historical four in Mon-mouthshire, illustrated with plates from the drawings of Sir R. C. Hoare,' 2 vols. 4to. 7. 'An Account of the Prisons and Hospitals in Russia, Sweden, and Denmark, with Remarks on the Different Modes of Punishment in those Countries,' 8vo. 8. 'Literary Life and Select Works of Benjamin Stillingfleet,' 3 vols. 8vo.; besides several minor Works.

In 1803 he married Eleanora, daughter of Walter Shairp, consul-general of Russia. In 1805 he was appointed arch-deacon of Wilts. After publishing the 'Memoirs of Marl-borough,' in 1819 his sight failed him, and he became gradually blind. He died at Bemerton at an advanced age, in June, 1828. Coxe occupies a respectable place among modern historians: the subjects that he has treated are numerous and important; and he spared no pains to collect the best information, for obtaining which he had facilities of accous to some important private collections. The following work was published after his death: 'Memoirs of the Administration of the Right Honourable Henry Pelham, collected from the Family Papers,' 2 vols. 4to., London,

COYPEL, the name of a family of painters. Noel, the COYPEL, the name of a family of painters. Noe, the first of the family who attained any reputation, was the son of Guyon Coypel, a younger son of a Norman family, and was born in 1628. Guyon practised painting, but apparently with little success. He placed his son at an early age with Vouet, a painter at Orleans, and afterwards under a painter named Quillerier. Noel rose rapidly in reputation, and was received into the Academy at Paris in 1663. He was appointed by the king director of the Academy at Rome, where he resided some time, enjoying the acquaintnure of Bernini, Carlo Maratti, and other eminent painters of the day. Noel Coppel was a diligent student, and the From h Academy in Rome profited greatly by his assiduous made rector and director of the Academy. He died in 1707, with king at his art to the last. Noel was married twice, with left two sons, Antoine and Noel Nicholas, and many daughters. Antoine, his father's pupil, was born in 1661, and accompanied his father to Rome, where he studied the winks of the old masters. He afterwards travelled for improvement into Lombardy. He left Rome at too early an age to profit as he might have done by his studies from the liabans, being then no more than eighteen years of age. He made such progress in his profession, that at the age of twenty he was received into the Academy. In 1707 he was made professor and rector, and in 1714 director. He was married, and at his death in 1722 left one son, Charles, also a painter, and his father's pupil, who successively passed all the ranks to the highest in the Academy. Noel Nicholas, second son and pupil of Nucl. was born in 1692. He received into the Academy in 1720, during his brother's

brother's death, but then rose rapidly in reputation till the time of his own death, in 1673.

Noel Coypel is skilful and spirited in design, and a lively colourist, but somewhat affected. Antoine, the most famous of the family, has much power and variety in his design; but the mannered style of the French school was not corrected by his study of the Italian, since he was too ready to adopt the artificial graces of Bernini, his friend and adviser.

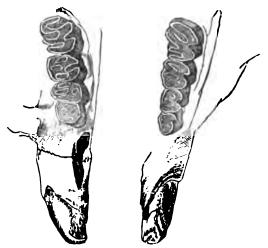
Noel Nicholas, although not free from the factitious elegance of his relatives, possesses a considerable feeling for pastoral enjoyment, which is evinced in some rustic compositions. The principal works of all the Coypels are at

Paris. (Argenville.)
COYPOU, or COYPU, Molina's name for a rodent quadruped, the Quoiya of D'Azara, the Coui, Mus Conpus of Molina and Gmelin, Hydromys Coypus of Geoffroy, My polamus Bonariensis of Commerson. Lesson alters the name to Potamys, but Myopolamus is the term usually cur-Lesson alters the

rent among zoologists.

Generic Character.—Head large; muzzle obtuse; cars small and round. Feet five-toed; thumb of the fore-feet very short, the four fingers free; posterior feet palmated Tail long, conical, strong, scaly, and sprinkled with scat tered hairs.

Dental formula. Incisors,  $\frac{2}{2}$ . Molars,  $\frac{4-4}{4-4}=20$ . The molars gradually increase in size from the first to the last, and approximate to those of the beavers.



[Teeth of Coypu, rather less than natural size, from F. Cuvier.]

Mr. Martin, in the 'Proceedings of the Zoological Society' (1835), has given an interesting account of the anatomy of an individual that lived and died in the gar dens of the Society. The skull, although it agreed in many points with that of Capromys, approximated nearest to that of the Capybara. 'The main outline and contour of both are very similar; they both agree in the flatness of their upper surface, in the elongation of their form, in the magnitude of the suborbital former and in the declaration. tude of the suborbital foramen, and in the development of the processes of the occipital bone, continued from its transverse crest. When, however, we descend to details numerous and striking points of difference are immediate observable. In the Capybara, for instance, the margin the orbit is circular or nearly so, and the zygomatic arch, broad and strong, has its lower edge brought down corsiderably below the level of the molars, though it advances much farther than either in the beaver or water-rat; ::: which animals the orbits, of an oval shape, have a least lateral and more vertical aspect. In the Coypus the term poral fossæ are deeper than in the Capybara or the bourand the external auditory foramen runs obliquely forward and downwards, while in the Capybara it runs oblique downwards and inwards, and in the beaver downwards at .! backwards. The frontal bone is divided by a permanent longitudinal suture, as it is also in Capromys; whereas it the Capybara, the water-rat, and the beaver, no trace, it least in adults, of such a separation is visible. The bour. when semi-adult, exhibits, however, a slight appearance of s second son and pupil of Noel, was born in 1692. He street into the Academy in 1720, during his brother's author, is as follows:—Cervical, 7; dorsal, 13; lumbar, 6 torste. He did not attract much notice until after his

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and the capacity of the chest is small. The dentition, he observes, differs widely from that of Hydromys, with which the animal was associated generically by M. Geoffroy St. Hilaire. Baron Cuvier, he remarks, states that the skull of the Coypus has a resemblance to that of Hystrix dorsata, but he adds that he has not seen the skull of that animal, and therefore cannot judge; though certainly the teeth, as given by M. F. Cuvier, and those of the *Coypus* differ materially. 'The *incisores* are large and strong, and of a deep orange yellow on their outer surface; the alveoli of those of the upper jaw pass through the intermaxillary into the true maxillary bones. In the lower jaw they extend beneath the whole of the molares.' The scapula, it appears, agrees closely with that of Capromys, but differs considerably in shape from that of the beaver. Its anterior edge runs out into an angle, at a greater comparative distance from the spinous ridge than either in the beaver or the porcupine, and the same may be said of the posterior angle; so that the total breadth of this bone is comparatively greater than it is in those two animals. The clavicle is slender. The humerus presented nothing extraordinary. The pelvis was long and narrow. The femur was thin and small, and had both a trochanter major and a trochanter minor.

But the following would seem to be the most remarkable

part of the osseous structure of the Coypou.
'In the motions of the hinder limbs of the Coypus when alive,' says Mr. Martin, 'I observed not only an awkwardness but a want of firmness, which gave something of a crawling character to the progression of the animal on the floor. A recollection of this circumstance, which struck me when I first saw the animal, led me to open the capsule of the hip-joint with care: on doing this, I was surprised to see no ligamentum teres; on opening the other, still none appeared. I am convinced that I did not destroy or rupture the ligament, for no ruptured fibres were at all visible; and on opening the acetabula of other animals at the same time, the ligament was found strong and large; in this, however, nothing of the kind was visible. There is on the head of the femur a very slight depression, but it is covered, as the rest of the head, with smooth cartilage. I believe therefore that the Coypus may be added to the list of the few Mammalia in which this ligament is absent; but it would be desirable that another specimen should be examined before this peculiarity is insisted on as an ascertained fact.'
Mr. Martin was unable to examine all the bones of the

extremities, which he regrets, as Cuvier notices a peculiarity in those of the carpus; viz., in there being no separation

between the os magnum and trapezoides.

Of the viscera, the spleen presented the same figure as in the Ondatra, the Capromys, and some other rodents. The stomach closely resembled that of Capromys. The duodenum commenced with a large sacculus projecting towards the asophagus like a cocum, in which respect it resembles cwlogenus as described by Sir E. Home. A similar dilatation, Mr. Martin remarks, has been noticed in Capromys, Ancema, and Dasyprocta, but not so considerable. There were several other resemblances to Capromys, in the intestines, in some of the abdominal muscles, and in the urethra; but we must refer the reader for the details to the paper itself, which is of considerable length, and well worth pe-

Description.-Less than the beaver, which however it resembles in many points. Head large and depressed; ears small and rounded; muzzle sharper than that of the beaver, with very long and stiff whiskers. Neck stout and short. Limbs short; fore-feet not webbed, fingers on each five, the thumb very small; hind-feet with the same number of toes, the great-toe and three next joined by a web which extends to their ends, little-toe free, edged with a membrane on the inner side; nails compressed, long, crooked, and sharp. Tail round and thinly hairy, the hairs permitting the scaly texture of the skin to be seen. Back brownishred, becoming redder on the flanks. Belly of a dirty red.

Edges of the lips and extremity of the muzzle whitish.
Geographical Distribution.—South America. Very common in Chile, Buenos Ayres, and Tucuman: more rare in

Habits, much resembling those of the generality of aquatic rodents. It swims with great case, affects the neigh-bourhood of water, and burrows in the ground. Its principal food in a state of nature is vegetable. The female brings forth from five to seven, and the young always accompany her till they are well grown.

The French authors say that the coypou is easily domesticated, and that its manners in captivity are very mild. The individual kept in the garden of the Zoological Society in the Regent's Park did not show much sociability of dis position, but it was confined in a cage of no large dimen sions, and there was not much opportunity for making it



[Myopotamus Coypus.]

Utility to man.—The coypou, like the beaver, has two kinds of fur. The long ruddy hair gives the tone of colour, and the brownish ash-coloured fur at its base is, like the down or wool of the beaver, the cause of the animal's commercial value, and used largely in the manufacture of hats. In France the skins were, and perhaps still are, sold under the name of Racoonda. M. Geoffroy mentions that, in cer-tain years, a single French furrier, M. Bechem, has received from 15,000 to 20,000 skins. They are imported into Great Britain to a large amount—from 600,000 to 800,000 have been stated as the importation of one year, principally from the Rio de la Plata—under the name of Neutria or Nutria skins, an appellation probably derived from some supposed similarity in the appearance and habits of the animal which roduces it to the otter, the Spanish name of which is

CRAB (Zoology), Cancer, Leach; Platycarcinus, Latreille, Edwards. Dr. Leach restricted the genus Cancer to the form of Cancer pagurus, Linn., the large eatable crab of our coasts, which was, when he defined the genus,

the only species known.

Generic character. External antennæ with the basilar joint broad, very long and thick, filling the hiatus between the inner canthus of the orbit and the front, and terminating forwards in a strong, angular, tooth-like projection, directed forwards and a little inwards, reaching beyond the frontal line. The terminal or moveable portion is slender, very short, and arises from the internal part of the basilar joint, nearer to the cell of the internal antennæ than to the orbit. The internal antennæ, instead of lying obliquely outwards or transversely, as in most other genera of this section, are directed forwards; a character by which Cancer may at once be distinguished from Platypodia, Carpilius, Xantho, &c. The second joint of the inner footstalk of the external pedipalps is excavated at the anterior part of the inner margin; in some species the notch is confined to the angle, in others it extends half way down the side of the joint. The first pair of feet is nearly equal; in some specimens of each species, the difference in size being scarcely appreciable. They are, generally, very robust. The remaining feet have no spines, but are in most species more or less hairy. The abdomen of the male has five, that of the female seven joints. (T. Bell.)

Geographical Distribution. With the exception of our indigenous species, Cancer pagurus, they are all, as far as their localities are known, exclusively natives of the coasts of the hotter parts of America. (T. Bell.)

Mr. Bell in his interesting paper on the genus Cancer, (Zool. Trans. i. 335.) gives three new species, viz. Cancer longipes, Cancer Edwardsii and Cancer dentatus brought home by Mr. Cuming and Mr. Miller, besides Cancer irroratus of Say, and Cuncer pagurus, which last, as it was considered the type by Dr. Leach, we select as an example.

Carapace transversely oblong, flattened, but little higher in the middle than at the sides, somewhat rounded before and behind; the surface minutely granulated, smooth, with the regions but slightly marked. Latero-anterior margin slightly recurved, divided into ten quadrate lobes, the sides of which are contiguous, and the margins entire; the last lobe inconspicuous, and passing into the posterior marginal line, which terminates immediately anterior to the posterior transverse ridge. Front trifid, the teeth of nearly equal length and size. Orbits round, with a strong triangular tooth over the inner canthus, which does not project so far as the front; and a smaller one filling the space between the two superior fissures. External antennæ with the basilar joint much elongated, and terminating forwards in an obtuse tooth; the first joint of the moveable portion club-shaped, the second cylindrical, the remaining portion setaceous. Internal antennæ directed forwards, the anterior half doubled directly backwards in a state of rest. The basilar joint broad, cup-shaped, its outer edge projecting forwards; the second joint (the first of the moveable portion) cylindrical, the penultimate with a small, hooked, and recurved process at the ape.r. Pedipalps as in the rest of the genus. Sternum minutely punctated, and furnished with small patches or lines of short scanty hair. Abdomen in the male with the margin fringed with short hair; the last joint forming an equilateral triangle. Anterior feet, large, robust, smooth, without spines or tubercles, minutely granulated, the hand rounded, without crest, the inner surface exhibiting only the rudiments of the five lines of puncta, so conspicuous in other species of the genus. The remaining feet furnished with numerous fasciculi of stiff hairs, the last joint in all furrowed, and terminated by a short strong nail. Colour above, reddish brown, the legs more red, the claws deep shining black; beneath whitish. Locality. Coasts of Great Britain, &c. and of western Europe. (T. Bell.)

Pennant states that this species inhabits rocky coasts,

Pennant states that this species inhabits rocky coasts, and is the most delicious meat of any, and that it casts its shell between Christmas and Easter. 'There are some species,' says Mr. H. Milne Edwards, in his article Crusturea (Cyclopædia of Anatomy and Physiology) 'such as the crabs and the Brachyura generally, in which the carapace presents a considerable expansion on either side, forming two large compartments, in which the greater mass of the thoracic viscera is contained. Under these circumstances, it would be impossible for the animal to escape from its dorsal covering by the relatively inconsiderable opening which this part presents on its inferior aspect. This renders it necessary that the carapace, instead of being cast off by simply rising in a single piece, should give way and separate in some direction or another, and this it does by splitting along the curved lines, extending on either side from the mouth to the origin of the abdomen, in the course of which the epimeral pieces cohere with the dorsal one.' (Collinson, Phil. Trans. 1746 and 1751; Hist. Nat. des Crustacés, t. l. p. 56.) Mr. Lyell says (Principles of Geology, vol. 3.) 'A large female crab (Cancer Pagurus) covered with oysters, and bearing also Anomia Ephippium and Actimae, was taken in April 1832, off the English con t. The oysters include individuals of six years' growth, and the two largest are four inches long and three inches and a half broad. Both the crab and the oysters were seen alive by Mr. Robert Brown. This specimen is in the coltection of my friend Mr. Broderip, who observes that this cold, which was apparently in perfect health, could not have each ther shell for six years, whereas some naturalists have extend that the species moults annually, without him or the moulting period to the early stages of growth of he annually.

The term Crab is in common parlance applied to the press bulk of the Brachyurous crustaceans. The different process will be found under their appropriate titles, Co-ter, G. Hersmit Chan, Greakersty (Land-crab), &c. &c. for example.

for the blood potted crab of the Asiatic seas, Cancer nary abilities, and brooded with deep mortification on his an alata. I, no the nortification on his failure. After a short struggle with himself, he resolved to a pure of a single tooth on the barder of the carable and by the time of a single tooth on the barder of the carable and by the time at all tront; and, for the elevendard trans, Cancer underindentatus, I abr, the carapace

of which is smooth, with eleven crenelated teeth on each antero-lateral border, and black toothed fin ers, special shaped at the end, he founded the genus Clorodius or (i.i. rodius. Mr. Milne Edwards enumerates four spece of Carpilius and seven of Chlorodius. He considers the fire in Crabe aux grosses pinces, Cancer macrochelus, Desm. (Hist. Nat. des Crustacés Fossiles, p. 91. pl. vii. fig. 1—2). Cancer Lapidescens, Rumph. (Amb. Rariteit Kamer, pl. 60. f. 3.) as referable to the genus Carpilius rather than to the division of crabs properly so called. It should be remembered that Mr. Milne Edwards's genus Cancer (crabe) differs from that of Dr. Leach. The former includes under that name such forms as Cancer roseus (Carpilius roseus of Rüppell) Cancer lobatus, Cancer esculptus, Cancer limbatus (Xantho granulosus, Rüp.) Cancer Savignii and Cancer Acanthus, excluding Dr. Leach's Cancer, the type of which is the eatable crab of our coasts, to which form Mr. Milne Edwards gives the name Platycarcinus. For the reasons assigned by Mr. T. Bell, we retain Dr. Leach's arrangement. It does not appear that any species of Cancer, Leach, Platycarcinus, Milne Edwards, has been found in a fossil state.

CRABBE, GEORGE, was born at Aldborough, in Suffolk, on the 24th of December, 1754. His parents were in an humble condition of life, the father being a warehousekeeper, and collector of the salt-duties, or saltmaster, at Aidborough. The future poet showed, at a very early agr. a taste for reading, and a delight in aught that bore the shape of poetry; and his father was thus led to give him an education better than he could well afford. It was determined that he should follow the profession of a surgeon; and having made some progress in mathematics at school, and also, as his son expresses it, 'laid the foundations of a fair classical education,' he was in his fourteenth year apprenticed to a surgeon at Wickham Brook near Bury St. Edmunds. He stayed with this surgeon three years, and, not having been well treated, was, in 1771, transferred to another at Woodbridge in Suffolk, with whom he finished his apprenticeship. His father had been in the habit of taking in a periodical. called Martin's Philosophical Magazine, the last sheet of which was always devoted to 'occasional poetry;' and when, at the end of the year, he sent the magazines to be bound, these sheets of poetry were contumeliously cut out, and became the property of George. He read them over and over again, and when yet very young tried to write pieces of poetry himself. Neither school nor surgery deprived him of the taste formed thus early. While at Wickham Brook he filled a drawer with verses, and at Woodbridge, having written a poem on Hope for a prize offered in Wheble's Lady's Magazine, and having been successful, he was induced to go on contributing to the publication in which he had gained his first laurels, and before his return home published in a separate form, but anonymously, a poem entitled 'Inebriety.'

He returned home at the close of 1775, and had now for a time to submit to the drudgery of the warehouse, until h. father could afford to send him to London in order to complete his medical education. When at last he went, it was with means too scanty to allow of his gaining any real advantage; and he returned before a year had expired, but not till his resources, though carefully husbanded, had been exhausted. Shortly after, he was encouraged by his friends to set up as a surgeon and apothecary. He had never, it appears, liked his profession, though, impelled by a sense of duty, he had made more than one effort to apply himself to it with diligence. His preparation for the duties which he was now liable to be called upon to perform had been inadequate; and added therefore to dislike of these duties was uneasiness under the responsibility which attached to him. He was in love, and the object of his attachment was (we quote his son's words) 'too prudent to marry, where there seemed to be no chance of a competent livelihood; and he, instead of being in a position to maintain a family, could hardly, by labour which he ab-horred, earn daily bread for himself. He was proud too: and, though conscious that he had not deserved success in his profession, he was also conscious of lossessing no ordinary abilities, and brooded with deep mortification on h.failure.' After a short struggle with himself, he resolved to abandon his profession, and proceed to London as a literary adventurer. Being without money, he wrote to Mr. Dudley North, whose brother, Mr. Charles Long, had

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large and rare birds are not upon our table. Confining ourselves to the genus *Penelope*, we may remark that the toes, considered by themselves, might be taken for those of a cuckow, if the outer one was only versatile; it is evident also, from the structure of the claws, that these birds are much more arboreal than their congeners, for their claws are more curved; and from their lateral and not horizontal compression, as well from their acuteness, we conclude that they are very little, if at all, employed in scratching the ground, their structure being similar to those of perchers, and adapted only for clinging. The foot, in fact, of the *Penelope*, is not a rasorial but an insessorial foot, for it does not possess any one of the rasorial characters. Even the hind toe, which, in all other rasorial birds, is raised above the heel, is hero placed upon the same level as the anterior toes. That no ambiguity should rest on this fact, we beg to call the ornithologist's attention to the particular species now before us, the P. Aracuan of Spix, one of the most common of the same genus. How this remarkable forma-tion in the foot of the typical Cracidæ should hitherto have been completely overlooked, even by those who have speculated so much on the mode by which the Rasores and Insessores are united, is somewhat extraordinary\*; we can only account for it by the custom of examining specimens set up in cases, or on branches, instead of preserving them in skins, in which state they can be handled in all directions. But however this may be, the fact itself decides the long-contested question as to which family of the Rasores makes the nearest approach or rather forms the passage to the *Insessores*; while, if this question be reversed, and it is asked which of the Insessores makes the nearest approach to the Rasores, we need only direct our search among some of the long-legged Brazilian cuckoos, or at once point to the singular genus Opisthocomus.'

# Genera, Ourax. (Pauxi, Temm.)

Generic character. — Bill short, strong, compressed, vaulted, convex, dilated at the base of the upper mandible into a horny, oval, hard, and elevated substance. Nostrils basal, pierced near the front, hidden, open beneath; head covered with short and close-set feathers. Feet (tarsi) long and smooth.

Example.—Ourax Pauxi, Cuv. The Galeated Curassow.



[Ourag Pauxi.]

Size about that of a small hen turkey. Head and neck covered with short velvety feathers of a rich black. All the rest of the plumage, with the exception of the white abdomen and under tail-coverts, brilliant black, exhibiting in certain positions a slight tinge of green. Tail-feathers tipped with white. Legs red, claws yellow. Iris brown. Bill bright red: the protuberance with which it is surmounted (which is rounded in the young birds, and pearshaped with the narrow end directed forwards in the adult males) of a livid slate colour; it is more than two inches in length when fully developed, hard and bony externally, and internally cellular, the cells communicating with the cavity of the mouth. This protuberance is not visible till after

But see aute p. 128, 2nd column.

the first moulting, when it first appears in the form of a small tubercle, and becomes much larger in the male than in the female. In other respects there is little difference between the sexes, and the young are only distinguished by a browner tinge. The windpipe descends for a considerable distance in front of the sternum, immediately beneath the skin, and makes no less than three distinct convolutions before passing into the cavity of the chest. (E. T. Bennett.)

before passing into the cavity of the clest. (E. T. Bennett.)

Locality.—Mexico, where the species lives in large companies perching upon the trees. Nest generally made on the ground. The young are led about by the female in the same manner as the hen pheasant or the common hen lead theirs. The first food of the chicks consists of worms and insects, but as they advance, fruits and seeds are added. Hernandez gives a very good description of the bird in his Historia Avium Novæ Hispaniæ, cap. cexxii. The Galeated Curassow is easily domesticated and is enumerated by M. Temminck among the birds which bred abundantly in the menagerie of M. Ameshoff before the French Revolution.

In April, 1831, Mr. Yarrell pointed out at a meeting of the Zoological Society the peculiarities of the very elongated trachea of another species, Ourax Mitu, Cuv. This organ is produced between the skin and the muscles beyond the sternum, and reaches almost to the vent. It has been figured by Dr. Latham, M. Temminck, and others. The sterno-tracheal muscles extend along the whole of the tube, a disposition which, Mr. Yarrell remarked, prevails with one or two exceptions in all birds in which the fold of the trachea is not included in the bone. (Zool. Proc. 1830-31, part 1.) Mr. Bennett (Gardens and Menagerie of the Zoological Society) observes that the nostrils in Ourax Pauxi are seated behind the protuberance, and are perpendicular in their direction: the membranous cere which surrounds them, he adds, is covered with short velvety feathers.

### Crax.

Bill moderate, long, compressed, higher than it is broad at the base, thick, carinated above, curved towards the end, surrounded at the base with a membrane; lore naked; nostrils lateral, longitudinal, pierced in the cere, and partially covered. Head crested with curled feathers. Tail spread out, inclined; tail-feathers, fourteen. Sixth quill the longest. Hallux reaching the ground with the first phalanx.

Example.—Crax Alector, Linn. Crested Curassow.



[Crax Alector.]

Description.—The plumage of the Crested Curassow is of a deep black, with a slight gloss of green upon the head, crest, neck, back, wings, and upper part of the tail; it is of a dull white beneath and on the lower tail-coverts. Its crest is from two to three inches in length, and occupies the whole upper surface of the head: it is curled and velvety in its appearance, and capable of being raised or depressed at will. The eyes are surrounded by a naked skin, which extends into the cere, and there assumes a bright yellow colour. Size about that of Ourax Puuxi. (E.T. Bennett.)

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large bands, but generally pair together with the strictest constancy. The females lay from two to five eggs. Their flight, like that of most gallinaceous birds, in consequence of the shortness of their wings, is low and heavy; and in the performance of this action they derive much assistance from their tail, the feathers of which may be expanded in the shape of a fan. All the birds of this genus appear to be known in Brazil by the name of Jacu, pronounced Yacou, derived, according to Marcgrave, from their note. This, as might be expected from the conformation of their traches, is extremely loud, insomuch that when a considerable is extremely loud, insomuch that when a considerable number are collected near the same spot, the very woods, to use the expression of the scientific traveller just quoted, re-echo with their clamorous cries. The same author observes that M. Spix added very considerably to the difficulties that previously existed in distinguishing the species of this interesting group, by the publication, in his 'Brazilian Birds,' of a series of figures representing apparently very slight medifications of the common furnity and the series of the common furnity and the series of the series of the common furnity and the series of very slight medifications of the common form, but to each of which he has prefixed a peculiar specific name. Mr. Bennett expresses his belief that most of these will be found on further examination to be referable to the present species, which, from its long domestication in the poultry-yards of South America, must necessarily be subject to very extensive variations. (Gardens and Menagerie of the Zool. Soc., vol. ii.)



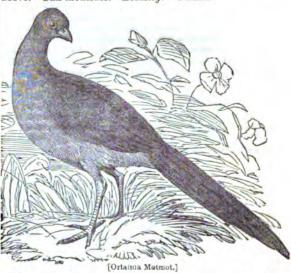
[Penelope cristata.]

M. Lesson, on the authority of M. Goudot, mentions a species, *Penelope Aburri*, Goud., two feet three inches (French) long, the tail being ten inches. M. Goudot states that this species seems peculiar to the mountains of New Grenada, inhabiting temperate and cold districts; it is, he says, unknown in the great warm valleys and by the rivers. In the environs of the city of Muzo, celebrated for its mine of emeralds, this bird, he states, is known under the name of Pavo-ò-guali. The inhabitants of the neighbourhood of Bogota and of the valley of Cauca designate it by the term Pava Burri, or Aburri Aburrida, which when slowly pronounced well expresses its cry. The male does not differ Two Burn, or Aburn Aburnia, which when slowly pronounced well expresses its cry. The male does not differ from the female; and those which M. Goudot opened had two coccums analogous to Penelope Parakona and Parita (surrereiliaris?). The trachea descended without any fold to the lungs. There was no gravel in the gizzard, the walls of which were thin, and nearly entirely covered by the proper muscles. M. Goudot states that the species lives which we are the super high trees, this but little and suffers olitary, perches upon high trees, flies but little, and suffers the hunter to approach easily within shot. It is never seen on the ground. The berries of trees compose its food. Its nest is formed in a mass of dry leaves, disposed between the forks of trees. The eggs are three in number, white, and one inch eight lines in diameter. These birds, adds M. Goudot, are very common in the mountains of Quindiu, be-tween Ilague and Carthagena. Their notes are the last that are heard on the approach of night, and the first that an-nounce the dawn of day.

Ortalida.

Characters the same as those of Penelope, excepting that the head is completely feathered, and that there is no nakedness about the throat or round the eyes.

Example.-Ortalida Motmot, Phasianus Motmot, Gmel. Phasianus Parraqua, Lath. Colour red brown, bronzed above. Tail moderate. Locality.—Guiana



M. Goudot describes a new species from Santa-Fé de Bo-gota, which M. Lesson names Ortalida Goudotii. The bird, it appears, is found in the same places with the Penelope Aburri. Total length 23 inches, of which the tail is 9. Feet red; tarsus 2 inches 5 lines; middle toe 2 inches 4 lines, the claw being 5 lines and a half (French). The bill is blackish, brown at its point; the upper mandible 1 inch 5 lines; cere and naked membrane round the eyes blue. All The bill is the upper plumage brown, with deep green reflections, or rather of a very deep greenish. Feathers of the throat grey. Bottom of the neck, belly, and abdomen, as well as the thighs, covered with ruddy. No crest nor nakedness about the throat. No fold of the trachea in either sex. Locality.—The mountains of Quindiu.

M. Lesson observes that this bird approaches nearly to the last, but is clearly distinguishable from it, especially by the trachea, which does not descend upon the abdomen

Opisthocomus, Hoffm. (Hoazin, Buff.; Orthocorys, Vieill.)

Bill thick, robust, short, convex, bent at the point, which is suddenly compressed, furnished with diverging bristles at the base, which is dilated laterally; lower mandible strong, terminated in an angle; edges dentelated towards the origin. Nostrils mesial on the surface of the bill, pierced (de part en part), covered above by a membrane. Feet robust and muscular; tarsus shorter than the middle too. the lateral toes long several entirely divided sole toe, the lateral toes long, equal, entirely divided; sole broad; toes bordered with rudiments of membranes. Wings moderate, the first quill very short, the four following graduated, and the sixth the longest. Tail-feathers ten. Example.—Opisthocomus cristatus.



CRA 132

This species, which appears to be the only one belonging to the genus, is the Hoatzin and Hoactzin of Hernandez; who describes it (p. 320) as an inhabitant of warm districts where it was seen sitting on trees by the sides of rivers, and as having received its name from a supposed similarity of the shrieking cry of the bird to the intonation of the word Heatzin. Hernandez relates some strange stories of cures effected by its bones and by a suffitus of its feathers; but says that the bird is deemed inauspicious by the natives. states that it is known in Guiana by the name of Sasa.

The Hoazins are said to live in pairs or in small troops, consisting of from six to eight individuals, in the flooded savannahs, which they prefer, and where they seek for their food the leaves of the arum arborescens. Their flesh is not considered good, having a strong smell of castoreum about These birds are by no means timorous: in stature and guit they resemble the peacock.

# Megapodius.

Bill slender, straight, as wide as it is high, and flattened above at the base; upper mandible longer than the lower, alightly curved at its extremity; lower mandible straight, the point hidden by the edges of the upper mandible. Nostrils subuval, open, placed nearer to the point than to the base of the bill, nasal fosse long, covered by a membrane furnished with small feathers. Spee round the eye naked head and with small feathers. Space round the eye naked, head and neck well feathered. Feet large and strong, placed far backwards; tarsus large and long, and covered with large scales, compressed posteriorly; four very elongated toes, the three anterior ones nearly equal, united at their bases by a small membrane, which is more apparent between the unner and middle toe than between it and the outer one; posterior toe horizontal, touching the ground throughout its length; claws very long, very strong, flattened above, very little curved, triangular, obtuse at the point, nearly like those of *Menura*. Wings moderate, concave, rounded; third and fourth quills the longest. Tail small, wedge-shaped, scarcely exceeding the wings in length, and formed

shaped, scarcely exceeding the wings in length, and formed of twelve feathers. (Quoy and Gaimard, with slight alteration.) Example.—Megapodius Duperreysi.

Description.—In size hardly so large as a partridge. Tarsi less elevated than they are in Megapodius Freycinetii and M. rubripes. The bird is, moreover, altogether better proportioned. Total length, from the extremity of the bill to that of the wings, which are longer than the tail, rather less than a foot (French). Tarsi strong covered. rather less than a foot (French). Tarsi strong, covered with scales, and 20 lines in length; middle toe, including the claw, 17 lines, hind toe 14, posterior claw 7. Bill slightly swollen towards its extremity, yellow, 8 lines in length. Nostrils suboval, covered with a membrane clothed with very small rudimentary feathers. Space round the eyes naked, but less than in the other two species. Neck well clothed with feathers. Iris reddish. A very thick crest covers the head; the feathers which compose it are raised (se redressent) towards the occiput. The wings are concave, an inch longer than the tail, and terminated in a point: the fifth quill the longest. Tail suboval, pointed, very short, composed of ten small feathers. Legs greyish, and feathered down to the tarsi; the claws slightly curved, pointed at the end, flat below, and of a brown colour. (Les-

'The tuft,' says M. Lesson, 'of our Megarodius Duperreyn is of a brown yellow; the neck, the throat, the belly, and the lateral parts, are of a grey slate colour. The feathere of the back and the wing-coverts are large, and of a randy yellowish brown. Rump, upper part of the tail, and sent-feathers or breous red. Quills yellow without, brown within, the shafts being ruddy brown.

The models to is united to the inner one by a mem-

warting between the middle toe

at a tracexternal one. 'In every seeing our Megapestius with the Menura of New H. A.A. we called fail to perceive that it connects the lastter, tat its yeraye. In fact, if we examine the position of in werea, the general form of the bill and legs, and I a mention round the eyes—the membrane which unites the two extents time, but which is wanting between the man to and the inner one can arrangement which is re-\*\*\*\*\* of the fam of the class, the greater length of the be seen the concavity and the smallness of the wings to the state of the time, contende to confirm this pas-

sage, if we except the extraordinary grandeur and luxuriant form of the tail of *Menura*, a form without analogy am 112 the other birds. *Megapodius* would thus belong to a smoot natural group, the *Lyriferi* of Vieillot (27th family): the name of which, in consequence of its having become proper, would have to be changed.'

Locality .- Megapodius Duperreyii, the Mangoipe of the Papuans, inhabits the umbrageous forests of New Guinea, in the neighbourhood of the harbour of Dorfry The bird is timid, runs very fast among the bushes, like a partridge in standing corn, and utters a feeble click (un petit gloussement). (Losson.)



[Megapodius Duperreyii.]

M. Lesson states that he only observed Megapodius Frey-cinetii in the Island of Waigiou, and that the attempt to preserve it alive in cages was vain, for the birds soon died. Their flesh, he says, is black, very hard, and not very agreeable as food, although possessing a fumet which the cooking developes. The Papuans brought them on board the oquille daily, and called them (those of the harbour of Offack at least) Manesaqué.

Both Pigafetta and Gemelli Carreri speak of the Taxon (Megapodius), and it would seem that this, the Megapordius of the Philippines, leaves its eggs to the fostering heat of the sun. The habits of the Megapodii of New Guinea and the neighbouring islands are, according to M. Lesson, entirely unknown.

# Alecthelia.

The characters of the genus Megapodius, observes M. Lesson, established by MM. Quoy and Gaimard in the Zoology of the voyage round the world performed by the Uram. are in great measure applicable to the subgenus Alecthe in. formed by M. Lesson for the position of a bird which different from the true Megapodii or Turons, by many distinction characters.

Bill short, compressed, pointed: the upper mandible prolonged, the lower mandible a little swollen and very short. Nostrils at the base of the bill separated by a straight ridge. Head and forehead abundantly covered with feathers down to the nostrils. Space round the eyes furnished with shor: and close-set feathers. Inner toe rather the shortest, membrane which unites the middle toe to the inner one almost absent. No tail. All the feathers of the body, except there of the wings, composed of loose barbs, very finely ciliated on each of the shafts.

Example.—Alecthelia Urvillii, Losson, the only species known.

Description.—Total length from the extremity of the bill to that of the wings, 5 inches 4 lines. Tarsi 14 lines; middle toe 10, hind toe 8, claws 5, bill 6 (French). The bird is covered with loose and scanty feathers, but has upon the occiput a thick bunch of feathers. The general tint as brown, fuliginous, deepest above. Belly and throat brown, slightly tinged with ruddy colour; throat ash-coloured Wings concave, rounded, the feathers entirely brown, the second, third and fourth being equal; the upper part is brown sprinkled with zigzag or irregular lines, not well defined, of ruddy yellow. Place of the tail-feathers supplied by very loose plumes, composed of very fine barbs, bristled with very slender approximated barbules, presenting much analogy with those of the Cassowary (No. 6, pl. 67, Atlas de Peron), and which implanted in the rump in the same man-Peron), and which, implanted in the rump in the same manner, form a feathery tust as in the Cassowary; all the feathers of this bird, except those of the wings, are composed of multiple stems, very slender and soft, furnished with equal and very fine barbules which may be called multirachid. The bill is greyish, and so are the feet. The inner toe is a little more united to the middle one than to the external one. The claws are slightly curved, sharp, convex above, concave below, and of a brown colour. The iris is and the contract of t is reddish.

Locality.—This species, which comes from the Isle of Guebé, placed immediately under the equator, is, no doubt, proper to the neighbouring lands such as the great and beautiful Isle of Halamiva or Golilo, so little known and so little studied by naturalists. (Lesson.)



[Alecthelia Urvillai.]

CRACOW, a republic in the north-eastern part of central Europe, formerly part of the woywodship or palatinate of the same name in the kingdom of Poland. It lies between Austrian Galicia, Prussian Silesia, and the south-western part of Russian Poland. With regard to size, it is the fortieth, to population the thirty-seventh, and according to density of population the seventh, in the series of Euro-pean states. It is the only vestige that remains of Polish independence. independence.

Cracow lies on the northern bank of the Vistula, and contains an area of about 490 square miles. The surface consists of an undulating plain, broken by low hills and woods, and extends to the banks of the Vistula, which forms its southern boundary towards Galicia. The Vistula, which is the chief river of Cracow, receives with the content of the cont within the confines of the Republic, the waters of the small rivers Cznerna, Przemza, Radewa, Monuszka, Chobka and Wolika, and becomes navigable under the walls of Cracow. There are neither canals nor lakes in the country; at Krzessowice there are warm sulphurous springs. The climate is moderate, though not genial enough to ripen the grape; it is however salubrious and agreeable, and milder than in the other parts of Poland. The soil is rich, but as agriculture has made little progress, it produces scarcely more grain than is sufficient for the consumption of the inhabitants. Cracow is considered the most cultivated portion of Poland. The vegetables and fruits are excellent. Its chief productions are corn, pulse, flax, wood, oxen, sheep, swine, game, fish, wax, and honey; also coals, iron, marble, freestone, clay, &c. but the quantity of wood is inconsiderable, and the iron found is not sufficient to supply even the single works at Krzessowice.

Cracow contains only two or three manufacturing establishments, the chief of which are the ironworks of Krzessowice. The peasantry spin and weave their own cloth, and there is little trade except in the capital. The republic is divided into

land and town districts; the first must have a population of more than 2000; the latter of more than 2500; each district has its starost; and three districts form a circle with a justice at its head. The population are chiefly of Polish extraction, there being only from 400 to 500 Germans, and between 10,000 and 11,000 Jews; it amounted in 1803 to 93,100; in 1819 to 95,822; in 1826 to 118,000; and in 1832 to 123,157. It has a militia of 300 men, and a gendarmerie of 40; but no regular troops. Although the established religion is the Roman Catholic, all Christian denominations enjoy liberty of conscience and worship; the number of Protestants is about 1700.

The yearly income and expenditure as fixed by the Chamber of Representatives for the period 1833—1837 is 1,775,766 Polish florins, or about 44,500*l*. sterling. Cracow contains 2 towns, 2 market-towns, 71 villages and hamlets, 16 monasteries, with 87 monks and 69 lay brothers; 10 numeries with 164 monst 100 churches. The bishop of Cracow has a cheat not 15 concerns. Cracow has a chapter of 16 canons.

In the partition of Poland in 1795, Cracow fell to the share of Austria, and in 1809 was erected, with the whole of western Galicia, into the grand duchy of Warsaw. Its existence as a republic, dates from the Congress of Vienna in 1815, when the three great powers, Austria, Russia, and Prussia, not being able to agree to which of them it should be assigned, determined to form it into an independent republic under their joint protection, guaranteeing to it the perpetual neutrality and inviolability of its territory, except in the case of its affording an asylum to deserters, or offend-

crs against any of the three protecting powers.

By the constitution of the Republic of Cracow, there is no distinction of ranks; all are equal in the eye of the law. The legislative authority is vested in a body of representatives elected by each district, three members of the sonate (one of whom is president of the assembly), three canons of the chapter of the cathedral, three doctors of the university of Cracow, and six judges of the tribunals. This body annually holds a session in December, which continues about a month; makes laws, votes the budget, inspects the administration, nominates two-thirds of the senators as well as the judges, &c. The executive power is lodged in a senate of twelve members and a president, who, with eight of the senators, is nominated by the legislative assembly; two are chosen by the chapter and two by the university. Of the senators, eight are chosen for life, the university. Of the senators, eight are chosen for life, and four are elected annually; the president is chosen for three years. The senate draw up laws previously to their being laid before the legislature; and appoint to such civil and ecclesiastical offices as are not dependent on the chamber of deputies.

CRACOW (in Polish, Krakoo), the capital of the republic of the same name, is situated at the foot of Mount Krakus or Wavel (699 feet above the level of the sea), in the delightful and extensive valley of the Vistula, and on the left bank of the river, at its confluence with the Radeva, in 50° 4′ N. lat., 15° 15′ E. long. It is enclosed by three hills; the St. Bronislava, on which a monument, 120 feet high, has been erected, in memory of Kosciusko; the Krakus or Wavel, and the Wanda. It is united to the Austrian town of Podgorze by a bridge of rafts 145 feet

Cracow is surrounded with promenades, which have replaced the old ramparts, walls, and towers. It consists of three distinct quarters, Cracow, Stradom, and Kazimierz, which last lies on an island in the Vistula, and is joined to the town by a bridge. It is the residence of the Jews, who have here a synagogue. The suburbs are likewise of some extent.

This antient capital of Poland, where its kings were crowned and buried, received its name from Krakus, duke of the Poles and Bohemians, or White Chrobatia, who is said to have founded Cracow about A.D. 700. wrested from the Moravians by Ziemowit, the Bohemian, and was taken from the Bohemians in 999 by Boleslaus the Great, who raised it to the rank of the capital of Poland. Its antient limits were far more extensive, and its population treble the present amount. It had a flourishing commerce, and its numerous lofty towers and buildings still give to it, in the distance, the appearance of a large and handsome city; but this impression is destroyed on entering its dark, narrow, and descrted precincts. The town is however clean, and has a very spacious public square, surrounded with low miserable shops.

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It harmened however, that on the night previous to the fay on values and wintering was to be put in execution, the pose den, and the populace rejoicing to be free from his year town in a timulticus manner, and broke open the present. On grame firth from his cell, and fled to Vienna, whence, after remaining there a short time, he was disn wed by the emperor with letters of safe conduct, under the properties of which he passed through Germany into England, and theore to Southand, where he arrived soon were the stablishment of the Reformation. He proached for a short time in Latin to the learned in St. Magdalen's maged, when, having recovered his native language, he was appreciated manager of Holyrood-house, and became a remercial era furtire of Knex, the great Scottish reformer, in the work of reformation. He was afterwards appointed minister of Montroes, and in 1574 minister of Aberdeen, in which impactly he was chosen Moderator of the General Assumity if the church of Soutland, which met in October, 1176. The bullwing year he was removed to Edinburgh; and in 1579 was associated with the learned John Dunmas a is minister to the royal household.

Crag frew up the National Covenant in the year 1550; he was also the author of two theological works; the one in inswer to an attack on the Confession of Faith, the states a firm of examination entitled Craig's Catechism,

which was appeared by the General Assembly to be used in senicis and finnings in place of 'The Little Catechism'. He died at Einsburgh, on the 18th December, 1600, at the advanced are of 5°; but for some years before had performed are of 5°; but for some years before had performed are of 5°; but for some years before had performed are of 5°; but for some years before had performed are of 5°; but for some years before had performed are of 5°; but for some years before had been supported by the latter of the performed position of him mentions to the latter of the latter of the performance of the p

Table 1 retarnical notice of him prefixed to the last s.n. of Mr. R. vers Crang. merchant in Edinburgh, a de-scendar? The Crangs of Craigston, in Buchan; thoula, as we shall afterwards find, this statement has been disrured. But le says that Craig was born about the year So Le maries a callege which had been erected about for the maries a callege which had been erected about for the maries a callege which had been erected about for the maries before the training up poor scholars in learning and the lark to the glory of God, and the spiritual edification of the results. He remained here only till he proceeded his beautiful at the when he went to France to prosecute his and there; and his distinguished relative, the Rev Dr. John Crim, was then minister of Holyrood-house. This return to his his distinguished relative, the Rev Dr. John Crim, was then minister of Holyrood-house. This returned his ne had himself arrived in Scotland only a twelvemore before. Under the care of this eminent person the miner servers of young Graig were changed, and, devotag med entirely to study, he left nearly all his youthful the passed advocate in the Court of Session at Edin-

The first can the 2nd February, 1563; and in July that year the first him in the judicial situation of justice depute to Archibald, tith earl of Argyll, hereditary lord justiciar of Sectland (Abstract Books of Adjournal, MS. Adv. Libr.), an ardent friend of the Reformation. In May, 1564, he ad a grant from the crown of the escheat of Alexander Innes of Crombie; and in the following January, another grant from the crown of the unlaws or amerciaments of any six persons he might choose among those unlawed in the justice courts, and this so long as he should enjoy the

e of justice depute.

His first appearance as an author was on occasion of the queen's marriage with her cousin Darnley, for which he omposed an epithalamium, or marriage song. The piece, which is not to be found among Craig's poems in the Deline Poetarum Scotorum,' was only lately discovered. As described by Tytler, it is in its general tone too full of effort, too ambitious in the display of classical alluming. and too richly and laboriously coloured, but not without some passages of beauty and simplicity. The little offern z was tendered to a woman-a queen-a bride, and all there centred in one who was not inattentive to the interests of learning. On the 24th October that year, Craig had a grant from the crown of the unlaws above mentioned dering his hie.

In his office of justice depute Craig appears to have been by dail November 15 and hour particularly realous. A remarkable instance of this occurred the following month. On the 14th November 1565 curred the following month. On the 14th November, 1565, 1385

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presents prevented by the Lord Ruthroon, the Lord Chameshop Hornes, and others, at the head of whom were Darmley functions.

The ine rather of James following, the quest was delivered of a constant Chaig again appeared as a court hard, harding the light of the years proper in a Genetical stand, harding the light of the years proper in a Genetical stand, harding the light of the years have soon absenced to have maked to the seasons of Hoder Meson, laughter of the inflaential bailed of Treisman, and the actuary of Haddington; and in took the salest any Lorses was born.

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If was prinkly thank this time that Craig contemplated his great work on the footal for. Seed a well one in a majore new to the last invention of Sealand. The harried Kine his juner at the last information of Sealand. The harried Kine his juner at the last his information of Sealand. The harried Kine his juner, and compound a Treatise on Montene Lav., sprokally the Ried regular work on that branch of jurispendence in Behavir, and Balbarth. Proceeds, were seed brown. But no Evaluate had the last of his line but a "service" in Nicholana, who, like most of his laveling, repetided Sharp and Forag with the axes don to a sequence order of beans. Het Craig narrowed his powerful mind, in Liney and positional and it is accommissed stores of lastying and experiences, to a temporary object, and to object his account a previous, to a temporary object, and to object his account in most of auging the previous opportunity for released of preventing majoring the previous opportunity for released for preventing majoring the previous apparaturity for released to the formation of the dealers, and that existency pass from his bornel his bornel to the dealers, and that existency pass from the horse of the dealers, and that existency pass from the horse of the dealers, and that existency pass from the formation of the passit Parson's Conference on the Despated Copies sing, whereby the right of the possit has account to their first for the passit Parson's Conference on the Despated Copies sing, whereby the right of the possit bear and an the dealers for formation of the passit Parson's Conference on the Despated Copies sing, whereby the right of the possit has account to king or Seats should be her surfaceion that for count the king of Seats should be her surfaceion that for count the king of seats should be her surfaceion that for count is the Kingle's

out disputs; and Craig's reply to Deleman was never cripted.

On the king's departure for Rughard with his family, Graig wrote a Purmatizen of congratulation; and on the since occasion, a Propenpticon, or forewell posm, to the sound princes Heary. The same year he composed has Stephanapharia,' in honeur of the king's convention; of which coremonal Graig sectors to have been a citizens, borner, in all likelihard, accompanied the rural party into Emplanel; and provious to his return beam he addressed in the Emplanel; and provious to his return beam demand for the king a short posm, in which he took a soleton forewell of his Majesty, and, at the same time, of the Muses.

Soon after his return Graig was appointed one of the commissioners associated by the parliament to most with commissioners remainsted by the parliament to most with commissioners remainsted by the parliament to most with commissioners remainsted by the parliament to most with commissioners from England and treat of a nation between the two kingdoms; and thereupon in the automation of 1605 he wrote his treatise on the union. About the concentration for the charge of founds dependence on the crown of England, brought against it in the chromides of Holimaked. Neither of these works was ever published; and the latter doubties for obvious reasons. The fift against the latter doubties for obvious reasons. The fift against the latter doubties for obvious reasons. The fift against the latter doubties for obvious fact that Craig had the affect of a next on the lands from the month of June, 1605, knighted, and admitted as an ordinary lovel, when he had been little more than four years at the bar.

In the year 1606 Graig held the office of advocate for the charge of Scotland; and some time before his dealth, as he charge of Scotland; and some time before his dealth, as he

at the bar.

In the year 1606 Conig held the office of advocate for the church of Sportand; and some time before his death, as he would not formally accept the honour of koughthood, the bing remonantial that he should be everywhere saluted by the style accorded to that benoun.

The periodians of his death are not known; it took place on the 26th of Edwarder, 1600, when he had been upwards of forty-five scars at the har, and probably therefore when he was not much abort of security the years of

Age.

CRAIG, JOHN. The distance his both and stath are animown; but he was alive in the interval fee-1710. He was a Searchman by hirsis, and was rester of Gallingham, in Dorsatshine. He deserves remarkshame as one of these wise were naive in developing the principles of the theory of fluctures of the appearance. His writings are purify

in the Philosophical Transactions, and partly published acparately. The latter are, 'De Calculo Fluentium,' London, 1718, with two books 'De Optea Analytica.' De Figurarum, &c. Quadraturis,' London, 1633. There had previously, it. 1653, appeared a tract on the same subject.' Theologue Christiana Property Mathematical Analytical Christiana Property Mathematical Analytical Christiana Property Mathematical Analytical Christiana Property Mathematical Christiana Property Theologie Christiane Princips Mathematica, Louisin. Histor a very fully attempt to apply numerical reasoning to historical evidence. He executives from a formula that a tre evidences of Christianity will be estimately lapse of time in take years from 14161 or and 1.161 or which date her therefore tubers the communications of the Miller tre Craig is tailed by some commental winders the introducer of the the ewid Lebertz and Educated. Fortist values ANNE MARITIMA to SEA KAIL is a random

structure plant was irradounted amused have and to be promine if any write flowers found nonecounty il the seconds of Chemilia and his romains of the If Partiers in the sale, if its tentral renter shorts. Nati-The far air of the many is strong recongnite and Long theorem in it is size it view it a sent h the antition, it is merch a manufere mass if tenorie feety. The salence than the late is not sell being of the furthers. Mid Will a little Best speed Hall Island I st the Differ a Tables of a fire of the tive of the an excellence of the tive of the an excellence of the tive strain. The are P.C. & THEORY & Little LITTLE OF STHE BETTING PRINTS OF FORM ALL BALLS BE TO RETTING THE CHILDREN LITE OF HE SATIL also I storate and also a vest of the base of the test of the state of notes any more test products they are out if the metic

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The second and the second of the second was the the water a week special at the saw we would Comment of the species and a statement in the parties. the second of the second of the specification of their the state of the state of the same the same to present on of his studies. This change of residence influence in the

split. The antients often used bronze cramps to bind their masonry together, as in the Colosseum. A great many of the cramps of this building have been cut out on account of the value of the metal. When a piece of stone is placed perpendicularly over another, without being connected with any other stone at the side, as in the Gothic pinnacle or in the shaft of a column, an upright piece of iron or copper as used, which is termed a plug. Cramps are cemented to the state with lead; cometimes plaster, and even sulphur a need. In the faction witness of Stewart's 'Athens' are some interesting details by Mr. Cockerell of the manner and test its the Greeks in cramping the stones of the leader of the grants at Agrigantum. The Egyptians some week waaren erninge.

CRANZEERY, the fruit of two species of Oxycoccus CRINGERRY, the first of two species of Oxycoccus. The English was included a Oxycoccus palustris, is found will authorate in the first of North, Lincolnshire, and many other pairs. C. English always by the side of little rills, and not among surround water it has slender trailing increases as simplifying ones of the d with tiny linear leaves, and has a fire-paired plus of the with the segments sharp-bull of the linear expellent tarts and one of the many which of manuals. The fluster camberries of the sharp-bull of manuals. The fluster camberries of the sharp-bull of the linear storage. They are not gathered till at an the torus is the species. They are not gathered till after the instrument of winds. Near Petersburgh the creations in the contraction of the contr There is a first in that the snow is stained critisen in the letters rushed to press by the passage of sledges of them. The new run createrry, Oxycoccus macrocar runs sivery like the other, but its leaves, flowers, and fin the largest had the large has a more medicinal taste. It s muchei mit United States, in hogsheads, in consignature thatty, and used for the same purposes as the mier but it is reasilered of inferior quality

characters palestrs has zever yet been cultivated to any The furnisher stands wing to the difficulty of giving it a sample of ranging water. The Oxyoccus macrocarpus will great reason and bear abundantly if planted in post range of a moderately damp and slightly shaded bed. It is nowever seed on so treated, the berries themselves being so

them in the Lookit market.

We become that what in Scotland is called cranberry marmalaire, a not rectured from the berries of the challent but from those of the Vaccinium Vitis Idea.

CRANECREE [Describing.]

CRANGERM DESETSHIRE.]
CRANGE GETTLE.
CRANGEN. [CETSTACEA SHRIMP.]
CRANGEN. [CETSTACEA SHRIMP.]
CRANGE GEARCHOPODA.]
CRANGER THOMAS, the second son of Thomas
Crammer and Agrees drughter of Laurence Hatfield, his
wife, was been at Aslactica, in Nottinghamshire, on the 2nd
of the Control of Thomasophila family from which had 483. The respectable family from which he den Jiv. seemed had been settled in that county for some generamas. His first instruction was received at a village school, from who a he was removed by his mother, who had become a woley, and who placed him, in 1503, at Jesus College, Camprolize, where he became a fellow in 1510-11. He applied with great did gence to the studies of the University: Greek Hierew, and theology were the principal objects of as universe. Before he was twenty-three years old, Cranner married a weman of humble station but respectal as connector, a kinsweman of the landlady of the Dolphin; and having in consequence forfeited his fellowship, accepted The area atment of lecturer in Buckingham, now called Magnague College. The duration of this employment was very sacret for in about a year after his marriage, his we have gived in childbed, by a somewhat irregular proagents of Wolsey, who had founded this celebrated college at Oxford, were now searching the kingdom for men of relent and learning to fill the vacant chairs in that esta-Sissement; and Cranmer was distinguished by them with the flattering effer of high and lucrative employment. After some hesitation, he refused the new dignities. In 1523 he took the degree of D.D. During his residence in the university, he had undertaken, in addition to his other duties, the charge of educating two sons of a Mr. Cressy, who was connected with him by marriage; and when the sweating sickness broke out in Cambridge (1528), retired to that gentleman's house at Waltham Abbey, where he was occupied with the instruction of his pupils and the

grand the maximules of list. He. Ry arise of Heavy VIII., the same of description had been about from each unit with the control of the contr

king opposed their wishes, and directed Tonstal, a bishop opposed to the 'New Learning,' to draw up an answer to the dissertation which had been compiled by the German divines.

On the 5th of May, 1538, Cranmer and others were appointed commissioners 'to inquire (Le Bas, vol. i. 204) into the debated doctrines, and to prepare such articles as would pacify the spirit of controversy.' At the end of eleven days, the labours of the commissioners coming to no result, the duke of Norfolk offered six articles (Burnet, vol. i.) for the consideration of the House of Lords. Cranmer's opinion agreed only with one of these articles. Being desired by the king to explain himself in writing, he composed a treatise upon the case, which, with his secretary, to whom it was intrusted, became the subject of a singular adventure. (Burnet, vol. i.) In parliament, he argued for three days with considerable learning and eloquence, until the king, who favoured the articles, angrily desired him not to appear again in that house before they had become law. Cranmer, obedient to Henry in most points, in this respectfully resisted the king's commands: but although he continued present, he was unable either to throw out the duke of Norfolk's measure, or to alter the sanguinary penalties which it contained. As soon as this act was passed, Latimer and Shaxton resigned their bishoprics, an example which, contrary to expectation, the archbishop did not think it his duty to follow. He retained his see, and lived in retirement with his wife, who however was soon compelled to retreat to Germany.

In July, 1540, the primate presided at the convocation which pronounced the unjustifiable sentence of dissolution of the marriage which had been solemnized between Henry and Anne of Cleves. This ridiculous ceremony was quickly

followed by the execution of Cromwell.

The misconduct of Catherine Howard, whom Henry had married as soon as he had put away his former queen, coming to the knowledge of the archbishop, he undertook to report her profligacy to the king (1541). After an investigation, the proofs of her crimes were held to be conclusive; she was condemned, and, after a delay of some weeks, during which time Henry, through a message, of which Cranmer was the bearer, promised to spare her life, she was executed.

The maintenance of the ground that the Reformation had gained, and the extension of it where it was possible, now (1542) became the sole occupation of Cranmer, who had transferred to the universities the task of revising a new edition of the Bible published the year before, which it had been proposed to apportion among the bishops, requiring an English version of such part from each, whatever might be his opinions. This was considered a step gained, as it certainly was the preferable method: and notwithstanding the Reformers did not in all things prevail (for a prohibition against Tindal's Bible was secured by their opponents), they had still further success in procuring an order that the scriptures should be read in English by the ministers in the church service. In a minor degree Cranmer's attention was occupied in reproving the excess of luxury in which some ecclesiastical establishments as well as the bishops had indulged.

ments as well as the bishops had indulged.

In May (1543) appeared the King's Book, which was in fact little more than a new edition of the Institution, altered in some points by the papal party: it received its name from the preface, which was written in Henry's name. The clergy being hostile to this book, Cranmer, at a visitation of his diocese, in submission to the king's supremacy, forbade them from preaching against any portions of it, however they or he himself might dissent from them. The exertions which he had used for the correction of his diocese, in which religious variance was at a great height, were watched and examined by his political adversaries, who hoped to found on them such accusations as would ensure his ruin. The prebendaries of Canterbury and some magistrates in Kent, encouraged by Gardiner, after holding a succession of meetings, finally drew up articles accusing Cranmer of abusing his power. These charges were submitted by the prebendaries to the council, and by the council to the king. Henry immediately caused the accusation to be sifted by a commission, who declared them to be unfounded, and the authors of the conspiracy afterwards witted themselves to Cranmer, who refrained from

nitted themselves to Cranmer, who refrained from ing them to punishment.

1844 Cranmer successfully exerted himself in parlia-

ment to carry a bill to mitigate the severity of the statute of the Six Articles. He also assisted in compiling an improved English Litany, essentially similar to that which is now in use. Difficulties however were increasing around him, and he had the dissatisfaction of seeing the seals, which were now resigned by Lord Audley, his personal and political friend, conferred upon Lord Wriothesley, an adherent of the Roman Catholic party. By this appointment, as well as by the death of the duke of Suffolk, it was expected that the king's favour towards the Reformers might be weakened. Nor indeed was it long after Suffolk was in his grave before Cranmer, who, with three others, had been associated with the queen in the government of England during Henry temporary absence in France, had reason to feel his less. The duke of Norfolk and other members of the prival council accused him of spreading heresies through the land, and prayed the king, that, for the safety of his dominions, the archbishop might immediately be committed to the Tower. Henry, on the same night that the accusation was received, caused Sir Anthony Denny to carry a message to Cranmer, who rose from his bed to attend upon the king at Whitehall. The council assembled on the following morning, and summoned before them the primate, who had been insultingly kept for an hour in a servant's waiting-room. At length sentence of imprisonment was passed upon him, but, to their surprise and confusion, he produced the signet of the king, from whose hands he had received it the night before. The council did not venture to proceed any farther in the case.

After a peace had been concluded with France (1546), Anhault, the French admiral, came to England. A resolution was made by him, and sanctioned by the king, that the Reformation should be proceeded with, and that in both countries the mass should be changed into a communion, the form of which Cranmer was ordered forthwith to draw up.

This was the last year of Henry's reign.

The king, who of late had grown so corpulent and unwieldy that he was raised up and let down the stairs by a machine, after an illness of some weeks, sank under his disease on the 27th of January, 1547. Cranmer was named one of the executors of his will, and one of the regents of

the kingdom.

On the accession of Edward, who had not yet completed his tenth year, and, the better to establish his supremacy, the bishops received anew their bishoprics at his hands The first public act of the primate was the coronation of the new king (February 20, 1547), and the delivery of a short address which he then substituted for the customary sermon. No one that heard the expressions of the archbishop could hope for the restoration of papal supremacy; all things indeed betokened a still further extension of the Reformation. An inquiry into the state of religion, by means of a visitation of the whole kingdom, was immediately ately set on foot: twelve homilies, four of which are ascribed to Cranmer, were drawn up, and ordered to be placed in every church, with the translation of Erasmus's phrase of the New Testament, for the instruction of the people. It is true that these measures, though they had many supporters, met with frequent opposition. Gardines continued to argue, both in person and in writing, against the homilies and the paraphrase, which the bishop of London also proclaimed to be heretical. Nevertheless Cranmer's influence prevailed: and when he produced, in convoca tion, an ordinance that the laity as well as the clergy should receive the sacrament in both kinds, the proposition passed unanimously, and soon after obtained the sanction of the legislature. By the same parliament the Act of the Six Articles and other severe statutes were repealed.

During this winter seasion of parliament it was proposed to confer upon the king such chapela, chantries, and colleges as had escaped his father's grasp. There were few subject a upon which Cranmer's opinion coincided with that of the Roman Catholic party, but in this case he joined their rank and voted in opposition to the bill. He now (1548) revived the proposal for substituting a communion office for the mass, and a service was framed in time to be circulated to the clergy for their use at the following Easter.

The more considerable labours which occupied the Protestants at this time still remain to be told. An English translation of a catechism which had been written in German and in Latin by one Justin Jonas, was published by the archbishop, entitled 'Cranmer's Catechism.' In the month of May a commission of twelve divines, with Cran-

the cold care states from a special for the structure of the cold care states of the primate | for the cold care states of the primate | for the cold care states of the primate | for the cold care states of the primate | for the cold care states of the primate | for the cold care states of the primate | for the cold care states | for the primate | for the cold care states | for the cold care stat

openly read in Cheapside. In the Star-chamber Cranmer avowed the writing, and his intention of affixing it to every church-door in London. The council committed him not only for treason against the succession of the queen, but for perseverance in 'disquieting the state.' The queen did not oppose the committal.

In March, 1554, Cranmer was removed, in company with his fellow-prisoners, to the prison of Bocardo at Oxford, where was renewed the controversy respecting the Lord's Supper, which, by the queen's desire, was named the sub-

On the 13th of April, the persons sent by the convocation to dispute appeared in the university, and Cranmer, who was first called before them, after examining the questions set before him (Burnet, vol. ii.), entered into argument upon them. After him reasoned Latimer and Ridley, amidst much shouting, hissing, confusion, and insult, so that the assembly, says Burnet, 'looked liker a stage than a school of divines.' On the 19th the discussion was revived; and on the 28th they were again brought to St. Mary's, where it was declared, that unless they would turn, they were obstinate heretics, and no longer members of the church. Cranmer then replied, 'From this your judgment and sentence I appeal to the just judgment of the Almighty, trusting to be present with Him in Heaven, for whose presence in the altar I am thus condemned:' and having thus to dispute appeared in the university, and Cranmer, who sence in the altar I am thus condemned:' and having thus

spoken he was removed again to his prison.

He had some days before sent a petition to the council and the queen, praying pardon for his offences towards her, but the bearer to whom he had intrusted the papers broke them open, and it is not known that they reached their destination. However this may be, the council decreed that the charge of treason should be withdrawn, and the proceedings for heresy followed up, that the pains of fire, and not the axe, might be the manner of his death.

It was now discovered that the tribunal before which

Cranmer had been tried was not competent to decide the case, and that the sentence was illegal. The pope therefore issued a fresh commission, and on the 12th September, 1555, the primate was again examined by Brokes, the bishop of Gloucester, and two civilians, Martin and Story. bishop of Gloucester, and two civinans, marun and Story. After some discussion, sixteen articles of accusation were produced, touching which eight witnesses were examined, and then the case closed. It is remarkable that, previous to these proceedings, Cranmer was summoned to appear within eighty days before the pope at Rome: this must have been a mere fiction of papal law, not intended for him to obey, as indeed it was impossible for any prisoner to do. Not long after Cranmer was sent back to prison, he heard Not long after Cranmer was sent back to prison, he heard of the execution of Ridley and Latimer, and after a few more weeks had passed, he received from Cardinal Pole an answer to two letters that he had written to the queen during the interval between the last proceedings at Oxford and the day that these bishops were brought to the stake. It appears from these letters that the primate's adherence to Protestant principles was still unshaken. On the 29th of November the eighty days had clapsed, and on the 4th of December he was excommunicated and deprived of his of December he was excommunicated and deprived of his bishopric. A letter from the pope (Paul IV.), bearing date the 14th of November, affirming him to be contumacious, because 'he took no care to appear' at Rome when cited, and declaring him guilty of heresy and other enormities, finally commanded his execution. On the 14th of February, in obedience to this mandate, Cranmer was degraded. It was within a few days after this that the fortitude of a mind which had hithert been form grate was tude of a mind which had hitherto been firm gave way under the pressure of misery and the close prospect of a tor-turing death. The love of life overcame his firmness: he forsook his principles, and wrote a recantation of his faith. By whose exertions his resolution was shaken we cannot ascertain; but this unworthy sacrifice of opinion served only to render his enemies triumphant: whatever had been their promises, the recantation was of no avail towards the pre-servation of his life. On the 20th of March, the eve of his execution, he was visited by Dr. Cole, the provost of Eton College, who had been ordered by the queen to attend him. During this interview Cranmer gave answer that he remained firm in the Catholic faith as he had recently professed it, an answer that has by some been considered equi-

fter Cole had left him, Garcina entered the prison, sted him to transcribe a recantation, to be deliin at the stake, which the prisoner consented to
ie following day he was led to St. Mary's church, the Rev. William Crashaw, a divine of some note in his

where, after an exhortation had been read by Dr. Cole, and Cranmer had finished his private devotions, he solemnly addressed the people, openly professing his faith, and at length declaring. Now I come to the great thing that troubleth my conscience more than any other thing that I ever said or did in my life; and that is the setting abroad of writings contrary to the truth which I thought in my heart, and writ for fear of death, and to save my life, if it might be; and that is all such bills which I have written or signed with mine own hand since my degradation, wherein I have written many things untrue. And forasmuch as my hand offended in writing contrary to my heart, therefore my hand shall first be punished. For if I may come to the fire, it shall be first burned. And as for the pope, I refuse him. as Christ's enemy, and antichrist, with all his false doctrine.' The whole assembly was astonished at this speech thev had supposed that he would have confirmed and not retracted his recantation. He was then hurried away to the stake, where he stood motionless, holding up his right hand. and exclaiming, until his utterance was stiffed, 'This un-worthy hand! Lord Jesus receive my spirit!' Cranmer's diligence and application were unusual: he

was deeply read in theology and canon law, and was familiar with Hebrew, Greek, and Latin, as well as French, German, and Italian, which he acquired during his travels.
the copiousness of his common-place books gave weight to his opinion, and readiness to his power of argument. reservation respecting the oaths which he swore when appointed archbishop, his subserviency to Henry VIII. in annulling his marriages, his share in the condemnation of some heretics, his conduct at the disgracing of Bonner and Gardiner, and the want of courage which made him recant after his condemnation, are great blots on his character. But though his conduct on these occasions was marked by dishonesty, intemperance, and want of firmness, these were rather impulses than habitual and characteristic vices, for it cannot be denied that Cranmer was sincere, mild, and moderate, and for the most part a firm man: nor is it to be forgotten that persecution was the policy of all religious parties at this period. He had moreover the virtue of constancy to his friends, a very rare quality in the times in which he lived; and never relaxed his friendship towards Anne Boleyn, Cromwell, or Somerset in their adversity. The affability of his manners, and the gentleness of his temper, made him beloved by many friends and men of learning, to whom he also extended a liberal hospitality; so that his protracted imprisonment and cruel death was one of the most unpopular measures of Mary's government. complete collection of the extant works of Cranmer has been published at Oxford by Dr. Jenkyns.

(Strype's Memorials of Cranmer; Fox's Acts and Mon; Burnet's Hist. Reform.; Gilpin's, Todd's, and Le Bas's Lives

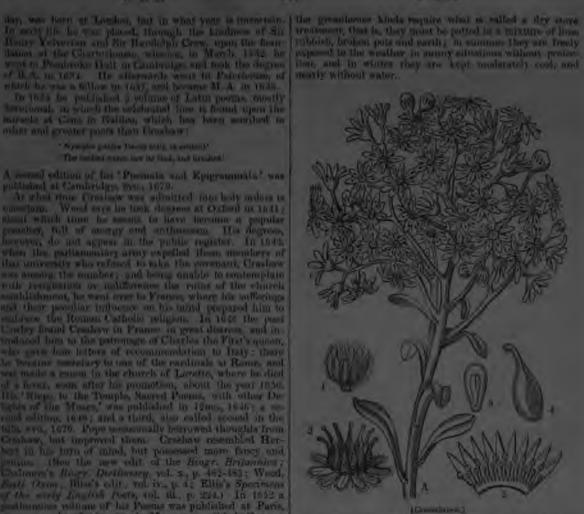
of Cranmer; and the general histories of the period.)
CRAPE is a light transparent fabric composed of silk. from which, by the mode of its preparation, all the gless has been taken, and which, when dyed, as it usually is, of a black colour, is worn as the sign of mourning for the dead.

The weaving of crape is conducted according to the simplest method of the weaver's art, all its peculiarity being given to it in the dressing, which it receives after it is taken from the loom. The silk is used without its having been washed or dyed, and consequently with all the natural viscid gum which forms a part of its composition as spun viscid gum which forms a part of its composition as spun by the worm. For thin crape, the only preparation which the filaments undergo previous to the weaving is the simple twisting, which forms the first process of the throwing mill, and in which state the thread is technically called singles. When it is intended to make a more substantial fabric, the warp is made of two and sometimes three filaments twisted together, which in that state are called tram: the weft is still composed of singles. After the web trum: the west is still composed of singles. After the web is taken from the loom, it is dressed with a viscid solution of gum, which in drying causes the individual threads to resume, as far as the interlacing will admit, the form they originally held previous to their being twisted in the throwing mill, and thus is produced the peculiar wrinkled appearance by which crape is distinguished. This fact will be shown if a piece of crape is washed in water hot enough to discharge the gum, when the web will resemble than

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others of a larger th of Semperovary villament 1, a valyand it areas if a part of the presidence value and open and advanta by the the object it a major with the greates probability with hypogeneous of most of the that of norm of Cores; is a open consist, a sensitive channel the embrys in the allowance.

CRASSUS, the surname of several Reman families, and especially of the triumyir Marcus Latinuse. When he is first monitoused in history, he is apotent of as exceedingly rich; and it was partly owing to this circumstance that he was appeared to take the commond against the revolved gladiniars of Copus. To a few days he rused on owny of an legions, and marched in quest of the enemy. A battle was fought in the south of Holy, near Rhegium, in which Crassus was completely victorious, and Spartners fell with 40,000 of his men. Crassus was reparted with an ovation on his return; but instead of the usual neythe-westly he had a laured crown. (And. Gellies, v. n.). At the time of his expedition against Spartners, he held the office of protor; and the following year (s.i.e. 650, 71 n.c.), he case chosen consul with Pompey. The influence which Pompey gained by his popular and engaging manners Crassus sus-ecoled in sequence by the hospitality and munifrence which his interior wealth easily supported. On one occasion he gave a general entertainment to the whole people, and distributed care enough for these munities provision. No acts of importance, however, are recorded by his torium during this administration. After some years, Crassus and Pompey dropped that determined violence towards each other, which, though frequently concerted, had never been wholly removed, and joined Cosar in what is called the first triumvirate. While the actual power was almost entirely engages de Cosar, he endeavoured to blind Comous and Pompey to the real state of disting by cortain concessions which he made. With this view he included them to provide for some nextly sufficients to their interval. After time the affinited as discontinued, but

it was renewed again; and in B.C. 56 Pompey and Crassus offered themselves as candidates for the consulship, in order to keep out Domitius Ahenobarbus, who was violently opposed to Cassar, and would be likely to thwart his designs. Caesar had been appointed over the provided for five years; and Crassus and Pompey, though for five years; and their intentions, at last succeeded some time they concealed their intentions, at last succeeded in gaining the provinces of Syria and Spain for the same period and on the same terms. Pompey did not leave immediately for Spain; but Crassus set out for Syria without delay, even before the year of his consulate was expired, s.c. 55. From the great preparations which he made, both in raising forces and in other ways, and from his known avarice, it was clear that a war with the Parthians was the real object at which he aimed; and the joy which he displayed at the prospect of so vast an increase of his wealth Appian (on the Parthian Wars, § 135) describes as perfectly childish and ridiculous. The tribune Ateius endeavoured to prevent Crassus from going on this expedition, but in vain; and as Crassus was passing through the gates of Rome, the tribune pronounced certain terrible imprecations upon him over a small fire, which had been lighted according to the usual practice in such cases. A person thus devoted, it was believed, could not possibly escape, and the person who so devoted another could not prosper himself, and therefore it was a course not pursued hastily or on light grounds. (Appian, § 137; Cicero de Divinatione, i. 16.) This consideration increased the alarm which the curse produced in the people, and even among the army of Crassus himself. Nevertheless he proceeded, by way of Macedonia and the Hellespont, to Asia. He crossed the Euphrates and ravaged Mesopotamia without resistance. Orodes, the king of Parthia, being at the time engaged in an invasion of Armenia, his general Surena engaged in an invasion of Armenia, his general Surena commanded the Parthian forces against the Romans. A battle was fought near Carrhae between Crassus and Surena, in which Crassus was defeated. The clamours of his soldiers obliged him to accept proposals of peace from Surena, to whom the messengers of the Parthian general promised to lead him. His resistance to their insulting treatment provoked their fury, and they put him to death without delay, s.c. 53. Surena had his head and right hand cut off and sent to Orodes.

We have no proof that Crassus possessed very great talent of any kind, and, but for his wealth, he would probably have been scarcely known. From his father he inherited a large fortune; but the rest of his wealth was not acquired by the most honourable means. He is said to have enriched himself by purchasing at a very low price the estates of those who were proscribed by Sylla; also by letting for hire slaves, whom he had instructed in various arts and trades; and so high was his own standard of opulence, that he said no one could be rich who was not able to maintain an army at his own expense. With all his avarice he was generally ready to lend money to his friends, and was hospitable without extravagance. Cicero (Brut., § 66) represents him as a man of moderate acquirements and slender abilities, but of great industry and perseverance. In another of his works (Tusc. Quæst., v. 40) he says, 'Crassus was somewhat deaf, but a greater misfortune than this was the bad character which people gave him, though in my opinion unjustly.' (Cicero, Epist. ad Atticum, i., 14, 17; iv., 13; Appean, on the Parthian Wars, § 134-155; Dion Cassius, xxxvi. & xxxvii.; Plutarch, Life of Crassus.)





'Coin of Crassus.]

British Museum. Actual Size. Silver. 614 grams.

CRASSUS, LUCIUS LICINIUS, was considered the greatest orator of his time. He appears to have super-intended the course of Cicero's early education. (De re, u. 1.) Cuero, in one place (Brut., § 38), pro-is how perfect, and in the treatise before referred to rubne, he delivers his own sentiments on eloquence person of Crassus. In the beginning of the third book he takes occasion to lament the death of the interlocutors in the dialogue, Crassus and Antonius.

CRATE'GUS, an extensive genus of hardy trees and bushes, the different species of which are cultivated for the sake of their ornamental appearance, especially when loaded with brightly-coloured fruit. It belongs to the pomeous division of the rosaceous order, and is very nearly allied to the apple, from which it differs in the fruit containing a variable number of stones, as the medlar does; from the medlar it is known by its fruit being closed, not spread

open, at the apex.

The species inhabit woods and hedges throughout the northern hemisphere, from Barbary and Palestine to about 60° N. lat. in the east, and from Mexico to a similar latitude in the west. South of these limits they do not occur in a wild state. The flowers appear in the greatest profusion, usually in terminal cymes, in the early months of the year, and are succeeded by small round fruits, coloured yellow, red, purple, or black. Most of them are merely haw, and fit only for the food of birds; a few are larger and more fleshy, but none of them have been found worth cultivating for the fruit, except the azarole (Cratagus Azarolus), which is eaten in Italy, and the aronia, which is sold in the markets of Montpellier under the name of Pommett. à deux closes.

Between sixty and seventy well-marked species and va rieties are known in the gardens of this country. Into extensive collections they are all worth introduction exce; t Cr. parvifolia and those immediately allied to it; and for flowering trees at all to be compared with Crategus for variety, fragrance, and beauty. Our limits prevent our noticing all these at length; we therefore confine ourselves to a brief indication of those which are most valuable for

ornamental purposes.

Under the name of Hawthorns we would comprehend all the numerous sorts which are either varieties of Crate. gus oxyacantha, or nearly related to it. They have an deeply-lobed rather shining leaves so little hairy that their bright green colour is not deadened, small fragrant flowers, and small shining haws. They are distinguished for the graceful manner in which they generally grow in rich soil and unharmed by the pruning-knife. Thirty feet is not an unusual height for very fine specimens, and when of that size their appearance is exceedingly graceful and picturesque. Cr. oxyacantha itself produces varieties with double flowers, bright crimson flowers, yellow fruit, black fruit, and fruit downy when young; the latter is called (oxyacantha eriocarpa, and is one of the most beautiful of the genus. Besides these we would recommend most pargus oxyacantha, or nearly related to it. They have all the genus. Besides these we would recommend most par-ticularly to planters the *Cr. heterophylla*, or Constantinople thorn, which is more erect and rigid in its manner of growth than any of the varieties of Cr. cxyacanthu, and grows remarkably fast.

Very nearly allied to these are the Oriental Thorns. species which have their deeply-cut leaves covered so closely with hairs as to have a dull grey or hoary aspect, large fragrant flowers, and large succulent rather angular fruit. These are less graceful in their manner of growth than the true hawthorns, some of them, especially Cr. tanacetif did and odoratissina having a round formal head; but their flowers are even more fragrant than the May-bush, and their fruit renders them striking objects in the autumn. The azarole is one of them; but it does not fruit or flower readily and is the least worth having of the group. What readily, and is the least worth having of the group. What we should recommend are Cr. odoratizzima, with its red, Cr. tanacetifolia, with its yellow, Cr. orientalis, with its purple, and Cr. Aronia, with its light orange-coloured fruit.

The American Thorns are species with leaves but little lobed, usually broad, shining, and toothed unequally, often having exceedingly long spines, and having fruit generally of an intermediate size. They are not quite so handsome as the species of the two former groups; but the following. nevertheless, have sufficiently ornamental features, viz, Cr. crusgalli, or the Cockspur thorn, with very long strong cr. crusgaus, or the Cockspur thorn, with very long strong spines and shining deep-green leaves; of this we have a broad-leaved variety called splendens, and a narrow-leaved variety called salicifolia; Cr. prunifolia, ovalifolia, and Douglasii, with dark handsome leaves; Cr. prunctata, with large yellow or red haws; Cr. cordata, with brilliant scarlet fruit, and Cr. microcarpa, with very small beautiful vermilion fruit and graceful pendulous shoots.

The Small-leaved Thorns are all North American.

they form small straggling bushes, and are not worth culti-

Finally, the Evergreen Thorns consist of Cr. mexicana and pyracantha. The former is a small tree, with lanceshaped bright green leaves and large round yellow fruit; it is probably too tender for hardy cultivation north of Lon-The latter, an inhabitant of rocks and wild places in don. the south of Europe and the Caucasus, has so long been cultivated for the sake of its flame-coloured berries and evergreen leaves as to require no description here.

All these plants may be budded or grafted upon the common hawthorn, so that persons whose means do not allow them to purchase the plants may nevertheless ornament their gardens with them by providing hawthorn stocks, upon which they may work them themselves; or a very small garden might exhibit a good many sorts, if each of the groups here pointed out were intermixed upon the same plant; this might be easily effected by a skilful budder. It would not, however, do to intermix the different groups upon the same plant, because the species would not harmonize, and consequently a bad appearance would be the result.

(See Loudon's Arboretum and Fruticetum Britannicum, part iii., and the Botanical Register, vols. 21 and 22, for more detailed information concerning these plants.)

CRATERUS. [ALEXANDER III.]

CRATES, the name of several Greek writers. I. A co-median of Athens, one of the most eminent of the predemedian of Athens, one of the most eminent of the predecessors of Aristophanes, who speaks very favourably of him. (Eqq. 537.) He is said to have been originally one of Cratinus' actors (Schol. on Aristoph. Eqq.), but he could not have been so very long, since he was well known as a comic writer in 450 B.C. (Euseb. ad Olymp., 82, 2.) Aristotle tells us that he was the first who introduced regular plots into his comedies. (Poet. c. v.) II. A Cynic philosopher, the son of Ascondas of Thebes, who flourished about the very  $\frac{328}{28}$  B.C. He was living in  $\frac{307}{28}$  B.C. when Demetries year 328 B.C. He was living in 307 B.C., when Demetrius l'halereus retired to Thebes. (Diogen. Laërt. vi. 85; Plutarch, Mor., p. 69, c.) He was a disciple of Diogenes and Bryson, and was surnamed the 'door-opener' (θυρεπανούκrnc), from his habit of entering any house he pleased whether invited or not. (Suidas.) III. A philosopher of the old academy, son of Antigenes, and born in the deme of Thria in Attica. He was a disciple of Polemo, to whom he was much attached, and the instructor of Arcesilaus and Bion the Borysthenite. (Diog. Laërt. iv. 4.) He flourished about the year 287 B.C. (See Clinton's Fasti Hellenici, ii., p. 183.) Cicero says, that his philosophical doctrines did not at all differ from those of Plato. (Academ. i. 9.) IV. A celebrated grammarian and stoic, son of Timocrates, and porn at Mallos in Cilicia. He was sent as ambassador to Rome by Attalus, king of Pergamus, about the year 159 S.C. (See Clinton, Fasti Hellenics, iii., p. 89.) His works were very numerous. (See a list of them in Clinton, iii.,

CRATI'NUS, the son of Callimedes, a writer of the old CRATI'NUS, the son of Callimedes, a writer of the old omedy, was born at Athens 519 B.C. It is not known when he began to write comedies; it is inferred, however, from the words of Aristophanes (Eqq. 524-530), that he did not appear as a dramatist till somewhat advanced in life. See Clinton's Fasti Hellenici, vol. ii., p. 49.) He was the most formidable adversary of Aristophanes: two occasions re recorded on which the judges pronounced him only econd to that great poet; and in 423 B.C., the first prize has awarded to his comedy called the 'Wine-Flask,' the Connus' of Ameipsias being placed second, and the Clouds' of Aristophanes third. He died the year after. Tratinus was highly esteemed by his countrymen, and at the time, according to his rival Aristophanes, was so much ne time, according to his rival Aristophanes, was so much a fashion, that no songs were listened to at banquets exept choruses from his comedies. In his old age he was much addicted to drinking; and in his last play he shows now his faithful wife *Comedy* strove to get divorced from tim in consequence of his exceeding love for his fascinating mistress the *Wine-Flask*. (See the Scholiast on Aristoph. 249. 401.) Aristophanes frequently alludes to this failing if his contemporary. (See, for instance, the *Peace*, 701.) The names of forty of his comedies have come down to us.

Fabricius, Bibl. Græca, ii., p. 431.)
CRATIPPUS, a Peripatetic philosopher, born at Mityene. He was a contemporary and friend of Cicero, who hought him the first philosophor of the age (De Officia, 'a Cratippo nostro, principe hujus memorise philosophorum'),

and intrusted his son Marcus to his care at Athens. (De Officiis, i. 1.) He taught first in his native place, where he was still residing when Pompey came thither after the battle of Pharsalia; he had an interview with the defeated general, with whom he conversed on providence. (Plutarch, Pomp., c. lxxv.) Afterwards he went to Athens, and Cicero not only got him made a Roman citizen by Julius Cresar, but even prevailed upon the Areopagus to vote that he should be requested to continue at Athens as an instructor of youth, since he was an ornament to the city. (Plutarch, Cicero, c. xxiv.) Brutus went to Athens to hear Cratippus while engaged in preparations to meet the army of the Triumvirate. (Plutarch, Brutus, c. xxiv.) Cratippus wrote a treatise on divination, in which he allowed that kind which was derived from dreams and the ravings of idiots, but denied all other sorts of divination. (Cicero de Divinat. i. 3 and 32.) In addition to his merits as a philosopher, we are told that he was an amusing companion, and gifted with great powers of conversation. (Cicero ad

CRAYONS (from the French crayon, derived from craie, chalk) are a species of material for drawing, and may be considered as of two kinds, native and artificial. The principal native crayons are black, white, and red. The best black is procured from Italy. It is a species of earth, which is soft in the ground, but hardens on exposure to the air. It is of a bright even tint, and of a smooth and the air. It is of a bright even tint, and of a smooth and moderately hard texture. Admirably adapted to outlining and shading drawings of any size, it is the artist's best tool for study. It will form a large, bold, and strong line, and is at the same time capable of extreme fineness. The best white is a pure chalk, and is procured in France. It is of a brilliant colour, but very brittle; so that it is difficult to avoid breaking it frequently. There are various modes of correction its brittlemers such as socking it is mill believe. correcting its brittleness, such as soaking it in milk, baking it on hot iron, or in the fire; but they all, more or less, injure the brilliancy of its tint. Pipe-clay is sometimes employed as a substitute, as being smoother and less brittle; but it is of a very inferior tint. White chalk is used on tinted paper to touch on or hatch the high lights. It is also much used by the painter to determine or correct his outline. Red chalk is employed in the place of black chalk on white or tinted paper, because it is freer than the best black chalk, and firmer and smoother than the inferior kinds. It is also of a warmer and more agreeable tone of colour; but it is by no means capable of the same degree of fineness in small or highly-finished drawings: it is a clayey ochreous substance. All these three kinds of native crayons are frequently combined in the same drawing, on tinted papers, which are generally of a neutral grey, of a

blueish, greenish, or brownish quality.

Artificial crayons are composed of different coloured earths, and other pigments, rolled into solid sticks with some tenacious stuff such as milk, common gin, or beerwort. The best are procured from Switzerland. They are employed in crayon painting upon a ground composed of paper or vellum, stretched upon a canvas, which has been previously extended on a deal frame. It is requisite to paint with cooler tints in crayons than in oils, which is the reason why crayon painters generally fall into such a cold style of colouring when they work in the other material. Great softness and delicacy and great vivacity of tint may be obsortness and deficacy and great vivaciety of this may be ob-tained in finished crayon paintings; but depth, richness, and truth of colour, are not attainable, nor solidity in the forms. Moreover, the delicacy proper to the sub-stance is tolerably certain to betray the artist who devotes stance is tolerably certain to betray the artist who devotes himself solely to its use into a petty and weak style of drawing. For sketches of portraits, in which the form and expression, and a general idea of the complexion, are all that is required, crayons are a very pleasing and useful material; but they should be employed only occasionally, and as a variety to other modes of study.

The native crayons are the legitimate materials for the The native crayons are the legitimate materials for the artist in the study of drawing, and in tracing the first thoughts of design. Some of the sketches of Raphael, Michael Angelo, the Caracci, and others of the great painters, remain to attest the utility of crayons in forming the style of a painter or sculptor, and their capability of expressing the highest qualities of design.

An instrument called a porterayon is employed to hold the crayon by. It is a metal tube, split at each end, so as to gape a little to admit the crayon; a sliding ring em-

an river discreted since his time in Anstra-

remissure the Tempulamen III The rise of the first of the fi

dour, who was instigated, it is said, by her hatred to Voltaire to benefit Crebillon, as these two authors were always looked on as rivals in the drama. His tragedy of 'Catilina' was now advertised, and great were the expectations of the public; the court were determined to patronize him, and the king himself furnished the requisite dresses. It was produced in 1749, and the applause was tumultuous. The public however on reading it began to retract their lasty praise, and it was objected that the tragedy was a very unfaithful picture of the manners of antient Rome, a censure which should not be passed on Crebillon as peculiarly distinguishing him from other authors of his school. 'Le Triumvirat' was produced when the author was eighty-one years of age, and had but indifferent success; he also began another tragedy, called 'Cromwell,' about this time, which was never completed.

Crebillon died in the year 1762, and a monument was erected to his memory in the church of St. Gervois, by the order of Louis XV. The French actors also caused a magnificent service to be celebrated in the church of St. Jean de Latran in honour of the veteran dramatist, at which all the

literati and most of the nobility of France attended.

It is on the tragedy of 'Rhadamiste' (Tacitus, Annal.

xii. 44, &c.), that the fame of this author rests; and in spite of the various solecisms which profound critics of the French language discover in this work, the English reader will find it more to his taste than many tragedies, the names of which are more familiar to him. The plot is the names of which are more familiar to him. The plot is lighly interesting, and there is a fire in the character of 'Rhadamiste,' and a matronly dignity in that of 'Zenobie,' which arrests the attention of the reader, and prevents the tedium which many English readers feel in perusing a French tragedy.

Those who wish to know more of Crebillon may read a chapter on this author in La Harpe's 'Cours de la Littérature.' The chapter is a long one, and the extracts are so copious, and the reader's attention is directed so pointedly to the remarkable passages, that he may really learn more of Crebillon by reading that critique than by perusing the author's own works.

CREBILLON, CLAUDE PROSPER JOLYOT DE, son of the preceding, was born at Paris in 1707. He wrote a number of romances, which acquired a great popularity, owing, as some say, more to their extreme licentiousness than to any intrinsic merit. His strict moral character is always brought forward as a remarkable contrast to the great laxity of his writings. He was well known as a member of two convivial societies, called the Dominicaux and the Caveau, the latter of which enrolled among its names those of Piron, Collé, and Gallet. Crebillon the younger died in 1777.

The remark that his fame is only owing to his obscenity does not to us seem wholly true. Indeed the very author of this remark (Biog. Univ.) makes another which tends to weaken it. He says that Crebillon is too cold a writer, and wants that warmth of colouring which is requisite to render works of a licentious nature endurable. The fact is, that his novels, in spite of their outrageous indecency, contain a most accurate picture of the motives that actuate persons in a corrupt state of society. They are rather the works of a cynic, who tears the mask off vice, than of a voluptury, who is absorbed in its contemplation; and if we regard them in this light, their grossness may be reconciled with his strict moral character. Still however the philosophy which they inculcate is of a morbid nature (being much like that of Rochefoucault), and only those whose minds are unassailable by impurity can peruse with any profit the novels of Crebillon.

CRE'CY, or (as it is frequently written in English works) CRESSY, a small town (bourg) in the department of Somme, in France, on the little river Maie, which falls into the sestuary of the Somme. It is in the midst of a territory fertile in wheat and other grain, and in grass: cattle, wool, and hemp are among the articles of trade. There are several tan-yards, and oil and corn-mills. There is a considerable forest in the neighbourhood. The population onsiderable forest in the neighbourhood. The population of the commune as given in Prudhomme's Dictionnaire Universel de la France, 1804, was 1207.

Crécy is chiefly known by the great battle fought near it, August 26, 1346, between the English and French armies

under their respective kings, Edward III. and Philippe VI.

of Paris, were retreating when they were overtaken by the French. The force of the contending armies is usually estimated at about 30,000 English and 100,000 French: but Mr. Turner (Hist. of England during the Middle Ages, 2nd edit., Lond. 1825, vol. ii. p. 199) states the English army to have been as follows:—1st division, under the Prince of Wales (Edward the Black Prince), 800 menat-arms, 2000 archers, and 1000 Welshmen; 2nd division, under the earl of Northampton and others, 800 men-atarms, 1200 archers; 3rd division, or reserve, under the king in person, 700 men-at-arms, and 2000 archers. Allowing these numbers to have been doubled by the addition of the retainers of the men-at-arms, it will still give only 17,000 men. The English reserve was not engaged, and the king remained during the whole action at a windmill, surveying the fight and refusing to send aid, though his son, then a boy of sixteen, was hard pressed by the enemy, adding to the messenger who had entreated aid, 'Return, Sir Thomas, and tell those who sent you not to expect me while my son is alive. Tell them that I command that they let my boy win his spurs: for I wish, if God has so ordained, that the day be his own, and that the honour rest with him and those in whose care I have placed him.' The French were defeated very much through their own impetuosity and want of discipline. The butchery was dreadful, for the English, being so much inferior in number, showed no mercy. The king of Bohemia, the duke of Lorraine, the count of Alençon, brother of the king of France, the count of Flanders, eight other counts, two archbishops, and several lords and German barons, fell; and (according to the English account) 1200 knights and about 30,000 other persons. Philippe of Valois received two wounds, and was one of the last who fied. An equal or even greater number of French fell the next day in various rencontres, according to Froissart. The result of this fearful slaughter was the siege of Calais, which surrendered after a year's

CREDENTIALS are the instruments which an ambassador or other diplomatic minister receives from his own government, authorizing him to appear in his diplomatic character, defining the extent of his powers, and showing to what rank of ministers he is intended to belong. The credentials are usually in the form of a closed letter, ad-dressed to the power to which the minister is sent; but ministers are sometimes accredited by letters patent, which is the form commonly adopted when they are to be sent to

a congress.

A minister cannot be received in any other character than that which is given him by his credentials; and for this reason he usually communicates their contents before he is admitted to his first audience. If he is accredited by letters patent, this is done by showing the instrument itself; but if his credentials are sealed, then by presenting a copy of them.

The powers granted by the credentials may either be The powers granted by the credentials may either be confined to certain specified transactions, or extend generally to all negotiations whatever; and may, in either case, be either limited or unlimited; in which latter case the minister is styled a minister with full powers, or minister plenipotentiary. (Vattel, *Droit des Gens*, liv. iv., § 76; Klüber, *Droit des Gens moderne*, § 193, 194.

CREDIT, in Political Economy. [BILL OF EXCHANGE.

CURRENCY.] CREDITON.

CREDITON. [DEVONSHIRE.]
CREECH, THOMAS, is the translator of Lucretius,
Horace, Theoritus, and detached portions of several other Greek and Latin authors, of which a list is given in Kippis's Biographia Britannica. He was born at Blandford, in Dorsetshire, in 1659, admitted of Wadham College, Oxford (of which he appears, from the title-page of his Lucretius, to have become a fellow), in 1675, and elected probationer-fellow of All Souls' in November, 1683. published in 1682 his translation of Lucretius, which appears, on the testimony of a violent and foolish invective against the work, to have gained much credit at Oxford, and is his best work. Dryden, who himself translated parts of Lucretius, has bestowed high praise on his predecessor. (Preface to first part of Miscellanies.) Creech published a Latin edition of the same author in 1695, and a translation of Horace in 1684, the latter with very indifferent success. He was appointed to the college living of Woburn, (de Valois). The English, who had been plundering Normandie, and had carried their ravages to the neighbourhood! Herts, in 1699; and two years afterwards, in June, 1701, mandie, and had carried their ravages to the neighbourhood! hung himself in his chamber at Oxford. His temper was

very morose, which leaves room to ascribe this act to some !

constitutional infirmity.

CREED, from the Latin credo (I believe), the English name for those short summaries of Christian doctrine which in the continental churches are commonly called symbols, though sometimes also credos. The English church adopts, as 'thoroughly to be received and believed,' the three antient creeds, called the Apostles' creed, the Athanasian creed, and the Nicene creed; but it does not assert any of them to be inspired, nor does it even affirm the first-mentioned to have been actually drawn up by the apostles; it only says of them generally that 'they may be proved by most certain warrants of holy Scripture.' (Art. viii.) The Catholic church adopts along with these what is called the creed of the council of Constantinople, which contains some addition to what is said in the Nicene erred on the subject of the divinity of the Holy Ghost. Many other similar formulæ have been received at different times in particular churches.

CREEK is a small inlet on a low sandy coast.

inlets occur also frequently in harbours inclosed by a low shore and along the banks of rivers. Sometimes, especially in harbours, creeks are formed by the mouths of small brooks and rivulets. In large rivers creeks are resorted to by small craft as harbours or landing places, and they are often visited by fish in spawning time. In the United States the name creek is very generally applied to small inland streams, which in England would be called brooks

CREEK INDIANS were, at the beginning of the present century, one of the most powerful native tribes within the limits of the United States of America. They occupied nearly all the countries lying north of 31° N. lat. between the Flint river, the eastern branch of the Chatahoochee, and the Tombigbee or western branch of the Mobile river, and did not permit Europeans to settle west of the Flint. They then occupied a large part of the state of Georgia, and more than half of that of Alabama. In 1802 and 1805 they ceded the north-western portion of their territories to the United States; but in 1813 they joined their arms with those of the Spaniards in Florida against them, and were only defeated and subjected by a very destructive war in 1814. Though their number was much reduced by this war, it was still estimated at 20,000, of which number about one-fourth were warriors. At this period they were obliged to give up all the countries west of the river Coosa, a branch of the Alabama. In 1826 those of them who inhabited that portion of Georgia which lies between the Flint river and the Chatahoochee sold their lands and retired to the banks of the Arkansas, where a tract of land was assigned to them by the general government. Many of them are to them by the general government. Many of them are said to have emigrated to the Mexican state of Texas. Of their former territories the Creeks occupy at present only the north-eastern corner of Alabama, together with a small number of Cherokees. They have made considerable progress in civilization, having entirely abandoned a wandering life, and inhabiting fixed places. They have large flocks of cattle, and cultivate grain, maize, potatoes, and some roots and vegetables: they also have different kinds of domestic manufactures. They have schools established among them. Their language is a diplect of the so-called among them. Their language is a dialect of the so-called Floridian language, which is spoken by all the tribes south of the Tenessee river, and as far west as the Mississippi. The Seminole Indians in Florida are called Lower Creeks. The name Creeks was given to them by the first settlers. They

name Creeks was given to them by the first settlers. They call themselves Muskogees.

CREEPER (Zoology). Creeper-family, Certhiade. A family of birds placed by Mr. Vigors under his order Scansores or climbing birds. 'The genus Certhia,' writes that author (Linn. Trans., vol. xiv., p. 461), 'as originally instituted by Linnaus, contained, besides the true Certhia and the convenes which form the Authorne Certhia and its congeners which form the extreme family of the preceding tribe (Picidae), all those birds whose slender and gradually curved bills and delicate formation of body, added to their practice of employing their tongues in taking their food, indicated a strong affinity to each other, and which have since been particularized by authors under the various names of Nectarinia, Cinmpris, Drepanis, &c. To the group thus known and described by the Swedish naturalist, later ornithologists, who have strictly followed his steps, have added another, discovered since his time in Austra-

however, thus united by close affinities, and as such generally brought together by systematic writers into one conterminous series, are decidedly divisible into two distinct groups, naturally arranging themselves under different subdivisions of the order. The family of Certhiade, as we have seen above, live upon animal food; while the remaining genera of the Linnsean Certhia subsist chiefly upon vegetable juices. The tongues of each, though similar in being more or less extensible, and in being the medium through which they are supplied with food, are equally dis-tinct as the nature of the food itself. Those of the former are sharp, and of a spear-like form, as if to transfix the insects which are their prey; while those of the latter are divided into tubular filaments, which appear exclusively adapted to the purposes of suction. In other particulars they exhibit an equal difference. The Certhiadæ clunb, and their feet are of a conformable structure; but the feet of the suctorial birds are not only in general unsuited to that purpose, but they become gradually weaker, and of they are so short and slightly formed, as to be serviceable only in perching, when the bird is at rest.... The two groups of the Linnean Certhia are disposed in the separate departments to which the distinct nature of their food and habits more immediately unites them; while at the same time, by their forming the extremes of their respective tribes, and touching each other at the corresponding points of the circles in which they are arranged, their obvious affinities

are preserved inviolate.'

Having thus shown that, according to Mr. Vigors, the Certhiadæ on one side lead the way to the Tenuirostral group, we must go back a little to make the reader acquainted with its true place, in the opinion of Mr. Vigor, among the Scansorial birds. The strong affinity, he observes, between the *Picidæ* (wood-peckers) and the *Cer*thiadæ, in their general habits of climbing and of feeding by their extensile tongue, needs no illustration. The difference in the form of the typical bill of Picus, and that of the true Certhia, the former straight and powerful, the latter curved and slender, is softened down by the intervention of the genus Dendrocolaptes, Herm, which, as it stands at present, includes some groups (Dendrocolaptes Picus; where the bill is as strong and as straight as in Picus; others (D. scandens), where the bill, still retaining its strength, becomes gradually curved; and others (D. procurvus), where the bill still further deviating from the type of the genus to which it belongs, assumes the full curve and slenderness of the bill of the typical Certhia. The Linnman Pici, he remarks, include some species where the bill loses the straight and angulated form, and becomes curved and compressed; and these, of which Picus auratu. Linn., is the representative (Colaptes, Swainson), show in this particular a clear approximation to the true Creej ere: while the latter exhibit an equal contiguity to the former, in some of the aberrant groups of the family, which retain the stiff shafts of the tail-feathers so remarkable in the true. Pici. The conformation of the foot of the Certhiada, shows a deviation from the perfect structure of the more typical Scansores, distinguishes them as an aberrant group of the tribe, and calls for a separation. In the Certhiadae the foot is not strictly scansorial; but though they have not two posterior toes like the Picidae, the single hind toe of the Certhiadæ is considerably longer and stronger then it

is in the generality of Perchers.

'In addition,' continues Mr. Vigors, 'to Dendroco aptes, already mentioned, and the true Certhia of the present day, the family before us consists of a variety of genera strongly united by their corresponding habits. Among these, Climacteris, Temm., and Orthonyz, Temm., preserve the strong shafts of the tail-feathers, which are carried on to them from the true Pici. This construction gradually deappears in the remaining groups of the family; but the strong hind toe, and the tongue more or less extensile, and serving to spear their prey, is still conspicuous. Among Upupa, Linn., together with the Linnean Sitta, and the conterminous form of Kenope, Ill. Here also may be associated the Opeliorhynchus and Anabates of M. Temminck. as also the Oxyrhynchus of the same author. This genumay be observed to be connected with those groups of the have added another, discovered since his time in Austra-lasia, similar in habits and manners, and now distinguished the preceding; it is a perfect Wryneck, as justly asserted by the generic title of Meliphags. The whole of the birds, ever, to enter into the affinities of these groups. We know but little of them as yet: and every day is bringing in fresh subjects, and fresh information on a department of the class which has hitherto, I know not why, attracted but little attention.'

Mr. Swainson (Fauna Boreali Americana, vol. ii.) places the genus Troglodytes (wrens) among the Certhiada, which family he also places under the Scansores.

Cuvier, the Prince of Musignano, and Lesson, arrange the Certhiadæ under the Tenuirostres, and the following are the genera which M. Lesson enumerates.

Family character.—Bill sometimes very much curved,

Family character.—Bill sometimes very much curved, sometimes but little, sometimes nearly straight, rounded, slightly compressed, pointed; tongue simple, cartilaginous at the extremity; tail-feathers generally worn at the end. (Lesson.)

## Genera. Certhia.

Bill moderately long, more or less curved, triangular, compressed, slender, pointed; nostrils basal, partially closed by a membrane; wings short, fourth quill longest; tailfeathers stiff, a little curved, pointed at the end. Example, Certhia familiaris, Linn.



Certhia familiaris.

Description.—Bill about half an inch long, slender an curved; head and neck above, streaked with black an lyellow-brown; a white line above each eye; irides hazel; back, rump, and scapulars approaching to tawny; quills dusky, tipped and edged with white or light brown; coverts dusky brown and yellowish-white, producing a variegated appearance; a yellowish-white bar across the wing; breast and belly silvery white; tail-feathers twelve, tawny brown; length rather more than five inches; weight about two drams (Montagu). Pennant says five drams.

The Creeper, Common Creeper, Tree-creeper and Tree-climber, Certhia familiaris, Linn., is, according to Belon and others, the Kiρθως (Certhius) of Aristotle (book ix., c. 17); it is Le Grimpereau of the French; Picchio piccolo, Picchietto, Rampichino and Piccio rampichino of the modern Italians; Baumlaufer, Kleinere Grau-Specht, or Kleinste Baum-Hücker of the Germans; Krypare of the 'Fauna Succioa;' and y Grepianog of the antient British.

Habits.—The creeper is a most restless and active little bird, ever on the alert, and climbing up and about the trunks and branches of trees intent on picking up its insect food. Though comparatively common, and a constant resident in Britain, it is not easily seen; for its activity in shifting its position makes it very difficult to follow it with the eye. At one instant it is before the spectator, and the next is hidden from his view by the intervening trunk or branch to the opposite side of which it has passed in a moment. The form of the tail and organization of the feet are beautiful adaptations for this sort of rapid locomotion. Its note is monotonous, and often repeated.

Nest in the hole or behind the bark of decayed trees, formed of dry grass, and the inner part of the bark, lined with small feathers, in which six or eight eggs are deposited: while the female sits on these she is regularly fed by the male bird.

Geographical Distribution.—Britain and the Continent of Europe. Pennant says, that it migrates to Italy in September and October. Latham states, that it is found in various parts of Germany and elsewhere on the Continent, and is also said to inhabit North America. This is confirmed by the Prince of Musignano, who, in his Specchio Comparativo, notes it as common and permanent near Rome, and rare near Philadelphia.

Temminck is of opinion that the Certhia brachydactyla of Brehm is identical with Certhia familiaris.

# Tichodroma (Petrodroma, Vieill.).

Bill longer than the head, triangular at the base, slightly bent, rounded, entire, and depressed at the point; nostrils horizontal; tail-feathers nearly equal, with ordinary shafts; wings long, fourth, fifth, and sixth quill the longest. Example, Tichodroma muraria, C. Bonap.; Tichodroma phanicoptera, Temm.; Certhia muraria, Linn.

Description.—Summit of the head of a deep ash colour; nape, back, and scapulars bright ash; throat and front of the neck deep black; lower parts blackish ash; coverts of the wings and upper part of the exterior barbs of the quills bright red; extremity of the alar quills black: these quills have two large white spots disposed upon the interior barbs; tail black, terminated with white and ash; bill, iris, and feet black; length six inches six lines. Such is Temminck's description of the male in its nuptial or spring dress.

The female, according to the same author, has the summit of the head of the same bright ash as the back; the throat and front of the neck white, slightly tinged with ash; and the rest of the plumage like that of the male.

This bird is the Grimpereau de muraille, Pic de muraille,

This bird is the Grimpereau de muraille, Pic de muraille, Ternier, Eschelette and Eckelette of the French; Picchio muraiolo and Picchio di muro of the Italians; Mauer Baum laufer of the Germans, and Wall-creeper of Latham.



[Tichodroma muraria-]

Geographical Distribution.—South of Europe. Tolerably abundant in Spain and Italy, always on the most elevated rocks, and very rare in the mountains of moderate height. Never found in the north, according to Temminck. The bird is common in Provence; and the Prince of Musignano notes it as permanent and rather rare near Rome, where it may, however, be seen creeping on the outward walls of St. Peter's. It is not a British bird, at least it has never been recorded as such.

Habits, Food, Nest, &c. — Temminck says that what the Creeper does upon trees the Wall-creeper does against the vertical faces of rocks, on which it sticks firmly (se cram-U 2

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ponnent fortement), without, however, mounting and descending by creeping. Clefts and crevices of rocks and the walls of old edifices are its favourite haunts, and sometimes, but very rarely, the trunks of trees. It feeds on insects, their larvæ and pupæ, and is particularly fond of spiders and their eggs. Belon has figured his example clinging to a pillar with a spider in its bill. The nest is made in clefts of the most inaccessible rocks and in the crevices of ruins at a great height.

The bird moults twice a year. It is in the spring only that the male has the black on the throat, and this ornament disappears before the other feathers fall. The females moult also twice, but without changing colour, which makes it impossible to distinguish the sexes after pairing and breeding time. The young may be distinguished from their parents before their first moult, but in winter no difference

is observable. (Temminck.)

# Dendrocolaptes (Dendrocopus, Vieill.)

Bill long or moderate, compressed laterally, rather strong, convex, straight or curved, or only curved towards the extremity, pointed; Nostrils lateral, round, open; Tongue short and cartilaginous. Third, fourth and fifth quills the longest. Tail-feathers stiff, pointed. Hind toe shortest; claws very much curved, channelled. Example, Dendrocolaptes procurrus, Temm. D. trochilorostris, Wied. Locality, Brazil.

Description.—Size of the blackbird. Bill strongly curved and nearly twenty lines long. Tail graduated and each feather terminated by a stiff point. General colour cinnamon, passing into dirty ruddy grey on the head and belly. There are numerous white spots on the head and neck.



[Dendrocolaptes procurvus.]

## Climacteris.

Bill short, weak, very much compressed throughout its length, but little curved, oval-shaped; mandibles equal, pointed; Nostrils basal, lateral, covered by a naked membrane. Feet robust; tarsi of the length of the middle toe,



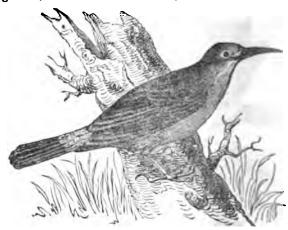
which, as well as the hallux, are extraordinarily long; claws large and curved, channelled on the sides, subulate, very much hooked; external toe united up to the second articulation, the internal toe as far as the first; lateral toes very unequal. Wings moderate; first quill short, second shorter than the third, which last and the fourth are the longest. (Temminck.) Example, Climacteris Picumnus.

Description.—Summit of the head deep-grey; nape and neck bright grey. Wings and two middle feathers of the tail brown; a large nankeen-coloured band passes nearly through the middle of the quills. Tail-feathers black, except at their origin and extremity. Throat and cheeks dirty white. Breast grey. Feathers of the lower parts white in the middle, bordered with brown. Lower coverts of the tail Isabella-colour, marked with transverse brown spots. Length six inches six lines. (Temm.) Locality, Timor, Celebes, and the North coast of Australia.

This genus bears a strong relation to the Soui-mangus.

Furnarius (Opetiorhynchos), Temm. Figulus, Spix.

Bill shorter than the head, as wide as it is high, compressed laterally, but little curved, entire, pointed; Tongue moderate, straight, worn at the point. Wings feeble. (Vieillot.) Type, Merops rufus, Gmel. Example, Furnarius fuliginosus, Lesson. Certhia antarctica, Garnot.



[Furnarius rufus.]

'The genus Furnarius, writes M. Lesson, 'was established by M. Vieillot for the reception of some small birds of Paraguay, the most celebrated among which have been placed among the Thrushes, the Creepers, the Bec-caters and the Promeropidæ. The most antiently known, the Fournier of Buenos Ayres (Merops rufus, Gm. Figulus allorgularis, Spix), is often noticed on account of the manner in which it constructs its nest, viz.: in the form of an oven (four), whence comes its name. On this point we know nothing of the habits of the Fournier brun, which lives in South America, and which approaches much in other respects to Merops rufus, figured by Commerson under the name of Hornero Bonariensium and of Turdus furnifuler, and which is said to be an object of veneration at La Plata. As it ought to be, the genus Furnarius should only cont. In the three species indicated by D'Azara, and that which we add under the name of Furnarius fuliginosus.

'This bird is five inches and a half in length; the bill is

'This bird is five inches and a half in length; the bill is eight lines long, the tarsi an inch, and the tail two inches eight lines. The bill is slightly compressed, convex above, with the upper mandible slightly curved, entire, and exceeding the lower one. The tail is nearly rectilinear, composed of twelve feathers. The legs are feathered down to the tarsi, which are slender, clongated, with large but little apparent scutella. The middle toe is longest; the two outside ones nearly equal in length, and the external tee is united with the middle toe at its base. The claw of the posterior toe is double the length of the anterior toes, which are very much compressed at the sides, curved, and pointed. The entire plumage of the bird is a clear fuliginous brown spread equally over all the parts of the body, the neck alone exhibits yellow and brown ill-defined strike. The under side of the tail is of a bright grey-brown. A yellow band of deeper tint occupies the middle of the great quite, and forms a kind of scarf when the bird is in flight; the extremity of the quills is a little deeper than the rest of the

pleasure, and their external touter is a shade largester."

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(See Nacraniuma.)

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The species bearing this game, multimed by Cavier, and mand, around a have more or less or searlet in their pluringe, and differ from the true Certhies, masmach as their tails to not core, as do they crosp. It is questionable whether they do not being to the Nacrovinides; but their position will principally depend upon their habits and the form of their tength. Corres places the genus most in Le Fourmer (Mercy rayms) and maker Nacrovinia.



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CREES and University. These renstitute at present one or the eners numerous and post widely extended of the aboughted notions which inhabit the interior of North America. The Crees, formedy called by the French Krastmann, inhabit the shores of Hadkon's Hay from Moore fliver, which this into the south-nestern corner of James Boy, is the month of Churchill River (alone 50° N. Ist.), and rance they extend restward to the Athabasca Lake, and to the plains which he between the first of the Saskarthewan, areas Carlian House. They do not esteed to the Body Montains, the plains lying along the best of this reasonable of a branch of the Assimphoin technic when are of the River stock, and spend the language of the tropials or Harms. The Chippeways inhabit the country about Lakes Makigan, Huron, and Huperior. But it were that many after tribes belong to the same and on the Creek for all the nations which are eithin the limits of the Chitest Status north of the Ohm and out of the Missimppi speak languages which may be employed only as distocts of that spokes by the Creek and Copposity. Dancourtes, coming from the westward, took processes in the whole scanners from the westward, took processes in the clade scanners from the westward, took processes in the clade scanners from the Missimir to the Alama, which indicates which read the distoct distoction and play the first documents. In this works of the Creek spans of the clade, about they because Alliques. In this works of the trad, about they because Alliques. In this works of the grant distoction, and tapelly settling on the Sanka are the first documents of the Franklin Trist Journey.)

Mekeswo gives the following description of his race—They are, for the most part, ball, targe-board, and bagg visiged with very prominent features. He says a printing the analysis of the base base cultur, the most permitten, or in aqualine shape, not as all diarrand; the feathers is should and arraight, month large, not the not at all evented; beit uniturally of a diarrand; the feathers and recept, having on allepantian whenever to card. When viewed in proble, the perfect appear more deoply and distinctly marked than in the Konjulmanns. The war is not placed as he back an the hand, nor is the space between the over a till or mand we to the last numbers of glower and waves. They have little latte us their chine or apper his, owing to the bosing endoated transcription of the remarked hand, and the present and restores from the room to the rounded form. They have for the facet from the near, being short, small bound, with the face approached nearest of the rounded form. They have, for the facet part, it as a present of mildness and restores from the rounded form. They have, for the facet part, in say, present of mildness and restores of North America, have upon the produce of the choice and the falseries in the rounded form. They have for the facet and the falseries in the rounded form. They have for the facet and the falseries in the rounded form of approximate his children and the falseries in the number of the choice and the falseries in the number of the choice and the falseries in the number of the falseries interesting the second of approximate his children should approximate the falseries and the falseries in the number of the falseries interesting the second of the countries which they obtained a falseries of the countries of the falseries  Have only allowed the falseries of the falseries of the falseries of the falseries of the falseries o

being in possession of a branch of the Assimobalian which are of the Shour stock, and speak the language of the same of the Shour stock, and speak the language of the same of the Cook, for all the nation which are of the same of the Cook, for all the nation which are ofthin and the Missimappi speak languages which may be controlled by cardens and country scats, in one of the pretical to a superior, the Missimappi speak languages which may be controlled by cardens and country scats, in one of the pretical to a superior of that spoken by the Cross and the manufacture of the whole country from the westward, took and the whole country from the westward, took and the whole country from the westward, took and the time, way or destroying the original took of the tand, about they termed Alligent. In this an and another, which control for a series of years, because a frequency begins and analysis of the tand, about they termed Alligent. In this can and another, which control for a series of years, because a frequency begins and another than the Missimus them, morning in the Missimus heap part with them, morning in the Missimus per per continued to the Cross and the Missimus per part of the Control of th

velvets; they are carried on both in the town and its immediate neighbourhood, and afford employment to upwards of 6000 hands; their produce is estimated at more than 500,000% a year. The other branches of manufacture are 500,000% a year. cotton-yarn, woollen cloths, and kerseymeres, flannel, stockings, linens, hats, gloves, thread, refined sugar, to-bacco, soap and starch, looking-glasses, sheet-iron, iron and copper wares, and felt for hats. The trade of Crefeld is brisk and extensive, particularly in its own products, and it has three good fairs in the course of the year.

CREMA, the town of. [Lopt.] CREMNITZ (Hungar, Kërmëez-Banya), a mining-town in the northern part of the county of Bars, in Hungary, aituated in a narrow gloomy valley, closed in by seven high hills. It is a royal free town, and the place where the earliest mines in the kingdom were opened; 48° 42′ N. lat. 18° 53′ B. long. The inner town, even with the castle, contains R. long. The inner town, even with the castle, command only 39 houses, but its suburbs are extensive and add 582 more to the number. The population is about 5500, mostly Germans or Sclavonians, who derive their subsistence from the adjacent mines. Among the buildings of note are the archiepiscopal residence, the principal church, with two lofty richly-gilt steeples and a coppered roof, built by the townsmen in 1461, four other churches, the chancery, mint, town-hall, royal gymnasium, Roman Catholie high school, royal hospital for the miners, an hospital for the townspeople, and a convent. is the seat of a subordinate board of mines, and coins the celebrated Cremnitz ducats. The royal mines in the neighbourhood produce gold, esteemed the finest obtained in Europe, and silver, and employ between 800 and 1000 workmen. The waters of these mines contain a large quantity of sulphate of iron. The smelting-houses on this spot smelt not only all the ores found here, but what the Schemnitz and Kieschlich mines yield. The produce of the Cremnitz mines has greatly fallen off of late years. The town contains a Normal school, a Lutheran school; two paper-mills, and a manufactory of earthenware and of red lead. It is the most antient free town in Hungary. CREMONA, the province of, in the Lombardo-Vene-

tian kingdom, is bounded to the north by the province of Brescia, east by that of Mantua, south by the Po, which divides it from the Duchy of Parma, and west by the province of Lodi. Its length is about 40 miles from north-west to south-east, and its breadth is about 15. The Po, the Oglio, and the Adda are the principal rivers of the province. It is entirely a country of plains, forming part of the great

level of Lombardy.

It is divided into nine districts, which are subdivided into 187 communes, with a population, in 1835, of 184,987 inhabitants, being an increase of 835 upon that of the year 1834. (Bollettino Statistico di Milano.) The districte are: Cremona, Soncino, Soresina, Pizzighettone, Robecco, Pieve d'Olmi, Casal Maggiore, Piadena, Pescarolo. The country is very productive in corn, flax, wine, oil; it also produces silk, cheese, honey, and wax. There are in the province 148 elementary schools for boys, attended by 7353 pupils; and 39 female schools, attended by 2339 girls. (Report of 1833.) At Cremona and Soresina are two female colleges for secondary instruction. At Casal Maggiore is a private establishment for secondary education for boys, and at Cremona a gymnasium and a royal lyceum. The Po and the Oplio being subject to overflowings, considerable sums are apont yearly by the treasury in repairing the embankments. The communal or cross roads constructed or repanied in the province cost, in 1831, the sum of 113,142 livres; in 1832, 191,838 livres; and in 1833, a sum of 179,719 livres. The two principal towns of the province, besides the capital, are Cusal Maggiore, with about 4000 minutatures, and Pazzighottone, a fortress of considerable strongth on the east bank of the Adda.

CHEMO'NA, the capital of the province, and a hostopic sec, 45 miles south-east of Milan, is situated on the north bank of the Po, and surrounded by walls finded with towers and wet ditches. A navigable canal, which communicates between the Oglio and the Po, put on through the town. The Po is navigable for large limits from Cremons to the sea. The town is five miles in through trace, but its population is not more than 26,000, and remarked by many of its streets, which are mostly regular and tolerably wide, appear desolate. Gremona has many good imildings, such as palaces and churches. The heads of the esthedral, which is a Gothic building, is ornamented with curious sculptures representing the signs of the zodisc and the rural labours of the various seasons. The interior is rich in paintings of native masters, Morett, Malosso, Boccacino (who is styled the Raphael of Cremona). Sojaro, &c.; and also in sculptures, especially by Sacch, a Cremonese artist of the thirteenth century. The other remarkable churches are S. Nazario, which contains some master-pieces of the brothers Campi, distinguished painters of Cremona; S. Pietro al Po, S. Abbondio, S. Lorenzo, Sa. Pelagia, also possess paintings of the Cremonese school. At Sc. Pelagia are two inscriptions in honour of Girolamo Vida. a distinguished prelate of the age of Leo X., who was a native of Cremona. Vida, who has been praised by Ariosto and by Pope, is the author of a Latin poem on the life of Jesus Christ, from which Tasso has not disdained to borrow some fine passages of his Jerusalem, and also of an 'Ars Poetica,' a didactic poem, which is much esteemed. The town-house on the great square, the new market, the theatre, and some of the gates of the town, are worthy of notice. But the famous tower or belfry ending in a spire, which is one of the loftiest in Italy, is the wonder of Cremona: there are about 500 steps to ascend up to the bells. The spire is a conspicuous object for many miles around in the plains of Lombardy. About one mile outside of the town is the church, formerly an abbey, of S. Sigismondo, founded by Francisco Sforza I., duke of Milan, who married here Bianca Visconti: it is full of paintings. (Panni, Rapporto delle Pitture che trovansi nelle Chiese della Citià e Sobborghi di Cremona.) There are also in Cremona some private galleries of paintings, of which that of Count Ponzoni is the principal. Cremona is the residence of the delegate or governor of the province. It has civil, criminal, and commercial courts, a lyceum, and a gyranasium, and a school of the fine arts. It is also the first city in Italy where infant schools were established in 1829, through the where mant schools were established in 1925, through the exertions of a philanthropic clergyman, Abate Aporti Being encouraged by the local authorities as well as by the Austrian government of Lombardy, these schools are spreading to Brescia and other provinces. In the town of Cremona there are several infant schools: one is mentioned in which the number was from two to three livings are month. in which the pupils pay from two to three livres a month, and which is attended by 80 or 90 children; two others are gratuitous or charity schools, in which about 340 children of both sexes and of poor parents are instructed, and have their dinner given to them. (Bollettino Statestico, 1834.) Children remain at school from morning till night; they are admitted from two to six years of age. after which they go to the public elementary schools. Their physical as well as intellectual, moral, and religious education is attended to. Aporti has published an interesting account of these institutions, with the method of instruction pursued in them, a catechism, &c.: Munuale d'Educazione ed Ammaestramento per le Scuole Infanti/i, Cremona, 1833. A notice of Aporti's labours appeared in No. XIX. of the Journal of Education, 1835. There are also holiday schools at Cremona and in various parts of the province, in which boys above twelve years of age who have left the elementary schools receive instruction, especially in the branches of knowledge connected with the mechanical arts. such as drawing, &c. These schools are open at certain hours on Sundays and other holidays which are kept in Catholic countries.

Cremona carries on a considerable trade in agricultural produce by means of the Po and the various canals communicating with that river. It has manufactures of silkand cottons. It was once celebrated for its violins and musical strings, but that branch of industry appears to have greatly declined. The high road from Milan to Mantua and Venice passes through Cremona.

Cremora was in the territory of the Galli Cenoman.

It was colonized by the Romans under the consuls T. Sempronius and P. Cornelius, at the time when Hannibal was marching against Italy (Tacitus, Histor., iii. 34) as a place of defence against the Gaula and other enemies from the north. It became a populous and flourishing town. In the civil wars of the triumvirate it was plundered by the soldiers of Octavianus, and its fertile fields were divided among fresh colonists, the former owners being driven away, a calamity pathetically alluded to by Virgil in his Bucukes and Georgics. Virgil was born at Andes, between Cromona and Mantua. In the war between Vitellius and Vespasian the citizens sided with the former, upon which the victorious army of Vespasian having entered the town.

plundered and burnt it. Tacitus (Hiet., iii.) has given a fearful account of that catastrophe. Cremona was restored by Vespasian. After the fall of the empire, it underwent the same vicissitudes as the other cities of Lombardy: it suffered severely at the hands of Frederic Barbarossa, was afterwards distracted by the Guelf and Guibeline factions, had its petty tyrants, and at last fell under the dominion of the Visconti of Milan, since which time it has continued to form a part of the Milanese state. (F. A. Zacharia, Cremonensium Episcoporum Series cum Dissertatione de Cremonæ Origine, Amplitudine, &c., 4to, 1749.) The literary history of Cremona has been written by Arisio, Cremona

Literata, 2 vols. fol., 1702-6.

CREMO'NA, a general name given to violins made at Cremona in the seventeenth century by the Amati family, and by Stradiuarius at the commencement of the eighteenth. These instruments excel all others, and the choicest of them bear very high prices. [VIOLIN.] Cremona is a name erroneously given to a stop in the organ; it ought to be Krumhorn, a sort of cornet, of which it is intended to

be an imitation.

CRENA'TULA. [MALLEACEA.]
CRENILA'BRUS (Cuvier), a genus of fishes of the section Acanthopterygii and family Labridse. The species of this genus have all the general characters of the true Labri, or Wrasses, but are distinguished by their having the margin of the preoperculum denticulated: the cheeks and operculum are seen. culum are scaly.

Four species of this genus have been found off the British coast, of which the common one, Crenilabrus tinca (Labrus tinca Linnaus), is called the Gilt-head, Connor, Golden Maid, &c. This fish is found on various parts of the coast; it is about six inches in length, and the depth is nearly one-third of the length. The general colour of the body is obscure red and green; these colours are arranged in longitudinal stripes on the upper parts, and beneath the lateral line the red is disposed in spots. The Gilt-head mostly frequents deep water, where the bottom is rocky; its food is chiefly Crustacea.

Crenilabrus cornubicus (the Goldfinny or Goldsinny) somewhat resembles the last, but may always be distinguished by a black spot on each side near the base of the fail, and situated on the lateral line; its general colour is yellowish green, darkest on the back; the sides are usually idorned with longitudinal lines of a deeper hue. Length

about three or four inches.

Crenilabrus gibbus (the Gibbous Wrasse) may be realily distinguished from either of the known British species If this genus by its comparatively shorter and more ele-rated form. The depth of the body is considerably more han one-third of the length: the colours are chiefly orange and blue; the gill-covers and sides of the body are spotted, and the back is striped. The ventral fins are green, the pecorals are yellow, with transverse red stripes at their base.

Pennant obtained a specimen of this fish off the coast of Anglesey; and this is we believe the only instance on ecord of its capture off the British coast.

Crenilabrus luscus (the Scale-rayed Wrasse) has been once aught off the coast of Cornwall: the specimen was twentywo inches in length. The tail is round, and consists of ifteen rays; 'between each ray of the dorsal, anal, and audal fins, is a process formed of firm, elongated, imbriated scales. Colour, an uniform light brown, lighter on the elly; upper eye-lid black; at the upper edge of the base of the caudal fin is a dark brown spot. Pectorals yellow; all

he other fins bordered with yellow.'

CREOLES, a word originally Spanish, and used to deignate the children and descendants of European parents, who were born in the South American or West Indian Colonies, as distinct from the resident inhabitants born in Surope, as well as from the offspring of mixed blood, such is the Mulattos and Mestizoes, born of negro or Indian nothers. The Creoles of Spanish America were for a long ime inadmissible to civil and political offices as well as to he higher ranks in the army; and even after Charles III. emoved their disqualifications, they were still considered is inferior to the native Spaniards. This state of humiintion contributed perhaps as much as the climate to ender them lazy and indolent. The insurrection of the Spanish colonies made the Creoles masters of the country, rom which the native Spaniards were mostly driven away.
In the West India Islands the Creoles are upon an equal footing with European natives. The Creole women are character that of Sir Henry Percy, in Edward I.'s time, engraved at the bottom of plate xxiv. of Meyrick's 'Critical Inquiry into

termed by the symmetry of their persons, the brilliancy of their eyes, and the sallowness of their complexions.

CREPI'DULA. [CALYFTRÆIDÆ.]

CREPUSCULA'RIA (Latreille), a section of Lepidopterous insects, corresponding with the genus Sphinx of Linnseus. These insects occupy an intermediate station between the Lepidoptera Diurna, or butterflies, and the Le-

pidoptera Nocturna, commonly called moths.
Distinguishing characters:—Antenne growing gradually thicker towards the apex, at which part they are furnished with an elongated club, either fusiform or prismatic. Inferior wings furnished with a rigid bristle-like process at their base, which passes into a hook on the under surface of the superior wings, and serves to retain them. The larvæ are furnished with sixteen legs, and many of them have a long horny process on the last segment of the body. The chrysalides are smooth, or sometimes furnished with small spines (but destitute of the points and angles usually observed in those of butterflies); they are either inclosed in a cocoon or buried in the earth: the larvæ sometimes feed upon wood, in which case they assume the pupa state within the tree or branch.

The families contained in this section are the Sphingida,

Sesiidæ, Ægeriidæ, and the Zygænidæ. CREPU'SCULUM. [Twillight.]

CRESS, the name given to various plants with acrid or pungent leaves. Common cress is Lepidium sativum; water-cress, Nasturtium officinale; Belleisle or Normandy

cress, Barbarea præcox; Indian cress, Tropæolum majus. CRESSY. [CRECY.] CREST, from the Latin crista, the ornament of the helmet: a term in heraldry sometimes used for the helmet itself. Hence, to crest, to adorn as with a plume or crest, in Milton, Par. Lost, ix. 500,

# ' his head crested aloft.'

In speaking of the cimier or crest, says Dallaway (Inquiries into the Origin and Progress of Heraldry in England, 4to., Glouc. 1793, p. 386), it will be necessary to describe the armour worn for the defence of the head, and the progressive embellishments which were added to its rude form, with the zera of their invention. Montfaucon, that most critical antiquary, has preserved many delinea-tions of the antient Norman casque, which, when the whole body was invested in mail, was composed of iron framework, covered with leather, and quite flat at the top, to which shape succeeded the conical head. By the number of bars of which the beauvoir or visor consisted, when presented in front view, the rank of the wearer was ascertained; that of the esquire was always in profile and closed, to denote his vigilance and activity in battle. To Edmund Crouchback, earl of Lancaster, the origin of several heraldic novelties in this kingdom is readily referred, and his seal will be found to exhibit the crest, accompanied by the lambrequin and wreath, as the first instance, prior to the year 1286. The crest is said to have been carved in light wood, or made of leather, in the shape of some animal, real or fictitious, and fastened by a fillet of silk round the helmet, over which was a large piece of fringed samit or taffets, pointed, with a tassel at the end. Before figures were introduced, plumes only were used, as well upon the head of the horse as on that of the warrior, which we gather from the seal of Baron do Spencer in 1296. The principal application of crests was in jousts or hastiludes, when the shield was not borne, but where they afforded an equal distinction; or by the chief commanders of horsemen in the field of battle. Originally of the highest importance, conceded by royal grant, and confined to very few persons; in process of time the assumption of them has become universal. They are not held to be absolutely hereditable, but may be assumed; and as females could not avail themselves of their primary use, accordingly no woman is allowed to bear a As an appendage to sepulchral monuments, crests are placed beneath the head of the armed effigy, attached to the helmet by the wreath and lambrequin; and at the feet a lion or dog is invariably added. Upon many of the large altar tombs, so frequent in the sixteenth and seventeenth centuries, those both of the man and of his wife's family are carved at the feet of the recumbent figures.

Instances of crests formed of feathers may be seen in

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Antient Armont,' and in that of Sir John Harsick, t. Richard 11., 1.176, in plate xxxvi. of the same work: and many such occur in the illuminations to the contemporary manuscripts of Froissart's Chronicle. The custom of con-ferring creats as distinguishing marks seems to have ori-ginated with Edward III., who in 1333 (Rot. Pat. 9 Ed-ward III.) granted one to William Montacute, earl of Salisthere grant in the 13th of the same king (Rot. Vasc. 13 Kdw. 111. m. 4.), the grant of this crest was made hereditary, and the manor of Wodeton given in addition to sup-

Port its dignity.

CREST. [DROSER, Department.]

CRESTED DOGSTAIL GRASS. [CYNOSURUS.]

CRETACEOUS GROUP, in Geology, consists of the upper strata of the secondary \* series immediately below the tertiary series and superincumbent on the Wealden, or where that is wanting, on the colitic system. This group is common to Europe, and also to at least a part of Asia. It consists of chalk resting upon either an arenaceous or argillaceous deposit. The chalk bears a remarkably uni-form mineralogical character over a surface extending from the British islands through northern France, northern Germany, Denmark, and Sweden, into both European and Asiatic Russia. (De La Beche, Res. in Theor. Geol.) The cretaceous system is subdivided into the following strata:—

The area over which this system prevails in England, and the various strata which it contains, have been well defined by geologists. The following article is chiefly abstracted from a valuable paper on the subject inserted by Dr. Fitton in the Geological Transactions, 2nd series,

vol. iv. p. 2. pp. 103—388.

The Cretaceous Group occupies nearly the whole of the south-eastern part of England: a line drawn from Crewkerne on the S.W. to Hunstanton on the N.E. forms its western boundary, and it extends from this line to the east coast, with the exception of a small part on the S.E. The same formation appears to prevail in the north of France, extending to the cretaceous district of Aix-la-Chapelle. The chalk, or upper portion of the system, is, in some parts, covered with the strata of the tertiary series; in other parts it is denuded. The green-sand crops out round its edge, which is broken and interrupted in many places where the

lower strata appear.
On the N.K. the chalk appears in a narrower belt along the chiff from near Cromer to Hunstanton. From Cromer along the coast to the mouth of the Thames, and along the north bank of that river, it is concealed by the upper strata.

which extend a considerable distance inland.

Beginning with Norfolk and processing southwards, the boundary line between the chalk and the superior strata. is about four nucles east of Specialism, two miles west of these eight unless just of M kienhall, between four and five west of Bory St. Kinneds, continuing to the north-east of Heritordshow by the oral and near St. Albans to three united with one of West long.

In the neithern part of the district the chalk has in a the places been partedly demaded. On the north-east there is a small passe of chalk along the banks of the Bure. The town of Normali also stands upon chalk, which, in its vicinote, extends along the banks of the Yare and Wensum. There is a proceed thatk likewise at each side of small parts of the Stom and of the Orwell. The strata superincumbent on the chalk series extend a little beyond Uxbridge on the west, and then run in a narrow tengue to the northwest, three miles south of Wendover, which intervening space at that point is the whole width of the denuded chalk, Wendover being there its western limit. The chalk becomes wider towards the south-cast, taking in Maidenhead it is again partially covered a little to the west of that place, and continues in a very uneven line to Reading, Newbury, and a little to the cost of Marlborough. The tertiary strata then run from west to cast by Kingsclere, Basingstoke, thuldford, to three miles north of Dorking, round by the

Darent, and appears near Woolwich and Greenwich. An other detached portion appears in the north-west of Kent, taking in the Isle of Sheppey, and continues from the sestuary of the Medway along the coast to the Isle of Thanet. The chalk is covered on the west and north of Canterbury and at Sandwich; the beds which cover it terminate on the coast at Deal. On the south coast, from Worthing westward, the chalk is again concealed by the superincumbent series, extending nearly in a straight line through Chichester as far as a little to the east of Salisbury; it then continues in a south-west direction nearly as far as Dorchester. The chalk passes entirely across the Isle of Wight nearly from cast to west, in a narrow ridge consisting of vertical strata, from Culver Cliff to Compton Bay; there is also a small piece on the south of the island. The limits of the chalk on the other side, where it is bounded by the outcropping of the lower strata of the system, remain to be noticed. The cliffs of the whole of the Isle of Thanet are composed of chalk. The chalk cliffs again commence near Deal, and are continued past Dover to East Weare Bay, a distance of about thirteen miles. As the chalk rises from Dover towards Folkstone the upper beds disappear, and the cliffs consist entirely of the lower members of that stratum. The rise of the marly chalk occurs about a mile and a half to the east of the escarpment of Folkstone hill, which is 566 feet high. Just at the rise of this bed there is a very copious and perennial spring called Lydden Spout. About two thousand paces rest of this spring the cliff recedes from the sea, and the intermediate shore thence to Copt Point is occupied by a mass of ruins which has fallen from above. The sudden transition from the chalk cliffs is very remarkable. Turning inland the chalk range is bounded on the south by the outcrop of the green-sand strata, which extend four miles north of Ashford, three miles north of Maidstone, and is cut by the Medway, whence it forms a line curving outward to the south as far as the Darent, where it is five miles north of Sevenoaks. Merstham is on the boundary, which then continues in nearly a west direction, immediately north of Reigate, to Box Hill, near Dorking, and thence to Guildford, leaving a very narrow ridge of chalk. From Guildford to a point about two miles from Farnham there is a remarkable ridge called the 'Hog's-back,' produced by an up-throw of the chalk and the breaking off of the southern portion of the curve. The coast between Copt Point and Beachy Head, near these respective points, is occupied on each side by the green-sand, and the intermediate space by the Wealden clay and Hastings sand: the two latter do not belong to this series, being lower denuded strata. The Sussex chalk range, or South Downs, commences at Eastbourne, near Beachy Head, and continues thence along the coast beyond Shoreham and onwards in a west-by-north direction. The green-sand bounds it on the north, and leaves a range of chalk varying from eight to three miles in breadth. About three miles south-west of Petersfield the green-sand again sinks below the chalk, which is connected with the north range by the Alton chalk-hills, running from near Farnham to near Butser Hill (917 feet).

It now remains to define the boundary of the chalk from Dorsetshire on the south-west to Norfolk on the north-east. Part of it is thus described by Dr. Fitton: The great range of the chalk escarpment in the in-terior of England, which stretches like the shore of a sea or lake from Crewkerne in Dorsetshire to the northeast of Dunstable in Bedfordshire, is perfectly analogous in structure and appearance to the Downs of Surrey and Sussex. It is interrupted by three or four indentations or gulfs; one of great width, opening towards the west be-tween Crewkerne and the heights about Stourhead, in tween Crewkerne and the heights about Stourhead, in South Wiltshire; another expanding to the north-west, and terminating in the defile where the Thames cuts through the chalk in its way to the south-east from Buckinghamshire and Oxfordshire. The vales of Pewsey and of Warminster are intermediate bays of the same general structure, but of smaller dimensions; and all these valleys are apparently the result of denudation, aided by previous disturbance of the strata, which has carried away the chalk and laid bare to various depths the strata beneath it.' (God. Tran., 2nd series, vol. iv. part 2nd., p. 243.) From the heights near Dunstable, the upper chalk range passes through the north-west of Hertfordshire, by Hitchin and Baldock, to Barkway and Royston Downs, and thence by Balsham and Newmarket into Suffolk by Mildenball, two miles west of Brandon, four west of Downham, by Nar-

<sup>•</sup> These terms are now considered objectionable by geologists, as not truly adjusting the different series; but since they are still commonly thus discountsion, it has been thought advisably to slopt the same classification one.

Jacophia and on the fluctuations. The shall belief declines are consistent to the fluctuations. Name of the control of the con the cosk around them, so that they taxe been very renormality and the state of the control of th



harman decumb, and thence s err agner at Mil-There is the to Head TESISTS If a smooth. rea wour, which is To Dout the gaust, as a ron pyrites are III mases. =: .s about 130 feet. wit 5: near Thame 90. 's cur ('eet. Mr. Ro-e

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...... are surand at Boughton, to the south section is stone for the construction of Westin n-- as Senten ing. From Adlington Corner on a bre l 1 50.72. In the coast the distance from the in Amain to the outerop it is not in re language. Sevenoaks, Godstone, Reigate, and the lower green-said a and the second school of the middle stratum occurs; the course from then rise to form the mount il.... vincia is nearly on a level as as more he hill, the beds, which are something thrown up to about 45°, are something thrown up to about 45°, are seen an elevation from the chalk, or serve as an elevation from the chalk, or are served as a present the serve long period; at present the serve long period; at present the serve long period; at the serve long period is a long of the lon - - - cour her the top of the lowest stratum of n one at near Numbeld the principal bed of at a second these. On the south of the Hog'se. 1201 hen, being bent suddenly in an opposite directis a tunued several males to the south. Hindhead is the ness pranament point in this part of the country, where the article tract occupied by the lower green-sand is will be a supported by the lower green-sand is will be a supported by the lower green-sand is will be a supported by the lower green sand is will be a supported by the lower green sand is will be a supported by the lower green sand in which is the supported by the lower green sand in the supported by the lower green sand is will be a supported by the lower green sand in the supported by th The Active that the mark occupied by the lower green-sand is will a district, producing only term, heath, and farze. District the part, main road from London to Portsmouth, it is difficult assertanced, to believe that we are only forty miles distant from the

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rapidity poll achievy is one of the older again statistics in manufact the ampliery but the water of thesal differentially provenue, improvement, and it is out improbably that the first line of research for summaries on such as the continued of the control of t

mented by the waters of the Gazine and Brisentine): but neither of these streams is navigable, nor does the Creuse itself become so during the whole of its long course of from 130 to 140 miles, nearly 50 of which are within this department. It falls into the Vienne, a feeder of the Loire. The Cher, one of the principal feeders of the Loire, rises in the eastern part of the department, also the Tardes, a tributary of the Cher. On the western side of the department we have the Gartempe, the principal feeder of the Creuse (but which does not join that river until long after it has quitted the department), and the Ardour, an affluent of the Gartempe. On the south-western side there are the Maude and the Thorion, tributaries of the Vienne; and the Villeneuve, the Leyrenne, and the Visge, feeders of the Thorion. Most of the rivers which water the department on the W. and S.W. rise on the W.S.W. slope of the chain of hills which bounds the valley of the Creuse. There are small lakes at the head of the Gazine and of the Ardour.

Beside being destitute of all means of water-carriage, the department possesses very little facility for communication by land. No road of the first class touches the department at all, nor is there any of the second class, except on the west side, where about four miles of the road from Paris to Limoges are within the boundary. Of roads of the third class there are several which unite at Gueret, one from La Châtre (department of Indre); one from Dorat, and one from Limoges, (both in the department of Haute Vienne); the latter unites at Bourganeuf with one from Uzerche (department of Corrèse); one from Clermon: Ferraud (department of Puy de Dôme): and one from Montiucon (deartment of Allier): a road of the same class leads from Aubusson to Bourganeuf, and another from Aubusson to

The soil of the department of Creuse is very inferior, and s with the want of the means of communication to reduce the value of the land very far below the average of France. The produce in corn (wheat, rye, barley, and oats) is small; and there is no wine made: the country is not well wooded, but there is good pasturage, in which a quantity of horned cattle and sheep (especially the latter) are fed. The mineral productions of the department have not been sufficiently attended to: there are four places in which antimony is bound, but in only two have any mining operations been carried on: the coal-pits in the valley of the Creuse base been very madequately worked; the iron ore has been neglected, and there is sandstone which would make grand-tones, and grante and porphyry for building, or for ornamental works. The inhabitants are industrious, but the low rate of wages and the want of employment at home induces many to seek work in other parts. The love of their mative soil however leads most of these emigrants to return home with the fruit of their labours, and purchase a patch of land, in the cultivation of which and in the bosom of their families they spend their days. These emigrants amount to about 23,000 or 24,000 yearly, about 1 m 11 of the whole population: they are mostly mechanics. Of the emigrants in the year 1523, 13,427 were bricklayers and material 1962 stone-cutter, 1942 curpenters, 1547 sawyers. 914 tilere and slaters, wil that and hemp dressers, 802 tilemakers, o45 pariers, 90 farrers, 63 plasterers, and 45 minors. The chief manufactures carried on in the department are of carpets, which are in both repute; paper, which is also in high estimation, and cotton and woollen parn. Authorson is the chief seat of the carpet manufacture.

The department is divided into four arrondissements. the department is divided into four arrondissements, that of Guerot on the N.W., population in 1832, 89,513; that of Rousses on the N.K., population 36,738; that of Rousses on the S.W., population 37,963; and that of Aubussem on the S.W., population 101,168. The chief towns are Guerot, the capital, on the hills which skirt the value of the Creme on the W.S.W. side, population 3100 and the the tenton of the Creme on the W.S.W. side, population 3100 and the tenton of the Creme on the W.S.W. Re the town, or 1971 for the whole commune; and Aubusin the whole commune. For those towns, as well as for thoughness and stonesse, the other capitals of arrondissemonth, no tolor to their respective articles. Of the other tunna we subjoin a brief notice.

Follotin is on the Creuse, near its source, and not far from Aubusaun. It had, in 1832, 2816 inhabitants for the town, or 1830 for the whole conducts. About 300 people town, or 1830 for the whole conducts. are completed in the carpet manufacture, in which this town almost titule Aubunson. Course woollen cloths and paper nio almi maile.

La Souterraine is near the source of the Sedelle, on the road from Dorat (Haute Vienne) to Guéret. The population in 1832 was 1647 for the town, or 2921 for the whole com-The inhabitants are engaged in the manufacture of coarse hempen cloth.

Ahun, or Le Moutier (i.e. Monastère) d'Ahun, is on the banks of the Creuse, between Aubusson and Guéret: it has about 2000 inhabitants, who manufacture woollen cloth. Ahun and Le Moutier d'Ahun were originally distinct, the former being on the summit of a hill near the river, the latter at the foot of the hill and on the bank of the river. Ahun was known to the Romans by the name of Acitodunum, which name appears in the Theodosiau Table: in the middle ages (A.D. 997) the name appears, by the title deeds of the foundation of the abbey of Le Moutier d'Ahun, to have been shortened into Agedunum, from whence, by corruption, the modern name Ahun. Le Moutier d'Ahun derives its name from an abbey of the Benedictine order, and of the congregation of Cluny, the importance of which is indicated by the buildings and gardens which yet remain: the Conventual Church is still the resort of numerous pilgrims on the festival of St. Roch,

The other towns are, in the arrondissement of Grieret, St. Vaulry, on the road from Dorat to Guerat, with the bourgs of Bonat on the Petite Creuse, Dun-le-Palleteau, near the Bresentine, and Salagnac and La Chapelle, on the Gartempe: in the arrondissement of Bourganeut, Benévent, near the Ardour: in the arrondissement of Boussac, Gouzon, on the road from Gueret to Montluçon, Chambon on the Tardes, and Jarnaye, with the bourg of Châtelus: in the arrondissement of Aubusson, Auzance near the Cher, Kvaux near the Chacrot, and Chenerailles, on the Voulse, a feeder of the Pontchauseau, with the bourgs of Mainsac, Crocq (on the Tardes), Bellegarde and La Courtine. None of these have a population of 1500 for the town or 3000 for the whole commun

The department of Creuse is in the diocese of Limoges, which includes also the department of Haute Vienne: the bishop is a suffragan of the archbishop of Bourges. It is in the jurisdiction of the Cour Royale, or high court of justice of Limoges, and in the fifteenth military division, of which the head-quarters are at Bourges. It sends three members

to the Chamber of Deputies.

CREU'SIA. [CURRIPRIA.]

CREUTZ (Croat. Körös-Varmegye), a county in Croatia, adjoining south and east to the Hungarian counties of Agram and Warasdin. It has an area of about 640 square miles, and the soil under cultivation consists of about 320,500 acres, of which about 143,500 are arable land, and 31,800 vineyards. The population amounts to about 77,500. It contains 2 towns, I market town, 266 villages, and 4 prædia or privileged settlements. The county is mountainous and full of woods. It is watererd by the Drave, Glogovnicza, Bednya, and Lesna; the lowlands are fertile, producing corn, maire, tobacco, fruit, &c., and affording good pasture for cattle. Creutz, the chief town, in 46° 1' N. lat. and 16° 32' E. long., lies in a plain, on the Glogovnicza, and is surrounded by old ramparts. It contains 637 houses and about 3100 inhabitants, and has two churches and a highschool, as well as a Grzeco-Catholic ecclesinstical seminary. It is the seat of a Græco-Catholic bishopric and chapter The other town in this county is Kaproneza, in a plain on the river of that name, in 46° 10′ N. lat. and 16° 49′ E. long the fiver of that hand, in 40 M. Internal to 45 
of Coblenz, bounded by the Rhine and Nassau on the north-east, the grand-duchy of Hesse-Darmstadt on the east, and the Rhenish possessions of Bavaria on the south. Its area is about 200 square miles; it is very hilly in the north-west, where it is traversed by the Hundsrück, but the remainder of the country abounds in pleasant and wellwatered valleys. In the south and east it is watered by the Nahe and Simmerbach. The soil is in general fertile, and produces grain, wine, very fine flax, hemp, rape, and clover seed, potntoes, and fruit. Of the land under cultivation nearly 90,000 acres are arable, and the vineyards occupy about 5500. The population, which was 30,685 in 1816, and 45,754 in 1825, amounted to 47,689 in 1831. Creusnach has four towns (Creusnach about 7900; Sobernheim, 2300; Kirn, 1750; and Stromberg, 940), and seventy-nine

villages and hamlets. Great numbers of cattle are reared; the mineral productions are freestone, marble, salt, and

CREUZNACH, the chief town, is situated on both banks of the Nahe, which is here traversed by a stone bridge, in the bosom of a rich and delightful country, 49° 51' N. lat., and 7° 53' E. long. It is supposed to have been the site of a Roman castrum. It is built in the old style, without any regular plan, and the streets are narrow and crooked; it has two Roman Catholic and two Protestant churches, a synagogue, gymnasium, and hospital. The number of inhabitants was 6506 in 1816, and is at present about 7900. They depend on the traffic in grain, vine, cattle, salt, flax, &c., and on their manufactures, which are chiefly leather, brandy, tobacco, and soap. There are three salt works close to the town; the 'Theodore's,' and 'Carl's Halle,' belonging to the grand-duke of Hesso, and the 'Münster-halle,' to a society at Frankfort; all of them lie on the banks of the Nahe. The Theodorshalle employs about eighty individuals, and produces annually that the sale three weeks with the sale three weeks were well as the weeks were well as the sale three well as the sale three well as the well as the sale three well as three well as the sale three well as three well as the sale three well as three well as the sale three well as three well as the sale three well as the sale three about 1500 tons of fine salt; the other two works yield about 500 more. About two miles from Creuznach is the the celebrated burgh of the Rhinegraves of Stein, hence called the Rheingrafenstein; the few remains of this stronghold are situated on a rock of porphyry, which rises 600 feet perpendicularly above the surface of the Nahe, and commands a splendid view In the vicinity of Creuznach also are the ruins of the 'Ebernburg,' on the left bank of the Alsenz, in which Bucer, (Reolampadius, and Ulrich von Hütten, with other reformers, were afforded an asylum against their persecutors by Francis of Sickingen.

CREVIER, JEAN BAPTISTE, born at Paris in 1693, as the son of a journeyman printer. He studied under Rollin, and afterwards became professor of rhetoric in the college of Beauvais. After Rollin's death he undertook to continue his 'Roman History,' of which he wrote eight volumes. He is less diffuse and digressive than his master, though not so pleasing in his style of com-position. He also published an edition of Livy, in 6 vols., 4to., 1748, with notes. The work by which he is best known is 'Histoire des Empereurs Romains jusqu'à Constantin', 6 vols., 4to., Paris, 1756. The author has scrupulously adhered to the antient authorities in the statement of facts, but his narrative is rather deficient in interest and Though not a critical work, nor entitled to a high rank, it is still a useful compilation. Crévier wrote also Histoire de l'Université de Paris, 7 vols., 12mo., 1761, which is in great measure an abridgment of the larger work of Egasse du Boulay; and 'Rhétorique Française,' 1765, a rood work, which has been frequently reprinted. Crévier lied at Paris in December, 1765. He bore an excellent private character

CREWKERNE. [SOMERSETSHIRE.]
CRICETUS. [MURIDÆ.]
CRICHTON, JAMES, commonly called 'The Adnirable,' son of Robert Crichton of Eliock, who was Lord Advocate to King James VI., was born in Scotland in the year 1561. The precise place of his birth is not mentioned, but he received the best part of his education at St. Anlrew's, at that time the most celebrated seminary in Scotand, where the illustrious Buchanan was one of his mas-At the early age of fourteen he took his degree of Master of Arts, and was considered a prodigy not only in ibilities but in actual attainments. It was the custom of he times for Scotchmen of birth to finish their education broad, and serve in some foreign army previously to enter-ng that of their own country. When he was only sixteen ng that of their own country. When he was only sixteen or seventeen years old (the date cannot be fixed), Crichton's ather sent him to the Continent. He had scarcely arrived n Paris, which, whatever may have been its learning, was then a gay and splendid city, famous for jousting, fencing, and dancing, when he publicly challenged all scholars and philosophers to a disputation at the College of Navarre, to be carried on in any one of twelve specified languages, 'in any science, liberal art, discipline, or faculty, whether practical or theoretic, and, as if to show in how little need he stood of preparation, or how lightly he held his adversaries, he spent the six weeks that elapsed between the challenge and the contest in a continual round of tilting, hunting, and dancing. On the appointed day, however, he is said to have encountered all 'the gravest philosophers and divines,' to have acquitted himself to the astonishment of all who heard him, and to have received the public praises of the

president, and four of the most eminent professors. The very next day he appeared at a tilting-match in the Louvre. very next day he appeared at a tilting-match in the Louvre, and carried off the ring from all his accomplished and experienced competitors. Enthusiasm was now at its height, particularly among the ladies of the court, and from the versatility of his talents, his youth, the gracefulness of his manners, and the beauty of his person, he was named L'Admirable. After serving two years in the army of Henry III., who was engaged in a civil war with his Huguenot or Protestant subjects, Crichton repaired to Italy, and repeated at Rome, in the presence of the pope and cardinals, the literary challenge and triumph that had gained dinals, the literary challenge and triumph that had gained him so much honour in Paris. From Rome he went to Venice, at which gay city he arrived in a depressed state of spirits. None of his Scottish biographers are very willing to acknowledge the fact, but it appears quite certain that, spite of his noble birth and connexions, he was miserably poor, and became for some time dependent on the bounty and patronage of a Venetian printer—the celebrated Aldus Manutius. After a residence of four months at Venice, where his learning, engaging manners, and various accounplishments excited universal wonder, as is made evident by several Italian writers who were living at the time, and whose lives of him were published, Crichton went to the neighbouring city of Padua, in the learned university of which he reaped fresh honours by Latin poetry, scho-lastic disputation, an exposition of the errors of Aristotle and his commentators, and (as a playful wind-up of the day's labour) a declamation upon the happiness of ignorance. Another day was fixed for a public disputation in the palace of the bishop of Padua, but this being prevented from taking place, gave some incredulous or envious men the opportunity of asserting that Crichton was a literary impostor, whose acquirements were totally superficial. His reply was a public challenge—the contest, which included the Aristotelian and Platonic philosophies, and the mathematics of the time, was prolonged during three days, before an innumerable concourse of people. His friend Aldus Manutius, who was present at what he calls 'this miraculous encounter,' says he proved completely victorious, and that he was honoured by such a rapture of applause as was never before honored. before heard.

Crichton's journeying from university to university to stick up challenges on church-doors and college-pillars, though it is said to have been in accordance with customs not then obsolete, certainly attracted some ridicule among the Italians, for Boccalini, after quoting one of his placards, in which he announces his arrival and his readiness to dispute extemporaneously on all subjects, says that a wit wrote under it, 'and whosoever wishes to see him, let him go to the Falcon inn, where he will be shown,' which is the formula used by showmen for the exhibition of a wild beast, or

any other monster. (Ragguagli di Parnasso.)
We next hear of Crichton at Mantua, and as the hero of a combat more tragical than those carried on by the tongue or pen. A certain Italian gentleman 'of a mighty, able, nimble, and vigorous body, but by nature fierce, cruel, warlike, and audacious, and superlatively expert and dexterous in the use of his weapon, was in the habit of going from one city to another to challenge men to fight with cold steel, just as Crichton did to challenge them to scholastic combats. This itinerant gladiator, who had marked his way through Italy with blood, had just arrived in Mantua, and killed three young men, the best swordsmen of that city. By universal consent the Italians were the ablest masters of fence in Europe; a reputation to which they seem still entitled. To encounter a victor among such masters was a stretch of courage, but Crichton, who had studied the sword from his youth, and who had probably improved himself in the use of the rapier in Italy, did not hesitate to challenge the redoubtable bravo. They fought: the young Scotchman was victorious, and the Italian left dead on the spot.

Soon after this the sovereign duke of Mantua engaged

Crichton as companion or preceptor to his son Vincenzo Gonzaga, a young man who, according to Muratori, had shown a strong inclination for literature, but who was other-

the testimonials of undoubted and extreme admiration of several distinguished Italian authors, who were his contemporaries and associates. As he was returning one night from the house of his mistress, and playing and singing as he walked (for he was an accomplished musician), he was attacked by several armed men in masks. One of these attacked by several armed men in masks. One of these he disarmed and seized: the rest took to flight. Upon unmasking his captive he discovered the features of the prince of Mantua. He instantly dropped upon one knee, and presented his sword to his master, who, inflamed by revenge, and, it is supposed, by jealousy, took the weapon and ran him through the body. Some contemporary accounts attribute his death to an accidental midnight brawl, others attribute his death to an accidental midnight brawl, others to a premeditated plan of assassination, but all seem to agree that he fell by the hand of the prince; and a belief, or a popular superstition, prevailed in Italy, that the calamities which befel the house of Gonzaga shortly after were judgments of the Almighty for that foul murder.

Such appear to be the well authenticated points of a wonderful story, that has often been doubted, not only in marks, but almost alterather. It has however been elevated

parts, but almost altogether. It has however been cleared up of late years by the industry and research of Mr. Patrick Fraser Tytler, who produces a mass of contemporary or nearly contemporary evidence. (Life of James Crichton of Cluny, commonly called the Admirable Crichton; with

an Appendix of Original Papers, 1 vol. 8vo. Edinb. 1819.)
CRICKET, an English game of strength and activity.
Formerly it was almost confined to the southern counties: Kent, Sussex, and Surrey more especially, have always been famous for skill in it. Of late years it has spread a good deal in the northern quarter of the island, notwithstanding the obstacles opposed by a wet cold climate, and the general unevenuess of the ground. The rules are at once too well known and too complicated to be here explained; they are subject to variations at the pleasure of the Marylebone Club, which meets at Lord's Cricket Ground, St. John's Wood. The laws and decisions of that society are recognised by cricket-players in general, in the same way that the authority of the Jockey Club is held definitive in questions relating to borse-racing. This, which might be called our national game, has long been, and still is, cultivated with much zeal and pride: it is, we believe, of English origin, and played, almost exclusively, by the British, who have carried it into many parts of the world where the climate seems little suited to the exertion which it requires;

CRICKHOWRLL. [BRECKNOCKSHIRE.]
CRICKLADE, a market and borough town in the northern extremity of the county of Wilts, in the hundred of Cricklade. The population, in 1831, was 1506. It is situated in a level tract of country, on the south bank of the Isis, 84 miles W.N.W. from London, and 44 N.N.W. from Salisbury. The Thames and Severn canal passes near the town, and a branch canal, which forms a junction between the Wilts and Berkshire canal at Swindon, passes through it. The antiquity of Cricklade appears to be considerable. The name is derived by some writers from the British Cerigwlad, signifying abounding in stones. Others derive it from the Saxon eraces, brook and lachan, to empty, the position being near the junction with the Thames of two small streams, the Churn and the Key. An improbable story is related by several antiquarians respecting the existence of a famous school of antient learning at Cricklade, which on that account was originally called Greeklade; and it is added that the University of Oxford was formed by an emigration of professors and students from this town. Dr. Stukeley, in his 'Itinorary,' considers it to have been a Roman station; but this perhaps is questionable. In subsequent periods, little of instorical interest is recorded, except that in 1016 the town was plundered by Canuto. In the parish of St. John are the remains of a priory founded in the reign of Honry III. (Tanner's Not. Monast.) It is now used in tonements for the poor. There was formerly an endowed flow school, but the endowment is now lost. Two national new sensor, but the endowment is now lost. Two national seducial for girls exist, and a charity, yielding 125% a year from 100 across of land, is appropriated to the apprenticing of poor children. The town consists of two parishes, St. Mary and St. Nampson. St. Mary's church is an antiont setuction, with vestiges of Norman architecture; in the churchy and is a Gothic cross with canopied nickes. The church of Ms. Manuscon is a standard considered addition and white the state of the mountains consists which of Mt. Naturation is a specimen cruciform edifice, and of extensive flats, which may be compared with the private consists at the speciment of Cothic architecture. The tower of the Andes, and sometimes extend several miles, with acceptably sutmounted with parapets and punnacles, and highly casional eminences on them. These mountain-tablelands,

There are two ornamented with niches and pedestals. dissenting chapels, and Sunday schools supported by subscription. Cricklade has returned representatives to par-liament since the reign of Edward I. In consequence of In consequence of some notorious instances of bribery, the elective franchise was extended by 22 Geo. 3, c. 31, to the freeholders of several additional law and the several law a extended by 22 Geo. 3, c. 31, to the freeholders of several ad joining hundreds. (Report of the Cricklade Case, 8vo. 1785) At present the borough is represented by two members, the number of electors is 2268; the bailiff is the returning officer. Petty sessions are held by the magistrates once a month, and a court of requests every third Saturday. The market due is on Saturday and a Six to held set of the second services of the second second services of the second second services of the second services of the second second services of the second sec market-day is on Saturday, and a fair is held on the 21st of September. One in April, for cattle, has been discon tinued.

CRICO'PORA. [MILLEPORIDE.]
CRIME AND PUNISHMENT. [BECCARIA.]
CRIMEA lies between 44° 20' and 46° 10' N. lat., and between 32° 40' and 36° 30' E. long., and forms a part of the Russian government Taurida. Its figure is a quadrilateral, whose sides are respectively directed to the north-east, teral, whose sides are respectively directed to the north-east, north-west, south-west, and south-east, and the angles to the cardinal points. From the eastern point however a peninsula stretches out between the Sea of Azof and the Black Sea, terminating on the shores of the Straits of Yenikale. On three sides the peninsula is enclosed by the Black Sea; on the north-east it is washed by the Sea of Azof. Its area may be about 8600 square miles, which is greater than that of Wales by somewhat more than a is greater than that of Wales by somewhat more than a 1000 square miles. The neck of land by which this peninsula is connected with the continent is about 20 miles long. Towards its northern extremity, at Perecop (called Or-Kapi by the Tartars), it is about 5 miles across. Stratu, who is very accurate in describing this region, estimates it at 40 stadia. At this place there still remains a strong rampart, erected by the Turks, which extends from the Black Sea to the Sivash or Putrid Sea, an arm of the Sea of Azof. It consists of a deep trench, about 12 fathoms wide and 25 feet deep, which is still in good condition, and of a double wall, built of freestone, which however has been somewhat reduced by the effects of time. Five batteries are erected along this line.

Few countries, of equal extent, present a greater variety than the Crimea. The isthmus of Perecop and three-fourths of the peninsula (being the northern part) form an arid plain or steppe, which is occasionally diversified with deeper spots of ground or hollows. The soil varies in with deeper spots or ground or nonows.

quality, but for the most part consists either of sand alone or sand combined with clay.

Towards both seas there are numerous salt-lakes, some of which are from 15 to 20 miles in circuit. They are generally divided from the beach by narrow and low strips of land, and in their neighbourhood the country is of a dry, clayey, and saline nature, resembling the steppes on the Caspian Sea. The plain declines im-perceptibly towards the lakes, and is destitute of water and wood; but in some parts covered with a grass sward. It is

nearly uninhabited.

nearly uninhabited.

Along the south-eastern shores a mountainous tract extends from Cape Khersonese to Kaffa; hence to the Straits of Yenikale it is hilly. The greatest width of this tract is about the middle, where it spreads to the southern banks of the river Salgyr, about 40 miles from the coast; but its mean width does not exceed 20 miles. The whole probably does not cover 2000 square miles. That portion of this region which is to the west of the harbours of Sevastopol and Balaklava forms a peninsula called by the Greeks the Heracleotic Chersonesus, from having been colonized by Heracleotic Chersonesus, from having been colonised by settlers from Heracleia, in Asia Minor. From Cape Khersonese the country gradually rises in a sloping plain, occasionally diversified with hills; the soil is clayey, and in many parts mixed with gravel, and the surface is more or less covered with a dry turf; the higher parts are naked rocks. To the east of Balaklava the heights attain the elevation of mountains, which run like an immense wall from that town to Alushta. The coast here consists of cliffs, generally appears to the surface of the surface is more or less to the surface of the surface o several hundred feet in height, and forming numerous headlands and dreadful precipices. At a distance of from one to two miles from the coast the mountains attain a height of 2000 feet and upwards. From this rapid slope a few torrents descend, the beds of which are filled by heavy rains or the melting of the snow. The summit of the mountains consists of extensive flats, which may be compared with the paramos

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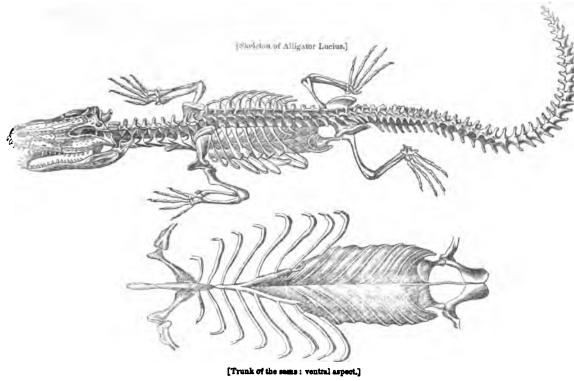
from the first cut in the following page a general know-ledge of the osseous structure of the crocodiles may be derived; and from the second, a fair notion of the external

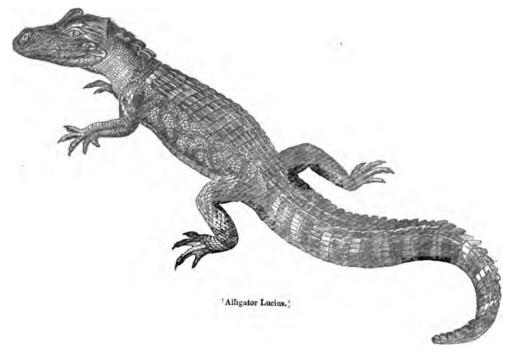
appearance of the adult reptile.

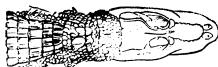
Geographical Distribution.—Of the three genera or subgenera which compose the family, no living species is found in Europe,\* nor has any been yet detected in Australasia. The first of these genera, Alligator, is peculiar to America; the second, Crocodilus, is distributed in the Old and New World; and the third, Garialis, seems to be limited to the Ganges, and the other large rivers of Continental India.

Asia, besides the Gavial of the Ganges, produces at least three true crocodiles, viz., Crocodilus vulgaris, Crocodilus Guleatus, (C. Siamensis, Schneid.; C. Siamensis, Gray) and Crocodilus biporcatus. Siam seems to be the prin cipal, if not the only locality, where the first of these has

Malte Brun (Syst. Geog., vol. vill., p. 192) states, that a crocodile is still pesserved at Lyons that was taken from the Rhone about two conturies ago but as Mr. Lyell observes, no particulars are given







(0) threaf the head and anterior parts of Alligator Lucius seen from above.]

been found; while the other two appear to be natives of these rivers which have their mouths in the Indian Ocean eal the Ganges.

Africa, where neither Caimans (Alligator) nor Gavials have yet been discovered, is the native country of the Crowning a boucher, and Crocodilus vulgaris: it may also be locality of Crocodilus planirostris of Graves and of the (Crocodilus Gravesii, Bory de St. Vincent); and Crowning intermedius of Graves and of Gray (Crocodilus Jacuei, Bory de St. Vincent), though their geographical

position does not seem to be determined: these may perhaps come from the coast of Guinea. The only part of Africa whence the Crocodile à bouclier has been received is Sierra Leone; while Crocodilus vulgaris seems to be spread over the whole of Africa, and is also an inhabitant of Madagascar. Numbers have been taken in the Nile, and one in the river Senegal. (Duméril et Bibron.)

America is most fruitful in crocodiles, and possesses more

America is most fruitful in crocodiles, and possesses more species than Asia and Africa put together, seven in all, viz., five species of Alligator, and two of Crocodilus. True crocodiles have never been detected on the Continent. Crocodilus acutus has been found at Martinique and St. Domingo, and Crocodilus rhombifer at Cuba. The northern part of America is inhabited by one species only, Alligator Lucius, while four species, viz., Alligator palpebrosus, Alligator Sclerops, Alligator punctulatus, and Alligator cynocephalus, inhabit the south. (Duméril et Bibron.)

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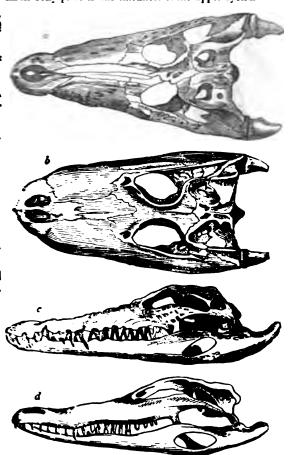
with A ground week they been ble are gene the control as to make a material possing from the same to the first general of which, in a control and habits approxparty words to the court mater consideration.

# Genera Migarit (more than been been red as per 240)

notches of the upper jaw when the mouth is shut, and are not lodged in hollows. The shull behind the eyes has two large oval holes. The hind feet have a dentilated crest on their external border: the intervals of the toes, the external one, at least, are entirely palmated.

Nothing, observe MM. Duméril and Bibron, better dis-

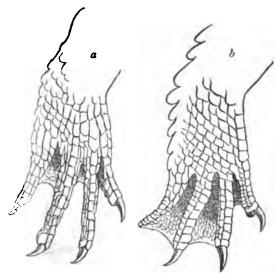
noushes the Crocodiles from the Alligators than the norrares of the muzzle behind the nostrils, a narrowness wh.:n is produced by the deep notch on each side of the typer mandable serving for the passage of the fourth lower to the The Garrials, it is true, have similar notches, which are destined for the same purpose. But at the extremity of the muzzle they have also two others for the reception of the front lower teeth; in lieu of this the front lower teeth in the Crematics pierce the upper mandible through and The horizontal contour of the head of the Croco-2 or recressen's, in general, the figure of an isosceles tran-ze more or less elingated, depending upon the size of the A.V. . . . . . in no case is the muzzle wider than that of the unars. Die more slender than that of the Gavials. County as have, like the former, their jaws festooned, as it were, in their sides, and their teeth unequal, but in less ramiter, because they have never been observed with more than numbers on each side above, and sixteen on each side below. The cranial holes are larger than they are in the in mans, and less wide than they are in the Garrials. Their ameter is always found to be less than that of the orbits. The masal aperture is oval or subcircular. There is a very small body plate in the thickness of the upper cyclid.



a shull of Crocodius vulgaris, seen from above; 5, skull of Alligator Lucius, same view; c, profile of skull of Crocodilus vulgaris; 4, profile of skull of Alligator Lucius.

The same remark, as to the length of the head in proportion to its width at the three principal epochs of life, applies to the Caimans as well as to the Crocodiles. Thus, Thus at the earliest age, it is only a little longer than it is wide: in middle age, its length is about double its width; afterwards, and when the animal may be considered adult, its lon-Proceeding and depress of the front teeth of the long or the long or the long of the long or the lateral faith or seek when which are the long or the lateral faith to seek when which are the long or the lateral faith to seek when which are the long or the lateral faith to seek when which are the long or the lateral faith to seek when which are the long or the lateral faith to seek when when the animal may be considered adult, its longitudinal diameter is only three quarters, or even one half greater than its transversal diameter. The head of the Crescopic than the long of the lateral faith to seek and the rugged in proportion as the animals grow old. If, for example, it offered simple and regularly disposed carinations, these become ramified or divided into insulated protuberances, which completely change the physiognomy that the species presented in its two first ages. This change is

The greater part of the Saurians of this group have the hind toes, the three external ones at least, united to their extremity by a wide natatory membrane. There are indeed some nevertheless in which it is shorter, and one species, Crowdillus chambifus wants the membrane almost entirely ("rorodilus rhombifer, wants the membrane almost entirely, in the interval of the two inner toes. With about two exceptions, all the Crocodiles have the posterior border of the leg furnished with a dentilated crest, formed of flattened scales. The two species which are said not to present this character are Crocodilus Gravesii and Crocodilus rhombifer



s, hind foot of Caimau; b, hind foot of Crocodile.

Only one species among the Crocodiles (Crocodilus cataphractus) has its cervical scales similar, in regard to the extent which they occupy on the neck, to those of the Caimans, that is to say, they form a long band commencing behind the nape and prolonging themselves to the first dorsal plates. In the others, the cervical armour occupies about the middle of the neck, so that there remains before and behind it a considerable space devoid of bony pieces. The scales which cover the sides of the body are flat in some, carinated in others, and there are some which are provided with both sorts. The carinæ springing from the tail-plates to form the crest which surmounts that part, are in general lower, of less consistence, and less stiff than those in the Caimans. Crocodilus rhombifer must however be excepted; for the caudal crest of that species is very low, and, so to speak, osseous.

Merrem appears to be the only herpetologist who has not preserved the name of *Crocodile* (*Crocodilus*) for this family: he has changed the name to *Champse*, the antient Egyptian name (χάμψα), according to Herodotus, for the crocodile, and a word still in common use in that country. Crocodilus is the Latin form of Κροκόδειλος, a name given by the Greeks to a lizard common in Greece: this name, it appears, they afterwards applied to the crocodile of Egypt, when they travelled into that country. (Herodot.,

10. 69.)

Zoologists seem to be agreed in allowing that there is scarcely any genus of Reptiles the species of which are so distinguished from each other as those of Crocodilus. This task, observe MM. Duméril and Bibron, become comparatively easy, thanks to the labours of Cuvier, Geoffroy St. Hilaire, and others, but still all difficulty is not removed. MM. Duméril and Bibron, after extensive examination, as they state, reduce the species to eight; and even of these, they appear to consider some, Crocodilus Gravesii and Crocodilus galeatus, for example, doubtful. We select as an example Crocodilus vulgaris.

Description. Jaws not elongated into a narrow beak. Hind feet largely palmated; and with a festooned crest along their posterior border. Six cervical plates. Dorsal vulgaris

scutcheons or shields quadrangular, and surmounted by six longitudinal rows of carinæ but little elevated.

Syn. Crocodilus amphibius Niloticus, Loch. codite du Nil. Daud. Crocodilus vulgaris, Cuv. Crocodilus vulgaris, Tiedm. Le Crocodile vulgaire, Cuv. The common Crocodile, Griff. Anim. Kingd.



[Nuchal and cervical plates, &c. of Crocodilus vulgaris.]

MM. Duméril and Bibron make four varieties of this species. Our limits will only allow us room for a lengthened description of the first. Variety A. Muzzle a little narrowed, rather flat than arched across, with small hollows and channellings, which are now and then worm-shaped, on its surface. Table of the skull entirely flat. Back green, speckled with black: two or three oblique bands of the last-

speckled with black: two or three oblique bands of the last-mentioned colour on each flank.

Syn. Crocodilus vulgaris, Geoff. Ann. Mus., tom. x. p. 67. Descript. Egyp. (Hist. Nat.) tom. i. p. 8. Atlas, pl. 2, fig. 1, 2. Crocodilus vulgaris, Merr. Amph., p. 37, spec. 9. Crocodilus Chamses, Bory de Saint Vinc., Dict. Clas., tom. v. p. 105. Crocodilus vulgaris, Geoff., Crocod. d'Egypte, p. 159. Crocodilus lacunosus, Geoff., Crocod. d'Egypte, p. 167. Crocodilus vulgaris, Gray, Synops. Rept., part i. p. 57, spec. 1.

Rept, part i. p. 57, spec. 1.

This, as well as the following variety, is that to which those individuals whose jaws are the least narrowed belong. The jaws have not, indeed, the same width in all, but it may be said generally, that their width, when measured at the night warm tooth is only one-seventh of the length of the ninth upper tooth, is only one-seventh of the length of the head measured from the end of the nose to the occiput. The table of the cranium is flat: its form is quadrilateral, but a little wider than it is long, and the anterior border is rather narrower than the posterior border, which is not exactly rectilinear; for it presents two curvatures of the same length, the concavity of which is inside. The postorbito-cranial holes are large and oval: their internal border is somewhat raised into a ridge. The inter-ocular space is hollowed into a sort of gutter. There are some individuals of this variety whose upper mandible presents a nearly flat surface, that is to say, the extreme edge of its contour is the only part which declines towards the lower jaw. It sometimes happens, too, that the mesic-longitudinal region is, for a certain part of its length, slightly concave. The same individuals are, besides, distinguished by having the ridges which form their internal orbital borders continued in front of the eyes so as to form a lozenge-like figure open at its anterior and posterior angles. The mandibular surface is nearly unbroken, or, at most, presents small hollows, considerably like those which are to be seen on the carapace of the Gymnopods or Trionyx. The mummied individual on which M. Geoffroy founded his Crocodilus complanatus, but which MM. Duméril and Bibron regard as being clearly specimens of Crocodilus vulgaris, is remarkable for this condition.

There are other Crocodili vulgares of the variety whose upper jaw is slightly arched across its posterior half, which presents on its mesial and longitudinal region a swelling more or less marked. In these the præorbital ridges are scarcely perceptible, and the inequalities on the surface of their muzzle are produced by numerous hollows, simply longitudinal or vermiculiform. As an example of this group MM. Duméril and Bibron refer to the indivi-dual brought from Egypt by M. Geoffroy, and which both Cuvier and himself have taken as the type of Crocodilus



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ide upper part of the body is of an olive-and with black on the head and neck, and the same evident on the back and tail. Two or Signe black bands show themselves on each constructed the animal are of a greenish-

M. Dumerd and Bibron state that they

have seen eighteen individuals of this variety, from five tentimetres to three metres in length. Those of the indi-There were eight from the latter country and arm ag them were the smallest and the largest of the sense. An ing the Egyptian specimens was that dissected a Carrolly M. Geoffrey, who brought it to the French Mo-Daniel at Pabeon are of opinion was erroneously conlevel by M. Geoffroy as belonging to his Crocedit sure periods (variety C. of MM. Duméril and Bibron); to her, two metres and fifty centimetres in length, on wh.:

M. Geoffroy founded his species Croc. complanatus.

Variety B. Crocodilus palustris. Less. Voy. Ind. or Bell, Zool. Rept. p. 305. Crocodilus vulgaris, Var. E. Gray, Synops. Rept., p. 58.

Variety C. Crocodilus marginatus. Geoff. Croc. d'Egyrer.
p. 165. Crocodilus vulgaris, Var. B. Gray, Synops. Rep.,

Variety D. Body clongated, slender. Jaws very mail narrowed; the upper jaw slightly arched transvers... Chanfrein elevated; surface of the upper mandible somewhat embosed as it were. Cranial region perfectly its Carinæ of the two mesio-longitudinal series a little lower than the others, and also more approximated. Upper prosprinkled with black angular stains. Syn. Crocede is

complanatus, Crocodilus Suchus, Geoff.

It may be expected that we should notice the antict history of an animal held sacred by the Egyptians and even elevated by them to the rank of a deity, for it was certain one of the symbols of Typhon. Herodotus, Aristotle, Dodorus, Strabo, and Plutarch, will be read with interest on this subject. While it was worshipped in one part of this subject. While it was worshipped in one part of Egypt under the name of Suchus or Souchis, it was eaten at Elephantine. Cuvier observes that the term X or Souchis, many applied to the sacred individual, a Apis, Mnevis, and Pacis were appellations of the detect bulls of Memphis, Heliopolis, and Hermonthis respectively, and not intended to designate mercentages. and not intended to designate particular races of even Geoffroy St. Hilaire is of a different opinion from Cuver. who considered that Champsa\*, as used by Herodotus, was not applied by that historian to the locality of Elephant. alone, nor to any particular species. Geoffroy observes that the crocodile still bears in Egypt the name of Temen, who M. Champollion thought he recognized upon many paper as mshah, a word which he regards as formed of the preparation 'm,' in,' and the substantive 'sah' 'egg.' With regard to the Suchus, M. Champollion, the younger, states that the Egyptians gave the name of Souk to a deity which they represented as a man with a crocodile's head. We refer those who wish to follow out this part of the subject more especially to the antient authors above mentioned, to M. Geoffroy St. Hilaire, to Cuvier, and to the interesting work lately published on Egyptian antiquities as part of the 'Library of Entertaining Knowledge,' observing only that the Egyptians ornamented their tame crocodiles by hanging rings of gold and precious stones in the open in of their ears, which they pierced for the purpose, adoracl their foreseet with bracelets, and presented them in the finery to the veneration of the people. They also sed than well. Cake, roast-meat, and mulled wine were occasionly 

Tare very harrow, very man h cloughted forming a sort of entropilitations hank. From notation in the appearance, Adds, in which are reserved the first and the fourth of the

of subsylladician local. For abolics in the apper many while, in which are reserved the first and the fourth of the lower tests.

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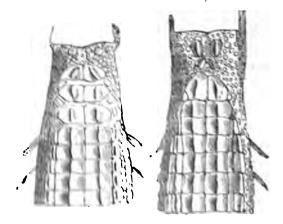
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The external orifice of the nostrils opens on the upper side of the beak, at a small distance from its terminal border. The aperture is semilunar, at the bottom of which may be perceived a cartilaginous plate, which divides it longitudinally in two. The edges of this opening form two lips, which appear to have the power of approaching each other, so as to close the aperture hermetically. The anterior of these is curvilinear, and the posterior rectilinear: in the females and in young subjects they are very delicate and quite soft; but in the old males the anterior lip not only arrives at a cartilaginous consistence, but a development that carries it backwards as far as the seventh pair of teeth, and triples the thickness of the muzzle. This pouch or cartilaginous sac, with two compartments, is of a sub-aval form, and is notched behind so as to form two very thick rounded lobes. Above these is, on the mesial line and in front, a cordiform prominence, on each side of which is a deep fold in the form of the letter S. This sac has its opening, which is common to it and the nostrils, below. This apparatus is the nasal purse or pouch (Bourse nusale) of M. Geoffroy, and in his opinion performs the office of a reservoir of air for the animal when plunged beneath the surface of the water.

The anterior limb is nearly one-half longer than that part of the body which lies between the anterior and posterior limbs of the same side. The hinder limb is about two-thirds of the same interval. The third toe is longest in all the feet. The three middle toes of the fore foot are united at their base by a very short membrane: the other two toes are free, as well as the first toe of the posterior feet; but the second, third, and fourth of these last, are united by a thick membrane with a free border, which is notched as it were semicircularly between the toes. The

nails are slightly arched.

The nape supports two strong scutcheons, surmounted by a carina, more compressed behind than it is before. Their form is oval, and their height nearly equal to their width. There is sometimes a small scutcheon on each side of these. This is the case in one of the largest individuals; viz., that described by Lacepède, and figured by Fanjas de Saint-Fond in his 'History of St. Peter's Mountain,' at Maes-Fond in his 'History of St. Peter's aroundam, as aroundam, tricht. The cervical scutcheons, to the number of four pairs, form a longitudinal band, which extends from twothirds of the length of the neck to the dorsal shield. The two first are triangular, the six others quadrilateral. Each of them have a longitudinal carina on their mesial line, and there is a large scale on the left and on the right of the last pair.



[ Nucleal and sort tool plates, &c., of two individuals of Garialia Gangelieus from Curton :

The upper part of the body is transversely cut by uts bloom bounds of mesome plates, with equal correct, which manquently form from longitudinal rowall down the back. The plates of the two lateral rows are squared and rather amuller than those of the meant rous, which are also foursided but their hongitudinal diameter is less than their

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in different individuals. The dentilated crest does not be come very perceptible till towards the sixth or seventh circle: its double portion terminates at the eighteenth or nineteenth. This crest is highest towards the middle of the tail, elsewhere it is delicate and flexible. The scales which clothe the lower parts of the body are quadrilateral, oblong, and perfectly smooth: there are nearly zixty transverse rows from the chin to the vent, and, like those of the flanks. they are all pierced with a small pore on the middle of their posterior border.

The limbs are protected above with rhomboidal scales: The limbs are protected above with rhomboidal scales: the anterior limbs on their external edge; the posterior limbs, from the hock (jarret) to the little toe, have a row forming a serrated edge. The surface of the natatory membranes is covered with granulous scales.

Colour. The ground colour of the upper parts is a deep water green, on which are often scattered numerous oblong.

irregular, brown spots. In young subjects, the back and limbs are transversely banded with black. The lower region of the body is very pale yellow, or whitish. The jaws are sprinkled with brown. The nails are of a clear horn-colour. (Duméril and Bibron.)

The Gavial of the Ganges is supposed to be the largest of the living Saurians. The measurement of the largest mentioned by MM. Duméril and Bibron is given at five metre-

forty centimetres.

Cuvier was led to think, principally from the figures published by Faujas de Saint Fond, that there was more than one species of Gavial, and on subsequent inquiry, distinguished two, the Great Gavial and the Little Gavial; but he was afterwards satisfied from the examination of numerous specimens that age alone made the difference between them.

#### Fossil Crocodilides.

'In the living subgenera of the Crocodilean family,' observes Dr. Buckland (Bridgewater Treatise, p. 250), 'we see the elongated and slender beak of the Gavial of the Ganges, constructed to feed on fishes; whilst the shorter and stronger snout of the broad-nosed Crocodiles and Alligators, gives them the power of soizing and devouring quadrupeds that come to the banks of rivers in hot countries to drink. As there were scarcely any mammalia during the secondary periods, whilst the waters were abundantly stored with fishes, we might, à priori, expect that if nearly stored with isnes, we might, a prior, expect that if any Crocodilean forms had then existed, they would most nearly have resembled the modern Gavial. And we have hitherto found only those genera which have elongated beaks, in formations anterior to and including the chalk; whilst true Crocodiles, with a short and broad shout like that of the Campan and the Alligneton appear for the feet. that of the Cayman and the Alligator, appear for the first time in strata of the tertiary periods, in which the remains of mammalia abound.

In accordance with this view, we proceed to give examples of the long-beaked division, which, while it bear a strong resemblance to the living Gavial in the form of the head and jaws, will be found to differ materially from it in

some particulars.

The genus Steneosaurus of Geoffroy St. Hilaire appears to come the nearest in its conformation to the living Garral. and a general idea of the structure of the muzzle and anterior nasal aperture will be derived from the following cut of a specimen from Havre \*;

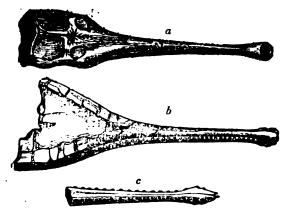


[Muzzle of Steneosaurus from Dr. Buckland, who quotes De la Beche."

whilst, in Teleosaurus, Geoff., though there is considerable similarity in the general contour of the head and jaws, the conformation of the muzzle and nasal aperture is very different from that of the living saurian, the anterior termination of that aperture forming almost a vertical section of the extremity of the upper mandible.

As an example of the more Crocodilean form, we select the cranium and the upper mandible of a specimen from the London clay of the Isle of Sheppey, figured also by Dr. Buckland in his Bridgewater treatise.

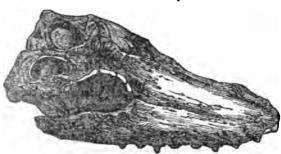
\* Dr. Buckland states that the same species occurs in the Kimmet side elsy of Shotover Hill near Oxford.



[Teleosaurus Chapmanni. a, head seen from above; b, head of another individual of the same species seen from below, showing the lower jaw; locality of both, Lias in the neighbourhood of Whitby: c, inside view of anterior extremity of lower jaw. Locality, Great Oolite at Enslow near Woodstock, Oxon. From Dr. Buckland.]



nterior extremities of the beak or jaws of Teleosaurus. Locality, Great e, Stonesfield, Oxon. From Dr. Buckland.]



[Skull of Crocodilus Speuceri.]

Though differing from both, it will be seen by a reference to our cuts, that this last form of head comes nearer to that

of Alligator than to that of Crocodilus.

MM. Duméril and Bibron, in their elaborate work on Reptiles. from which we have drawn largely, arrange the genera Ichthyosaurus and Plesiosaurus among others, under their Sauriens Aspidiotes Fossiles, an arrangement to which we cannot subscribe on account of the great differeure between the organization of these extinct Saurian forms and the *Crocodilidæ*. Indeed the very heading Sauriens *Aspidiotes* fossiles, would seem to be a warning to exclude Ichthyosauri and Plesiosauri from such an association.

We cannot close this part of the subject better than in the following words of Dr. Buckland.

'The discovery of Crocodilean forms so nearly allied to the living Gavial in the same early strata that contain the first traces of the Ichthyosaurus and the Plesiosaurus, is a fact which seems wholly at variance with every theory that would derive the race of Crocodiles from Ichthyosauri and Phasiosauri by any process of gradual transmutation or development. The first appearance of all these three families of reptiles seems to have been nearly simultaneous; and they all continued to exist together until the termination of the secondary formations, when the Ichthyosauri and Plesiosauri became extinct, and forms of Crocodiles ap-

Plesiosauri became extinct, and forms of Crocodies approaching to the Cayman and the Alligator were for the first time introduced.' (Bridgewater Treatise, vol. i. p. 254.) CROCODILU'RUS. [LACERTIADÆ.] CROCUS, a beautiful genus of Iridaceous plants, consisting of many hardy species, some of which are among the commonest ornaments of gardens. Crocuses are chiefly found in the middle and southern parts of Europe and the Levant three only being wild with us namely Crocus and the Levant, three only being wild with us, namely Crocus nudiflorus, which is abundant in the meadows near Not-tingham, C. vernus, and C. sativus. Botanists have found it extremely difficult to ascertain by what precise technical marks the species are to be distinguished. We do not propose to occupy ourselves with that subject, but shall rather

enumerate briefly the names and localities of such as are apparently distinct; so that those who wish to form a com-plete collection of these pretty flowers may know where to look for them, and when their task is accomplished.

#### \* VERNAL SPECIES.

1. C. vernus. This is the common purple or white crocus of our gardens in the spring. It has produced a multitude of florists' varieties, some of which are extremely beautiful and well marked. Its root-coats are finely netted. its flowers scentless, and the throat of the tube of the flowe, hairless. C. albiflorus and C. obovatus are varieties of it It is said to be wild in some parts of England, but it ma have been introduced. It is certainly wild on the Alpa particularly of the Tyrol, Piedmont, Switzerland, Salzburg, and Carinthia, descending to the sea-coast at Friuli. It is also found on the mountains of the Abruzzi and elsewhere in similar situations in the kingdom of Naples, associating itself with oaks, chestnuts, and similar trees, and not existing at elevations exceeding 6000 feet.

2. C. versicolor, the common sweet-scented, variegated, spring crocus. There are not many varieties of it, all of which are recognized by the root-coats not being cut circularly, the yellow tube of the flower bearded with hairs, and the sweet scent. It grows wild about Nizza (Nice), and in all the eastern parts of Provence.

3. C. biflorus, the Scotch crocus. The beautiful pencilled sepals and clear or bluish white petals of this species dis-tinguish it at once; added to which the root-coats are cut round into circular segments, a circumstance that occurs in no other species. It is a native of the most southern parts of Italy; growing wild in sterile subalpine pastures in the kingdom of Naples, and in similar situations in Sicily. Our garden plants are merely a cultivated state of the C. pusillus of the Italians.

4. C. Imperati. This is little known in England. Its lcaves appear long before the flowers, and are glaucous and spreading. The petals and sepals are a delicate violet inside, but externally white; the petals are almost wholecoloured and pale purple, except at the base; the sepals are strongly feathered with rich purple. A white and a whole-coloured variety of it are said to exist. It differs from Coloured variety of it are said to exist. It diners from C. biflorus in its root-coats being membranous, and not cut circularly, and from C. versicolor in the tube of the flower not being hairy. It inhabits low hills and woods in the kingdom of Naples, on Capri, on Mount S. Angelo di Castellamare, and elsewhere. It is supposed that C. suaveolems is at most only a variety of this.

5. C. luteus or mæstacus, the large yellow crocus. It is characterized by very large whole-coloured flowers, and large roots, with coarsely netted coats. It is an oriental plant,

but its exact locality is unknown.

6. C. aureus, the small yellow crocus, by no means so common as the last, of which it is probably a variety. Its flowers are smaller and deeper coloured, and it has a pale cream-coloured variety. Dr. Sibthorp found it wild on the

hills of the Morea.
7. C. susianus, the cloth of gold crocus. This species is well known for its coarsely-netted root skin and small deep yellow flowers, the sepals of which are feathered with dark chocolate brown, and are rolled back when expanded under sunshine. It is a native of the Crimea, the Ukraine, and the other parts of south-western Russia: it is also believed the other parts of south-western Russia: it is also believed to be a Turkish plant; and localities are given for it under the name of *C. reticulatus*, on mountains near Trieste, in woods near Lippizza, in Friuli, and in Hungary, in the lordship of Tolna. A remarkable variety with deep purple flowers exists, but it is extremely rare.

8. *C. stellatus* and sulphureus are pale and probably hybrid varieties of *C. luteus*. They have never been seen except in gardens and such places the least pretty of the genus

except in gardens, and are the least pretty of the genus.

# \* \* AUTUMNAL SPECIES.

9. C. sativus, the common saffron crocus, an eastern plant, cultivated from time immemorial for the sake of its long reddish orange drooping stigmas, which, when dried, form the saffron of the shops. Its Asiatic localities are not known; in Europe it grows apparently wild in the south of Tyrol, and is said to have been found near Ascoli, and on the Alps of Savoy. Its British station is in all probability to be ascribed to accident.

10. C. odorus, the Sicilian saffron. This species, which has also been named C. longiflorus, is found in mountain

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of better providing for his children, he determined in to emigrate to America, and having taken a passage of the lim a ship then lying in the Thames, emmed by a proclamation forbidding such embarkations, as under a proclamatic procure. Religion had at this Be unable to procure. Religion had at this influence upon his mind; poor as he still wouth he had won by gambling. This youth he had won by gambling.

The saw few persons of impact children we find that dat Ely are retirement win no wife and children; but withstand a second of his understanding became generally and viscous advocacy of principles opposed to the gramment.

The second with which he resisted an unpodrate the favour life for the favo s that in by his own the resisted an unpodrain some of the neighbouring Camidgeshire fews. attracted the favourable regard of many
this mem.

It such esteem was he held, that he was prorepresentation of the tewn of Cambridge, blic members of the representation of the tewn of Cambridge, and idected, though as some say by intrigue (Noble's Mem, pol. i., iii.) and opposition to Counsellor Mewis, the court flowards to the short-lived parliament of 1640, and the tewards to the Long Parliament, by which it was speedily

crwards to the middle age of life; his health as strong.

as strong.

The wourable to his farther elevation. But he not only in fortune, but in person and in HAS STONES, strong, sinces were flavourable to us mither elevation. Circumbad deficiencies, not only in fortune, but in person and in knowledge, which precluded all foresider the resided to the height to gentleman. He had resided so little to the height to the heigh had deficiency which precludes an integrate of the height to knowledge. Which precludes an integrate of a gentleman. He had resided so little in leading them at court; he knew nothing of the mothod of government, and ways of partignorant of foreign policy. The descriptions given of him of the House of Commons, at the beginning of the House of Commons, at the beginning ing minimate account:—The first time that I ever took now had passed the winter (1645-6) at Oxford, and threw himself upon the protection of the South of the parliament held in the month of May escaped from that city in disguise. It is not the parliament at Newark and threw himself upon the protection of the Scotts of the lamentary commissioners, who kept him prisoner at Hol. November.
November.
Joung geneticement (for we coursels valued ourselves much upon one geneticed and perceived a gentleman speaking (whom house well clad and perceived a gentleman speaking (whom house well chart ordinarily appareled; for it was a plain of the seemed to have been made by an ill course. I know whoch very orumann appareted; for it was a plain cloth saving. Which seemed to have been made by an ill country lean and not very clean and y tailor; his linen was plain, and not very clean; and I retailor: has unren was prome and not very clean; and I re-member a speck or two of blood upon his little band, which was reco un such larger than his collar; his hat was without his stature was of a good size. his was without was reco unbused; his stature was of a good size; his was without a hast-board; his stature was of a good size; his sword stuck a hat beared; mis siniur was or a good size; his sword stock close to his side; his countenance swollen and reddish, his voice sharp and untunable, and his eloquence full of ferrouser. With the exception of his eloquence, this probably spoke certainly with a contract picture. was a convert picture. Cromwell spoke certainly with ferwas every person written and the some where experiences and uninclinable in his address. In a somewhere items between permits sermon written after the Protector's
Becough Lor. South speaks of his appearance when attending
there I Array Parliament. Who, says he, that beheld such
the Response between tellow as Cromwell first entering the res and a second a sport with a threadpart four close and a great. I good as grace to a contract the second and a comment that entering the the state of the s eadors ou more man one one immension or another, ascend soon on, and the others and shottles; the time was at hand

Becase of the otel was no mines main tho kingdom and page of the discontents in the kingdom and page of the discontents in the kingdom and page of the time was not applicable to the content of the discontents in the kingdom and page of the city of the content of the otel was not mines the time was not the time been environment of the chief the must refer our readers to been excepted (ind) of a folial remainter the readers to excepted it find at the time. The framily and mal-3.00 actions (1841) of a violent remonstrate Charles became have mostly they necessary of a tentery remainstrance from his parameters, which at their framed their rupture with the king. escape with the name the following their rupture with the king of sec. and the name of the democratic leaders, atranuously and the settlement of the democratic leaders, atranuously and the settlement of the democratic leaders, atranuously the settlement of the democratic leaders, atranuously the settlement of the set es sees and this communitation; and in they when the civil

sword, all writers bear testimony to the military abilities that he displayed throughout the succession of battles bethat he asspiayed inconguous the succession of pattles between the parliamentary and royalist forces. At Marston tween the parliamentary and royalist forces. At Marston Moor, at Stamford, and in the second battle of Newbury. he was especially distinguished. With the title of licute. he was especially distinguished. With the title of lieutenant-general of the horse he soon became, under Pairfay. the chief mover of a victorious army; and so valuable were his services considered by the parliament, that he were exempted from obedience to the self-denying ordinance an injunction which excluded the members of sither here. exemples from openione to the members of either house from holding any command in the army. This measure was brought forward by Cromwell's friends, who trusted was brought forward by Cromwell's friends, who trusted to his popularity in the parliament and the necessity that it had for his services, to procure an exception in his favour. The result fully answered their expectations; his favour mane widely spread and a procure The result fully answered their expectations; in rival were set aside, his power more widely spread, and a greater scope given to his ambition. At the battle of Nasely scope given to his ambition. (June, 1645) Cromwell commanded the right wing, and I reton, his son-in-law, the left; the main body of the royal. ists was commanded by the king in person. As the trouble were nearly equal, the event of the day was looked for by tracks with anything home. were nearly equal, the event of the may was looked for by each side with anxious hope. Ireston was repulsed early in the day; but Cromwell and Fairfax, taking advantage of the limited of the day; but Cromwell and Fairfax, taking advantage of Prince Rupert's temerity, totally dispersed the king's infantry, and took his artillery and ammunition. Elated with victory, the parliamentary army, under the same leaders, vigorously prosecuted their success, until they had reduced most of the royalists in the west. Cromwell now (1646) found leisure to return to London: the thanks of

liamentary commissioners, who kept him prisoner at Holdenby, in Normampionshire. In proportion as the king's power had diminished, the division between the Independent of Independent of Independent of Independent of Independent of Independent of Independent power nad diminished, the division between the independents and the Presbyterians had become daily more applidents and the Presbyterians had become daily more applicant. In the army, the majority, with Cromwell at their Beach body, jealons of the other's power, began to strive for the mastery. At length the army rebelled against the problem against the problem against the problem against the problem against by the possession of the king's person, directed be gained by the possession of the king's person, directed one Joyce, a young and enterprising soldier, to rescue the ment, and to deliver him to the army (1647).

This scheme cominations ment, and to deliver him to the army (1647). This scheme was quickly put into execution; Cromwell maintaining which the army showed towards the position arms showed towards the position. with renned hypocrisy that he deeply regretted the distinction which the army showed towards the parliament. The members, however, were not deceived. The Presbyterian about the property of t hemners, nowever, were not necessive. The Presovicium leaders resolved, as soon as he should come into the House of Commons to assume the liquid point manual of bottom. of Commons, to accuse the lieutenant general of hat the of Commons, to accuse the lieutenant-general of having promoted this schism, and to commit him to the Toner. Intelligence of these proceedings was quickly carried to the army; and Cromwell, perceiving that the crisis was cured, hastened to the camp, where he dexterously prothen, threatening the unpopular parliament, marched southcured numsers to be invested with the chief command, with then, threatening the unpopular parliament, marched south-

As long as there remained any balance between As long as there remained any balance between the rival powers in the state, each sought the support of the royalists, and the king's cause appeared not altogether fully flattered by Cromwell. But when the leaders of the army established their dominion, the case was altogether At fully flattered by Cromwell. But when the leaders or track army established their dominion, the case was altered. As a conference at Windsor, opened with prayers poured forth opened the daring counsel of nunishing the king by fudby Cromwell himself with all the cant of fanaticism. he opened the daring counsel of punishing the king by judicial sentence. The time, however, was not quite at hand for this bold measure. The king was left in custody against the Scots in the north and the Welsh in the measure making preparations at the same time to resist an inva-against the occis in the north and the weish in the weeks making preparations at the same time to resist an investigation Runlish shine had decembed. A cain he was wise

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mandand mandand and when the samulars of the mandale of the samular of the samula for see we med had he were a A rectorer on the it et en he Pitestine. The second of th The second s The second secon ..... with a me is committed state a right to 25-

e acces to the part amenta was after The second secon to the continue at the learner to mobile them to the continue at the learner to their them. To the state of the s Per or tol vinmand, and the action was withfor the Relative shameness were the means which were seen in the common of the many, by which, in 1654, former and the send in the Singsby and Hewit, there are some to the send of These, and other similar that research to many if his subjects. He had surpressed some my had insurrections at Salisbury. that we want the waters in Alba but now be entertained tears to the feet at a lateral Mark Wildman, a repub-I am we arrest to a new may amount him; and such was the ni-will shown to him by the democratic soldiery to these inner the his terminal safety. One Sinder-The Will IT in an actif to the had been prevented from a number of the same a committed suicide before the Living the include the electrical

The the map of it the Protector has been variously as much it seems to have been imprudent but magnaniand ultimately successful. 'Perhaps no e-- :: Says S. Walter Scott (Tales of a Grandfather), Is ever a re reprecied abroad! Many memorable vi the same at hered under the parliament and under Court. It is is to say, observes Mr. Hallam (Const. in the maritime glay of England may in a 11 section of the Commonwealth in a first was because in East, was because in Commonwealth concluded with the maritime grant at the West linear colories of Spain; it ended in an activities of Spain; it ended in the first state of the first caused for England. the and discovery year, although a gained for England to hand to distance a creater and more advantageous assertion at the matter of the base produced. An allience was come, but a reference a feet to see in conjunc to a service by Sources from in the Low Consistence; Man-the conference were tracted and the Soundards were afterwards which is to a of a filteres. Decimark, Perrigal ent have a major was to be it waster's transity, and processing the first state points and more committees. e is a . eine themore.

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Was to Consult and been married his authority the second of the second of the became says The second description of a second second second and . At the age of Richard Major, Esq. of Hursley, an

south bosse from under these gloomy apprehensions; and on the 3rd September, 1658 (the anniversary of his victories at Levillar and Worcester, and several other important means of include, he died of fever and tertian ages, it he a tern year d'ais age. His burial was conducted wit. missiat ponto and magnificence at Westminster: but he if me was not suffered to rest in peace. At the Restorate is the temperature of the Revalists, and, having been hung to Temperature ato a hole beneath the gallows."

Of the a merius characters of Oliver Cromwell that are seen trawn by various historians, none appears to a as a whole to be more faithful than that of Dr. Smillet st. of England.) It should nevertheless be recollected hat he has if the writer was strongly in favour of the high recognitive of the crown. Cromwell 'inherited great falca's from nature; though they were such as he could not have exerted to advantage at any juncture but that of a civil varinflamed by religious contests. His character was formed on an amazing conjunction of enthusiasm, hypocrisy, at 1 ambition. He was possessed of courage and resolution that werhooked all dangers, and saw no difficulties. He divel into the characters of mankind with wonderful sagacity. whilst he concealed his own purposes under the impene-trable shield of dissimulation. He reconciled the mosatricious crimes to the most rigid notions of religious chingations. From the severest exercise of devotion he relaxed into the most ludicrous and idle buffoonery. He preserved the dignity and distance of his character in the midst of the coarsest familiarity. He was cruel and tyrannical from policy, just and temperate from inclination, perplexed and despicable in his discourse, clear and consummate in his designs, ridiculous in his reveries, respectable in his conduct; in a word, the strangest compound of villany and virtue, baseness and magnanimity, absurdity and good sense, that we find upon record in the annals of manki.d.

The resemblance between the fortunes of Cromwell and of him who in more recent times raised himself from i...: 2nificance to a throne, is strong enough to strike the generality of readers. Mr. Hallam has stated (Cons. Hist.) :1 most striking points in the parallel. But the conclusion f Bonaparte's life was very unlike that of the Protector; the fortunes of one had declined for years before his death, the other retained his authority to the last hour.

Cromwell was not wanting in kindness towards his fumily, and always showed great affection towards his wite and children. He was once married; six children, tv sons, and four daughters, survived him. Of the daughter-, Bridget was twice married, first to Ireton, and afterwards to Fleetwood. Elizabeth was the wife of John Clayton, Esq : Mary married Lord Fauconberg, and Frances first to Mr. Rich and afterwards to Sir John Russell of Chippenham.

Chippenham.
(Clarendon's Hist. of Rebellion; Hallam's Cons. Hist.; Noble's Memoirs of Cromwell's family; Tracts on the Cuil Wars; Harris's Life of Oliver Cromwell; Crit. Review of Life of Oliver Cromwell; Biog. Brit.; Biog. Univer; W. Scott's Tules of a Grandfather; Villemain's Hist. de Crom.; Smollett's and other Histories.)
CROMWELL, RICHARD, the third son of Oliver Cromwell the Protector, but the eldest that survived him, was been at Huntingdon on the 4th of October 1836.

was born at Huntingdon on the 4th of October, 1626. was educated at Felsted in Essex, with his brothers Henry and Oliver, and thence removed to Lincoln's Inn, where his was admitted in 1647. His study of the law was or versional, for the time which he should have occupied with reading was wasted in the pursuit of pleasure. Although he had now arrived at an age when it would have been most natural for him to have desired to join his father's , we do not find that he showed any inclination to do Besides indolence and apathy, many causes have been assigned for this want of enterprise; some have supposed that his father would not suffer him to take arms; other that Richard Cromwell's political opinions differed from ti-Protector's: and that as his companions were chiefly carreliers, and the king's health had often been drank at the rearrousals, he was favourable to the Royal rather than the Parliamentary cause. There is, however no very clear evidence to prove this last fact, unless we may reckon as such the fact that Richard, averse to spilling blood, when the king ...... was well with a remission of t. .

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Alt, which receives the waters of the Burze and several other streams. The climate, though temperate, is variable, and extremely cold during the prevalence of the east wind.

The soil produces all sorts of grain and pulse, maize, millet, flax, hemp, fruits, and wood; also gold, silver, lead, and porcelain-earth; mineral springs abound, and there are several lakes, the banks and beds of which yield soda. The country is rich in game, fish, and bees; there are large herds of horned cattle; and much timber is obtained from the forests. Agricultural pursuits constitute the chief employment of the inhabitants. The population, which amounts to about 80,900, is composed of Saxons, Magyars, Wallachians, Greeks, Armenians, and some Kalibassi, the only people of that race in Transylvania. The district is divided into 3 fiscal circles, and 4 seignorial circles. The 4 market-towns are Marienburg, or Foldour (1700 inhabitants), Rosenau (or Rosnyo) castle (2 churches, and 3300 inhabitants), Tottlau (Prashmar) (2 churches and 3000 inhabitants), and Zeiden, or Fekete Kalam (2 churches, and 3200 inhabitants).

CRONSTADT, the capital of the county of the same name, and the largest and most populous town of Transylvania, is called by the inhabitants Kruhnen, by other Saxons, Krünne and Krohne, and in antient records, Brassó. It lies in 35° 36' N. lat., and 25° 33' E. long., in a narrow valley, inclosed by mountains, at an elevation of 1896 feet above the level of the sea. It is defended by a strong castle on the banks of the Farkas. The inner town, which is in the form of a rectangle, is well-built, and surrounded with towers, walls, and ditches; it contains about 615 houses, and has a population composed entirely of Saxons or their descendants. The inner town was built in the beginning of the fourteenth century, when it was called Corona. There are three suburbs, the Altstadt, the Bolomya, or Brassovia, and the Upper Town, or Bolgár, which consists of 1500 houses, partly built on hills amidst or-chards and gardens, and inhabited chiefly by Wallachians. Including these suburbs, Cronstadt has above 3400 houses, and nearly 36,000 inhabitants. The inner town has five gates, six principal streets, which are straight and regular, and a spacious market-place with two fountains. Among the chief buildings are the Protestant high church, a striking edifice, erected in 1383, in the Gothic style. It is 112 paces long, 59 broad, supported by 22 Tuscan columns, and surmounted by a tower 138 feet high, in which is a bell 64 tons in weight. The Roman Catholic church of Peter and Paul was built in the Italian style in 1766-82. The remaining buildings of note are the town-hall in the market-place, with a handsome tower, the old Lutheran church of St. Bartholomew, the gymnasium, and the great mart, or Kaufhaus, which was erected by Apollonia Hirschin, the wife of the sheriff, in 1545. This mart is the general place of rendezvous for merchants of all nations, Saxons, Hungarians, Armenians, Greeks, Turks, Wallachians, Jews, Gipsies, and Bulgarians, who assemble here to expose their goods, while Turkish money-changers are seated outside and around the market-place for the exchange of Austrian and Turkish coins.

Cronstadt contains a Lutheran gymnasium with a library, a Roman Catholic high (primar) school, a military academy, a normal school, besides various elementary and girls' schools, two hospitals, a house of correction, and a house of industry.

The inhabitants, among whom are many gipsy labourers, earry on considerable manufactures, especially cloth, of which above 40,000 pieces are annually made, linens, cottons, coarse woollens; stockings are also manufactured, and form a branch of trade with Wallachia; flasks of maple wood, of which above 30,000 are annually sent to Wallachia, Hungary, and Sclavonia; woollen bobbins, of which 200,000 pieces are sent by Greek merchants to Asia Minor, &c. There is a paper-mill, and two wax bleaching grounds. Cronstadt was the first place in Transylvania where a paper-mill and printing-press were established; the earliest works issued from the latter were the 'Augsburg Confession' and the writings of Luther.

Cronstadt is the first commercial town of Transylvania, and carries on a considerable transit trade in Austrian and Turkish produce, principally cattle and wine from Wallachia; manufactured goods, corn, salt, &c., of which the annual circulation is from 500,000l. to 600,000l. The business is chiefly transacted by the Greek trading company,

seven versts, or about thirty-one miles distant, is situated in 59° 58' N. lat., and 25° 49' E. long.: it is built at the south-eastern extremity of Cotlin-Ostrof, an island in that part of the Gulf of Finland called the Bay of Cronstadt, about sixteen miles from the mouth of the Neva. This island, a bed of chalk, formerly called Rétouzari by the Finlanders, is seven miles in length and about one mile in breadth. At the entrance of the harbour, on an island opposite the citadel, lies the fortress of Cronschlott, built by Peter the Great. The passage between this fortress and Cronstadt is 2000 paces in width, and has ample depth for the largest vessels.

Besides its importance as the great naval station of the

Russian fleet, Cronstadt is the harbour of St. Petersburg. All vessels proceeding to that port are scarched here, and their cargoes sealed, and such as are too large for the shallow waters of the upper Neva unload their eargoes at Cronstadt, and transport them in smaller craft.

Cronstadt, which is built in the form of an irregular triangle, is strongly fortified on all sides. It has three harbours, lying to the south of the town; the outer or military harbour, which is entirely surrounded by a massive and strongly fortified mole, is a rectangle, stretching out into the sea, and is capable of containing, besides smaller ves-sels, above thirty-five ships of the line. It is now however so shallow at low water, that many of the ships are obliged to anchor in the middle harbour, which is properly intended for the fitting out and repairing of vessels. It contains the slips, a powder-magazine, a manufactory of pitch, tar, &c. The third and innermost harbour, which has space for 1000 vessels, and runs parallel with the middle harbour, admits only merchantmen, for which there is besides an excellent roadstead immediately outside of the port, which is defended also by the citadel, constructed on a rock in the middle of the sea of Croustadt.

All these harbours are well secured, but in consequence of the freshness of the sea-water no vessels can be preserved in them above twenty years. They are besides detained a great part of the year by the ice in the bay of Cronstadt, which usually prevents vessels from entering after the end of November, or leaving before the end of April, or sometimes even later. Vessels are repaired and built in the large canal of Peter the Great, which runs directly into the town between the middle and merchant's harbour. It is 2160 feet long, 56 wide, and 26 deep; the side abutments, &c. are of solid masonry, and it is filled with water by means of sluices, which is again pumped out by steam-engines. It was commenced in 1721, and finished by Elizabeth. Near it are the various docks, in which ten ships can be repaired at once; the foundry, which supplies annually 1200 tons of bombs, balls, &c.; the admirate rope-walk, tar-works, and excellent wet docks. By the new Catharine Canal, commenced in 1782, which is 1850 fathoms long, government vessels are enabled to take their stores, munition, &c. directly from the store-houses. town is very regularly built, and contains many fine, straight, and well-paved streets, and several public squares. The houses however, with the exception of those belonging to government, are chiefly of one story, and built of wood There are three churches and two chapels of the Greek worship; that of the Transfiguration, built of wood by Peter the Great, is very large, and covered with image: that of the Trinity is of older date; St. Andrew's church is in the Byzantine taste, and surmounted by a handsome cupola. There is a Lutheran, an Anglican, and a Roman Catholic church.

The city has three gates, and is divided into two part-the Commandant and Admiralty quarters, which are subdivided into four districts. Between the Peter's and Catharine canal is the old Italian palace built by Prince Meakschikof, who took this island from the Swedes in 1703. It is at present occupied by the school for pilots, a large establishment, where above 300 pupils are educated for the naval service, and 20 for the merchant service. The naval hospital is a large and well-regulated institution, with accommodation for 2500 patients, and a separate building for officers of the navy. Among other public buildings we may mention the admiralty, exchange, custom-house, barracks, a Protestant gymnasium, various schools, an invalid asylum for 60 females, the nobility's club, and the house of Peter the Great, where he resided for some time: but with the exception and at large annual fairs.

CRONSTADT, a town, fortress, and port, in the Russian of a few old oaks, which he is said to have planted wit own hand, there are no remains of the former garden. of a few old oaks, which he is said to have planted with his



(Croton Tiglium.)

Medicinal Preperties.—Casearilla bark is yielded by the Croton Casearilla (Don), a tree or shrub, growing in the vicinity of Jalapa, and in the district of Plan del Rio, in the province of Vera Crus, Mexico, where it is known by the name of Copalche, or Quina Blanca. It most likely comes to Rurope through the Bahama islands, from one of which the appellation Eleutheria is derived; but it is not yielded by any plant indigenous to these identic. (D. Don in Lewis any plant indigenous to these islands. (D. Don, in Jamieson's Journal, vol. xvi. p. 367.)

The bark occurs in pieces about a foot long, which are tabular, or overlapping; externally covered with a cuticle, which easily peels off, so that the liber or bark is often exposed, in which case it feels soft and cork-like. The colour externally is yellowish, ash-grey, or varying to red-dish-brown; this last colour is mostly owing to the pre-sence of lichens. The surface is also marked by irregular, deep, longitudinal furrows. The inner surface is a dirty or rusty brown colour. Odour faintly aromatic: taste bitter, not unpleasant, and stimulating. No alkaloid has been detected in it, but it possesses much valatile oil; one pound of bark yields one drachm and a half of volatile oil. This bark is sometimes mixed with the cinchona barks, being called gray-fever bark; a substitution in no respect hurrful

The action of eascarilla on the human system depends partly on its bitter principle, and partly on its volatile oil; by the former it approaches the pure bitters, by the latter the aromatic stimulants. It possesses this great advantage over almost all other tonic medicines, that it is more easily directed by the stometh when no other affection of that digested by the stomach, when no other affection of that organ exists than debility and inactivity. This property can only be imparted to other tonics by the addition of arcmatics, while it is possessed naturally by this spontaneous combination. In the treatment of pure indigestion from weakness of the stomach and alimentary canal, cascarilla merits the preference. It is likewise of much utility in the treatment of intermittent and nervous fevers, and chronic diarrhosa dependent upon debility; provided no inflam-matory condition of the mucous membranes of the stomach

or intestines co-exists.

Powder or infusion is the best mode of administration; decection is objectionable from dissipating the volatile oil.

CROTON OIL. The seeds of the Croton Tiglii were

formerly used as a drastic purgative medicine, under the name of grains of Tilly, or Molucca grains; but at present the oil only is employed. The seeds are roasted and then subjected to compression; the oil is therefore termed an expressed oil. It is of a honey-yellow or brownish colour, of moderate consistence, having an odour resembling the resin of jalap; the taste is at first slightly rancid, afterwards acrid, causing a feeling of burning in the throat, which lasts for several hours.

A portion of the oil is taken up by alcohol, and more by wether; it is however soluble in every proportion in fixed and volatile oils. It is supposed to contain a peculiar principle termed Tiglin, in the proportion, when the oil is genuine, of 45 per cent. It is often adulterated with olive or castor oil, which admixtures may be detected by the process suggested by Dr. Nimmo. An artificially prepared substitute, sometimes met with, is a mixture of the resin of jalap, Canada balsam, fixed oil, euphorbium, &c. (Horst.)
The oil of the seeds of Jatropha Curcas (Linn.) is also sometimes mixed with the genuine oil. In the dose of one drop (when the pure oil is used) it produces considerable purgative effect, and may be very advantageously employed when difficulty of swallowing exists, since its application to the tongue is often sufficient to ensure the purgative action. Hence in cases of apoplexy, or paralysis of the throat, the desired effect may be obtained even when the patient is insensible. In the treatment of that form of inflammation of the brain termed hydrocephalus, even when effusion appears to have taken place, and torpor or paralysis exists, croton oil will often bring about the recovery of the sufferer. (See Abercrombie on Diseases of the Brain, 1st edit. p. 157.) In cases of impending apoplexy croton oil is of incalculable value. It is likewise used, but sometimes very improperly, in cases of obstruction of the intestinal canal. It is however useful in aiding in the expulsion of the tapeworm, when proper anthelmintic medicines have been prescribed. The powerful impression which it makes on the intestinal canal renders it useful in some cases of dropsy.

It is in most instances proper to combine it with castor oil, almond emulsion, or an alkali, to lessen its acrimony.

CROTO'PHAGA, Linn.; Crotophagus, Browne, Brisson; a genus of birds placed by Lesson under the third family Heiteroramphes, of the order Grimpeurs (scansores\*), Cuvier; Zygodactyti, Temm.; Sylvains Zygodactyles, Visill

Bill snort, very much compressed, arched, without dentilations, elevated, and surmounted by a vertical and trenchant crest; nostrils basilary, open; fourth and fifth

quills longest; tail feathers long, rounded.

These birds are called Ani and Anno in Guiana and Brazil, and Anno in Paraguay. In Mexico they are named, according to Hernandez, Cacalotototl, and in the Antilles Bouts de petun, Amangona, Drables de Savannes, and Perroquets noirs. In Cayenne their common name is Bourlieur de Canari. Their general colour is black, with more or less of metallic reflections.

Geographical Distribution.—A considerable portion of

America; principally the hot and humid parts, but the south more especially; and the Antilles.

Habits, Food, &c.—The anis live in flocks, and are so far from timid, that when they see their companions fall before the gun, the survivors fly but a short, way, and then again pitch. Bushes, the skirts of woods, and the borders of flooded savannahs are their favourite haunts. Their food consists of small lizards, insects, and seeds. Many para are said to use the same nest, built on the branches of tree . and of large dimensions, when considered in relation to the number of couples occupying it, where they lay and hatch their young in concert.

Example, Crotophaga Ani. Black, with bronzed tints

in some lights. Size rather larger than that of the commo blackbird: less than that of a jackdaw. Locality, moist avannahs and the neighbourhood of water, in the West India Islands, Carolina, Brazil, Paraguay, &c. It is the Razor-billed blackbird of Jamaica of Catesby, the Savannah blackbird of the English colonists, and the great blackbird

Browne (Hist. of Jamaica) thus describes it. 'This bird is about the size of a Barbary dove, or something larger, black all over, and splay-footed, like a parrot. It has a long square tail, a broad compressed bill, and a short thin

tongue; but the beak, or upper part of the bill, is flatted Birds which have the external toe directed back wards.

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C'R O

from giving them any relief, or taking them away whilst alive, or removing their bodies after they were dead. The representations of crucifixions by painters are, in

our opinion, calculated to give very erroneous notions both of the cross itself and the mode of punishment. It is not probable that the crosses actually used were so lofty or so large and massive as those which we see in pictures. Instru-ments of such dimensions would be perfectly unnecessary for the purpose. When we read in Josephus of hundreds of Jews being crucified by Vespasian and Titus in a day, we cannot suppose that so great a quantity of timber would be used on those occasions. The circumstance of the suf-ferer carrying his own cross weighs against the probability of its being of the size which these representations give it. It is not unusual in paintings to represent crucifixion as taking place after the cross is elevated, and the executioner is represented standing on a high ladder, and driving a nail into the hand of the crucified person. It seems much more likely that the sufferer was nailed to the cross before it was raised and fixed in the ground. 'Pone crucem, servo,' 'Put the cross to the slave, is the expression used by Juvenal. Crucifixion sometimes took place with the head downwards, and St. Peter is said to have suffered death in this way. Death by the cross, in a strong and healthy person, must necessarily have been tedious and lingering, instances have occurred of persons who, after remaining some time on the cross, were taken down, and survived. When the crucified person was only attached to the cross by ropes, this seems by no means extraordinary; and even when it took place by nailing, neither the wounds themselves nor the quantity of blood lost would be sufficient in all cases to bring on speedy death. During the reign of Louis XV. several women (religious enthusiasts, called Convulsionaires) voluntarily underwent crucifixion. Dr. Merand, an eye-witness at some of the meetings of these persons, relates that he was present at the crucifixion of two females, named Sister Rachel and Sister Felicité. They were laid down, fixed by nails five inches long driven firmly through both hands and feet into the wood of which the crosses were made. The crosses were then raised to a vertical position. In this manner they remained nailed, while other ceremonies of these fanatics proceeded. Sister Rachel, who had been first crucified, was then taken down: she lost very little blood. Sister Felicité was afterwards Three small basins, called palettes, taken from her cross. Three small basins, called partial of blood, flowed from her hands and feet. wounds were then dressed, and the meeting was terminated. Sister Felicité declared that it was the twenty-first time she had undergone erucifixion. (Justus Lipsius, Roma Illustrata.) CROSS-BOW.

CROSS-BOW. [Archery.] CROSSARCHUS. [Viverridm.] CROSSBILL. [Fringillidm.] CROTALO'PHORUS. [Rattlesnake.]

CROTALOPHORUS. [RATTLESNARE.] CROTALUM (κρόταλον), an antient musical instru-

crown, we are inclined to be of the latter opinion.

CROTALUS. [RATTLESNARE.]

CROTCHET, in music, a character or note formed of a round head, and a stem descending from the left side of the upper part—



It is the fourth part of a semibreve, and in slow time (large, for instance,) its duration is about one second.

(A(1)1) N (Kpirrar), now Cotrone, a town on the east coast of Calabria, with a castle and a small port. [Calabria.] The district of Catrons, one of the four into which the province of Calabria Ultra 2 is divided, contained, at the census of 1824, 37,175 inhabitants, chiefly employed in agriculture. Cooper was one of the oldest and most flourishing Greek submits in Magna Greeks: its circuit was twelve Roman miles—It was famed for the adultity of its climate, the factility of its tarritory, and the beauty of its women. It was angaged in wars with its neighbours of Sybaris and the 1981, it defeated the former (Herod. v. 44), and was de-

feated by the latter in a great battle on the banks of the river Sagra. It was afterwards taken by surprise by Dionysius of Syracuse, and subsequently devastated by Pyrrhus. During the second Punic war it was besieged by a combined force-of Carthaginians and Bruttiana, and the inhabitants, who were reduced to 20,000, were unable to defend the large extent of their walls. They surrendered, and afterwards sought a refuge among their antient enemies the Locri (Livy, xxiii. 30). The Romans afterwards sent a colony to Croton. This town was the birthplace of Milo the athleta, of whose strength wonderful stories are told, of several celebrated physicians and philosophers, and was also the residence of Pythagoras.



"Coin of Coolon."

British Museum. Actual Size. Bilver. Weight 112 grains.

CROTON, an euphorbiaceous genus comprehending a large number of species, many of which have important medical properties. It is distinguished from other genera of its order by monœcious flowers; the males with a 5-parted valvular calyx; 5 petals, 5 glands alternate with the petals; and a definite number of distinct stamens; the females with a 5-parted calyx; no petals; three bifid or multifid styles; 5 glands surrounding the overy, and a traccoccous fruit. The species are extremely diversified in appearance, some being trees, others bushes, others herbaccous plants; many with serrated or lobed leaves, many with centire ones; sometimes covered with hair, somotimes naked and now with a small compact, now with long lax inflorescence. The following are a few of the more remarkable species:—

1. Croton Cascarilla. Leaves lanceolate, acute, quite entire, stalked, downy on the under surface. Stem arborescent. A native of the Bahamas, St. Domingo, and Florida. Fée considers it quite certain that this species is what furnishes the cascarilla bark of commerce; but others ascribe it to Croton Eleutheria; and Schiede suspects that it may be rather the produce of C. Pseudo-china, which he found to be the real Quina blanca of the apothecaries of Jalapa.

2. Croton Tiglium. Leaves ovate, smooth, acuminate, serrated. Stem arberescent. Flowers in terminal spikes. Fruit smooth, the size of a hazel nut. An inhabitant of the Moluccas, Ceylon, and other parts of the East Indies. This plant is at once the most active and dangerous of drastic purgatives; every part, wood, leaves, and fruit, seems to participate equally in the energy. The leaves are so acred as to inflame the mouth, lips, and fauces of those who merely chew them, bringing on swelling and producing a sensation of burning as far as the anus. The seeds thrown into water intoxicate fish. Ten or twenty fruits bruned with honey have been known to kill a horse by the violent diarrhosa they have produced. Hence the oil obtained from the seeds, when used medicinally, has to be administered with extreme care.

3. Croton lacciferum. Leaves ovate, downy, serrulated, stalked; calyxes downy; flowers in terminal spikes; fruits small and velvety. A native of the East Indies. This species is said to furnish the finest of all the sorts of he, but scarcely ever to find its way to England. It is very pure, of a bright red, and furnishes a brilliant varnish in Ceylon.

Croton Draco, a Mexican plant, with long, heart-shaped, woolly leaves; with C. spharocarpum and sangusfuum yields, when wounded, a resinous substance of a deep red colour, resembling dragon's blood. Others are merely aromatic; from C. balsamiferum, the liqueur called Eau de Mantes is distilled; C. aromaticum, niveum, frugrans and coriaceum, have similar qualities; and C. thuriferi: we exudes a fragrant resin analogous to incense.



(Croten Tiglium.)

Medicinal Properties.—Cascarilla bark is yielded by the Croton Cascarilla (Don), a tree or shrub, growing in the vicinity of Jalapa, and in the district of Plan del Rio, in the province of Vera Cruz, Mexico, where it is known by the name of Copalche, or Quina Blanca. It most likely comes to Rurope through the Bahama islands, from one of which the appellation Eleutheria is derived; but it is not yielded by any plant indigenous to these islands. (D. Don, in Jamieson's Journal, vol. xvi. p. 367.)

The bark occurs in pieces about a foot long, which are tubular, or overlapping; externally covered with a cuticle, which easily peels off, so that the liber or bark is often exposed, in which case it feels soft and cork-like. The dish-brown; this last colour is mostly owing to the pre-sence of lichens. The surface is also marked by irregular, deep, longitudinal furrows. The inner surface is a dirty or ucep, iongitudinal furrows. The inner surface is a dirty or rusty brown colour. Odour faintly aromatic: taste bitter, not unpleasant, and stimulating. No alkaloid has been detected in it, but it possesses much valatile oil; one pound of bark yields one drachm and a half of volatile oil. This bark is sometimes mixed with the cinctona barks, being called gray-fever bark; a substitution in no respect burtful

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Birds which have the external toe directed back wards.

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on the sides, arched and sharp above, and straight at the edges below. They live chiefly upon ticks and other small vermin, and may frequently be seen jumping about all the vermin, and may frequently be seen jumping about all the cows and oxen in the fields; nay, they are often observed to fly on their backs, unless they lie down for them, which, if much troubled with ticks, they generally do when they see the birds about them; but if the beast be heedless, they hop once or twice round it, looking it very earnestly in the face every time they pass, as if they seemed to know that it was only requisite to be seen, to be indulged. They are very noisy birds, and one of the most common sorts in all the pastures of Jamaica. Their flight is low and short. Short.

Sloane thus describes his specimen, under the name of the great blackbird. 'This was thirteen inches long from the end of the bill to the end of the tail, and about fifteen inches from the end of one wing to the end of the other, both being extended; the bill was three-quarters of an inch long, and black, the under mandible being straight, the upper of a singular make, distinguishing it from other birds; for it was arched or round, raised high, flat and then on the upper round select. The first bare three trees before birds; for it was arched or round, raised high, flat and thin on the upper round edge. The feet have three toes before and one behind (though Marcgrave says otherwise). The legs are two inches long, and black as jet; the middle toe before is one inch and a half long, armed with a pretty sharp claw, and the other toes proportionable. The colour of the feathers all over is black. The stomach of this bird was pretty thick; it was very full of grasshoppers, beetles, &c., disjointed and partly dissolved.

'It haunts the woods on the edges of the savannahs, and is very common, making a loud noise upon the sight of

is very common, making a loud noise upon the sight of mankind, which alarms all the fowl in their neighbourhood, so that they are very prejudicial to fowlers; but, on the other hand, when were the state of the sta the other hand, when negroes run from their masters and are pursued by them in the woods to be brought back to their service, these birds, on sight of them, as of other men, will make a noise and direct the pursuers which way they must take to follow their blacks, who otherwise might live always in the remoter inland woods in pleasure and idle-

ness

' Perhaps this bird may have the toes sometimes two before, at other times two behind."

Sloane's doubt may have arisen from a casual examination of dead specimens. The fact is, that the external toe in some scansorial birds can be directed backwards, but not forwards to any extent.

These birds are easily tamed, and may be taught to speak.

Their flesh is said to have a bad odour.



Link apphysies I)

('R()III', a specific inflammation of the air tubes, giving tion to a popular approximate, which concretes almost immeilinisty it is flyment, producing a fulse membrane, which falso membrane is deposited over a gangrenous surface.'

It is remarkable that in general the seat of plastic in

the mucous membrane which lines the air passages is subject to two different kinds of inflammation, each presenting distinctive characters. In one the inflammation produces a secretion which does not concrete, constituting all the varieties of bronchitis, catarrh, &c. In the other the inflammation produces a secretion which consolidates almost the moment it is formed, giving rise to the various phenomena which constitute the peculiar disease denominated

That the inflammation which terminates in the formation of the secretion peculiar to croup is of a specific nature, is argued, first, because it uniformly terminates in the production of this peculiar secretion; and, secondly, because this secretion is obviously not dependent on the intensity of the inflammatory action, since the phenomena characteristic of inflammation are often less acute in croup than in catarrh. It has been conjectured that catarrh depends upon inflammation of the secreting follicles of the secreting brane, and that croup depends upon inflammation of the capillary arteries of its tissue, a conjecture which is probably correct, though in the present state of our knowledge it must be regarded merely as a conjecture. As the inflammation, however, presents in the essential phenomena characters so different, it is convenient to distinguish the one from the other by distinct names, and accordingly the former is termed Catarrhal, and the latter Plastic Inflammation

The false membrane, the result of plastic or croupal in-flammation, moulds itself to the part inflamed; it does not extend beyond the inflamed portion of the mucous membrane; it varies in thickness from half a line to a line; it of boiled white or whity-brown colour; it has the consistence of boiled white of egg, and its firmness is always greatest where it is thickest. When it is raised from the muccus membrane, the latter is always found to be reddened and swollen, but rarely to the degree common in catarrh.

This morbid secretion is most commonly poured out on that portion of the windpipe which constitutes the larynx; hence in general the larynx forms the peculiar and proper seat of croup; but the site of this adventitions membrane is by no means confined to the larynx; it often extends above to the glottis and epiglottis, and below to the bronchial tubes. When, as happens in the great majority of cases, the adventitious membrane is confined to the larynx and epiglottis, it presents the characters just described; but when it extends into the bronchial tubes it becomes modi-fied in its appearance. It is then generally formed into a single cylinder, but occasionally into a series of tubes inclosed within each other in the closest contact, and forming altogether a solid body, of a thick and tolerably firm structure, and in the exact form of the tube from whence it has been abstracted. Upon making a transverse section of this polypiform substance, concentric lamines are very apparent. It adheres but slightly to the mucous surface, and may easily after death be drawn out entire, presenting a complete mould of a large bronchial tube, with all its subdivisions down to its minutest emidlesticate. sions, down to its minutest ramifications.

Though in the croup the deposition of the adventitious membrane is commonly confined to the larynx, yet other erts of the mucous membrane in the immediate neighbourhood of the larynx are sometimes the seat of plastic inflammation, terminating in the formation of a precisely analogous morbid secretion. Occasionally 'small yellowish-grey spots appear upon the fauces, surrounded by the mucous membrane, highly and darkly reddened. These spots enlarge, coalesce, and form a continuous false membrane, of large, coalesce, and form a continuous raise membrane, of the colour and consistence of the buffy coat of the blood, lining the throat more or less completely. Sometimes it is seen to cover the posterior half of the tongue, so that its anterior part might be elevated by a probe in a membranous form; occasionally, though not often, it passes down the resophagus even into the stomach, but much more frequently it extends into the lung, producing all the symptoms of croup. When plastic inflammation is seated in the fauces, it gives rise to a disease called Cynanche Maligna, or Gangrenous Sore Throat, so named from the supposite n that the spots on the fauces consist of gangrenous sloughs: but more careful observation has demonstrated that they consist of an adventitious membrane. Nevertheless, gangrene does occasionally, though not very rarely, co-exist with the deposition of a fictitious membrane, that is, the

Annesties a strictly limited to the Janyan, trackes, and bloods its children, and to the January trackes, and bloods its children, and to the January state of the January state

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n to kings, issumuch as the --- America and week princes.

1 regard to the grown as used in our own country, a E. THERE IT HERE'S 20 YEARS ON Several of the Saxon Scent-" PT ... ... If two staters a radiated diadem occurs. (See mains a seman of the Coinage of Britain, pl. 6, 7.) Simiar macerns at filets adorn the heads of many of the Hepments and antique as the most common crown upon or own armen the whole of the Saxon series. The circle mines we three small projections first occurs upon the case at Atherstan : m some of Edred's coins the projections can in search. A ractuated can appears first on a coin of Ethelrea .L. and the tremit ornament upon the crown upon a ew at the come of Canute. Several varieties of arched me me rows arrear apon the come of Edward the Conmr. See Ranting a mates, 15-23) The close or arched was wasta arreads at some of Edward the Confessor's s used in all the trees of Harold, and was adopted w the samer Norman sames. On Edward the Confessor's met the commerces come we see labels appended at each these, is we carry from an areconde related by William a farmour. In wearing the actual crown, were fastened wa mass w nutton beneath the chin. On the coins of increase man Henry I. the open crown with fleurs-de-lie mesers. Edient .... wears on his seals a crown fleury, ministed or mareau, the points rused, but not high, between me house in his second scal the points are wanting, as me met on his forms, but in Matthew Paris we read he was me mores win a nime of good. Edward L has a similar grown on the work and was to that of Henry III. as well as ns ruser from her time; so have his successors Edw. III., Living Liberty IV and V. Evelyn (Numism., p. 34) says no management of England were the first who pretended to the nested rown that is, as it appears in modern times. Seemen " 'es n' E neur, edit. 1762, b. i. chap. 5) save r-meri no mut west must rienry V. was the first of them who had a grown of the Ernd. In a window of Ockholt-house in Bersoure, mit is Jian Norreys, Esq., in 1465, there cerminy windings, nil wonin a very few years, the arms of Honey VI, and me puren Margaret of Anjou, in separate The mile surmanied by the arched barred crown; कृतक साथ जान्य प्रकाशिक्त अवस्था प्राथमिक

In France Louis XII were a striple bar arched over h -From VII 3 money (See 200 cours.) Till Francis I, an men house better, amountat I as our dural coronet, was morraly men. In Sunn. Paley II, after he married Queen GRE BALL Bland mal In Germany, Maximilian, minim ther of . harves V. first wore an arch over a ducal serges. Il Jenmars, Correctan III., after he came into formand, need the harves of war. James IV., on his mar-The will Warrence diagree of Heary VII., introduced , the weather limit Dise of Benganca was the first was nest in Farmen. See Gregi's Sepulche. Monu-

See of the guilling their sects articles gings of closure Colored to markets at M. The sind other achievements. wineful wire the Civic the Maral, the Naval of Ros-

to come the Countries and the Interpolation of CEI SUN. Englished as Soleil, was a Count non, the street of Laux XI of France, in 1475.

7. Blunt, Course Sectionalist and Monoger de France, 4to., but then, to the major of 20 deaths aware, that from at early served the run manual of f reign money, of remous sommers was not ones adopted but even le-remous in England. By rese-amazine, 25 May, 14 Honry frame in San much and crowns of gold not a ne sum were graced to be received to currency, the where a vie on he moved to go at four shillings and the traine is previous in a su pass for seven shillings: are main resident to meet the six six and fourpence, where we will make much in the same year on Dec. 1. The same to it same the of currency, six shillings are a surrency to reversimenous from Queen Mary I. in ( Catana's)

The Will a manage-way as the hundred of Waland the property of the same and a pair miles south of and a series of the series of the survey of 1646, it is described as semiliting of RM acres, \* barring barbage of all manner of carlie, and manage for some others committed, and the chart of the acres of the country of the form of the country of the form of the country in the form of the country to the binacted Domes, is present and very leadily. The names from one principal stress, almost and the to length; of most apparatume and tolerably well payed and the their, of the Normanges of Antonians, there had by their, Domes autique gene (Dr. Stubeley v Hines-ory) identity Croydon with the Normanges of Antonians, there had by their, they are not form the neighbourhood, some traces of the Remain roof from Landon to Arundel. At the Norman Compact, the manar, with a neyal palace, manages is landon, and the considering of the secondary primates. It was boult of timber, and was in 1975 it to original states. No part of the present synthesis shall be shall be acred by the considering of the secondary primates. It was boult of timber, and was in 1975 it to original states. No part of the present synthesis shall be shall be acred by the contribution of the present synthesis and her count wars unaptimently entertained by weekloology. Perker and Whingth. In 1750 it was solid, and beginner of califor manufactury, and the grades were used to blusoling prounds. The present summer readonner of the architologic prounds of the architologic prounds and prounds of Landon untraced in Croydon. and architecture of the present summer readonner of the present summer than the property of the present summer of the present simulation, and they the present summer of the present simulation, and the present summer of the present simulation. The present summer of the present summer of the present summer of the present summer of the p



As a timbe disser but upon, then up the through I, a pleased dissert I, a many due that I i, I, Alderson Marks of stony scales, with which the times with an executed

CRUCIBLE, a chemical vessel in which substances are exposed to high temperatures. Gracibles are made of various materials, forms, and sires, and are often called maliting pots. Exciten crucibles are used for the purpose of assaying ores, as these of lead, capper, and tim. For these purposes the refractory kind, called His sin or Cornish crucibles are propared; they cannot however be employed for heating saline, alkaline, or earthy matters, as those would set upon them. Sumethines they are made of commoner and more fasible clays when not required to withstand a high temperature. Crucibles are occasionally used made of percelain, but they are extremely up to cruck.

Black-lead crucibles, formed of about three parts of finely-powdered plumlings, and one of good clay, are also much employed, especially in melting mainles; they are more expensive than earthen crucibles, but are less liable to cruck.

Glass-makers' crucibles are usually made of Stourbridge

chay.

In fusing the alkalis, potasts and soda, after eracibles are used; but as they readily melt, they are not much employed for ather purposes.

For chemical uses platinum crucibles are principally employed; they withstand a high temperature, and use not in general easily acted upon. The alkalis however, and the alkaline earths, act upon them; and those metals which readily fuse, such as bismoth, lead, and tin, immediately distray them when heated in them. Large platinum vascels are employed for the concentration of sulphuric acid; no acid sots upon them, but they are dissolved by chlorine.

CRUCIFERAE, a very extensive and most natural escentralism.

colved by chloring.

CRUCIFERAS, a very extensive and most natural assemblage of plants, called Tetradynamas and Cruciatre by Linnaua, and Brussieserse by others. It comprehends the mustard, cress, turnip, cabbage, scurvy-grass, radish, horse-radish, and similar plants, having a pungent principle diffused more or less in their cap, and giving them valuable antissorbatic qualities. All the species have an influrescence without braces, a calva, of four sepals, four potals with long class, and their bisdes placed something like the arms of a Matteau case, whence their name: aix sta-

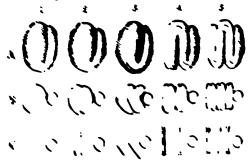
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more. Some of which we among their the other ten; and a feel transmission of we will also be control frame, to which he fit will a part of feedunia taken, and from the when't index he are a stretched a this double מונים ביו ביותר מון ביון ביותר "The market is lived man short and testiliste of albamen. The time of the fruit a refreshed related when I is using terrotor to a raised a flat in sent state about 2011 . Senate were he was to some if the Testerdy 12 

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beyo when cut across, and C I will be a sign exme. Is pressing the mutual positions of the radicle and cotyledons in the by a circle and two bers; these are Pleurorhizem. Then Mg. A 2 will be same embryo with the radicle applied to the nack of the enviedoms; and B 2 and C 2 will give the section and sign of what are called Notorhizes. When the entylerious meteod of being flat are channelled so as to reserve the radicie in a kind of groove, as at A 3, it gives the to some Orrangiones. If the cotyledons are so long as to se southest twice, A 4, they constitute Spirolobem; and if, to as A is the convictions are doubled three times, they intreate the division Diplerolobess. Upon these distinctions all near transperments of Crucifers have been formed.

(RTOTROSTRA. [FRINGILIDE.]

(RTOEN. [Concomance.]

(RUNADES Under this name are designated the religious wars carried on for two centuries between the iratana and Manammedans, at a time when diplomatic regoriations were anknown, and the sword decided all matzza in tispute between one nation and another. The cause was unmarry not by the Christians, who sacrificed in the sangue the west of several millions of their brethren, though naim was ariginally a reasonable one. In the beginung the Christians demanded only a free pilgrimage to the sepuicare, but afterwards the contest was for the posmeans wars if minutest or of royal caprice; man fought ात्वार सराप्रमुख अधिक something more honourable than the if wars, and deserves particular attention on en nume it is influence upon the civilization of Europe.

As mong as the minhs of Bagdad and after them the Finemotes of Empt pussessed Palestine the Christians were not merical in the exercise of the religious practice of "saing the hay septiciare, which was in harmony with the minimum of that age: the Caliph Harun-al-Rashid min area me keys of the boly sepulchre forwarded to Charemagne as a present. But when the Turks had effected the ranguest of Paiestine, the hospitality of the Arabs rie with he the brutality of the new possessors; the linearms were subjected to so many vexations, that the while if Earne re-echoed with the complaints of the wind in instead of returning to their homes loaded wind in relies brought back only wonderful tales of their neutrand sufferings

In the case terms of this, Pope Sylvester II. (who died in negra to prouch a crusade against the Seljuk Turks the time cited test of the boly sepulchre. Sixty years afterwards when only 2000 pilgrims had returned to Germany out of 7000—who had been sent to Palestine by their back os—and the possession of Jerusalem had fallen had the hards of the Turkish chief Ortok, this untoward event it est Europe with consternation, and a desire to revenue the wrongs of the pilgrims. A single spark only was wanting to include the whole of the western empire to a concess with the sword for that privilege which Harunai-Raskid had acknowledged.

There years however elapsed before Pope Urban II. de-ted the first Crusade. First at the Council of Piacenza March. 1095), afterwards at that of Clermont in Auvergne November, 1095), supported by the ambassador of the emperor of Constantinople and numerous powerful lords, he received the sacred war, and appointed the 15th of August The minds of the Christian warriors had been pre-versely excited by the preaching of Peter of Amiens (the Herman and by the loud complaints of the Patriarch of Jerusalem: who, provided with letters of credit from the poperate of through Europe, and filled all classes of society with enthropy for this holy warfare. Those who determined to set out for the Holy Land wore on their breast the figure of a red cross, and hence the name of Crusaders.

First Cruanic. The departure of the army having been deferred for a year, Peter of Amiens, Walter Habenichts, Count Emiko of Leiningen, and the priest Gottschalk, impatient of delay, and prompted by religious funations, set out with an immense multitude which is stated at 80,000 or 100,000 men, besides women and children, and a crowd of followers. This army, after having ill-treated and robbed the Jews in their own country, was reduced to one-third of its number in Hungary; the remainder was cut to pieces at Niesea in Asia Minor.

The east was now threatened with a national migration from the west. The bulk of the army was twice as numetons as that of their forecastions. Gradeby of Bantlian, Dake of Bantlian College of the Consultant Striggins of these times. Gradeby of Bantlian, Dake of Bantlian College of the Consultant Striggins of these times. Gradeby of Bantlian, Dake of Bantlian, Bantlian, Dake of Bantlian, Dake of Bantlian, Dake of Bantlian, Bantl

Hugo de Payens, Gulefroy of St. Albemar, and sevon other knights. The German Knights of the Cross are of brief order.

Mercual Crossole.—Though the Franks had extended their possessions from the mountains of Armenia to the way boundaries of Egypt, their strongth was too feeble to mercul Guades the government of Bultwin III., a. p. 1144) the Arabaks of Mouth from taking Edess. The Arabaks acre governors of too dynasty of the Soljuks. One of the Arabaks, named Road-chilin Zenglin, from Mouth, laving roads broad findependent transmitted the kingdom to int soot, Nurvoidia the Great, who fixed his residence to Alogo, and became an object of terror both to the Garations and to the Patennides. In the mean time the sing-dom to int soot, Nurvoidia the Great, who fixed his residence to Alogo, and became an object of terror both to the Garations and to the Patennides. In the mean time the sing-dom to the took of the Patennides. In the mean time the sing-dom of Karpp bod passed into the hands of Scialacidia (Satalia the Great), an event which took place under the full uning circumantaines :—In order to tellic a contention should be surreason. Named in sent a Kurd, restored Sirchio, into Egypt. The posses-maker usurped the government for the formor of these rival caliphs, and conquered for the tornor of these rival caliphs, and conquered forms of on the formor of these rival caliphs, and conquered forms and Asia Misare, in addition to Tripola and Tunis, so the Toylor the Garation kingdom of Jeresalem.

After the conquert of Edesa, Barmard of Clairsaux took appart functor of the one of Poter the Herrart, and procahed a patent for one of the forman empear Courad III., and Lucie VII., king of Vesses, were induced to take the

of the Causaders in the East was a complete failure. The pully successful result of this undertaking was the relating of Lisbon from the Moors, which was offer ited by the Christian pay.

Situation of the East after the Second Crussile.—Baidwin III. bowever did not give the Second Crussile.—Baidwin III. bowever did not give the Second Crussile. His army was at internals increased by small hodies of Crussiles, who came to his assistance from Europe. Nuraddin the Great felt more than once the power of the Cristian warriors. Yet all these advantages were frustrated by the diseased of the Crussiles, forecasted, by the diseased of the Crussiles, forecasted. He had sured of the Crussiles, forecasted by the disease of the Crussiles and the English of Joroschen. Baidwin was stocceded by Almeric, called also Amouri, who was fallowed by Baidwin IV., who died likewise seen after the hattle of Rarpla. After his death Guide of Lussiquano as completely defeated at the lattle of Therase, he was laken prisoner, together with the Grand Master of the Templars and many abole knights (1167). Saladin took possession of all the important places in Palestine, together with Jerusalem and its unvirous, and put an end to the Christian kingdom of Jorusalem, which fad existed a century. But Saladin above the presentant of the Expedience of Clirics, and allowed the prisoners to return bons. The patriace Hurseltus, the clergy, the knights, and many soldiers returned to their house to get the knights, and many soldiers returned to their house to get the presentant of the Grandom. For the patriace of Clirics, and allowed the prisoners to return bons. The patriace Hurseltus, the clergy, the knights, and many soldiers returned to their house to get the base of the Separation of the few jowns which the Christians still possessed on the reast of Palestine.

The Department of the crussile the base of the Christians, but the literation of the reash has a present of the surper of

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we have already and the priest Gorganic the cross was liketo a man and the Moors in Spain.

The was called a crustic the cross was liketo a man against the Moors in Spain.

Such, for materies, were the increased activity of political 10 to flureys, the union of different nations in a common eyel, the consequent disapation of informational strifes and propulates, and a tendency to a more humans resigned information, the acquisition of scientific knowledge, is previous and in manners and habits, the breaking up of the coded system to manner required by the nobles for their material so actions, sho the manner required by the nobles for their material so account to make a second provision, the increased waith of the face acts and the whomes in that country, and findly, the diffusion of more liberal modes of thinking in mattern of the face acts and double for modes of thinking in mattern of covernments and collision, occasioned by the intercourse of the resolution of more liberal modes of thinking in mattern of the resolution of some liberal modes of thinking in mattern of the resolution in a second of the face of the latticence of the resolution in a second of the latticence of

Wildeness and Albigenous in France, spalmi a.t. capes of breakes, ocean against the human of Holomatouribra word before the principle, were roughed by financian unit in the principle, were roughed by financian unit in more to riche in their principle, were roughed by financian unit in more to riche in their principle, were roughed by financian unit in more to riche in their amountainment. The above of the Tourist Creamber - The abject of the Institute of the Christons in Rouge; and secondary, to profit the Christons in Rouge; and secondary to company to the country became the prencipal object of the company became the prencipal object of the Christons in Rouge; and the Christons in Rouge; and the conditions in Rouge; and the Rouge in Rouge and the Rouge and t is with more propriety to the fourth crossed underson by Andrew, king of Hungery.

The listed of the page against the bouse of Hobers affine was the cause of the fifth crosside. In spite of the pure motives of this war, however, the emperor, by the induct conduct, succession in elastic conduct, succession in elastic conduct, succession in elastic conduct, succession in elastic conduct, succession of elastic conduct, succession of Palestine which had been allowed in elastic conduct, succession of Palestine, which had been allowed in the conduct of the many of the same country, in the lattice of Graza. The chief crossed way is many settle expeditions throat out signal follows may be many settle expeditions throat out signal follows may be many settle expeditions throat out signal follows may be many settle expeditions throat out signal follows may be many settle expeditions throat out for the commence of the received of the crossed of the commence of

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NOTE IN THE RESERVE ABOUT LA VIBRILLE AL Chief Deliefs is the same whether in THE PARTY OF THE P ADDRESS TO A TOWNS AND A STREET THE PARTY OF THE REAL PROPERTY AND A SECOND La refi The large of the Property of the Property of the Committee of the Committe The second of the second secon the section of the se THE PROPERTY OF THE PROPERTY OF THE PARTY SHOPE THE PARTY SHOP . W L to Lineary . There's Monte, with it was the Port of the State of the Ports of The American Day and the State of the American Sta

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stially distinguishable from oth a the circulating, respiratory, and loco-AND SOLUTION.

### SKELETON.

is a many of the testaceous mollusks, the skeleton of to made up of the tegumenmy me. which, in some of the class, always continues att. of 2 the greater portion is very firm, forming a these. It the more perfect crustaceans it is complex. The and the Edwards, who in his 'Ristoire Naturelle The premer, Pars. 1:34, 6vo.), and in the premer is two pasting of Anatomy and Physical in the two pasting of Anatomy and Physical in the latest and the premer which would fill a volume. ment t when ar ments will salv permit us to give a sketch. e The more mighty developed forms of the class in The minutes sensitive is exhibited, he thus proceeds e meriment rimests if a corium and an epidermie, The secondary matter of a peculiar nature, destined to win when I is imminented. The corium or dermis, as money the Victoriata, is a track, spongy, and very vascular menurane . in is must surface, it is intimately connected with a girst of service membrane, which lines the parieties of the savines in the Constance in the same manner as the recommendations are the internal cavities among the come in the interposition of muscular and bony lavers, when tiver and protect the great cavities, become closely man when these avers disappear as they do in the Crusasset if removement of the important changes that take THE RIGHT RESIDENCE OF the appearatus of locomoti a.

THE DEFINE RESIL RECORD THE Crustocea, is completely overest on its surex surface by a membranous envelope unumaned was bised-ressels, and which must be held in all respons as assingers to the epidermis of the higher unnues. It is never fixed in th e properly membranous SHEEL MENT IN THE TIME of the Crustace at the remain it is interpreted between the corinor and the same revening rands in he cast off, and has the appearance of a meety neither and consistent membrane, in strike of its I heres, as among animals higher in the scale, Theren a sine of mergene mouse, applied to the surface of the merune from which it is an expedition. After the fall of the sat said, it becomes thicker and very considerably inner, reing to the deposition or penetration of calcurrous morecules within its substance, as well as by the addition it new lavers in its inner surface. The degree of hardness mair acquired, however, and the amount of calcareous matter imposited within it vary considerably; in many memoers of the class, it remains semicorneous, in a condiwar similar to that of the integuments of insects, with waters, moreover, it corresponds very closely in point of summeral composition; in the higher crustaceans again, its bunation with albumen is the principal element in the regumentary skeleton of some species, this substance scarcely occurs in the proportion of one or two-tenths in the carapace of the Decapods, which, on the contrary, conm.ns sixty and even eighty per cent. of phosphate and carbonate of lime, the latter substance particularly occurring in considerably larger proportion than the former. With regard to the pigmentum, it is less a membrane or retrudation than an amorphous matter diffused through the outermost layer of the superficial membrane, being secreted like this by the corium. Alcohol, ather, the acids, and water at 212° Fahr, change it to a red in the greater number of species; but there are some species in which it may be exposed to the action of these different agents without undergoing any perceptible change. The epidermic laver hardened in different degrees is the part which mainly constitutes the terumentary skeleton of the crustaces. In the nature it is obviously altogether different from that of the service of the Vertebrata; still its functions most secretary sizes soild than that of are the same, and this physiological resemblance has led metallicity but much firmer and meruralists to speak of these two pieces of organic mechato the restored well used and attended messes to observe or troops and hoose or organic meetre.

common name of skeleton. The tegumentary skeleton of the Crustacea consists, like the bony skeleton of the Vertebrata, of a great number of distinct pieces connected together by means of portions of the epidermic envelope, which lave not become hardened, in the same way as, among the higher animals, certain bones are connected by cartilages, the ossification of which is only accomplished in extreme old see.

in extreme old age.'

This skeleton, or crustaceous frame-work, consists of a series of rings varying in number, the normal number of the body segments being twenty-one. Instances of a larger number are rare, and a less number seldom occurs; one or more rings may be apparently absent, but in such cases they will generally be found consolidated as it were. In the embryo the segments are developed in succession from before backwards; the posterior rings, therefore, are generally absent when the number is defective. Each ring is divisible into two arcs, one upper or dorsal, the other lower or ventral. Each are may present as many as four elementary pieces. Two of these united in the mesial line form the tergum, the sides of this upper are are framed of two other portions denominated flanks or epimerul pieces. The lower are is a counterpart of the upper. Two of the four pieces into which it is divisible constitute the sternum, situated in the mesial line, and are flanked by two episternums. These two arcs do not cohere at their edges, but a space is left for the insertion of the lateral appendages or extremities which correspond with them. (Milne Edwards. Audouin.)

The one-and-twenty rings above mentioned are generally divisible into three sections of seven each, and may be considered as corresponding with the three regions which zoologists have generally consented to recognize in the bodies of the crustaceans, under the denominations of a head, a thorax, and an abdomen, but the student should be on his guard against the false impressions which, as M. Milne Edwards observes, are likely to arise from these terms, by their leading the mind to liken them to the grand divisions in the Vertebrata, which are defined by the same expressions.

The cephalo-thoracic portion and carapace first claim our attention, and the latter acquires its greatest development in the Decapods. 'In these animals,' says M. Milne Edwards,' the frame-work of the body does not appear at first sight to consist of more than two portions, the one anterior, formed by the carapace, and representing the cephalic and thoracic segments conjoined; the other posterior, formed by the abdomen. In reality, the first fourteen rings of the body are covered by this enormous buckler, and are so intimately conjoined as to have lost all their mobility; the whole of the thoracic segments thus hidden below the carapace are connected with it in their superior parts; they are only joined with one another underneath and laterally; and their tergal parts, having, in consequence of this, become useless, are no longer to be found, being in some sort replaced by the great cephalic buckler; thus the whole of these rings, in conformity with this arrangement, are imperfect and onen alove.'

imperfect and open above.'

The subjoined cut represents the carapace of a Brachyurous or short-tailed crustacean, and the regions of which it is composed, named after the viscera and organs protected by them.



[Carapace of Carcinus munas (Cancer munas, Linn.]

a. a. Region of the stomach, or stomachic region; b. genital region; c. cordial region: d. posterior hepatic region; c. c. branchial regions; f. f. anterior hepatic regions.

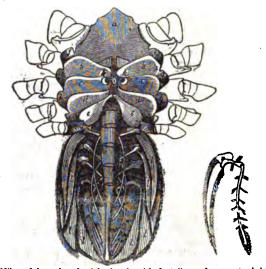
And the following represents the carapace of a Macrou rous or long-tailed Crustacean.



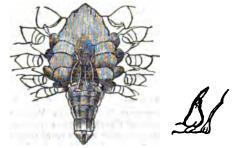
[Carapace of Astacus fluviatilis, common crawfish.]

a, Stomachic region; b, genital region; c, cordial region; d, posterior hepatic region; c, c, branchial regions.

The abdomen is most fully developed in the Macroura, or long-tailed Crustaceans, in many of which it becomes a very important organ of motion, and in them there is a comparatively small development of the carapace, while in the Brachyura, or short-tailed Crustaceans, this rule is reversed, the abdomen being comparatively small, and the great development taking place in the carapace, illustrating the 'loi de balancement organique' of M. Geoffroy St. Hilaire. The types above alluded to, the common crab and common lobster, afford striking examples of this law of organic equivalents.



[View of the underside of the female, with the tail or andomen extended.] a,b,c,d,e, sternal pieces; f,g,h,i, interesternal pieces; h,h, external apertures of the female organs of generation; i,l,l, abdominal appendages or false feet. The detached figure represents one of these appendages removed from the abdomen.



[View of the under side of the male, with the exciting or directing organs. The letached figure represents one of these organs with the abdominal appendage or false foot beneath it].

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The hand shearh formed by the tegumentory 2 . he musicest ind which includes in its interest Le Vicinia de lissera and riber soft parts of these animolis, required a second restricted as not to oppose locomotion; . we also dere must et der between the different ritus are arous constituent elements of the line's as a some a place inferent pieces. The structure arous as a some inferent pieces. The structure arous as a soft the most simple kind; the move which was a read which precedes it by two hinge-like The state of the transfer experience of a line perpendicuthe motion takes place. In the motion takes place. In the cover he persons there exists a notch of greater or less rout, ics and to a lant of flexion, whilst on the opposite This kind of articulation, whilst it s the most in table to precision of movement and the strong to as the loss lyantage of admitting motion in the stranger of the rings of the loss, herefore the whole of the rings of the loss, the Lass of the loss, the Lass of the design entirely parallel, cannot move sive a a vertical plane; but nature has introduced a kind of a creenee of this disadvantage in the structure of the little. be charming the directions of the articular axes, where And the side that makes the possibility of general motions being performed in every direction. Between the two fixed points two possess the possibility spaces are observed, left by the rings severally,

<sup>•</sup> There is a most interesting series of preparations in the Museum of the Courge of Surgeons, showing the process of moulting. See p. 193.

and destined to admit of the occurrence of motions of flexion and extension. The tegumentary membrane which fills it never becomes encrusted or calcareous, but always continues soft and flexible.

'The tegumentary skeleton supplies the apparatus of loco-motion with fixed points of action as well as with the levers necessary to motion. The immediate or active organs of this apparatus are the muscles, the colour of which is white, and the structure of which presents no peculiarity worthy of notice. They are attached to the pieces which they are required to move either immediately or by the intermedium of horny or calcareous tendons, which are implanted upon the edge of the segment to which they belong. To the fixed point they are most commonly attached immediately. Their structure is simple, and each segment in fact, as has already been said, being contrived to move in one fixed and determinate plane, the muscles which communicate motion to it can constitute no more than two systems antagonists to each other, the one acting in the sense of flexion, by which the segment moved is approximated to that which precedes it, the other in the sense of extension, by which the segment is brought into the position most remote from the centre of motion. The muscles that produce these opposite effects, as might have been concluded, are found implanted into the opposite arms of the lever upon which their energy is extended.

'The motions in flexion tend universally to bring the extremities and the different rings towards the ventral aspect of the body; it is consequently upon this aspect that the flexor muscles are inserted, and these are in general the more powerful. On the contrary, and in accordance with the nature of the motion produced, it is upon the superior or dorsal aspect of the segments that the exterior muscles are attached. In the trench the two orders of muscles generally form two distinct layers, the one superficial, the other deep; the former thin and sometimes absent, the second, on the contrary, very powerful wherever powerful motions are required. The muscles generally extend from the are above to the one immediately below, passing for the most part from the anterior edge of the upper to the anterior edge of the lower segment. The extent and the direction of the flexion of which any segment is susceptible depend on the size of the interannular spaces above or below the ginglymoid points, and as these spaces are in general of considerable magnitude on the ventral aspect, whilst the superior arcs are in contact, and can only ride one over another in a greater or less degree, it is only downwards that the body can be bent upon itself, while upwards, or in the sense of extension, it can hardly in general be brought into the horizontal line.

Thus far what has been said applies more especially to the rings of the body, but the extremities present nothing that is essentially different, either as regards the mode in which the tubular segments are articulated to one another, or as regards the mode in which the muscles are inserted. Each of these indeed having but one kind of motion, and even that very limited in its extent, nature has aided the deficiency, as has been stated, by increasing the number of articulations, by which extent of motion is conferred, and in varying the direction of the articular axes, an arrangement by which the animal obtains the ability of moving in every direction, but at the expense of power, rapidity, and precision in its motions. Each segment of a limb incloses the muscles destined to move that segment which succeeds it, unless it be too short and weak for this end, in which case the muscles themselves have their origin at some point nearer to the medium plane of the body. As a general law the muscles are observed to be more powerful in proportion as they are nearer to the centre, which is to be explained by the fact, that each motion they then communicate is transmitted to a larger portion of a limb, to a lever longer in that sense in which it is disadvantageous to the power. Occasionally however the two last segments of a member are converted into a sort of hand, and in this case the penultimate segment sometimes includes a muscular mass, which may surpass in power the same system in the whole of the limb besides. Those muscles that put an extremity generally into motion are attached to the sides of the thoracic cavity, and the apodemata supply them with surfaces of insertion of great extent, and very favourably situated as regards their action. They occupy the double rank of cells formed by these lamins, but they vary too much in their mode of arrangement to admit of our saying unything

generally upon this head. The motion of translation or from place to place, the only kind upon which it seems necessary to say anything here, are effected in two modes, either by the alternate flexion and extension of the trunk, or by the play of the limbs.

'In those Crustaces which are formed essentially for swimming, the posterior part of the body is the principal agent in enabling the animal to change its place; but here the motions, instead of being lateral, are vertical; and instead of causing the creature to advance they cause it to recede: it is by bending the abdomen suddenly downwards, and bringing it immediately under the sternum, that it strikes the water, and consequently by darting backwards that the animal makes its way through the liquid. (Astacus, vol. ii., p. 513.) From what has now been said it may be imagined that the Crustacea whose conformation is the best adapted for swimming have the abdomen largely developed, and this is in fact what we always observe; the Amphipoda and Decapoda Macroura are examples; whilst in the walking Crustacea, such as the crabs, the Caprella, the Oniscus, &c., this portion of the body attains but very insignificant dimensions. In the swimming Crustacea, the appendages of the penultimate segment of the abdomen also become important organs of locomotion, inasmuch as they for the most part terminate in two broad horizontal plates, which, with the last segment, also become lamelliform, constitute an extensive caudal fin arranged in the manner of a fan. We have already said that the thoracic extremities alone constitute true ambulatory limbs. When destined for swimming only, their segments are lamelliform, and the palp, as well as the stem, contributes to form the kind of oar which each of them then constitutes.

'To conclude, the stemmatous portion of the thoracic extremities, whilst it still preserves the general form which we have assigned it, is modified in some cases to serve for walking as well as swimming, or to aid the animal as an instrument for burrowing with facility, and making a cavity for shelter among the sand. Thus in the Decapods that burrow, the last segment of the tarsus assumes a lanceolated form, and in the swimming Brachyura, the same segment, especially of the last pair of extendities (Matuta, for expectation) appropriate antique laterally.

ample), appears entirely lamellar.'

We have only further to add, that in a great number of species one or several pairs of the thoracis extremities are modified so as to become instruments of prehension; sometimes it is the last segment of the limb which, acquiring more than usual mobility, bends in such a manner as to form a hook with the preceding segment; sometimes it is this penultimate segment which extends below or by the side of the last, so as to form a kind of immoveable finger with which it is placed in opposition. In the first instance these instruments are denominated subcheliform claws, in

the second chelæ simply, or cheliform claws.

Any one who will take the trouble of going over this excellent description with a common crab and lobster before him, will have a clear idea of the locomotive system in these animals.



[Claw (cheliform) of Thelphuse fluviatilis.] moveable finger; 5, hand (manus) and immoveable finger; c, carpus, ec



[Posterior foot of Thelphusa fluviatilia.]

s. Hanneh (hanche); 5, trochanter; 6, thigh (femur); 6, leg; 6, metalities; f, tarsus, or nail.

Organs of Digestion.—The cheliform or subcheliform claws may be considered as ancillary to this important part of the organization of the Crustacea; and there are other parts, the details of which we proceed to give before we enter at large into this part of the subject.



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the union of the modullary nuclei is accomplished, the appercimeted chains forming a single longitudinal series from need to tail.

In the types, as might be expected, the centralizing system is perfected by the actual conjunction of the nuclei, and here we ment refer the student to the works above mentoned, more especially to those of Rathke, of Audouin, and Milne Edwards, and of Mr. Newport, and the beautiful perpendicular is illustrative of this part of the organization of the crustaseans in the museum of the Royal College of Surgman in London (Gallery, Nos. 1301 to 1303 B, both inclusive. We would particularly draw his attention to No. 1012 A persented by Mr. Newport, 'showing the anterior and pesterner, or motor and sensitive tracts, which constitute the excelest or spinal column,' &c.; and to No. 1303 A, exhibiting the nervous system of Scyllarus antarcticus, and 161 B. awing pen that of Pagurus pedunculatus, and 161 B. awing pen that of Pagurus pedunculatus, and prepared by Mr Owen. Mr. Newport's excellent and instructive parer 'On the nervous system of the Sphing remarked instructions of the nervous system of the lobstor, and snowing as mentally an armeiple with that of the Sphing, should be therefully saidlered.

The non-using farmed by M. Milne Edwards in his History is that the nervius system of the crustacea consists and may if metallity suclei (ganglions), the normal milner if when is the same as that of the members or there is the rot and this all the modifications encountered, whether it takened periods of the incubation, or in different means if the series, depend especially on the approximation more if the series, depend especially on the approximation when makes place from the sides towards the median life. Is well as in the longitudinal direction), and to an invest it intercomment occurring in a variable number of the little.

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The figurest legree of nervous centralization is found in form according at M. Milne Edwards, who lays down the figure with millioness the result of the experiments made by number and M. Alchain, and his deep and elaborate investions of the subject.

The pervola system is the system which entirely presize over the sensations and motions.

2. The necrous cords are merely the organs of transmission in the sensations and of volition, and it is in the gandless that the power of perceiving the former and of protioning the latter resides. Every organ separated from its

It is not be recedly loses all motion and sensation.

It has been if the ganglions have analogous properties; the hours of determining motions and receiving sensations have a new in the second motions and the action of each is by which the ganglionic chain is nearly uniform the sense the ganglionic chain is nearly uniform the sense the apparatus being destroyed in either portion the apparatus being destroyed in either portion the apparatus being destroyed in either portion in marked—always understood, that both are of considered size because, when a very small portion only is so that may the rest of the system, this appears too weak, as a very it continue its functions, so that sensibility and the rest of the system, the substitute of the rest, its action becomes essential to the appears to the functions of the whole.

This is not be imagined, however, from this that sensitive faculty of exciting muscular contractions are ever commercily concentrated in the cephalic ganglions, and a seems to us calculated to convey a very inaccurate the sense of the mature and functions of these ganglions to speak at them under the name of brain, as the generality of them under the name of brain, as the generality of the sense have been led to do, seduced by certain inconclusive analogues in point of form and position.

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lost in the posterior than in the anterior half, and this dis-proportion is by so much the more manifest as the division is performed more posteriorly; still there is a great inter-val between this first indication and the concentration of the faculties of perception and of will in a single organ—the brain, of which every other portion of the nervous system then becomes a more dependency.' (Cyclo. of Anai. and Phys.)

Sight.—This sense is possessed by the whole of the class at some period of their lives, and in the great majority the organ is of a highly complicated structure. The parasitic crustacea, which undergo a kind of metamorphosis, possess eyes in the early stage of their existence, though they are subsequently obliterated; but the great mass of crustaceans are gifted with the power of distinguishing objects through the medium of light from their birth to their death. We will now examine the different forms presented by the

visual apparatus.

Smooth or simple Byes.—These consist of a smooth rounded transparent cornea, being a modification of the tegumentary membrane, immediately behind which, and in contact with it is the crystalline lens, generally spherical, and behind this last and in contact with it is a mass of gelatine, which performs the function of the vitreous hu-mour, and touches the extremity of the optio nerve. A thick deep-coloured pigment envelops the whole and lines the inner surface of the eye-globe up to the point at which the transparency of the cornea begins. Limulus (Molucca crab, king crab) affords an example of this kind of eye. The simple eyes have never been found to exceed two or three in number.

Intermediate Eyes .- Nebalia, Branchipus and Daphnia present us with the first modification of a visual structure intermediate as it were between the simple and the con pound eyes. In this organization the cornea is still undivided externally, but a number of small crystalline lenses and vitreous humours, each in its separate pigmentary sac and terminating in immediate contact with the optic nerve, present an eye consisting of a conjunction of several stemmata or simple eyes under a common cornea—Apus [Binoculus], besides its pair of simple eyes, has also a posterior compound pair. The second modification, which is to be found in the Edriophthalmians (Amphithoe, for instance), brings us still nearer to the truly compound form with distinct facets. Two transparent laminse form the corneg in these crustaceans: the external is smooth and undivided, the internal divided into a variable number of hexagonal facets, each with a distinct cornea which are superposed upon the conical crystalline lens, which is an ingredient in compound

eyes properly so called.

Compound Eyes.—The external and internal membranes, the junction of which forms the cornea, present simultaneously the division into facets, each of which forms anteriorly an ocular compartment. Unlike the facets in the eyes of insects which are always hexagonal, these present various figures in different crustacea. In Scyllarus, Gulatheu, the common crawfish, &c., for example, they are quare: in Pagurus, Squilla, the crabs, &c., they are hexagons. The crystalline humour that succeeds them immediately, is, according to M. Milne Edwards, of a conical form, and is followed by a vitreous humour having the appearance of a gelatineus filament, adhering by its base to the optic nerve Bach of the columns thus formed is, moreover, lodged within a pigmentary cell, which likewise covers the bulb of the optic nerve. 'But the most remarkable circumstance is, that the large cavity within which the whole of these parallel columns, every one of which is in itself a perfect eye are contained, is closed posteriorly by a membrane, which appears to be neither more nor less than the middle tegumentary membrane pierced for the passage of the optic serve, so that the ocular chamber at large results from the separation at a point of the two external layers of the gene-ral envelope." \* \* \* The most remarkable modification of facetted eyes consists in the presence of a kind of supplementary lens, of a circular shape, and set within the cor-nea in front of each proper crystalline lens. These small lenticular bodies exist independently, and are perfectly distinct from the small corneal facets. In some cases they might be mistaken, (in the *Idote a* for example, where they may be perceived singly, and with their distinct circular forms,) and the incautious observer led to conclude that the neal facets are merely these lenticular bodies so much salarged that their hexagonal or square forms result from

their agglomeration in a point; but there are crustaces, such as the Collianasse, in which these two elements of the external cornea may be perfectly distinguished, the lenticular body being of insignificant dimensions, and occupying the centre of the corneal facet only. In general, however, the diameter of the lenticular body is equal to that of the corneal facet itself, so that their edges blend. Further, the lenticular bodies are most commonly evolved in the substance of the cornea; but there are cases in which, under favourable circumstances, they may be detached from it. Although the existence of these different modifications must not be considered as being exclusive, inasmuch as there are certain crustacea which exhibit more than one of them at the same time, for instance, stemmata and compound eyes, the latter only are the species of visual organ encountered in the great majority of cases. Their general number is two; but these are occasionally united, so as to form a single mass, and make the animal appear, at first sight, as if it had but a single eye. This peculiarity of organisation can even be followed in the Daphnia [Branchiopoda], in the embryo of which the eyes are first seen isolated; with the progress of the development, how-ever, they are observed gradually to approach each other, and finally to become united. Stemmata are always im-moveable and sessile; the compound eyes with smooth corneæ, however, although in the majority of cases they present the same disposition, now and then occur moveable: sometimes they are supported by a pedicle, moveable in like manner and provided with special muscles. The eyes with facets present the same modifications, and even supply important characters in classifying these animals: thus in the *Edriophthalmia* the eyes are always immoveable and sessile, whilst in the *Decapoda* and *Stomapoda* they are supported upon moveable stems of very various lengths, and which every consideration leads us to view as limbs or appendages of the first cephalic ring. It some-times even happens that in these animals, between the outer edge of the carapace and the base of the antennæ, there occurs a furrow or cavity, within which the eyes may be withdrawn or laid flat, so as to be out of the way of injury; this groove or cavity is generally spoken of under the name of the orbit. (Cyclo. of Anat. and Phys.)

In some of the forms (Maia for instance) there is a fringe of hairs on the inner side of the orbit, so placed as

to perform the office of a brush in wiping the eye when

brought into contact with it.

brought into contact with it.

Hearing.—A cavity full of fluid, supplied with a nerve fitted for the perception of impulses of sound, forms the basis of the auditory system in the crustacea. This apparameters are the crustacea. ratus is assisted by certain organs, elastic membranes, and rigid stems for instance, organized so as to vibrate under the action of sonorous undulations, or to assist such vibration. The long rigid stem formed by the antennæ of the second pair assists in this function, and, according to the highly interesting experiments of M. Savart, the addition of such a rigid stem renders certain vibrations appreciable, which, without such a conductor, would be imperceptible. In many of the forms (Maia for instance) there is an ossiculum auditus.

In the museum of the College of Surgeons (Gallery, No. 1559 A) is a Hermit Crab (Pagarus Miles, Oliv.), prepared by Mr. Owen to show the organ of hearing, which is composed of a simple vestibular cavity situated at the under part of the basal joint of the external antenne. The cavity is surrounded by a dense crustaceous substance, except at the internal opening, where the auditory filament of the antennal nerve penetrates it, and at the opposite side, where an elliptical opening or fenestra is left, which is closed by the acoustic membrane: the membranes of sound affect this membrane, and are transmitted to the nerve, which is exposed on the left side. (Owen., Cat. of Physiolog., series., vol. iii., part 1).

Smell.—Every lobster-pot that is baited on our coasts

affords evidence that the Crustaceans are endued with the sense of smelling, but where the organ is seated is doubtful. M. de Blainville placed it in the antennes, where it cer-tainly does not reside, according to M. Milne Edwards, who further states that the opinion of M. Rosenthal, who as-cribes the function to a cavity which he discovered at the base of the first pair of antennes, requires to be supported

by direct experiment.

Taste.—Though the crustaces have no true tongue, their selection of feed and the preference execused by them,



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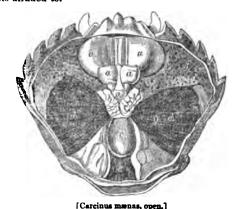
The reserves and mechanism of the ovum, though a subere in the angree in cost, would, if detailed, occupy more war the call is all fied to the department which now actives our attention, and we must content ourselves with status the makerty of the class do not make their exit

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from the egg till the whole of the organs necessary to their condition are developed, and till their form presents but slight differences from that which is presented by the adult animal. But it is otherwise in many of the crustaceans, especially those of the lower class, which may be said to be born prematurely, and then have to pass through a series of changes which have been properly termed metamorphoses before they reach their final shape. M. Milne Edwards observes that these changes, whatever their amount, depend on the following circumstances:—1st. The authorities of the permaturely work of development. continuation of the normal work of development. 2nd.

The unequal growth of different parts of the body; and, 3rd. The atrophy and complete ultimate disappearance of certain parts.

The following cut will convey some idea of the relative position of the parts in the carapace, and that of Thelphusa fluviatilis (p. 189) of the relative external position of the organs alluded to.



a, a, a, a, a, stomach; b, b, genital organs; c, heart; d, d, branchim; e, f, f, livet.



[Astacus fluviatilis, open.]

 $a, a, a, \sigma$ , stomach; b, genital organs; c, heart; d, d, d, d, d, liver; e, e, brancher: f, f, muscles of the mandibles.

Geographical Distribution.—The class is most widely distributed, and the form seems adapted for every climate.

Place in the Animal Series.—The insects and arachnidans are the forms to which the crustaceans bear the greatest relations.

# Systematic Arrangement.

Almost every writer on this interesting class of animals has embodied his own views in their classification. Among the principal zoologists who have written on the subject, the names of Cuvier, Desmarest, Latreille and Leach, will, with many others, occur to the observer. We select the arrangement of M. Milne Edwards, because it is founded on anatomical investigation, and on actual experiment made in a great many instances by himself and M. Audoain.

M. Milne Edwards, then, makes the Crustacea to consist of two great divisions.

1st. Of those which have the mouth furnished with a certain number of organs, destined in an especial manner to the prehension or division of the food.

2nd. Those which have the mouth unfurnished with special prehensile or masticatory organs, but surrounded by ambulatory extremities, the bases of which perform the part of jaws. We shall take this second division first because it contains but one order, viz., the XYPHOSURA (Xi-

phosura). Example, Limilus.

But it is to the first division that the great mass of the crustaceans belong, and these are subdivided into two great

groups.
1st. The Maxillosa or Mandibulata, which possess a

mouth armed with jaws, &c.
2nd. The EDENTATA or HAUSTELLATA, whose mouth is prolonged in the shape of a sucker.

The Maxillosa are separated into four great sections.

# PODOPHTHALMIA.

These almost always possess true branchia, pedunculated and moveable eyes: feet or extremities vergiform, partly prehensile, partly ambulatory; and a thorax covered by a

The Podophthalmia contain two orders, the Decapoda

and Stomapoda.

1st. DECAPODA, whose branchize are fixed to the sides of Ist. Decapoda, whose branchiæ are fixed to the sides of the thorax, and are inclosed in special respiratory cavities. The oral apparatus is composed of six pairs of members. There are five pairs of thoracic extremities, which are generally ambulatory. The Decapoda are divided into 1st, the Brachyura (Cancer, Portunus, Grapsus, &c., &c.); 2nd, the Anomoura (Dromia, Ranina, Pagurus, &c., &c.); 3rd, the Macroura (Astacus, Scyllarus, Palæmon, &c., &c.).

2nd. Stomapoda, whose branchiæ are external; sometimes rudimentary or none. Oral apparatus composed in

times rudimentary or none. Oral apparatus composed in general of three pairs of members. Thoracic extremities general of three pairs of members. Thoracic extremities prehensile or for swimming; generally six or eight pairs. (Mysis, Phyllosoma, Squilla, &c., &c.)

### II.

## EDRIOPHTHALMIA.

True branchise none, but replaced by certain portions of the extremities modified ad hoc in their structure; eyes sessile; thoracic extremies ambulatory, almost always consisting of seven pairs; no carapace. The Edriophthalmia contain three orders, viz., the Amphipoda, the Læmodipoda, and the Isopoda.

1st. Amphipoda. These have the palpi of the thoracic extremities vesicular, and subserving respiration. The ab-domen is very much developed, subserving locomotion, and is furnished with six pairs of limbs, the three first of which differ in form and use from the three last. (Gammarus, Talitra, &c., &c.)

2nd. LEMODIPODA. Abdomen rudimentary. Palpi of

2nd. Læmodifold. Addomen futiliterary. Lapl of the thoracic extremities vesicular and subserving respiration. (Proto, Caprella, &c.)

3rd. Isoroda. Abdominal extremities well developed; the five first pairs lamellar and subserving respiration. Abdomen well developed. (Idotea, Spheroma, &c., &c.)

# BRANCHIOPODA.

No true branchiæ, but thoracic extremities lamellar, membranous, and so formed as to be subservient to respira-The Branchiopoda contain two orders, Phyllopoda and Cladocera.

1st. Phyllopoda. No bivalve, shell-like covering. Extremities natatory, and in considerable numbers (from 8 to 22). (Branchipus, Limnadius, &c., &c.)

2nd. CLADOCERA. Carapace in form of a bivalve-shell. Thoracic members five pairs. (Daphnia, &c.)

# IV.

## ENTOMOSTRACA.

No branchiæ, nor any modification of organ apparent to No branchie, nor any modification of organ apparent to supply the place of these. Eyes sessile, and commonly united into a single mass. The Entomostraca contain two orders, viz., the Copepoda and Ostrapoda.

1st. Copepoda. Body divided into distinct rings, neither carapace nor valvular envelope. Thoracic and oral members in considerable numbers. (Cyclops, Pontia, &c.)

2nd. Ostrapoda. Body without very evident annular

divisions, and entirely inclosed under a large dersal shield | pipe into a transparent globule, which becomes opaque on having the form of a bivalve-shell. Extremities in very | cooling. small number. (Cypris, &c.)

### 2. RDENTATA

The EDENTARA contain three orders, viz., the Araneiformes, the Siphonostomata, and the Lernasiformes.

1st. Anameirormes. Extremities rod-like, long, adapted

for walking. (Pycnogonon, Nymphon.)

2nd. SIPHONOSTOMATA. Extremities not adapted for walking; partly lamellar, partly prehensile. (Caligua, Dichelestion, &c.)

2rd. LERNEIFORMES. Extremities rudimentary, body presenting anormal forms. (Lernæa, &c.)

## FOSSIL CRUSTACEA.

Crustacea occur in a fossil state throughout the series of fossiliferous beds. One form now extinct appears to have been among the earliest of the created beings whose remains have been preserved to us. The Trilobitic type is to be traced from the ol est fossiliferous strata to the coal-measures; and the Decapoda have been found below the chalk, in the chalk, and in some of the most recent deposits. Even the branchim and eyes of some of these fossil crustaceans are in a high state of preservation. The details of this part of the subject will be found under the heads treating of the families and genera noticed in this work whose organic remains have been discovered.

CRUTH, or CRWTH, a musical instrument of the violin kind, formerly much used in Wales. Sir John Haw-kins says that 'it somewhat resembles a violin, twenty-two inches in length and an inch and a half in thickness. It has six strings, supported by a bridge, and is played on by a bow. . . . . . The bridge is not placed at right angles to the sides of this instrument, but in an oblique direction. and one of the feet passes through one of the sound holes, and rests on the inside of the back.' The four first strings are placed as in the violin, but the fifth and sixth, which are an inch longer than the others, are fixed to the upper part of the instrument in the manner of the arch-lute [Lutz], and unconnected with the finger-board. According to the same writer the notes of the Cruth were these:—



from which we are led to suppose that the strings were struck in pairs—two at a time.

The word Cruth was corrupted in pronunciation into croud; hence a performer on the instrument was called a crowder. Butler, in *Hudibras*, names his fiddler *Crowdero*. (Hawkins' *Hist.*, vol. ii.)

CRUX, a southern constellation formed out of Halley's observations, by Augustin Royer, in his maps, published in 1679. It is situated close to the hinder legs and under the body of Centaurus.

Charactes.	No. 12 Cal	ude.	
	La Caille. Fallows.	Astron. Society.	Magnitude
	1060 C	1394	44
8	1070 C	1406	3
E	1076 C	1421	14
<b>@</b> 2	1082 C	1427	1
γ	1088 C	1439	2
β	1107 C	1473	2
α¹	139 Fa.	1426	4

CRUZ, SANTA.

CRUZ, SANTA. [SANTA CRUZ.]
CRUZ, VERA. [VERA CRUZ.]
CRYOLITE. This mineral is a fluate of soda and alumina; it is of a white colour, or reddish, or yellowish-brown, and its streak is white. It occurs in crystalline masses, but its primary form has not been observed; its cleavage is parallel to the terminal and lateral planes of a rectangular prism. Its specific gravity is from 2.94 to 2.963. It is not so hard as fluor spar, is translucent, and by immer-sion in water becomes transparent. It fuses by the blow-

tooling.
It is found at Arksut-flord, in West Greenland. cording to the analysis of Vauquelin it consists of-

Fluoric ac	id and	water		47
Soda .	•			32
Alumina	•	•	٠	21
				100

CRYPSIRI'NA. [TEMIA.]

CRYPT, a low-vaulted chamber, the vaulting of which is supported on columns, and the basement walls of a church or cathedral. Crypts are usually without windows, and when seen by torch-light their simple and massive architecture has a gloomy appearance. Some crypts have become the receptacle of the monuments of the dead, as at the abbey of St. Denis. Crypts are far from being common to all churches and cathedrals. There are some interesting views of crypts in Dugdale's 'Monasticon.'

CRYPTOCE PHALUS (Geoffroy), a genus of Celeopterous insects of the section Cyclica, and family Chry or melidee. Technical characters:-antenne fliform, nearly as long as the body; palpi with the joints nearly of equal thickness; head deeply inserted into the thorax, small and vertical; thorax nearly as broad as the elytra; body short and cylindrical.

Upwards of twenty species of this genus are found in opwards of twenty species of this genus are found in this country; the most abundant species is Cryptocephalus sericeus: this little beetle is of a brilliant golden green colour, and about a quarter of an inch in length; it is found during the month of July in the flowers of the Hieracian and similar plants.

Cryptocephalus Lineola is about the same size as the last, and is found on oak trees, hazels, &c.; it is black and glossy; the elytra are red, and have an oblong dash in the

middle, and the suture and outer margin black.
CRYPTOCONCHUS, a name given by some soologists to those Chitonidae whose shelly plates are entirely hidden by the investing border. [Chitons; and Zool. Journal,

vol. v., p. 28.]
CRYPTOGA'MIA, the twenty-fourth class of the Linnæan system of plants. It includes all those genera the flowers of which are either altogether absent or formed upon a plan different from that of ordinary plants. Ferns, mosses, lichens, algae, fungi, with their immediate allies form the class, which is the same as the Acotyledons of

Jussieu, and the Cellulares of De Candolle.

CRY'PTONYX. [TETRAONIDE.]

CRYPTO'PHAGUS (Herbst), a genus of Coleopterous insects of the family Engides. They are minute beetles, which are found in fungi and in flowers, and some of the species are common in damp cellars.

The Cryptophagi are seldom more than an eighth of an inch in length, generally of a pale brown colour, and more or less pubescent. They have the antennse rather thick and eleven-jointed; the basal joint is thicker than the seven following, and the three apical joints form an elongated knob; the terminal joint is somewhat conical, and the two preceding joints are consequent. conical, and the two preceding joints are cup-shaped; the head is nearly triangular, inserted into the thorax as far back as the eyes; the thorax is nearly square, and the lateral margins are more or less denticulated; they usually exhibit an obtuse tooth-like process in the middle; the elytra are elongate; the sides are generally straight and parallol, or nearly so, and the apex is rounded.

About sixteen species have been found in this country.

Cryptophagus bituberculatus is sometimes abundant in

puff-balls, and probably inhabits other fungi.
CRYPTOPROCTA. [VIVERRIDE.]
CRYPTORHY'NCHIDES (Schoenheer), a family of Coleopterous insects (section Rhynchophora), the species of which are chiefly distinguished by their possessing a gravore in the chest into which the rostrum is received when at

This family contains upwards of twenty genera, of which the genus Cryptorhynchus may be considered as the type. The characters of this genus are:—antennæ twelve jointed, short, funiculus seven-jointed; the first joint rather longer than the rest; club oval or oblong-oval; rostrum moderate, rather arched; thorax often broader than long, narrower towards the new and familiable with the new and familiable with the new the seven are the seven and familiable with the new the seven are the seven and familiable with the seven are the seven and familiary than the seven are the seven and the seven are the seven and the seven are the se towards the apex, and furnished with tufts on the anterior part; elytra somewhat ovate, covering the abdomen; scu-

telling distinct; long trackersis, formers of the arrand with a spin because.

Eff the sames a payords of ninets against one known, only one of arrand intensity England—Cropetor typedra Laparets.

Eth backs as less than half an make in batteria, and of a trial backers is less than half an make in batteria, and of the same, and is frequential on the upper part with five block ratio, two on the anterior part must the ever, and direct in a time a little belowd those, one in the raddite of the romes, and one in the color of the romes, and while at the agest, and are strong white at the agest, and are strong white at the agest, and are studied with mome tone of a finite for the color of the role of the matter of Register's when temperature in a passe below in the matter of Register's when temperature high most of the tribe, it contracts the long and falls to the ground.

in the countries.

CHYPHIPWRYMA. (Consequent amountains, vol. vi., p. 04.),
CHYPHIPWRYMA. (Trystages)

ERVECALLINE LEAR. [Eye.]

CHYPTALINE LEAR. [Eye.]

CHYPTALINE LEAR. [Eye.]

consists, put if p predictely allow to indeceded in a minimum of a consist, a consist as a collection of minimum of a consist and a consist of a consis

operation of the source of a common discussed in compact of the source of a common discussed in compact of character frequently occurs among minimals, and in this terminal a collection outlier arrand.

If the exempts of this cubic wave to be out off, so so to take away equal persons of the three collections does not off the produced which it said to be decreed from the onless.

Of the sulps, were to be all cut of, so as to produce now surpasse, making equal angles with the adjacent school for rule, smither derived from would result. In these man, the value would be deemed the prowery form, and the derived figures recombery formed the prowery form, and the formed figures recomberly formed the color.

Simulate are very governedly known by these princes former that as these are of different knows, and so manned arrands are very governedly found in accordary forms, from which the primary is to be inferred, a drowledge of the same relations of the primary and accordary forms a requiring to outside the minoral-goal to demonstrate the provery from the secondary, and insee to arrive at a knowledge of the inferred in which any great arrive at a knowledge of the inferred in which any great arrive at a knowledge of the inferred in which any great arrive at a knowledge of the inferred in which any great arrived to arrive at a knowledge of the inferred in which any great arrived to arrive at the secondary to the secondary and inseed to arrive at a knowledge of the inferred in which any great arrived to the three tends, via.

The subject may therefore he amendayed make three leads yis.—

Frymary forms.

Narrandary forms.

The holes of decination, or the mutual relations of the mainry for may primary.

The holes of decination, or the mutual relations of the mainry and grantly.

To which we prop — is add some account of the mainry of or, subjection, and of the mainry of or, subjection, and of the mainry of or, subjection, and of the mainry in which return crystals may be supposed to have been preduced.

We must have earlied the company of the rabe will be transitive and angles, and so of the color will be transitive of addering or adject the result of the frameday.

What we have subject to the entire or points of addering property of the rabe will be transitive.

What a place of done resulting from each of the primary force amentations a period of a subject to the primary force.

A prime is a solid figure, but the subject when placed on states of a subject and is two ends parallel.

A prime is a solid figure, but he have in the direction of one of a primary force.

A prime is a solid figure, the base in the direction of one states of a primary force.

The solid and a subject the base in the direction of one of a primary of the subject to the subject of a primary of the subject of the subject of a primary observed in a subject of the subject of an expect of a primary observed in a subject of the subject of a primary observed in a subject of the subject of the subject of a primary observed in a subject of the subject of a primary observed in a subject of the subject of a primary observed and the subject of the subject of a primary observed in a subject of the subject of the subject of a primary observed in a subject of the subject of a primary observed and the subject of the subject of a primary observed and the subject of the subject of a primary observed as a subject of the subject of a primary observed and the subject of the subject of a primary observed as a subject of the subject of a primary observed as a subject of the subject of

1 Privates forms

The are in mone degree informity money in a proper from the three following figures, showing the velation

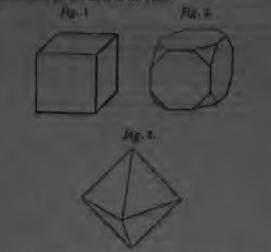
broads the colors and augustic semicolors.

Fig. 1 or 5 miles;

The \$\pm\$ are the colors and augustic semicolors.

taltum distinct; large understo, framera often armost with a pulse formation.

FO the pursue armost appears are known only for obtained as the first pulse.



Now it is, mathematically speaking, indifferent whether we take the subscar the estimation as the privacy form of all the derival figures of this system of crystallication, for two to couldly perceived, facts an estimate comparison is need on the could perceived, facts an estimate which might be predicted on the could be predicted on the could of its solid other would neare pool to partition with the faces of the case, and there which small result from the framewhat of its solid or the could neare pool to partition with those which would nearly from the transaction of the class of the nature. The might therefore be regarded as the severtlary form of the might therefore to regarded as the severtlary form of the same arrival and the transaction of the same active subsitial among the minute and therefore the same active subsitial among the minute forms carry it has remained. The remain for proving the other or the other of these as the primary will be analitated when we treat if the relations of the different true of crystals.

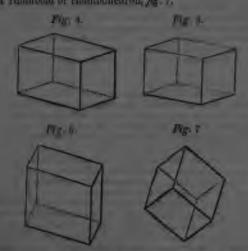
We have for remeans which we shall than state, estimated

We have for remone which we shall then state, assumed the full owing figures as the grimary or fundamental forms of all known strains.

The cate, fig. 1.

The square prime, in which, supposing the lass of this grian to be of the some dimensions as a side of a green cuto, and this and the rule to be both standing on a table, the operight ridges would be longer as aboving that these of the

A right rhombio prom. Re. 4.
An ablique standhio prima, Rg. 5.
A doubly-oblique prima, Rg. 6.
A rhomboid or rhombohedron, Rg. 7.



The color being bounded by the equal square planes, the minutation which assume this form are not distinguishable by the figure of their organity, but minowik which occur

under the other forms may generally be distinguished as

Those which can be referred to square prisms, by the Those which can be referred to square prisms, by the different proportions which, in each particular case, the lateral edges bear to the terminal edges; and those which belong to the other prisms and to the rhomboid, by the angles at which their planes intersect each other. The ratios of the edges of square prisms may be determined by known algebraical formulæ from the angular measurement of some of the secondary forms, and the angles at which the planes of the other forms meet, may, in many cases, be ascertained by measurement with an instrument called a Connowners, but in others they must be deduced called a GONIOMETER, but in others they must be deduced mathematically from some of their respective secondary forms. The treatise on Crystallography in the 'Encycloforms. The treatise on Crystallography in the Encyclopedia Metropolitana' will supply the reader with the formulæ applicable to these purposes.

These six primary forms stand in certain relations to each other, which it may not be useless to point out. If the lateral edges of the cube be supposed to be longer or shorter than the terminal edges, a square prism, as we have already seen, would be produced; if two opposite lateral edges of a square prism could be pressed towards each other, the parallelism being kept, a right rhombic prism would be formed; if this prism could be pressed in the direction of either of the diagonals of its terminal plane, so as to make the figure overhang the base in that direction, an oblique rhombic prism would be represented; and if again sed in the direction of the other diagonal, so that it should overhang the base in both directions, a doubly-oblique prism would be formed. If we suppose a cube to be made to stand on one of its solid angles by placing the fingers on an opposite one, and if, while held in this position, the two solid angles could be pressed nearer to gether or drawn further apart, the altered cube would become a rhambaid ecome a rhomboid.

2. Secondary forms.

These might be produced, and are most conveniently described, by supposed truncations of the solid angles or edges of any of the preceding forms; but as in nature the most minute crystals appear in the shape of secondary forms, it is to be inferred that these modifications of the primary are occasioned by some natural influence operating area to first garm of the crystal and continuing during upon the first germ of the crystal, and continuing during the period of its increase in size.

Secondary crystals are sometimes altered from the primary only by single sets of planes replacing some of the solid angles or edges; in other cases both the solid angles and edges are replaced by planes in the same secondary crystal; and in others, several different sets of planes appear replacing the solid angles and edges of the same crystals, and producing very numerous and complicated secondary forms. Thus it occurs that the solid angles of the cube are sometimes replaced by three and sometimes by six symmetrical planes, of which several sets may occur on the same crystal, and perhaps with other planes replacing the edges. Similar changes of figure may also occur on each of the other kinds of the primary forms, thus producing the different systems of crystallization before referred to.

The number of known secondary forms belonging to each system is already very great; in one mineral, carbonate of lime, they amount to many hundreds; but thousands and tens of thousands more might occur under the operation of only a few of the laws of which we shall afterwards treat.

Among the secondary forms of crystals there are some which differ in their characters from those already described. Let us suppose two diagonal lines to be drawn through opposite angles, and crossing each other on the faces of the cube. It may be observed, by referring to fig. 2, that the solid angles at the extremities of all these diagonals are truncated to produce the octahedron; but it sometimes happens that the solid angles at the extremities of only one of those diagonals on one plane, and a transverse diagonal on a parallel plane, are truncated, producing a four instead of an eight-aided secondary figure; these are termed hems forms, from their presenting only half the number of planes which might be expected from the symmetry of the primary crystal. These defective figures, as they may be termed, from their wanting the number of faces which might be expected on the crystal, are frequently troublesome to the mineralogist, and occasionally mislead him; but there is another, of a much more capricious de-ion from the regularity of the simple forms, which is

still more troublesome than the preceding; these are what have been termed hemitrope and turin crystals. In twin crystals the two individuals are united in such a manner that if one of them be made to describe a half-revolution round an axis perpendicular to a plane, which is either a face of one of the crystals or which might be one in virtue of the laws of crystallography, it comes into the position of

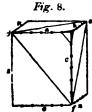
Twin crystals are produced by the union of two or more crystals according to some regular plan, so that if any num-ber of twin crystals of the same kind of mineral should be found, they would be fashioned in the same manner. Hence these apparently capricious composite figures are subject to definite laws, and are not the results of merely accidental There are also two other classes of irregular aggregation. forms of crystals, one of which, termed by Hauy epigene. occurs where a crystallized mineral has undergone a chemical change without disintegration or suffering any change of figure; the form in the altered state of the mineral not being proper to the new substance, but remaining that of the original body.

The other class, termed pseudomorphous, appears as if they had been produced in moulds resulting from the de-struction of crystals of other substances which had been inclosed or embedded in them, and which moulds being filled with some new kind of mineral, the new and intrusive matter assumes the form of the originally inclosed body. and one altogether foreign to its proper shape. Tables of the secondary forms of crystals will be found in the article 'Crystallography' already referred to, and a copious illustration of composite crystals may be seen in the 'Edinburgh

Journal of Science, vols. i. and ii.

The secondary forms of crystals are not derived from the primary by accidental and indefinite truncations of the solid angles and edges, but according to known and definite laws, so that all the possible alterations of figure which any given primary form can undergo, might be determined a priors if the extreme limits of the relative proportions of the edges considered to be cut off in producing new planes were known. Within well ascertained limits, however, many thousands of possible secondary form, belonging to each kind of primary, might be determined with absolute precision.

The laws according to which any secondary planes are produced are termed the laws of those planes. To illustrate the nature of these laws, let fig. 8 represent a square



prism, whose edges abc are each divided into any equal number of parts, which parts are consequently proportional to the respective edges. Now a new plane, which should cut off one proportion from each of the edges a b c, would evidently be parallel to the plane def, whose edges would coincide with diagonals of the primary planes. It would carry us beyond the limit to which we must restrict this paper, if we were to enter upon a geometrical consideration of these lines, and we shall therefore confine ourselves to this statement, that if on any square prism we find a set of planes truncating its solid angles, and if we assume the edges of these planes to be respectively parallel to the disgonals of the primary planes, the ratio or compartive lengths of the edges a and c may be found, and thus the distinction between prisms of different beights belonging to different minerals may be ascertained. Crystals belonging to the other primary forms may generally be distinguished. as we have already stated, by measurement of the angles at which the planes severally incline to each other. But in order to investigate the laws of their respective secondary planes, we require to know the comparative lengths of the lateral and terminal edges, which may be found by means analogous to those we have just described. The rhombel however, whose edges, like those of the cube, are all equal. does not require this preliminary investigation, but the lawof new planes may be determined from measurement alone. Where a plane similar to that shown in \$60, 60 comes on costal shown much disc be touch, from the returns a solid angle of a crystal, it governily serves on all the problems arisinating what Hady has becomed the fact of your disc. Strong the complexity of the conford it will conform that are below before stated in reference to the buby not extend for beyond the submet of the legitly

with y. But, as we have believe stated in principle to the substitute like in measuremently deviated from by the production of only one distributed when the transfer of a sociality plane are a square prism. This country also appears to sook action them is a secondary plane as we made pure ordered another like the plane above in Eg. 5, there are direction to be sold amples.

Fresh and as wealth out off must two these ar more purtains in the edges of and A lair at the same time construction of the edges of and A lair at the same time construction of the edges of and A lair at the same time construction of the edges of and A lair at the same time construction of the edges of and A lair at the same time construction of the edges of and A lair at the same time are more purtains in the edges of and A lair at the same time construction of another them to be a small on the transfer attacks and term c; in if there performs were out from a and three from b, attack one, two, two, two, or some other another would be cut from a, we that a minuteway covers of planes of this unitary might sower on each said angle.

The second kind of planes are those which accord cut off an equal number of parts from a work is that a different another from b. But in this case there would be two two on each continue to a some one plane to out three parts from a grant from a, and three from a, and there would also be produced, eating three parts from b a count from each two from a, producing two planes smaller to those in Fig. 2.



Rech of the series of planes of the first kind would have an edge parallel to the diagonal of a fig. 2; and cach of from of the search kind would have edges parallel to the highest class also occur in pairs, and any such as would a postured by suffing of dissumdar numbers of parishment the three edges, such as two periodoma, three from had four from a none of the edges of these meet planes being smallel to any dispensal.

The secondary planes on the terrainal edges may cut off any purposes of parts from the edges of these meet planes being any office remarks planes on the terrainal edges may be not any office remarks from a and a, and the same of any office remarks from a and a. These on the lateral will be found to occur in pairs. Single planes on the lateral will be found to occur in pairs. Single planes on the lateral will be found to occur in pairs. Single planes on the lateral will be found to occur in pairs. Single planes on the lateral will be found a sequally; and the secondary planes on its other primory forms are produced by later analogous. The removes for proferring prisms to octahedrons for the discussion of have already seen that the octahedrons derived from the remove for proferring prisms to octahedrons for the discussion may be then briefly stock.

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Bêkes, in Hungary, one of the largest, if not the largest, village in Europe. It was built by Baron von Harruckern in 1715, and colonized with Lutheran Slowaks, who are now become identified with the native Hungarians. It is situated on the Hejo, in 46° 40' north lat., and 21° 8' east long. It contains a Protestant church and about 2000 houses. In 1819 the population amounted to 17,850; it has since increased to upwards of 20,000, of whom 16,700 are Lutherans, and 2700 Roman Catholics. The vicinity produces an inferior kind of wine, but very considerable quantities of grain, flax, and hemp; the grazing of cattle and sheep is carried on upon an extensive scale. The Körös flows near this village. In population it is inferior only to eight other places in the kingdom.

CSANAD, or TSANAD, a county of Hungary. [CHONAD.]

CSONGRA'D, a county of Hungary, nearly in the centre of that kingdom, and on each side of the Theiss. It is separated by the Marosh from the county of Toronta. Its area is about 1323 square miles; it contains I royal free town, Szegedin, 3 market-towns, 6 villages, and 30 extensive prædia, or privileged settlements, and has a population of 108,235 in 1825; now of about 113,000 souls, 70,060 of whom are Roman Catholics. The surface is a plain, here and there interrupted by low hills, covered with woods or vineyards; the soil is in general a black rich loam, in parts sandy or swampy. Being liable to extensive inundations, the water is not good, nor is the climate healthy. It is watered by three large rivers, the Theiss, Marosh, and Körüs, besides the Kurcza, Korogy, and other minor streams. The land available for cultivation is estimated at 695,390 acres, of which about 82,800 are occupied by woods, and 176,020 by pastures; the remainder is arable land, vincyards, or gardens. It is a fine grain country, particularly for barley, maize, and oats; much flax and excellent tobacco are raised; it produces an inferior sort of wine, and maintains large flocks and herds. The Csongrad oxen are esteemed the finest in the kingdom, and there are numerous establishments for breeding horses. Swine in great numbers are fed on acorns and maize; and much wax and honey are made.

CSONGRA'D, a market-town in the north-west of the county of the same name, on a neck of land formed by the confluence of the Körös and Theiss, in 46° 43' N. lat. and 20° 9′ E. long. It is the county-town, is well-built, and has about 13,000 inhabitants, who live chiefly on the produce of their vineyards, rearing cattle, and trading with other parts of Hungary. The old castle is fallen into complete decay.

of Hungary. The old castle is fallen into complete decay. CTENODA'CTYLA (Dejean), a genus of Coleopterous insects, of the section Geodephaga, and subsection Truncatipennes. Technical characters:—body but slightly elongated, flattened; thorax longer than broad, truncated posteriorly; terminal joint of the palpi almost oval; three basal joints of the tarsi dilated, nearly triangular or heartshaped; claws denticulated beneath.

Dejean in his 'Catalogue des Coléoptères' only enumerates three species of this genus, all of which are from Guiana. There are however other species known. Ctenodactyla Cheovolatii is less than half an inch in length. of a blue-black colour above, and brown beneath: the tho-

rax is red, and the legs and antennes are yellowish-red. CTENODA'CTYLUS, a genus of rodent animals of the family Arvicolidæ, established by Mr. Gray.

Generic Character.—Each foot with four toes only and an obsolcte clawless wart in place of the thumb; claws small and falculated; toes pectinated internally, with small bony appendages. Tail very short and hairy. Dental

Incisors 
$$\frac{2}{2}$$
 Molars  $\frac{3}{3}\frac{3}{3}$ . (Gray).

Mr. Gray is of opinion that this subgenus appears to be most nearly allied to the Lemmings (*Lemmus*), with which it agrees in teeth and form, but differs from them in only having four free toes on each of the feet and a very obscure

clawless wart in place of the thumb, and in the claws of the feet being short and incurved, those of the hinder seing covered with a tuft of rigid hair, more especially distinguished in the two inner toes, each of which also double, small, deeply pectinated, bony plate on its

employed by him to produce his results. Some account of these experiments will appear in one of the forthcoming London scientific journals.

CSABA, or TSABA, in the south-east of the county of cavely truncated. The upper grinders are probably like the lower, which are laminar and with a two-lobed crown, the lower, which are laminar and with a two-loosed crown, the anterior lobe being transverse, narrow, round on the outer, and narrow and sharp on the inner side; the hinder, lobed, larger, and rounded, the lobe of the two anterior ones being rather wider than long, and that of the last as long as it is wide. (Gray.)

The following species is recorded by the author above quoted: Ctenodactylus Massonis, Masson's Comb Rat.

Description.—Fur soft, silky; upper parts fulvous brown; the hair very thin, pale lead-coloured at the base, pale fulvous at the end, with very short blackish tips, especially upon the head; chin, throat, inner side of limbs and beneath whitish, with the same lead-coloured base to the hairs. Head rather small and densely hairy; muzzle very small blacks must be the complete that the same lead-coloured base to the hairs. small, black; mouth rather small; cutting teeth exposed, rounded and smooth in front, white; the whiskers very long, twice as long as the head, rigid, black, with two or three slender long bristles over the eyebrows; eyes moderate, rather nearer the ears than the end of the nose; the ears rounded, externally covered with dense short fur like the body, internally rather naked, black, with a distinct helix. Limbs short; the feet covered with shortish rather adpressed hair; the fore feet short; the toes free, the two middle ones nearly equal, the inner rather shorter, and the outer shortest of all; the claws short, subequal, incurved, black, not so long as the hinder ones; the hinder feet large with naked soles; toes free, the three inner equal, the outer rather the shortest, the two inner toes with two series of four or five bony lamine placed side by side, forming a comb-like process, and covered with some very stiff bristly incurved hair; the tail vory short, cylindrical, ending in a parcel of rather rigid black-tipped hairs. Size and single about that of a half-grown guinea-pig. Length (ac. in ) specimen) from nose to base of tail, 9 inches; of the tail I inch (the longest bristle extends beyond the tip); of and hind feet, 14 inch; of the ears, A of an inch. (Gray.) Locality, Cape of Good Hope.

'I am not aware,' says Mr. Gray, speaking of the comb-like appendage, 'of the same kind of process being found on the toes of any of the Mammalia. It most nearly resembles the pectinated edge of the claws of the middle toos of the feet of the Goatsuckers and Herons: it may probably be used for the same purpose to clear their coats of untruding insects, and this idea is strengthened by the fact of the two living animals in the collection of the Zoological Society, said to come from Barbary, centinually scratching themselves with their hind claws. Some of the Lemming. to which these animals are most nearly allied, are peculiar for having a very curious conformation in the claw of the index finger of the hand.'

Mr. Gray refers to two specimens in the British Museum, one of which is marked in the hand-writing of his late uncle Dr. E. W. Gray. 'C. B. Spei Masson, 1744, appears to be a variation of No. 1,' which last Mr. Gray thinks is probably the other specimen in the British Museum, which is rather larger.

The species is named after Mr. Francis Masson, who was one of his majesty's gardeners, and published a paper in Phil. Trans., lxvi. (1775), giving an account of three journeys from Cape Town to the southern parts of Africa, undertaken for the discovery of new plants, towards the improvement of the Royal Botanical Garden at Kew.

The description of this curious animal is taken from Mr. Gray's 'Spicilegia Zoologica\*,' where there is a figure of the species, and where the reader will find much original and valuable information illustrated by plates.

CTE/NOMYS. [MURIDE.]
CTENO/STOMA (Klug), a genus of Coleopterous insects, of the section Geodephaga, and family Cicindelide.
Distinguishing characters—the basal joints of the anterior tarsi dilated in the male sex, the third with an obliquely elongated portion on the inner side; body narrow and long, thorax long, somewhat globular in the middle, and sud-denly constricted towards the base and apex; antennes setaceous; palpi long and distinct; mentum furnished with a touth-like process in the anterior and emarginated part.



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which a particular description is given by two. [results where, ct. 411.]

CTR'SIPTION, an Athenian, sum of Leastbenes, of the dams Anaphlysian. He is known for a desired by which he incoposed to present Demosthenes with a golden crown as a public acknowledgment of the servers in the state. An assumation faunded on this decree was brought against Guardian by Machines, who charged him with unconstitutional momentums. Demostheness replied in his colobrated aration and the Crown' (see originally, and Complian was acquited. The sittect and the defines are both extent. The raw was trust in to had. (Demositions on the Crown, \$\frac{1}{2}\), and; Chinton, Fart Hel.) Assuments: Demostrates and Chinamian Archipelago. The most content point, Caba Mapsi, is in \$r\$ 17, and the most western, Cabo San Antonians, \$r\$ 27, and the most western, Cabo San Antonians, \$r\$ 27, and the most western, Cabo San Antonians, \$r\$ 27, and the most western, Cabo San Antonians, \$r\$ 27, and the most western, Cabo San Antonians, \$r\$ 27, and the most western, Cabo San Antonians, \$r\$ 27, and the most western, Cabo San Antonians, \$r\$ 27, and the decrease of Mannaga, uset of Mannaga, the most northern point, \$r\$ 27 No. 181.

length of the island from Cabo Maysi to Cabo San Antonio, along the curved line, is 793 miles. It is widest near the meridian of 77°, where between Punta Maternello on the northern coast, and the mouth of the Rio de is Magdalens, near the Pico Tarquino, it is 127½ miles across. Between Puerto Principe and the Havanna, which tract comprehends about four-fifths of the island, it is only 52 miles wide on an average. The western extremity is still narrower, the isthmus between the Havanna and the port of Batabano being only 28 miles across. The surface of Cuba alone, according to the latest calculations, is 42,212 square miles; and when the islands are added, which are inclosed within the numerous reefs which surround it, 43,412 square miles. Its extent is therefore about 7000 square miles less than that

of England, not including Wales.

The coast-line of Cuba is above 2000 miles, but hardly one-third of it is accessible to vessels; the remainder is surrounded by banks, reefs and rocks. The coast from Cabo de Cruz to Cabo de Maysi is quite free from danger; and that from Cabo Maysi to Punta Maternello has only a few rocks. At Punta Maternello commence the numerous keys of the Old Bahama Channel, which extend for more than 300 miles to Punta de Icacos. In this part, or more precisely opposite the Cayo Cruz and Cayo Romano, the Old Bahama Channel is narrowest, being only 15 or 20 miles across. Between the keys and Cuba is an open sea, which may be navigated by small vessels. From Punta de Icacos to Bahia Honda, west of Havanna, the coast is again free from keys and rocks. To the west of Bahia Honda commence the series of shoals and rocks called Los Colorados, which extend to Cabo San Antonio. From the last-named cape to Punta de Piedras or Llana Punta, the high coast is free from shoals and rocks. But the keys and shoals commence again to the west of the Isla de Pinos, and extend to Cabo de Cruz, under the name of Jardinillos, Cayo Breton, Cayos de Las Doce Leguas, and Bancos de Buena Esperanza Only the coast between Cochinos Bay and Puerto Casilda, only the coast between Cochinos Bay and Fuerto Cashas, near Trinidad, forms an exception, being free from banks and rocks. In the Bay of Xagua, about thirty miles east of the Jardinillos, a spring of fresh water is said to rise in the sea with such force, that boats cannot approach it without danger. It is visited by the manati. In the sea between the northern coast of Cuba and the Florida Reef, the Gulf Stream commences, but here its current is not strong, and

sometimes hardly perceptible.

Only the south-eastern part of Cuba is mountainous, that which lies between Cabo de Cruz, Cabo Maysi, and the town of Holguin. This mountain group is called Sierra or Montaños del Cobre (Snake Mountains), and probably in its highest parts rises more than 7200 feet above the sea. On the southern coast the Pico Tarquino rises to a considerable height, which however has not yet been determined. From this group a chain of hills runs in a W.N.W. direction, between Puerto Principe and Villa Clara, approaching nearer to the southern, but afterwards more to the northern shores. These hills do not attain a great elevation. To the north-west of Trinidad stand the Lomas de San Juan, which terminate in peaks and needles, and rise to about 1800 feet above the sea. The elevation of the hills seems to decrease as we advance westward. To the west of the meridian of Matanzas there is only one summit that attains 1200 feet. In this part the island resembles the environs of London, its surface being slightly undulating, and rising in general only to 250 or 350 feet above the sea. Along the southern coast large tracts of low country occur. The whole space between Batabano and Xagua is nothing but a low

swamp, which extends three or four miles inland.

There are no large rivers in Cuba. Some are navigable a few miles inland for small boats; others are used for irri-

gating the adjacent fields.

The climate of the Havanna differs considerably from that of Kingston in Jamaica, though the difference of position does not exceed five degrees. This difference however principally occurs in the cold season, when the thermometer at the Havanna nearly every year descends to 60°, and sometimes to 55°, whilst at Kingston it is never seen below 63° or 68°. The mean annual heat at the Havanna is 77°, that of the hottest month (July) 84°, and that of the coldest 10°: the thermometer rarely rises to 94°, or sinks to 55°.

rior of the island however, thin ice is formed g providence of northerly winds, at places about to the sea. But Cuba partakes, in some meaclimate of the temperate sone, which is proved by the sudden changes of the temperature, in which it, in some degree, resembles the United States. Humboldt mentions a change of 15° in the course of three hours. No snow is ever known to fall, either on the Lomas de San Juan, or on the Sierra del Cobre. Hall storms are rare; they occur only once in fifteen or twenty years, and always with south-south-westerly winds.

Hurricanes are less frequent in Cuba than in Jamaica and the other Antilles. Sometimes none occur for six or

Hurricanes are less frequent in Cuba than in Jamaica and the other Antilles. Sometimes none occur for six or eight years. They vent their fury more on the sea than on the land, and happen, as in Jamaica, more frequently on the southern than on the northern coast. Humboldt states that they take place later in the year in Cuba than in the islands farther to the east and south. In the latter they are most frequent in August; in Cuba they occur mostly in October, never in July, but sometimes in August and September. The same writer observes, that the extremities of the long chain of islands called the Antilles are less subject to these dreadful storms than those in the middle, Tobago and Trinidad being entirely free from them, and Cuba not often experiencing their ravages. But, on the other hand, Cuba is exposed to the boisterous north winds (los nortes), which blow particularly during the cold months.

The division of rainy and dry seasons is not applicable to Cuba. No month of the year is free from rain. It seems, however, that the greatest quantity falls during May, June and July. In 1829 the quantity of rain was 48 inches, of which nearly 24 inches fell in these three months. Earthquakes frequently occur.

The aborigines who inhabited Cuba in the time of Columbus, were annihilated before the year 1560, though the Spaniards settled in this island only in 1511. The present population consists of whites, negroes, and mixed races. It amounted in 1827 to

According to a more modern census (1831), it has risen to nearly 830,000 individuals. In 1775 the number was only 170,000. This population, however, is very unequally distributed over the island, nearly four-fifths of which are very thinly inhabited, especially the southern coast, except the country between Xagua and Trinidad, and that which is east of Cabo de Cruz: there are also large tracts in the interior which are only used as pasture-ground, and contain hardly more than two individuals to a square mile. The most populous portion is between the lines from Bahia Honda to Batabano, and hence to Matanzas, where nearly the half of the whole population is concentrated, and where perhaps there are 70 or 50 persons to each square mile. The following table shows the relative population of the three intendencias, and the proportion between the whites, free coloured people, and slaves.

	Square Miles.	Population in 1827.	On a eq.m.	Of every Hundred of Inhabitants.		
				Whites	Pre- Blacks	Slaves.
Western Int.	10,303	408,537	40	40	11	49
Central Int.	17,104	164,497	9	60	15	25
Eastern Int.	14,805	131,453	9	36	27	37
Total	42,212	704,487	17	46	18	37

The cerealia of Europe are not cultivated in any part of Cuba, and a great quantity of flour is consequently imported from the United States for the consumption of the white inhabitants. The alayes and people of colour live principally on mandioca, yams, bananas, and maize or Indian corn, with potatoes, sweet potatoes, &c. The objects raise! for consumption and exportation are sugar, coffee, tobaccu, cotton, cocoa, and indigo; but the three last on a very small scale. As immense tracts are not cultivated, but only used as pasture-ground, the number of cattle is very great, and hides form an article of exportation, but dry meat (tassjo) is imported from Venezuela. The surface under cultivation is supposed not to exceed one-seventeenth: the unculti-

vated part contains large prairies or savannas, on which the cattle pasture, but the greatest part is overgrown with large forest-trees, some of which supply excellent timber for ship-building. Gold and copper have been found in the Sierra del Cobre.

I. The Western Intendencia contained, in 1827, 449 plantations of sugar, 1207 of coffee, and 400,000 heads of horned cattle. It contains, besides the capital, Havanna, the towns of Guanabacoa on the other side of the Cay on which Havanna is built, with 9100 inhabitants (in 1827), and San Carlos de Matanzas, which, in 1827, contained 11,300 inhabitants. To this intendencia belongs the isla de los Pinos, more than 900 square miles in extent, with a mountain on it rising to more than 3000 feet high. contains from 200 to 300 inhabitants; and fine forests, in

which much mahogany is cut.

II. The Central Intendencia contained, in 1827, 246 plantations of sugar, 135 of coffee, and 605,000 head of cattle. It is the most fertile portion of the island, especially the country round the town of Santo Espiritu, and has greatly increased in population and agriculture since the ports have been opened to foreign commerce. The most populous places are inland, namely, Santa Clara, with 8500 inhabitants (in 1827), and Santo Espiritu, with 10,800. The capital Santa Maria de Puerto Principe is also at some distance from the shore, but carries on a considerable commerce by means of its port Nuevitas. It contained in 1827, 49,000 inhabitants: it is the seat of the supreme court of justice for all the Spanish colonies in America. Besides, there is on the northern coast the harbour of San Juan de los Remedios, with 5200 inhabitants (in 1827), and on the southern, Trinidad de Cuba, with 12,500, and Fernandina de Xagua.

III. The Eastern Intendencia contained, in 1827, 305 plantations of sugar, 725 of coffee, and 105,000 head of cattle. Santiago de Cuba, the antient capital, has a good harbour and 26,000 inhabitants. There are also three other harbours, which are much frequented by vessels, Manzanillo, north-east of the Cabo de Cruz, Baracoa, near Cabo

Maysi, and Gibara, farther west. The last is the port of Holgum, a small town in the interior.

Commerce.—In few countries has commerce increased so rapidly as in Cuba. About 1780, the exportation of its own produce amounted to little more than two millions of Spanish dollars in value: in the three years from 1831 to 1833, the average value of all goods exported had risen to between 13 and 14 millions, though in some parts a considerable smuggling trade was carried on. This increase has of late been considerable, since (in 1816) the vessels of all nations have been admitted into the ports. Though Havanna is by far the most important trading town, other places carry on a considerable commerce, as the following table shows.

	то	NNAGE O	F VESSELS.		
PORTS.	Inwa	rds.	Outwards.		
	1828.	1829.	1928.	1829.	
Havanna Santiago de Cuba Puerto Principe Matanzas Trinidad Barawa Gibara Xagua Manzanillo	169,889 33,376 4,985 35,523 18,291 1,967 1,869 2,454 8,112	153,834 31,734 5,297 31,331 18,885 1,431 2,139 1,426 3,194	136, 259 32, 209 3, 479 30, 151 17, 616 917 1, 27, 2 1, 929 5, 996	144,487 24,876 5,136 59,770 17,009 1,160 9,022 1,468 2,882	
į	277,066	949,253	229,830	\$28,750	

The chief articles of importation are provisions, ticularly flour, rice and maize, butter, cheese, candles, and tallow, tasajo and hams, and salted fish and cod. Brandy and the wines of Spain, France, Portugal, and Germany also form a considerable branch of importation. As Cuba has no manufactures, cotton stuffs, woollen goods, linens, hardwares, and silk stuffs are imported to a

large amount.

The course and amount, stated in English money, of the trade of Cuba, in the three years which ended with 1833, will be seen from the following table.

· I	1831.		1832.		1833.	
	Imports.	Exports.	Imports.	Exports.	Imports.	Exports.
Spain Former Spanish Coloules Hanse Towns United States of America France England Italy Netherlands Portugal Russia Sweden and Desmark Turkey	£. 1,045,185 380,334,649 977,147 139,500 205,403 4,719 92,194 5,217 4,298	£. 583 151,528 396,013 816,998 91,997 326,609 91,011 59,877 1,376 99,777 8,609 5,120	£. 911,086 682,207 387,251 788,319 167,880 262,045 7,425 61,331 10,983	£. 802,362 206,958 438,432 647,596 75,208 437,851 77,317 101,310 4,677 223,433 12,679 255	886, 243 385, 183 196, 325 929, 481 193, 397 388, 677 10, 753 42, 417 9, 401 10, 971 7, 138	£. 565,317 269,534 313,356 913,334 110,691 189,787 47,640 55,681 4,548 207,335 15,867
æ.	3,239,306	2,001,487	8,215,617	2,832,278	2,969,818	2,707,51

The imports in 1833 consisted of, 

The quantities exported, during the three years above-mentioned, of various articles, the produce of the island, were as under -

	1831.	1832.	1833.
Sugar Cwt.	1,592,272	1,692,726	1,701,909
Rum Pipes	3,888	3,429	3,927
Molasses	83,001	100,178	95,768
Coffee Cwt.	475.576	457,341	572,848
Was	6.663	6,741	9,271
Leaf Tobacco . 1bs.	2,936,830	1,910,750	2,311,875
igers	2.285,975	11,203,075	15,442,825
	685,900	736,950	551,800
	120,425	36,250	99,250
Mahogany Peet	46,707	59,844	40,411
named and a second	25,933	25,833	29,367
	16,893	16,317	28,917
	679	524	469
	6,170	5,468	3,078
Fruit Value in &	0,170	2,003	2,134
lioney Pipes	1,063	1.079	907
Horses and Mules . Number	1,306		9,978
Other Produce . Value in &.	9,187	9,169	ש/ע,ע  -

The number of vessels and their tonnage, belonging to different countries, which entered the port of Havanna in the same three years, were:-

•	1831.		1832.		1833.	
	Ships	Tons.	Ships	Tons.	Ships.	Tons.
Spanish	334	41,758	325	38,637	879	46,247
American	496	85,105	489	84,958	509	91,625
Hanse Towns	25	4.226	1 34 I	6,344	26	4,500
Dauish	8	1.078	12	9,313	10	1.729
French	19	3,975	18	4,067	48	10,163
Notherlands .	1 8 1	1.068	96	4,764	8	1,477
English	54	6,403	69	12,558	46	9,067
Portuguese .	او	142	1 4 1	548	5	494
Prussian .	2	294	līt	221	l i i	290
Sardinian .	1 21	763	1 il	222	6	989
Swedish	1 71	290	1 îl	290	6	1,061
Hapoverian .	1 - 1		1 1	256	اوَا	366
Tuecan	1 1		1 5 1	194		-
	1		1 * 1	***		159
Mocklenburgh	1 • • 1		$\cdots$	• •	1 1	176
Russian	1 • • 1	. • <u>•</u>				1/0
Total .	963	145,092	982	155,362	1,048	168,298

The English have not so large a share in the commerce of Cuba as in that of some other commercial countries, which may be attributed to their not admitting the productions of Cuba into their ports on the same terms as those of their own colonies, and to their not being able to satisfy the demand of the island for provisions. The Americans the demand of the island for provisions. The Americans have obtained the greatest share of this commerce, being able to supply provisions in abundance, furnishing a ready market for all the exports of Cube, and having also the advantage of being near Spain, being now deprived of all her colonies on the continent of America, endeavours to turn to advantage her possession of Cuba, to which she sends her wines, oil, and fruits. England, with its numerous manufactured goods and the productions of the East Indies, comes next. England takes in return tobacco, coffee, and sugar. The Hanseatic towns of Germany also have come in for a share of the trade, finding no place more advantageous for exchanging their manufactured goods (linens, paper, glass, &c.), for sugar, coffee, and tobacco. France sends great quantities of wines and some manufactured goods; and Italy oil, olives, and fruits.

The internal traffic is much impeded by the badness of

the roads, which for a part of the year are impassable; but the coasting-trade is active, four thousand small vessels being used to bring the produce of the neighbourhood to

the Havanna alone.

The political importance of Cuba does not rest on its extent and productions alone, but principally on its position with respect to the common routes of navigation. route is marked out by the trade-winds and the Gulf Stream. Vessels returning to Europe from Jamaica, or the coast of South America, by sailing directly eastward, have to contend against the united force of winds and current, and are scarcely able to make either the Windward or Mona Passages, which are situated respectively at the western and eastern extremities of the island of Hayti. They are therefore under the necessity of doubling Cabo San Antonio and proceeding to Europe by the Gulf Stream. Thus the possession of Cuba gives an absolute control over the trade between Europe and all countries lying about the Caribbee Sea and the Gulf of Mexico, and consequently a great portion of the United States of America. The maritime powers, at present, seem to have come to a tacit agreement to leave Spain in the possession of Cuba, because, being the least powerful of them all, there seem to be no apprehensions of any attempts on her part to interrupt the free navigation

Cuba was discovered by Columbus on his first voyage in 1493; in 1511 the Spaniards formed the first settlement: since that time the island has remained in their possession. In 1762 the English took the Havanna, but it was restored

to Spain by the peace of 1763.
(Humboldt; Present State of Columbia by an Officer; Map of the Society for the Diffusion of Useful Knowledge; see also Breve Idea de la Administracion del Commercio y de las Rentas y Gastos de la Isla de Cuba durante los Annos de 1826 d 1834, par D. Rumon de la Sagra, Paris,

CUBE (κύβος), a solid figure contained by six equal squares; a box of equal length, breadth, and depth.

Owing to its being the most simple of solids, the cube is the measuring unit of solid content, as the square is that of superficial content, or area. Whatevor the unit of length may be, the unit of solidity is the cube which is a unit every way: thus we have the cubic inch, the cubic foot, &c.

Cubes of different sides are to one another as the algebraical third powers of the number of units in their sides: thus cubes which are as 7 to 10 in their sides are as  $7 \times 7 \times 7$  to  $10 \times 10 \times 10$  in their contents. Hence the algebraical third powers are called cubes: thus  $a \times a \times a$  is called the cube of a. [Notation]. If the side of a cube contain a units, the content is  $a \times a \times a$  cubical units of the same

The cube has no remarkable properties, for our eyes are so used to the figure, that its properties seem self-evident.

Its internal diagonals are found by multiplying the num-

ber of units in the side by  $\sqrt{3}$ , or (very nearly) by adding one half and one half of one half, and subtracting one per cent. of the result, and if still further accuracy be required, 5 for every 10,000 units:-

> 2)10000 subtract 5 presently. 2) 5000 2500 17500 175 17325

17320 feet in the diagonal

ich is about elz (nehes too small.

For the celebrated historical problem connected with this rticle, see Duplication of the Cube. CUBEBS. [Piper.]

CUBIT, a measure of length in use among the antient and more especially among the Jews. The Hebrews called 1728 (amma), as the mother of other measures; the Greeks Ilnxus (pechus); the Romans Cubitus, a word apparently formed from the verb 'cubo,' to bend for the purpose of lying down. The cubit was originally the distriction the joint or bending of the elbow to the extremity of the middle finger. Bishop Cumberland and Pelletier fix the Hebrew cubit at twenty-one inches; but it is in re

usually considered as a foot and a half.

The best authorities assert that there were two cubits of use among the Hebrews; one sacred, the other common. In Deuteronomy, chap. iii. v. 11, the bed of Og is said to be nine cubits long and four broad, after the cubit of a main. In Ezekiel, chap. xl. v. 5 and xliii. 13, we find the cubit. for measuring the temple was a cubit and a hand-breadth; whence it appears that the larger cubit was longer than we may reconcile the two lengths of eighteen and twenty one inches already specified. Calmet, however, is per suaded, that from the Exodus to the Babylonish capturity. there was but one cubit in use among the Hebrews, and that it was the Egyptian cubit. He says it is only after the captivity that Scripture notices two sorts of measures, to distinguish the old Hebrew cubit from that of Babylon, which the captives used during their abode in that city On this, he adds, is grounded the precaution of Ezek.e. in observing that the cubit he is speaking of is the true old cubit, larger by a hand's breadth than the common cubit. Among the Greeks the cubit (péchus) was twenty-four fingers (δάκτυλοι), measured as already explained See Herodotus, ii. 175. (Arbuthnot, Tables of Conn., Weights, &c., and Calmet's Dict. of the Holy Bible, in

CUCKFIELD. [Sussex.]
CUCKOO. [CUCULIDÆ; CUCULINÆ.]
CUCU'LIDÆ (Cuckoos, Cuckoo-tribe), a family of scansorial birds, placed by Cuvier and Lesson next to the wrnnecks, Yunx, and by Mr. Vigors in the aberrant group of his Scansores, between the Certhiadæ and the Rhamphur-This aberrant group he characterizes as consisting of birds which have either three anterior toes and one posterior scansorial one, or sygodactyle but not retractile toes. M. Lesson arranges the following genera; Cuculus, Coccyzus, Saurothera, Centropus, Leptosomus, Eudynamis, Indicator, and Monasa under the family, whilst he places Phenicophaus, Scythrops, and Crotophaga under his succeeding family, Les Hétéroramphes. The Cuculidæ seem to have presented a good deal of difficulty to ornithologists. 'Neither do I wish,' observes Mr. Vigors in his paper on the natural affinities that connect the orders and families of birds, 'to dwell with any particularity on the succeeding family of Cuculidæ, the various and extensive genera of which are as yet but little understood as far as regards their natural affinities. The Linnean genus, Cuculus, indeed, as at present constituted, forms an extremely artificial group. There is much to be done with respect to the c birds, and they would form an interesting subject for the researches of an ornithologist who might have leisure and opportunity to describe their living, manners, and economy. shall only now observe, with respect to external character. that some genera of the family are associated with the true Cuculus by their curved and slender bill; others like Indicator, Vieill., have a shorter and stronger bill; while Saurothera, Vieill., by its serrated bill, evinces an approaching conformity to the Ramphastidee, and a consultaable number, such as Centropus, Ill., Phanicophaus, Viv.il. and Crotophaga, Linn., indicate the same affinity by the gradual increase of the bill in length and size. The la-:mentioned genus, it may also be added, bears a relation, through the medium of Scythrops, to the Hornbills: species of that family, and one more particularly lately is covered' (Buceros Leadbeateri) in the interior of Ai .... possessing, though with gigantic dimensions, the exact to of the Ani.' [CROTOPHAGA.]

The examination here suggested by Mr. Vizors has to

undertaken by Mr. Swainson, and we find in the third and fifth parts of the 'Magazine of Zoology and Botany,' two memoirs by the last-named zoologist 'on the natural kind. tory and relations of the family of cuculidas or cuch wa

with a view to determine the series of their variation.\*\*
The Cuculidæ are placed by Mr. Swainson also between the Certhiada and Ramphastida, and these three families constitute what he terms his third and aberrant circle of the scansores. The following is his definition of the family character. Feet not strictly scansorial, very short, nostrils character. Feet not strictly scansorial, very short, nostrils naked, tail covers remarkably long; and he separates the group into the following subfamilies: Cuculina, Coccyzina, Saurotherinae, Opisthocominae, Indicatorinae. Of the first subfamily Cuculus, Linn., is the type; of the second Coccyzus, Vieill.; of the third Saurothera, Vieill.; of the fourth Opisthocomus, Hoff.; and of the fifth Indicator, Sparm.

Habits, &c.—The following account bears the stamp of actual observation, and we therefore select it. 'So faintly is the scansorial structure indicated in these hirds' any Mr.

the scansorial structure indicated in these birds,' says Mr. Swainson in his memoirs above alluded to, 'that but for their natural habits, joined to the position of their toes, we should not suspect they were so intimately connected with the more not suspect they were so intimately connected with the more typical groups of the tribe as they undoubtedly are. They neither use their bill for climbing, like the parrots, or for making holes in trees, like the woodpeckers, neither can they mount the perpendicular stems, like the certhiadse or creepers; and yet they decidedly climb, although in a manner peculiar to themselves. Having frequently seen different species of the Brazilian cuckoos (forming part of the granus (contrate) in their petition fracts. the genus Coccyzus) in their native forests, I may safely affirm that they climb in all other directions than that of the perpendicular. Their flight is so feeble, from the extreme shortness of their wings, that it is evidently performed with difficulty, and it is never exercised but to convey them from one tree to another, and these flights in the thickly-wooded tracts of tropical America are of course very short: they alight upon the highest boughs, and imvery short: they alight upon the highest boughs, and immediately begin to explore the horizontal and slanting ramifications with the greatest assiduity, threading the most tangled mazes and leaving none unexamined. All soft insects inhabiting such situations laying (lying?) in their route become their prey, and the quantities that are thus destroyed must be very great. In passing from one bough to another they simply hop, without using their wings, and their motions are so quick, that an unpractised observer, even if placed immediately beneath the tree, would soon lose sight of the bird. The Brazilian hunters give to their cuckoos the general name of Car's-tail; nor is the epithet inappropriate, for their long hanging tails, no less than their mode of climbing the branches, give them some distant resemblance to that quadruped. I have no doubt that the great length of tail possessed by nearly all the cuckoos is given to them as a sort of balance, just as a core doubt that the present in the cuckoos is given to them. rope-dancer, with such an instrument in his hands, preserves his footing when otherwise he would assuredly fall. Remote therefore as the cuckoos unquestionably are from the typical Scansores, we yet find the functions of the tail contributing to that office, although in a very different mode to that which it performs among the woodpeckers, the parrots, and the creepers. The structure of the feet, as before observed, is the only circumstance which would lead an ornithologist to place these birds among the climbers, sup-posing he was entirely unacquainted with their natural history properly so called, or with their close affinity to the more perfect Scannores. The toes indeed are placed in pairs; that is, two directed forward and two apparently backward but a closer inspection will show that the latter are not strictly posterior, and that they differ so very materially from those of the *Picidæ* (the pre-eminently typical family of the climbers), as clearly to indicate a different use. The organization of the external posterior toe of all the woodpeckers, parrots, and toucans, renders it incapable of being brought forward, even in the slightest degree; whereas in the cuckoos this toe can be made to form a right angle with that which is next it in front from which is next the second properties of the cuckoos the store of the cuckoos the cuckoos the cuckoos the store of the cuckoos the cuckoos the cuckoos the store of the cuckoos t that which is next it in front, from which circumstance it has been termed versatile: this term however is not strictly correct, inasmuch as the toe cannot be brought more than half way forward, although it can be placed entirely backward. Now this form, which is obviously the tirely backward. Now this form, which is obviously the least developed state of the scansorial structure, accords exactly with the rank of the family, which is that of the most aberrant group in the circle, and farthest removed from the type. The cuckoos in fact are half-perching half-climbing birds, not only in their feet, but, as we have seen, in their manners. No one, from seeing them alive, would suppose they were truly scansorial birds; and yet it October 1836, and February 1837.

is highly probable that this singular power of varying the position of one of their toes, gives them that quickness or motion and firmness of holding which accompanies the habit iust mentioned.

There is another circumstance in the history of this family of birds, which, with one solitary exception, is altogether peculiar, as they contain the only parasitic birds yet known. This term indeed has been applied, I think improperly, to other genera, which, like the frigate pelicans, the jagers, and some of the eagles, rob other birds of their food; but this is a mere act of thieving, for all these feathere robbers can, and do, habitually depend just as much upon their own industry in procuring food. But with the typical cuckoos the case is far different, for by depositing their eggs in the nests of other birds, to whom they leave the care of hatching their young and feeding them afterwards, they become as truly parasitic as any of the Acari or Pediculi; they fasten themselves, as it were, on the living animal, whose animal heat brings their young into life, whose food they alone live upon, and whose death would cause theirs during the period of infancy. Such only is a parasitic animal, and such only, among birds, belong to the typical cuckoos and their representative, the *Molothrus* 

coris.'\* [Cuculing, Molothrus.]
Geographical Distribution and Food.—Warm and temerate climates are the chosen haunts of the cuckoos. European species—there are but two—never show themselves in our quarter of the globe, except in the warm weather, quitting it upon the first approaches of a colder temperature. 'So congenial is warmth to their nature,' says Mr. Swainson in the memoirs last quoted, 'that even the mild temperature of an Italian winter is not sufficient Africa. There is a fact regarding their structure, which appears connected with this susceptibility of cold, and which I believe has not hitherto been noticed. All the cuckoos, both of the old and the new world, which I have had the opportunity of dissecting, are remarkable for the thinness and delicacy of their skins, so much so indeed as to render their preservation in an entire state extremely difficult to inexperienced hands. Every one who has skinned the common British species must doubtless have observed this. On the other hand, as if to compensate for the delicacy of the cuticle, the feathers, more especially upon the back and rump, are unusually thick-set and compact.

Tropical countries, and those which approach the equator,

afford the greatest number of species.

The food of the cuckoos, as might be expected from this geographical distribution, consists principally of soft fruits and soft insects, especially the latter, and more particularly when they are in the larva state.

GUCULI'NÆ, Mr. Swainson's name for that subfamily

the CUCULIDE, which consists of the genuine Cuckoos. Character of the subfumily.—Bill wider at the base than it is high, rather suddenly contracted behind the nostrils it is high, rather suddenly contracted behind the nostrils and becoming compressed; upper mandible slightly sinuous at the tip, so as to assume the form of the dentirostral notch. Wings considerably long, nearly reaching to two-thirds the length of the tail, and so far pointed as to diminish rapidly in length beyond the fourth quill. Feet remarkably short; tarsus thickly clothed with feathers, for nearly half its length, not longer than the hallux or true hind ten. Hence cover feathers of the tail thick set now.

hind toe. Upper cover feathers of the tail thick set, narrow, generally pointed, and comparatively elongated, and in rigidity only comparable to those of the Cebtepyrinæ, the corresponding type in the Laniadæ. (Swainson, Mag. of

Zoology and Botany.)

'Popular interest,' adds Mr. Swainson, 'has been so much confined to the parasitic habits of the cuckoo, that upon many confined to the parasitic habits of the cuckoo, that upon many other points of its economy we are still in comparative ignorance. Hence it is, that we cannot trace, so fully as could be wished, the influence which the structure just described exercises upon the habits and manners of such birds as possess it. We know, however, that all the genuine cuckoos fly with strength and rapidity. Most of them, in fact, are migratory birds. . . . The form of the nostrils in the twicel cuckoos is very neculiar, and I believe that in the typical cuckoos is very peculiar, and I believe that future observations will shew this structure to be intimately connected with their parasitic habits. The nests of those species in which the cuckoo deposits its eggs, we all know, are built in the thickest and most central part of trees and bushes, to discover which, superior powers of smell have

Cow Bunting

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been given to the Toucans (which feed upon the eggs or young), and, in a less degree, are probably conferred upon the cuckoos, to facilitate their search after a foster parent for their young. How far this idea may be correct, future observations will determine. Certain however it is, that this peculiar-shaped nostril is restricted to such cuckoos as are parasitic, for the whole of the Coccyzinæ have the aperture of a lengthened oval shape, or in the form of a slit, and all we know of these birds sanctions the idea that they are not parasitic. The shortness of the feet, in the typical cuckoos, is another important distinction, and leads to the belief that these members are much less used than those of the Coccyzine, whose habits we have already mentioned when alluding to the cuckoos of South America, all of which are excluded from the group now under consideration.'

## Genera. Cuculus.

Genera. Cuculus.

Bill broad at the base, compressed beyond, the upper mandible obsoletely notched; nostrils circular, with a tumid margin; wings long, pointed, the third quill longest, the second and fourth of equal length; feet slender, very short, tarsi feathered posteriorly almost to the toes; rump and upper tail-covers long, thick-set, and rigid. Inhabits the old world; parasitic. (Swainson). Type, Cuculus canorus.

Description.—Male. Length about fourteen inches, weight about four ounces and a half. Bill black, yellowish at the base of the upper mandible; inside of mouth red.

at the base of the upper mandible; inside of mouth red. Irides yellow. Head, and whole upper part of the bird, dark ash-colour. Throat, under side of the neck, and upper part of breast pale ash, the latter sometimes inclining to rufous brown; lower part of breast and belly white, with transverse undulating black lines. Quills dusky, inner webs barred with white oval spots. Tail-feathers ten, of unequal length; two middle ones black, dashed with ash and tipped with white, the rest black with white spots on each side of the shaft. The lateral feathers in some have white spots only on the interior webs, but all are tipped with white.

Female, rather less than male, and differing from him generally in the neck and breast being of a tawnyish brown, barred with dusky, and the coverts of the wings marked with light ferruginous spots. Tail-feathers and quills much like those of the male, but the edges of the spots incline to reddish brown. Legs in both sexes short and yellow. Outer tail-feather and first quill remarkably short.

Young.—So distinct in its plumage from the adult that it has been described as a distinct species (Cuculus rufus, Bris.). It is supposed not to throw off its nestling feathers till the second year's moulting, for it is stated in Montagu's Dictionary (last edit.), that in three specimens killed the same season (two males and a female), the thirteenth and three succeeding quill feathers, and the three greater coverts impending them, are barred with brown and ferru-ginous. In the first year the irides are greyish; the whole upper plumage is a mixture of dusky black and ferruginous, upper plumage is a mixture of dusky black and ferruginous, in transverse bars, except the forehead and a patch on the back of the head, which in this specimen described in Montagu was white, and the tips of the scapulars pale; the feathers of the whole under parts sullied white with distant transverse bars of dusky black. In general each feather is barred twice or thrice. The sides of the neck and broast are tinged with rufous; lateral tail-feathers and the particular transverse of the neckless have a less heared with white inner webs of the quills more or less barred with white. Tuil coverts, which, as well as the feathers on the rump, are unusually long, dashed with cinereous and slightly tipped with white.

with white.

This well known bird is the résrut of the Greeks; Cuculus and Corcyr of the Latins; Cucculo, Cucco, Cuco, Cucho, Cuccù of the modern Italians; Cocou, Coucou, Coqu, of the French; Kukuk and Kuckuck of the Germans; Gjok of the Fauna Buccica; Gjoeg of the Danes; Gouk of the Norwegians; Cog of the antient British; Gouk and Cuckoo of the modern British.

Habita.—The common cuckoo arrives in this country early in spring. In White's 'Naturalist's Calendar,' the cuckoo is noted as first heard April 7—26, and in Markwick's, April 15, May 3, last heard June 28. By the first of July it has almost always taken its departure, but it is sometimes later. Mr. Hwainson in his memoir on the Cuculidæ says, 'The rommon species comes to us every spring, from northern Africa or Asia Minor, and returns in Autumn. This we know from personal observation; for vast numbers arrive in the spring in Sicily and Naples, in company with the

bee-exters, orioles, hoopoes, and other migratory birds; but after remaining a short time, they appear to direct their flight northward, from whence they return in August and September.' Speaking of the food, the same author observes, 'The English cuckoo, no doubt, searches for its food among foliage, but its nature is so shy, that we have never been fortunate enough to witness its mode of feeding.'
Montagu, however, one of the best authorities we can cite, says, that its principal food consists of caterpillars, so that it not only possesses the general cast of colours, and much of the structure of its prototypes, the Ceblepyrine, but actually feeds on the same description of insects.' The Editor of the Magazine of Zoology and Botany, adds. In an open and muirland district where the cuckoo is very common, we have always found, during May and June, that their stomachs were filled with the remains of caterpillars which fed on the various plants frequent in such localities. Among them those of the *Lasiocampæ* formed a great proportion, and hairy species seem to be preferred. White in his 'History of Selborne,' thus writes: 'In July, I saw several cuckoos skimming over a large pond; and found. after some observation, that they were feeding on the lib. Ilulæ, or dragon-fies; some of which they caught as they settled on the weeds, and some as they were on the wing. The following narrative from the last edition of Montagu's Dictionary will throw some light on this part of the subject: 'A young cuckoo, brought to Colonel Montagu in the month of July, just as it could fly, was, by great care, kept alive till the fourteenth of December. It had, during that time, two or three attacks of dysentery, from which it recovered by having chalk and ginger given to it; and during the time it lived no change was observed to have taken place in its plumage. For two months after this bird was caught, it never attempted to feed itself by picking; and even to the last moment seemed to prafer being fed by the hand of its mistress, rather than have the trouble o picking up its food, of which it was extremely choice. Nothing appeared to be acceptable as a substitute for insects except raw beef. Flies it would eagerly devoar; but its most delicious morsel was any species of hairy caterpular; these it seized with avidity, shook them to death, and softened by passing several times through the bill, till they were perfectly pliant, when it would swallow whole the largest of the caterpillars of the egger\* or drinker\* moths. Of strangers it was extremely fearful, fluttering in its cage to avoid their attentions; but it would quietly suffer is elf to be handled and caressed by a young lady who had been its kind benefactress, appearing to like the warmth of her hand to its feet.'

It is the habit of the cuckoo in depositing her egg in the nest of another bird, that has made it so much an object of curiosity. Many strange stories were formerly rife on this custom, which can hardly be called abandonment, as the nest of a bird that feeds its young with insects is always selected. Among others, the hedge-sparrow, the reed-sparrow, the tit-lark, the water-wagtail, the yellow-hammer, &c., have been recorded as the birds to whom the egg has been committed, but the first seems to be most frequently chosen. White saw one hatched in the nest of the tit-lark. The nests of the green-bird, the linnet, the white-throat, and even of the wren have been mentioned as the places of deposit. Dr. Jenner's celebrated paper in the Philosophical Transactions threw great light on this subject, and many other observers have corroborated in general that author's remarks. Some indeed, and among them Dr. Fleming, have declared that in some cases the cuckoo constructs its own nest, but there can be little doubt that there is no foundation for this assertion, and as little that the nests and young supposed to be those of the cuckoo on such occasions were those of the goatsucker. Whether the bird actually deposits the egg from her body while sitting on the nest has been doubted, and if the case of the deposit of one in a wren's nest be a fact, it is almost conclusive that she does not so deposit it in all cases, for the aperture of the wren's nest is in the side, and not more than big enough to admit the wren. On this part of the subject, and indeed on every part of it, the reader will find much valuable information in the last edition of Montagu's Dictionary. He should also refer to the paper of Dr. Jenner by alluded to, and to that of Mr. Blackwall, in the fourth volume of the Zoological Journal. Our limits will not allow us to give our readers more than a brief notice of the way in which the

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intruder, when hatched, gets rid of the legitimate contents of the nest, and we select the following. 'Previous to the above-mentioned publication' (Dr. Jenner's) 'I had taken western coast of Africa. much pains towards investigating the several phoenomena I had noticed in this bird, and was so fortunate as to have ocular proof of the fact, related by Dr. Jenner, of a young cuckoo turning out of a hedge-sparrow's nest a young swallow I had put in for the purpose of experiment. It is needless to recite all the circumstances attending this extraordinary bird, as that gentleman has so amply explained it; I shall, therefore, only add, that I first saw it when a few days old, in the hedge-sparrow's nest, in a garden close to a cottage, the owner of which assured me the hedge-sparrow had four eggs, when the cuckoo dropped in a afth; that on the morning the young cuckoo was hatched, two young hedge-sparrows were also excluded; and that, while the property work in the agenting most ing was left. on his return from work in the evening, nothing was left in the nest but the cuckoo. At five or six days old, I took it to my house, when I frequently saw it throw out the young swallow for four or five days after. This singular action was performed by insinuating itself under the swallow, and, with its rump, forcing it out of the nest with a sort of jerk. Sometimes, indeed, it failed, after much struggling, by reason of the strength of the swallow, which was nearly by reason of the strength of the swallow, which was nearly full feathered: but, after a small respite from the seeming fatigue, it renewed its offorts, and seemed continually restless till it succeeded. At the end of the fifth day, this disposition ceased, and it suffered the swallow to remain in the nest unmolested.' This wonderful instinct is absolutely necessary for the self-preservation of the young cuckoo, which, if it did not dispose of all other claimants on the affection of the parents must perish for want and as it is affection of the parents, must perish for want, and, as it is, the poor little birds to whose lot it falls to supply the demands of their craving and gigantic nestling, have a weary time of it. Indeed, there are well recorded instances, of their being assisted by others of their own species, and

by other insectivorous birds.

The Romans considered the cuckoo excellent eating. Pliny (Lib. x. c. 9.) says that no bird can be compared to it

for sweetness of flesh.



[Cuculus canorus, male.]

## Oxylophus, Sw.

Bill slender, considerably compressed nearly its whole length; upper mandible entire; nostrils ovately round; head crested; wings moderate, pointed, shorter than the tail-covers, the fourth quill longest; tarsimoderate, naked;



Oxylophus Levaillantii.]

## Erythrophrys, Sw.

Bill as in Oxylophus; head not crested; nostrils oval; wings lengthened, pointed, extending beyond the tail-covers, the third quill longest, the second much shorter than the fourth; tarss moderate, naked. Inhabits the New

World, and rear their own young. Type, Cuculus Carolinensis, Wilson. (Swainson.)

Description. Male. Bill as long as the head, compressed, slightly arched, acute, scarcely more robust than in many Sylviæ; upper mandible carinated above, its margins acute and entire; lower mandible carinated beneath, acute. Nostrils basal, lateral, linear-elliptical, half closed acute. Nostrils basal, lateral, linear-elliptical, half closed by a membrane. Feet short, tarsus scutellate before and behind; toes two before, separated; two behind, one of which is versatile, the sole flat; claws slender, compressed, arched. Plumage blended, slightly glossed. Wings long, the first quill short, the third longest, the primaries tapering. Tail long, graduated, of ten feathers, which are rather narrow and rounded. Upper mandible brownish-black, yellow on the margin towards the base; under mandible yellow. Iris hazel. Feet greyish-blue. The general colour of the upper parts, including the wing-coverts and two middle tail-feathers, is light greenish-brown, deeper anteriorly. Primary quills with the inner webs brownish-orange. Tail-feathers, excepting the two middle ones, black, the next two entirely black, the rest broadly tipped with white, the outermost white on the outer web. The with white, the outermost white on the outer web. The under parts are greyish-white. Length 12½ inches, extent of winga 16: bill along the ridge 1, along the gap 1½.

The female differs very little from the male in colouring.

(Audubon.)

Habits, &c. The author whose specific description we have given above, thus graphically describes the habits of the yellow-billed Cuckoo, Cuculus Carolinensis of Wilson, Coccyzus Americanus of the prince of Musignano, Cuculus Americanus of Linnseus, and Carolina Cookoo of Latham. 'The flight of the bird is rapid, silent, and horitail-covers, the fourth quill longest; tars imoderate, naked; upper tail-covers long but not rigid. Inhabits the Old World; parasitic. Type, Oxylophus Levaillantii.

Description. Head crested, the feathers pointed; plumage above, black glossed with green; band at the base of the quills, end of the tail, and under parts of the body the quills, end of the tail, and under parts of the body thite; throat striped with black. Wings long but rounded, fifth quill langest. Total length fifteen inches. Mr. Swainson, whose description we have given, says that, unlike the true cuckoos, these birds rear and provide for their together. On the other hand, early in March, the greater

The English of Reflect to the Reference of the Contract of the The transmittent of the state o Per and a section of a section of the section E . circa y Berrete . the remillion at a second of some and a second of the seco Chi-Fren Sour. E. as a com as i moved of a situate le . mannanti di Mini Secto darrati di Britten. The second secon THE BOTH OF THE PARTY OF THE PA - Time 1.3.1 "TILUMELLE !

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The best sorte of encumbers are, for outkern, the Reasons, the newing, the large white Romanul, for large win, the newing, the large white Romanul, for large win, the Longford; and for ordinary forcing purposes, the black spined long pricely, if well savist. A small our called the bandy cosumber is grown in the fields in some parts of Redfordshire, but it is altogether interior to the Russian, CUCUMBER, SPIRTING, the English name of Montaline, by a results.

CUCUMISE, the cocurridacesans pound whose comprehensive the malous, the cocurridacesans pound which comprehensive the malous, the cocumber, and norm such of goard. It is destinguished from the neighbouring generally in three thick split stigmes, and by the words become a thin margin. Too fruit is in all cases pulpy internally, many conduct, and divided into three or air cells when young. The following are the amendal species— 1 R 4

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CUCUMIS COLOCYNTHIS, or Bitter-apple, a nual plant, the fruit of which is about the size of but rather lighter colour than an orange; the rind smooth; when the rind has been removed, a white spongy pulp or pith is found within, which constitutes the officinal part, or the colocynth, the seeds being rejected. The rind is generally removed before reaching Europe. One hundred parts of deporting the new testing the removed before reaching th decorticated apples consist of twenty-eight parts of pure pith, and seventy-two parts of seeds.

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3. C. sativus, the cucumber. Tartary is assigned to this species as its native country, but upon authority equally questionable with that for the melon. No modern traveller

seems to have found it wild. [CUCUMBER.]
4. C. Colocynthis, the Colocynth gourd. This plant furnishes the drug colocynth, so well known for its purgative properties. It is found wild in the Grain Archipelago, Egypt, and the north-eastern parts of Africa generally. Burckhardt saw it covering large tracts in Nubia; and Roxburgh speaks of it as common on the coast of Coromandel. It is doubtful, however, whether the plant of the latter botanist is not rather C. Pseudo-Colocynthis. This species grows like a cucumber, but has cordate-ovate, many-cut, and lobed leaves, white beneath with hairs. Its fruit cut, and lobed leaves, white beneath with hairs. Its fruit is small, round, deep yellow, smooth, hard externally, with an intensely bitter pulp. The gourds are gathered in autumn, when they are beginning to turn yellow; they are then peeled and dried rapidly in stoves.

5. C. Citrullus, the water-melon. Its deeply-lobed and gashed leaves, and its round fruit, with a spotted rind and

a cold watery pink or white flesh, in which lie a number of black seeds, sufficiently mark this species, which is most extensively cultivated all over India and the tropics of Africa and America, and generally in hot countries, but which is of no value in the north of Europe, where high flavour is required mere than cooling properties.

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CUIDDAPAII, or KIRPA, a corruption of the Bangham serving, would (in the Ringhest by the Nissan of 1900, in singular serving), would (in the Ringhest by the Nissan of 1900, in singular the property of the Kryfish, and contained hadvens of all soft of the Kryfish, and contained hadvens of the Kryfish, and contained on manifold some white reliable that the Ringhest color, but and the cotto. Currentoneously, Programos, and Sciour costs of these subdivisions in manuel after its capital town. Throughous this reliable that it is contained abundantly, and to this came it is coving that, except in the rainy account for the writer is groundly brucked.

The town of Cuddapala in 12 32 month lar, and 25 42 can long, stands 507 for above the bard of the except of the first soles of the river Cuddapala, a small slivour which these in the hills to the southness of the intern subdiscensive the hills to the southness of the intern subdiscensive the hills to the southness of the intern subdiscensive the hills to the southness of the intern subdiscensive the southness of the intern subdiscensive the country surrounding the town a considerable quantity of vogat is made. The celebrated diamond mines of Cuddapala are about ascen miles north-seat of the surrounding the several hundred years with submer success. The places in which diamonds have hathered heavy forms the first the surfaces to the greatest depth, but occur to had always increde than the adjacent solt and tought. The diamonds are not centered through the whole of the nature from the surface to the greatest depth, but occur to had always increde than the adjacent solt and tought, or of coloring described these much subject to the internal center of the surface of the mile and the surface to the greatest depth, but occur to had always increde than the adjacent solt and country not orientative contains of the first second in the surface of the properties. The diamonds have in the adjacent and the first second of the contains of the mile of the properties of the surface of t

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to that end upon which reliance can be placed. The entire population of the collectorate of Cuddapah was stated to smount, in 1806-7, to 1,066,237; and in 1822-3 to 1.094,460 souls, of whom 578,461 were males, and 515,999 females. The number was stated, in 1828-9, at no more than 981,562; and it is alleged that this diminution was caused by the cholera. The great bulk of the inhabitants are Hindus. Returns were made by the collector in 1826, from which it appeared that throughout the whole of Cud-dapah there were then only 494 schools, in which were instructed 6000 scholars, 5658 of whom were Hindus, and 342 Mohammedans.

(Rennell's Memoir of a Map of Hindustan; Heyne's Statistical Tracts on India; Report of Committee of Com-

mons on the Affairs of India in 1832.)

CUDDALORE, a town in the Carnatic province, on the western shore of the Bay of Bengal, in 11° 44' north lat, and 79° 50' east long. The town is built on both sides of the Pennar River; the houses on the north side are modern, and many of them handsome. The dwelling of the collector, the principal resident European officer, is a large and elegant structure, with avenues of fine trees. The streets on the south side, called the Old Town, are many of them spacious, and contain several handsome houses. Altogether, Cuddalore is one of the handsomest towns in

the south of the peninsula.

Cuddalore was taken from the French by the army under Colonel Coote in April, 1760, and remained under the government of the nabob of Arcot until April, 1782, when it was taken by the rajah of Mysore, assisted by a body of French troops. In June of the following year, the town was attacked by a British force under General Stuart, which was repeatedly defeated, and suffered great loss in attempts to carry the place by assault. The last of these attacks, in which the besiegers lost 600 men, occurred only two days before the arrival of the news of peace having been concluded between France and England: this event of course put an end to hostile operations. Cuddalore, with the remainder of the province of Arcot, came into possession of the English by treaty in 1795, and has so continued.

(Rennell's Memoir of a Map of Hindustan; Mills' His-

tory of British India.)
CUDWORTH, RALPH, was born at Aller, in Somersetshire, in 1617. Having been entered at Emmanuel College, Cambridge, in 1630, when he was but thirteen, he commenced residence in 1632, and became in due course of time, as his father had been before him, a fellow of Emmanuel. He acted for some time as tutor in the college, and had among his pupils the afterwards celebrated Sir William Temple. He had taken the degree of M.A. in 1639; he took that of B.D. in 1644, maintaining upon this occasion the two following theses: 1. Dantur boni et mali rationes æternæ et indispensabiles; 2. Dantur substantiæ incorporeæ sud naturd immortales. In 1644 he was also appointed master of Clare Hall; and in the succeeding year was elected to the regius professorship of Hebrew. On receiving this appointment he devoted himself with zeal to the subject of Jewish antiquities. He took the degree of D.D. in 1651. Though holding the two situations which have been mentioned, and besides these the living of North have been mentioned, and besides these the living of North Cadbury, in Somersetshire, worth 300l. a year, to which he had been presented by his college shortly after taking his master's degree, he did not find his means sufficient for his support. It does not appear that he was a man extravagant in his habits; but owing, it is said, to pecuniary difficulties, he now absented himself for some time from Cambridge. He returned in 1654, having been chosen master of Christ's College. He now married, and the remainder of his life was spent in this college. In 1662 he was presented by the then bishop of London to the vicarage of Ashwell, in Hertfordshire; and in 1678 he was installed prebendary of Gloucester. In this last-mentioned year appeared his great work, the True Intellectual System of the Universe; or rather (for though complete in itself, it is but a fragment of a larger work which he designed), the first part of the Intellectual System. This first part is devoted to the refutation of atheism. The whole work was to consist of three parts; but the second and third parts, which were to treat respectively of the nature of moral distinctions and of free will, were, though written, never published by him.\*

Dr. Cudworth died at Cambridge, m 1688, in the 71st year of his age, and was buried in Christ's College. He left one daughter, who married Sir Francis Masham, and who is known, under the name of Lady Masham, as the friend of Locke.

Dr. Cudworth was one of that set of Cambridge divines, Latitudinarians, Arminians, and Socinians, as they were called by those who having nothing definite to bring against them resorted to ugly names, on whom Bishop Burnet has passed a high eulogium in his history of the reign of Charles II.\* The chief others at this time were Drs. Whitchcot, Wilkins, Henry More, and Worthington. 'Dr. Whitchcot,' says Burnet, 'set young students much on reading the antient philosophers, chiefly Plato, Tully, and Plotin, and on considering the Christian religion as a doctrine sent from God, both to elevate and sweeten human nature, in which he was a great example, as well as wise and kind instructor. Cudworth carried this on with a great strength of genius and a vast compass of learning. He was a man of great conduct and prudence; upon who is his enemies did very falsely accuse him of craft and dissipations. Latitudinarians, Arminians, and Socinians, as they were

his enemies did very falsely accuse him of craft and dissimulation.' (Hist. of his own Time, vol. i., p. 321.)

The 'Intellectual System,' or that (properly the first) part of it which now passes under the name, is directed. as has been said, against atheism. This is one of three, as Cudworth conceives, false systems or hypotheses of the universe, or one of three possible modes of fatalism. They are thus briefly described in the proface:—'Of the three fatalisms or false hypotheses of the universe mentioned in the beginning of this book, one is absolute Atheism, another immoral Theism, or religion without any natural justice and morality (all just and unjust, according to this hypothesis, being mere thetical or factitious things, made by arbitrary will and command only), the third and last, such a Theism as acknowledges not only a God or omnipotent understanding Being, but also natural justice and morality, founded in him, and derived from him; nevertheless no liberty from necessity anywhere, and therefore no distributive or retributive justice in the world.' Better erecting the true intellectual system of the universe (i) epithet intellectual being used, as he tells us, 'to distinguish it from the other, vulgarly so called, systems of the world, that is, the visible and corporeal world, the Ptolemaic, Tychonic, and Copernican'), it was his object to demolish the was false systems. And the first of them, atheism, or the atheistic fate, is attempted to be demolished in the first atheistic fate, is attempted to be demolished in the first part, which is all that we have under the name of 'Intellectual System.' It is a work of great learning, and also of great acuteness. Lord Bolingbroke has said of Cudworth, that he read too much to think enough, and admired too much to think freely; a criticism which, certainly unjust, appears plausible only from the well-kin an extent of Cudworth's emission. But come when the extent of Cudworth's erudition. But graver charges have been founded upon this work. 'You know,' says Long Shaftesbury, 'the common fate of those who date to appear fair authors. What was that pious and learned manages who wrote the Intellectual System of the Universe? I confess it was pleasant enough to consider, that then if the whole world were no less satisfied with his capacity and learning than with his sincerity in the cause of the Degree. yet was he accused of giving the upper hand to the athets, for having only stated their reasons and those of their reserves fairly together.' (Characteristics, vol. ii. p. 2022. There wanted not country elergymen, says Warburter.

to lead the cry and tell the world that, under pretence of defending revelation, he wrote in the very manner that and artful infidel might naturally be supposed to use in writ: against it; . . . that with incredible industry and reing, he had rummaged all antiquity for atheistical arguments; which he neither knew how, nor intended, to all-

on the appearance of this work, goes on to quote the following remark of Waburton's:—'The silly calumny was believed; the much injured author goed disgusted; his ardour slackened; and the rest and far greatest parton's defence never appeared.' (p. 22.) Though this does not necessarily a that the remainder of the work was not written, the inference would not better forced one. Nor does, Dr. Hirch ever explicitly state that the sean that the remark—'It's several posthumous works, most of which seem to be a continuation.' Intellectual System," of which he had given the world only the first (p. 31.) A reference merely to Dr. Cudworth's preface, in which he may a division of his subject, or to the beginning of his first chapter, which shown that the treatise on Eternal and Immutable Morality, which have published since his death, is the second part, and the treatise on Litters.' Necessity, which is still in MN, is the third part of the work.

An account and defence of these divines is to be found in a tractified 'An Account of the new Sect of Latitude-men at Cambridge,' who a was reprinted in the second volume of the Phonix, London, 1708,

<sup>&</sup>quot;Yr. Birch, in the memoir prefixed to his edition of the 'Intellectual System,' related the calumnious charges of atheiam brought against Cudworth

swer; in a word, that he was an atheist in his heart, and an Arian in his book.' (Divine Legation of Moses, vol. iii., ed. 1765. Preface.) The accusation alluded to in these passages is made in a circuitous way by a Mr. John Turner, in a 'Discourse of the Messiah.'

In attacking atheism, or the atheistic fate, Dr. Cudworth describes the atomic physiology which, as held by Democritus, and other antient philosophers, involved atheism. It being his object to demolish atheism under every form, and therefore the atomic atheism, he yet adopts the atomic physiology, contending that 'so far from being either the mother or nurse of atheism, or any ways favourable thereunto (as is vulgarly supposed), it is indeed the most opposite to it of any, and the greatest defence against the same.' For the better confutation of other forms of atheism, to which he gives the names Hylozoic and Cosmo-plastic, he makes the hypothesis of an 'artificial, regular, and plastic nature,' working in complete subordination to the Deity. And to avert an argument brought against the oneness of the Deity, from its unnaturalness as shown by the general prevalence of Polytheism among the Pagan nations, he contends that 'the Pagan theologers all along acknowledged one sovereign and omnipotent Deity, from which all their other gods were generated or created,' and that their Polytheism was but a polyonymy of one God.

The 'Treatise on Eternal and Immutable Morality' cor-

responds to the second part of the 'Intellectual System.'

responds to the second part of the 'Intellectual System.' It is directed against those who 'affirm justice and injustice to be only by law and not by nature;' among which affirmers he places, erroneously in our opinion, Hobbes.

Besides the 'Intellectual System,' Dr. Cudworth published, 1. 'A Discourse concerning the true Notion of the Lord's Supper,' in which he maintains, as Warburton has since maintained, that the Lord's Supper is a feast upon a sacrifice; 2. A Treatise, entitled, 'The Union of Christ and the Church Shadowed, or in a Shadow;' 3. 'A Sermon on John ii. 3-4, preached in 1647 before the House of Commons on a day of Public Humiliation;' 4. 'A Sermon preached in 1664 at Lincoln's Inn, on 1 Cor. xv. 57;' 5. A Treatise, entitled, 'Deus Justificatus, or the Divine Treatise, entitled, 'Deus Justificatus, or the Divine Goodness vindicated and cleared, against the assertors of absolute and inconditionate Reprobation.

He left several works in manuscript, only one of which has yet been published; viz., the 'Treatise concerning Eternal and Immutable Morality,' which appeared with a preface by Dr. Chandler, Bishop of Durham, in 1731. The rest are, 'A Discourse of Moral Good and Evil;' 2. 'A Disrest are, 'A Discourse of Moral Good and Evil; '2. 'A Discourse of Liberty and Necessity, in which the grounds of the Atheistical Philosophy are confuted, and Morality vindicated and explained;' 3. 'A Commentary on Daniel's Prophecy of the Seventy Weeks;' 4. 'Of the Verity of the Christian Religion against the Jews;' 5. 'A Discourse of the Creation of the World, and Immortality of the Soul;' 6. 'A Treatise on Hebrew Learning;' 7. 'An Explanation of Hebber's Notice of God and of the extension of Spirits' of Hobbes's Notion of God, and of the extension of Spirits.' These manuscripts, after having passed through many dangers, were finally purchased for the British Museum, in

which institution they now are.

An abridgment of the 'Intellectual System' was published in 1706 by Mr. Wise, Fellow of Exeter College, Oxford, in two volumes. 4to. In 1733 a Latin translation was published by Dr. Mosheim, at Jena; in which the numerous errors in Cudworth's numerous quotations are corrected, and whose style is less complicated than that of the original: a French translation, which had been commenced by M. Bourdelin, a member of the French academy, was prevented from being finished by the death of the translator. That part of the 'Intellectual System' which treats of the 'plastic nature' gave rise to a controversy between M. Bayle and M. Le Clerc; the former of whom contended that such an hypothesis went to show the possibility of Hylozoism, while the latter defended Cudworth by representing it as a mere instrument of the Deity. M. Le Clerc's articles, which are valuable commentaries on this part of Cudworth's work, are in the Bibliothèque Choisie, tom v., vi., vi., ix. (Kippis's Biographia Britannica; Mosheim's and Birch's Lines.)

CUE'NGA, a province of Spain, in New Castile, is bounded to the north by the provinces of Guadalaxara and Soria, on the east by Aragon and Valencia, south by Murcia and La Mancha, and west by Guadalaxara and Toledo. It is one of the most elevated provinces of Spain, its north and east parts being occupied by the high central chain,

which runs nearly north and south on the borders of Aragon and Castile, being a continuation of the Sierra de Oca, and assumes in succession the names of Sierra de Molina, assumes in succession the names of sherra de monna, Sierra de Albarracim, in Aragon, and lastly, of Sierra de Cuença. [Castilla.] The Tagus, several affluents of the Guadiana, and 'he Xucar, have their sources in the province of Cuença. This region formed part of the country of the Celtiberi. It is now divided into three partials or administrative districts. Change Husta and S. Clemente. of the Celthorn. It is now divided into three partitions or administrative districts, Cuença, Huete, and S. Clemente. There are two cities, Cuença and Huete, 245 small towns or boroughs, and about 200 villages. The mountainous part abounds with timber trees, fit for house and ship building. The inhabitants of the mountains are chiefly shepherds, and have numerous flocks of sheep. Wool is one of the staple products of the country, part of which is exported, and part manufactured into coarse cloth, carpets, baize, &c., the manufactures of which were once very flourishing in this province, but are now much decayed. There are also manufactories of leather, paper, and soap. The west and south parts of the province consist of arid The west and south parts of the province consist of arid and in great part uncultivated plains. Cuença is altogether one of the thinnest peopled provinces in Spain. The country produces corn, oil, wine, honey, wax, fruit, and saffron, which last forms an important article of exportation. It also abounds with game, and the rivers and lakes with trout and other fish. There are several small but very deep lakes, one of which, near Montealegre, is salt. Jasper of various colours, and silver, copper, iron, coals, and alum, are also found. The length of the province from north to south is about 120 miles, and its medium breadth between south is about 120 miles, and its medium breadth between 70 and 80; and the population, as given by Miñano, is 326,000. The same author gives the following statistics of the annual income or produce of the country: land in possession of the laity, 15,870,000 reales de vellon; ditto belonging to the church and convents, 4,646,000 reales; rent of houses belonging to the laity, 3,244,000; ditto belonging to the clergy, 5,221,000. (Diccionario Geografico estadistico de España, 1830.) The climate is generally healthy; the inhabitants are laborious and honest, and much attached to their native soil, which few of them are induced to quit induced to quit.

CUE'NGA, the town of, stands nearly in the centre of the province, on a steep hill, surrounded by higher mountains, and just above the confluence of the Huecar and Xucar, 80 miles east by south of Madrid. It is a bishop's see, and is one of the cities which sent deputies to the old cortes of Castile. It has many churches, seven convents of Monks and six of Nuns, two hospitals, besides one for foundlings, three colleges, and a clerical seminary. The cathedral is large and handsome; the interior is rich in jasper and other valuable stones; one of the altars, which is dedicated to St. Julian, is much admired for the beauty of the materials and workmanship. Several of the convents are possessed of good paintings. The population is stated by Minano to be 7,800. Cuença is surrounded by walls: the streets are mostly very steep; the town is well supplied with water. There is a handsome bridge over the Huecar outside of the town. Cardinal Gil de Al-bornoz and Alonso de Ojeda, one of the discoverers and conquerors of America, were natives of Cuenca.

CUERS. [VAR, Department.]
CUIRASS or CUIRASSE, a piece of defensive armour, made of plate well hammered, serving to cover the body from the neck to the girdle, both before and behind; the front called the breast, the hinder part the back-plate these were fastened to each other by straps, buckles, hooks, or some other contrivance. The name is supposed to be derived from Curatia or Curassa, a Latin word of the middle age, which occurs in charters at least as early as the fourteenth century (Meyrick's Glossary of Military Terms), originally derived from the French cuir or the Latin corium, 'a hide,' the carliest cuirasses being made of leather, though afterwards chiefly of metal, both brass and

This species of armour was known to the Greeks and Romans. A breast and back-plate of Roman workmanship are preserved among the Hamilton antiquities in the British Museum, which, when worn, appear to have been held together by strings or wires, fastened to nipples in front. In later ages the cuirass was disused, and was not revived in Europe till about the beginning of the fourteenth century. In England it was disused after the reign of Charles II., except in one instance; but has of late years

been revived for our cavalry. The curress was stated in Col. Lygon's evidence before a committee of the House of Commons on army and navy appointments, in 1833, to have been introduced as a part of the accourrements of the Life-Guards within the preceding twelve years. To a question, 'Can you state what was the purchase-cost per man of the cuirass;' he answered, 'I apprehend they cost nothing; they have been lying in the Tower for years, and were worn at the battle of Dettingen.'

In the Romish calendar, under October 14, we find the name of St. Dominic, who is called loricatus or the cuirassed, a title given to a saint of the eleventh century, who

constantly wore an iron cuirase next to his skin.

CUIRASSIERS, heavy cavalry armed with cuirasses. Most of the German powers, especially the emperor of Austria and the king of Prussia, have regiments of cuirassiers. They also form a portion of the French cavelry. In England we have no regiments which go by this denomination, although what are called the life-guards now wear

the cuirase

CUJA'CIUS, CUJAS, JACQUES, was born at Tou-louse in the year 1520. The day of his birth is unknown. His father, a tanner of Toulouse, was named Cujaus, which the son changed into Cujas, for the purpose of making the name better suited for the Latinized form of Cujacius. the latter part of his life he often signed De Cujas. Cujas, at an early age, distinguished himself by his talents and assiduity, and is said to have learned Greek and Latin by himself without any teacher. He studied law at Toulouse under Arnold Ferrier, for whom he entertained a high respect all his life; but he acquired the best part of his ex-tensive knowledge by his own industry. With unwearied labour he studied all the works of the best civilians, and exercised himself in discussions with his fellow-students. In 1547 he began to lecture on Justinian's Institutes with great applause, and soon acquired such a reputation that the most distinguished men of the country, as President Dufaur and John de Foix, sent their sons to Toulouse to study under Cujas. In 1554 a professorship of the Roman law being vacant in the university of Toulouse, Cujas was a candidate, but, by the intrigues of his enemies, a man of very moderate talents, Stephen Forcadel, was preferred. Shortly after, being invited to Cahors as professor of law, he removed there with the greater part of his pupils. In the follow-ing year Margaret de Valois, at the suggestion of the Chancollor l'Hôpital, invited Cujas, as professor of law, to the university of Bourges. At that time there were two cele-brated lawyers in Bourges, Hugh Doneau (Donellus) and Francis Duarin (Duarenus), both of whom became the rivals and enemies of Cujas. This was particularly the case with Duarin, who excited the students against Cujas to such a degree that, as Cujas also had a party of his own among the students, great disturbances would have arisen if he had not left the place. Having removed to Paris he was invited by a deputation from the city of Valentia to accept a professorship in that university. Cujas accepted the invitation; but Duarin having died in the year 1559, he returned to Bourges, where he resided vear 1555, no returned to Bounges, mand to Valois, his patroness, had married the duke of Savoy, who gave Cujas an invitation as professor to the university of Turin. Not liking Italy, he returned to Valence as professor, and lived there till 1575, with some short interruptions, when he left on account of the religious quarrels which disturbed that city. During his residence in Valence the reputation of Cujas rose to its height. Young men from all parts of Europe, and particularly from Germany, not only students of law but those who were devoted to other sciences, came to Valence to study under Cujas. Among his pupils was Joseph Scaliger, the most celebrated philologist of his time, and James Augustus de Thou (Thuanus) the French historian. anus), the French historian. Henry III. of France made Cujas counsellor in the parliament of Grenoble, and loaded him with honours. In 1575 Cujas returned to Bourges as professor; but to avoid the religious troubles he again left Bourges for a year, during which he lectured on the civil law at Paris. Returning to Bourges he resided there till his death, having refused an invitation from Pope Gregory XIII., as professor in the university of Bologna.

The latter years of his life were greatly troubled by the religious disturbances which then distracted France. On of Henry III. the party of the Cardinal de Bourgreat promises to Cujas, if he would write in fa-

refused the proposals, and the fanatics of Bourges being excited against him by his enemies, he nearly lost his life in a tumult. On the 4th October, 1590, Cujas died of grief, as it is said, for the wretched situation of his country, in which civil war had dissolved all social order. Both friends and enemies united in honouring him with a splen-Cujas was twice married. He had a son of great talents,

your of the cardinal against the rights of Henry IV. Cupas

who died in 1581; and a daughter by his second marriage,

who was notorious for her disorderly life.

Cujas was distinguished both as a teacher and a writer. His merits principally consisted in substituting a more rational system in place of the unscientific method of Bartolus, and in grounding his interpretation of the civit law on a profound study of the original authors, and of the manuscripts of the Roman law. He possessed in his own library 500 MS. on the Roman law. His knowledge of archeology also and his exact acquaintance with the antient languages gave him a decided superiority over other civilians. In teaching as well as in his writings he followed the exegetical method, in which he may still be considered

The works of Cujas are very numerous. They are commonly divided into Opera Priora, which were published in his life by himself: first at Paris, 1577, 5 vols. fol., and again in 1583; and Opera Posthuma, which were edited by his friends after his death. Both the Opera Priora and Posthuma were first collected and edited by Alexander Scot, Lyon, 1614. The most complete edition is that by Fabrot, Paris, 1658, 10 vols. fol. As it is very difficult to find what we want in the works of Cujas, the Promptuarium Operum Jacobi Cujaci; auctore Dom. Albunensi.

Naples, 1763, 2 vols. fol. is of great assistance.

The works of Cujas consist: 1. Of editions of the criginal works on the civil law, principally of the Codex Theodosianus, Pauli receptse sententise, Justinian's Institutes, of the three latter books of the Codex Justinianeus; of the Consuctudines Feudorum with notes, and a translation of the sixtieth book of the Basilika, of which he also published an edition; 2. Of commentaries, notes, and interpretations relating to most parts of the Institutes, Pandects, Code, and Novels; a Commentary on the Decretals; and Lectures on many passages of the Pandects; 3. Other important works, as his Observationum and Emendationum libri xxviii. a work which civilians in the time of Cujas called opus ina work which civilians in the time of Cujas called 'opus incomparabile et divinum.' It contains corrections of the
original works on law and of a great number of other
authors, both Greek and Latin. This work is a real treasure
to philologists; 4. Paratilla ad Digesta, et in libros ix.,
Codicis, which is a summary of the titles of the Pandects
and the Constitutions of the Code.

(E'loge de Cujas, par Bernardi, Lyon, 1775; Histoire de Cujas, par Berriot; Saint Prix, History of the Roman Law, which is the best biography of Cujas; Ed. Sjangenberg; Cujas und seine Zeitgenossen. Leipzig, 1822.)
CULEX. [CULICIDES.]
CULI'CIDES (Latreille), a family of dipterous insects of the section Newcorn. Technical characters.—Probability

of the section Nemocera. Technical characters:—Probosis long and slender, projecting forwards, usually straight, terminated by two little lip-like appendages; sucker composed of six slender bristle-like members: palpi five-jointed. generally elongated; antennæ filiform, covered with hairs —in the male sex resembling little plumes; eyes conti-guous: no ocelli; wings inclined, lying close to the body when

at rest, and having one marginal and two sub-marginal cells.

The Culicides, according to Latreille, constitutes the first family of dipterous insects, and is the same group as that designated by Linnseus Culex. It is divided into three genera, distinguished principally by the following characters:

Palmi could in langth to the probassis in hath seven

Palpi equal in length to the proboscis in both sexe-;

genus 1, Anopheles (Meigen).

Palpi of the males longer than the proboscis, and in the females very short; genus 2, Culex.

Palpi shorter than the proboscis in both sexes; genus 3,

Œdes.

We are but too well acquainted with the torment inflicted by the insects of this tribe, which are known in this country by the name of Gnate, are called in France Cousing and in America Mosquitoes.

The pain and irritation are caused by their piercing : 'o skin to feed upon the blood (by means of the little bristle forming part of the proboscis), and injecting at the same time a peisonous fluid. It is said the females alone are the carry on the business in the country for the profit of both

The humming noise accompanying their flight is produced by the vibration of their wings. Gnats seldom appear during the day-time, except in thick woods, and they always abound most in damp situations, a circumstance owing to the habits of their larvæ, which reside in stagnant

The female gnat deposits her eggs (which amount to 200 or 300 in a year) one by one; and as they are deposited, they are joined together, and form a little raft, which floats on the surface of the water. The eggs are hatched in about three days' time, and produce little greenish larvæ, which have a distinct head and lengthened body, composed of numerous segments. The head is furnished with two ciliated organs, which are in constant motion. This motion appears to be for the purpose of creating a current, by which means minute animalculæ, or other substances which may constitute the food of the animal, are drawn into the mouth.

Two other appendages, furnished with tufts of hair, appear to co-operate with the former for this purpose.

The breathing apparatus of the larva consists of a tube, terminated by radiating setse situated at the apex of the body; through this tube the air is conveyed to the traches, and for this purpose it is brought to the surface of the water, so that the animal is then in an inverted position. There is another apparatus also, situated at the tail of the animal, opposed to the breathing apparatus, which serves as a fin, and enables the larva to swim and dive with consi-

derable velocity.

These larvæ are full grown in about fifteen days' time; they next assume the pupa state; the animal then appears to have a rounded form, owing to the apex of the body being recurved. It still inhabits the water, and is active; the position of its breathing apparatus is, however, altered, it being now situated on the anterior part of the body, and consists of two little tubes, which, as before, are applied to the surface of the water for the reception of air. When about to assume the image state, the skin which covered the pupa being loosened from the animal within, and the space between the two being occupied with air, it floats upon the surface of the water; the gnat breaks through the upper part, and stands on the skin it has quitted, and which now serves as a little boat, upon which it floats until it has attained strength to fly.

Culex pipiens, Linn., the common guat, is less than a quarter of an inch in length; the palpi and antennss are brown; the thorax is of a yellowish brown, with two darker lines; the abdomen is of a pale grey colour; the legs are brown, and the base of the thighs yellowish.

The insect which is so troublesome in the island of Cuba, the mosquito (Culex mosquito), is not quite so large as the common gnat. Its proboscis is black; the palpi are spotted with white; the head and thorax are spotted with silvery white, and the latter has a curved band of the same The edges of the segments of the body are also of a silver-like colour.

CULLEN, WILLIAM, was born in Lanarkshire, in the year 1712. His parents being in humble circumstances, he commenced the study and even the practice of physic under certain disadvantages; and after serving an appren-ticeship to a surgeon-apothecary in Glasgow, he became surgeon to a merchant vessel, trading between London and the West Indies. He soon returned to his own district, and practised in the country parish of Shotts, a region proverbial, even in Scotland, for bleakness and poverty. Here an incident occurred which was perhaps his first gleam of good fortune, or, in other words, the first accident of which his genius availed itself to further his success. The duke of Argyle, while on a visit to a gentleman in the neighbour-hood, was amusing himself with some chemical experiments, for which the apparatus in his possession proved insufficient: his host recollected Cullen as a person likely to supply the deficiency; he was accordingly invited to dinner, introduced to the duke, and acquired his good opinion. He soon removed to Hamilton, where he was admitted a councillor in 1720 and 1720. 1737, and was chief magistrate in 1739 and 1740. Here he formed a partnership with a young man destined to attain equal celebrity, William Hunter. The chief object of this connexion was to enable them to improve their medical education; and accordingly they agreed that one of them should alternately be allowed to study during the winter at some medical school, while the other should

parties. Cullen took the first turn, and passed his winter at Edinburgh. Hunter, when his turn arrived, went to London, where he soon recommended himself to Dr. Douglas, a lecturer on anatomy and midwifery, who engaged him as Thus ensued a premature dissolution of partnership; for Cullen of course threw no obstacles in the way of his friend's advancement, but readily cancelled the articles. They maintained ever after a cordial communication by letters, though it does not appear that they had ever after a personal interview.

It was during this period of country practice that Cullen was united to Miss Johnston, the amiable daughter of a neighbouring clergyman. She married him when he had no worldly advantages to recommend his suit, presented him with a numerous family, and enjoyed the gratification of sharing his dignified prosperity until 1786, when she

The duke of Hamilton having been suddenly taken ill at his palace, sent for Cullen, who not only benefited him by his skill, but attracted him by his conversation. It appears to have been the interest of this nobleman which procured him the situation of lecturer of chemistry in the University of Glasgow; and having previously taken his doctor's degree, he began his first course in 1746. His medical practice daily increased; and when a vacancy occurred in 1751, he was appointed by the king to the professorship of medicine. It was now that he began to show the rare and most precious talent of giving science an attractive form, diffusing clearness over abstract subjects, and making the most difficult points accessible to ordinary capacities.

In 1756 he was called to Edinburgh to fill the chair of chemistry, vacated by the death of Dr. Plummer. While holding this office, he for several years delivered clinical lectures at the royal infirmary. Alston, the professor of materia medica, died in 1763, and was succeeded by Cullen, who, though now in the middle of his chemical course, began his new subject a few days after his nomination. So great was his popularity, that while only eight a hundred. On the death of Dr. Whytt, in 1766, Cullen took the chair of theoretical medicine, resigning that of chemistry to his pupil Black. The chair of practical medicine next became vacant by the death of Dr. Rutherford. Gregory started as a rival candidate to Cullen; but by an amicable compromise it was agreed that the chairs of theoretical and practical medicine should be shared between them, each lecturing on both subjects; but when Gregory was suddenly cut off in the prime of life, Cullen occupied the practical professorship alone, till within a few months of his death. As a lecturer, Dr. Cullen was the greatest the practical professorship alone, till within a few months of his death. As a lecturer, Dr. Cullen was the greatest ornament of Edinburgh in the days of its greatest celebrity; and, like all who have excelled in that difficult branch of the profession, he carried with him not merely the regard but the enthusiasm of his pupils. Alibert bears testimony to the impression he made upon the foreign students who resorted to his lectures, and who preserved indelible recollections of his power to convince and to awaken. He lectured from short notes, and this nearly extemporaneous delivery no doubt contributed to that warmth and variety of style which tradition ascribes to his lectures, but which are certainly not the characteristics of his published works. Cullen was great to the last; and his published works. Cullen was great to the last; and his life was extended to the 5th of February, 1790, when, in the words of his French biographer, he closed his glorious career. The following is a list of Dr. Cullen's works: I. First Lines of the Practice of Physic, Edin, 1777, 4 vols. This work has been frequently reprinted, and has been translated into French, German, Italian, and Latin. Dr. Cullen's system, as delivered in this book and in his lectures, superseded that of Boerhaave, of which the humoral pathology forms a part. This theory however which supposes diseases to arise from a degeneracy of the animal fluids, not only harmonizes with the instincts of mankind, but has been of late years so confirmed by chemical analysis, that it bids fair to rear up its head again in the schools of medicine. Even Cullen, the great opponent of the humoral

diseases; the third, the Cachexim, or diseases of an ill habit | English poured forth their incessant fire of musketry; of body; the fourth, the Locales, or local diseases. To give an example of each, pleurisy belongs to the first class, epilepsy to the second, scurvy to the third, and tumours to the fourth.

The doctrine of spasm, which is used by Cullen to solve so many difficulties in the theory of medicine, is no longer universally admitted; but the practice which he founded upon it is so good that we cannot refuse him the honour of having been one of the great improvers of the art of healing; and we concur with that excellent judge, Dr. Thomas Young, who declares the 'First Lines' to be 'an extremely elegant and valuable introduction, rather encumbered than injured by some hypothetical speculations.' (Medical Literature, p. 125, 2nd edit.) As Cullen's system is founded on that of Hoffmann, it seems in its turn to have given birth to that of Brown, which is perhaps merely a rude simplification of his great master's theories. [Brown.]
II. Institutions of Medicine, Edin., 1777, 12mo. This

is a treatise on physiology, which was translated into

French, German, and Latin.

III. An Essay on the Cold produced by evaporating Fluids, and of some other means of producing Cold, Edin., 1777. This is annexed to Dr. Black's Experiments upon

Magnesia alba, &c.

IV. A Letter to Lord Cathcart, president of the Board of Police in Scotland, concerning the Recovery of Persons drowned and seemingly dead. Edin., 1784, 8vo. At the end of the letter is the date 1774, and afterwards there is an extract from the Journals of the Board of Police, also dated 1774.

V. Synopsis Nosologiæ Methodicæ. Edin., 1785, 2 vols. 8vo. The first volume contains the nosologies of Sauvages, Linnseus, Vogel, Sagar, and Macbride; the second contains Cullen's own, which is by far the best. This work was Cullen's own, which is by far the best. translated into German, with some additions. Leipzig, 1786, 2 vols. 8vo.

VI. A Treatise of the Materia Medica. Edin., 1789, 2 vols. 4to. Translated into French and Italian, and twice into German; one of the German translations is by Hahne-mann. Leipzig, 1790, 2 vols. 8vo.

Cullen's clinical lectures were published in 1797, Lond. 8vo. Dr. Young (Med. Liter.), after the title of the book, puts the word surreptitious, so that it was probably printed

from the note-book of some student.
(The Bee, by Dr. Anderson, vol. i.; Lives of British Phy-

sicians; Biographie Universelle.)

CULLO'DEN, a house and estate belonging to the family of Forbes, about three miles north-east of Inverness, which has given name to the battle fought April 16, 1746, which put an end to the Rebellion. On the night preceding, the Highlanders had intended to surprise the duke of Cumberland in his camp at Nairn; but this scheme having failed, they took up a position on the Moor of Drum-mossic, their left wing towards the house of Culloden, where the declivity of the hill was soft and marshy, their right slightly protected by a stone wall. The ground, however, was unfavourable, being on the whole well suited to the operations of cavalry and artillery. Many of the Highlanders were absent, strong reinforcements were daily expected, and those who were present were weakened by hunger and futigue. The question had been strongly debated, whether it would not be expedient to withdraw to the hills; but the difficulty of finding subsistence for the men and the importance of protecting Inverness determined the prince, Charles Edward, and his councillors to venture a battle, which was fought under every disadvantage, of which not the least was the indecision or incompetency of the leaders. Drawn up in line in the position above mentioned, while waiting for the signal to charge, the Highlanders suffered greatly from the English artillery. Exasperated at last beyond enderance, the centre rushed forward. This, the last charge of the Highlanders under their patriarchal discipline, and with their peculiar arms, is vividly described in Chamber,'s 'History of the Rebellion,' a small work

roplete with interest.

A Lowland gentleman, who was in the line, and who survived till a late period, used always, in relating the events of Canada, to comment with a feeling of something

Iwo to n the terrific and more than natural expression

notwithstanding that the cannon, now loaded with grape-shot, swept the field as with a hail-storm; notwithstanding the flank fire of Wolfe's regiment, onward onward went the headlong Highlanders, flinging themselves into, rather than rushing upon, the lines of the enemy, which indeed they did not see for smoke till involved among their weapons. It was a moment of dreadful agonizing sales pense, but only a moment, for the whirlwind does not sweep the forest with greater rapidity than the Highlandseleared the line. They swept through and over that find barrier almost as easily and instantaneously as the bounding cavalcade brushes through the morning labours of the gossamer which stretch across its path; not however with the same unconsciousness of the events. Almost every man in their front rank, chief and gentleman, fell before the deadly weapons which they had braved; and although the enemy gave way, it was not till every bayonet was belit

and bloody with the strife.

'When the first line had been completely swept aside, the assailants continued their impetuous advance till they came near the second, when, being almost annihilated by a profuse and well-directed fire, the shattered remains of what had been but an hour before a numerous and confident force, at last submitted to destiny by giving way and flying. Still a few rushed on, resolved rather to die than thus forfeit their well-acquired and dearly-estimated homour. They rushed on, but not a man ever came in contact with the enemy. The last survivor perished as he reached the points of the bayonets.' It is said that, in one place, where a very vigorous attack had been made, their bodies were

afterwards found in layers three or four deep. The right wing of the Highlanders, advancing at the same time, was attacked in flank by the English cavairy and broken; the left withdrew almost without sharing the fight. About 600 men were killed on each side. The battle, however, was decisive, and the prince fled to the mountains, and some days after gave notice to his partial to provide for their own safety, declining to continue the mountains and some areas made to meet him and the most him and the mo contest with 8000 men, who were ready to meet him in Badenoch. The conduct of the English, especially of the duke of Cumberland, after the battle, was disgraced by extreme cruelty.

This memorable event has given occasion to many plant. tive popular songs.

Drummossie Muir, Drammossie day, A wacful day it was to me! For there I lost my father dear, My father dear and brethren three.

(Chambers, Hist. of Rebellion; Hogg, Jacobite Relice.)

CULM, the stem or straw of grasses. CULM or KULM, one of the thirteen circles into which the government of Marienwerder in the province of W.. the government of Marienwerder in the province of watern Prussia is divided. Its area is about 341 square names, and its population about 33,200. It contains two traces, and its population about 1150 inhabitants). The cut utry a waterod by the Vistula in the west, where the soil is round productive: the more elevated parts are also for Much grain, flax, tobacco, and fruit is raised, and contains. breeding is extensive. The inhabitants are German. . . Poles intermixed.

CULM, the chief town, stands on a hill at the first which the Vistula flows, in 53°21' N. lat. and 1- ... Find the Teuton of the in 1229, who instituted an academy or public school 1387, for which a gymnasium has been substitute. modern times.

Culm is surrounded by walls, and has 5 Roman Cvil and I Protestant church, a chapel, 3 nunneries, an mary, a Catholic ecclesiastical seminary, a cadet a and 3 other schools. It gives its name to the brane. Culm, the diocesan of which has his residence and at Culmsee. The number of houses is about 400, 2 inhabitants about 5100. The chief occupations co townsmen are the manufactures of woollens, tann: - '... ing, and trading. Culm was formerly one of the Han-Towns.

Word till a late period, used always, in relating the fast of Cull. Anthracita: Binarcan pp. 358, 35 to Cull. Coll. don, to comment with a feeling of something two up in the terrific and more than natural expression. By which glowed in every face and gleamed in every bears the same name, and is situated in a fertile and the strength of the White Main and the strength of the three files of the front line of N. lat., and 11° 27' E. long. It is a well built to the files of the front line of N. lat., and 11° 27' E. long. CULM.

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thriving mart for the grain, fruit, wine, and cattle, which | the exuberant fertility of the surrounding country enables the people to raise), and 5 villages, viz., Turkevi (6450 inhabitants), Madaras (7440), Kunliegges (6160), Kis Uj Szállás

(6760), and Kun St. Marton (4970). CUMANIA, LITTLE. This district, situated between the left bank of the Danube and the right bank of the Theiss, and in the Hungarian province 'this side of the Theiss,' consists of two large and three small tracts of country. The larger tracts adjoin the county of Csongrad on the east, and the counties of Bacs and Csongrad on the south; their northern boundary is the county of Pesth: two small tracts lie to the east of them, the one, next the county of Heves, consisting of two prædia, or privileged settlements; and the other, of Latzhaza, with its small territory and two prædia, on the Danube, between Ratzkévy and Bugyi. With the exception of a few sand-hills, the whole of Little Cumania is a complete level. Its area is altogether about 1003 square miles, and its population about 53,000, of whom 27,000 are Roman Catholics, and 26,000 Protestants. The country has no stream whatever but a brook called the Kigyòs, which flows near Szabad and Filep-Szállás, but it is full of swamps and sheets of water. Most of the land is either occupied by these swamps, or partially covered with sand; but the available surface is fertile in grain and contains fine tracts of rich loam. Besides an abundance of grain, Little Cumania produces tobacco and large quantities of excellent melons; considerable herds of cattle and sheep and a great number of horses are reared on its rich pastures. Much limestone and soda are obtained. The Palatine of Hungary is the immediate governor both of Great and Little Cumania; the Kapitányoks, or chiefs of districts, and justices of circles, are subject to his authority. The people of Little Cumania are as independent, robust of make, and rich as their brethren in Great Cumania. Little Cumania contains 3 market-towns, 5 villages, and 37 prædia. The towns are Halas, on the banks of the Halastó, a large sheet of water, in 46° 36' N. lat., and 19° 32' K. long. It has a population of about 10,900, and a considerable trade in grain and wine. Felegyháza, to the south-east of Ketskemét, has 12,970 inhabitants, and is embellished with a handsome edifice, where the Cumanians have their courts of justice and keep their archives. Near this place several Roman urns have been dug up. There is an extensive traffic here in grain, fruit, wine, and cattle. Kun Szent-Miklós lies on the Baker, to the south of Pesth, and has about 4300 inhabitants.

CUMBERLAND, one of the northern counties of England, lies between 54° 6' and 55° 7' N. lat., and 2° 13' and 3° 30' W. long. On the north it is bounded by the Solway Frith and Scotland for 30 miles; on the south by Westmoreland for 48 miles, and Lancashire 21 miles; on the east by Northumberland for 51 miles, and Durham 7 miles; and on the west by the Irish Sea 67 miles. The extreme length of the county is about 74 miles, and its greatest breadth 34 miles. Its circuit is 224 miles, and the area 1523 square miles, or 974,720 acres. According to the agricultural survey published in 1793, there were 470,000 acres of old inclosed land; 150,000 acres of common that might be brought into cultivation, 342,000 acres chiefly occupied by mountains, and above 8000 acres by lakes and rivers.

In consequence of the cultivation of extensive commons and waste lands, the aspect of the country has been complotely changed. Without reverting to the survey made in the time of William the Conqueror, when there was goodly great forest, full of woods, red deer and fallow, wild awine, and all manner of wild beasts, called the Forest of Englowood!' or to the time of Edward I., when that king, during a few days which he spent in Cumberland for the purpose of hunting, is said to have killed 200 bucks in the same forest; even within half a century, and since the last agricultural survey, more than 200,000 acres have been inclosed. Many of the commons, which previously afforded only a scanty pasturage to a few half-starved sheep and cattle, are now covered with fertile corn-fields and profitable herbuge, have proper hawthorn fences, good roads, and commodious farm-buildings. A scarcity of wood forms a poculiarity in the general aspect of the country, for which two reasons may be assigned—the lords of some manors chum the wood, and the farmers dislike it on account of the minty which it does their corn crops. In area Cumburland runks the twelfth county in England, and in po-Pulation the twenty-eighth. In 1821 the population was

156,124. In 1831 it amounted to 169,681-81,971 maies and 87,710 females.

Surface, Hydrography, and Communications.—The cast and south-west parts of the county are very mountained. rugged, and uneven; the north and north-west parts to low and flat, or gently undulating. Hills, valleys, and ridges of elevated ground occupy the midland part. To a traveller, the mountainous district in the south-west is the most interesting. This part contains Saddleback, Skiddiw. and Helvellyn, and the lakes of Ullswater, Thirlmere, Ib. went-water, and Bassenthwaite. This magnificent and blage of lofty mountains and beautiful lakes annually attracts tourists from all parts of the kingdom. Several of the other districts, though not mountainous, are hilly, and present an endless variety of landscape; some of the valleys are traversed by rivers, and afford perhaps a greater variety of delightful scenery than any other county. Besides the lakes already mentioned, there are several of smaller size. equally celebrated for their diversified and picture-space scenery. Buttermere, Crummock-water, Lowes-water, Ennerdale, Wast-water, and Devock-lake, are frequently visited by travellers in their excursions. There are also several tarns, or small pieces of water, the chief of which are Overwater, not far from Uldale; Burn-moor-tarn, at the head of Miterdale; Tarn Wadling, near High Heaket; Talk:ntarn, in the parish of Hayton; and Martin-tarn, in that of Wigton.

The following is a tabular view of the principal lakes of

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LAKES,	Neurest Market-towns.	Length in miles.	Breadth in miles.	Depth in feet.	He is the sea
Ullswater	Penrith	9	1	210	30.
Thirlmere	Keswick	21	1 1	108	4 5
Derwent-water	Ditto	3	14	72	2.2
Bassenthwaite	Ditto	4	1 1	68	2.1
Buttermere .	Ditto	18	1 4 1	90	ł
Crummock .	Cockermouth	1 8°	1 4 1	132	260
Loves-water .	Ditto	l i		61	
Ennerdale .	Whitehaven	24	1 1	80	l
Wast-water .	Ravinglass	3		270	1re

The most remarkable phenomena connected with talakes are the Floating Island and Bottom-wind, both of which are occasionally observed at Derwent-water, and neither has yet received a satisfactory explanation the lakes are well stocked with fish, particularly with troot, pike, and perch. Ullswater, Ennerdale, Crummock, at Buttermere, contain char; the first of these lakes above with eels and skellies. Salmon pass through Bassenthwa: lake to deposit their spawn in the rivers Derwent a Greta. Trout and eels are found in the tarns. Tarn W. ling produces some of the finest carp in the kingd in There are several fine waterfalls, of which the following are the principal, with their respective situations and heights

		1.00	
Scale Force, near Buttermere		150	
Barrow Cascade, two miles from Keswick		124	
Lowdore Cascade, near Keswick		34.3	
Sour Milk Force, near Buttermere		1,,,	
Airey Force, Gowbarrow Park		٤,,	
Nunnery Cascade, Croglin		ſυ	

The following are the names and altitudes of the princip ... mountains, and the districts in which they are situated

Scaw Fell (high	point)	Rskdale		- <b>P</b> ↔ 31:3
	politic,		•	3111
Skiddaw		Keswick .		-
Bow Fell		Eskdale .	•	29
Cross Fell		Aldston		2
Pillar	•	Wast-water .	•	250
Saddlebac <b>k</b>		Keswick .		27.5
Grassmere Fell		Keswick	-	ý .
High Pike		Hesket New Market		210.
Black Comb	•	Duddon mouth .		1:11
Dent Hill	•	Egremont .		1 1.
Scilly Bank	•	Whitehaven .		٠٠ ر

The offsets of the western or Skiddaw range of pris and transition mountains extend within five miles of lisle, and four miles of Wigton. Those of the sec : (Cross-fell, or Penine chain) do not reach quite so far north as Tindale-fell, near Brampton.

The grouping rows in Compledant on the Educ. On the Complete in the control of the parch of of the

At Barrock, three miles to the south of Newbiggin, is a large rock of greenstone, much used on the public roads. A trap or basaltic rock is also observed near Berrier, at the went, near Cockermouth. The primitive and transition group of the Cumbrian mountains consist of granite, sienite, hypersthene, greenstone, slate, old red sandstone, and mountain limestone. A grey kind of granite is found in the bed of the Caldew, on the north-east side of Skiddaw; and also in a branch of the river Greta, between Skiddaw and Saddleback. Sienite is met with at Irton-fell, Muncaster-fell, and Nether Wasdale; and hypersthene, in conjunction with quartz and felspar, commonly referred to the class of sienite, at Carrock-fell. A reddish fels; ar porphyry is found on Ambroth-fell and on both sides of St. John's Vale, near Keswick. Varieties of slate, intersected by dykes of trap or greenstone, constitute the great mass of Skiddaw, Saddleback, and the adjacent mountains. The common stone of the Keswick district is called blue rag, schistic earth, or whintin. At Borrowdale, Eskdale, and Patterdale, Scaw-fell and Helvellyn, and some adjacent places, grey slate is associated with hornstone, amygdaloid and argillaceous porphyry, constituting the towering crags and lofty precipices of these districts. Many of the cataracts of the lakes fall over rocks of this description. Quartz, garnets, calcareous spar, chlorite, epidote, and sometimes agate, opal, and chalcedony, are found in these rocks. The old red sandstone occurs near Melmerby. Metalliferous limestone, productive of lead ores, abounds in the mountains of the east, and also of the west of the county. Boulderstones, from the granite rocks of Dumfriesshire, occur in the eastern parts of the county; and some, of the granite of Caldew and of the signite of Carrock, near Carlisle. Shap-fell boulders are found on the shores of the Solway Frith: and boulders from the signite of Buttermere and Ennerdale, on the west coast of the county.

The minerals are silver, copper, lead, iron, plumbago, limestone, and coal. The principal lead-mines are situated at Alston, and are almost exclusively the property of Greenwich Hospital, to which institution they were appropriated by act of parliament on the attainder of the earl of Derwent-water. The number of mines now working is about 40, some of which are very productive. Silver and copper are found in some of the mines in the same veins with the lead-ore. Silver and lead are at present got in great abundance at Greenside and Eagle-cragg in Patterdale. Veins of lead-ore have been found and worked between Skiddaw and Saddleback, in Buttermere, Newlands, and Thornthwaite. There are copper-mines at Alston, Caldbeck, and at Wythburn. There is one also below the level of Derwent-water, and another in the parish of Lowes-water. A very rich vein of geld is said to have been discovered at Newlands by a German, in the time of Queen Elizabeth, but the working was discontinued in consequence of a law-suit between that queen and the earl of Northumberland, then the lord of the maner of Derwent-fells. Iron-ore is raised in great abundance near Egremont; the thickness of the band of ore, which is hard solid metal, is said to be between 24 and 25 feet. The quantity of iron-ore shipped from Ulverston and Barrow is very great: 300 carts of ore are taken daily from Lindale to Barrow for exportation. The or of this county produces upwards of double the quantity of metal that is got from iron-ore in general. Coal is worked to a large amount at Whitehaven, Workington, and in the vicinity of Maryport, from whence it is exported to Ireland and the west of Scotland. The eastern part of the county also abounds in coal, particularly Tindale-fell, Talkin, and Blenkinsop, which produce the chief supply for Carli le, Brampton, Penrith, and the intermediate country. Some of this coal is now exported at Port Carlisle to Iteland and Scotland. There are collieries at Gilcrux, Artheby, Oughterside, Bolton, and Hewer-hill. Limestone is very abundant in many parts of the county. In some places it is burnt in great quantities for exportation, particularly to the west of Scotland. At Catlands the limestone is overlaid by the coal measures on all sides. Plumbago, or bla k lead is found, in irregular masses in an mock of grey felspar porphyry at Borrowdale near Keswick.

abundance in the market; but latterly, on account emand being greater, and the mine less productive, zen worked for a succession of years. A little cobalt u got at Newlands, and antimony near Bassen-

thwaite. Lapis calaminaris, small quantities of manganese, galena, iron pyrites, and spar of various kinds and of datferent colours and forms, are found in several places. Since of a pale blue colour and of the finest quality is plentiful in Cumberland, particularly in the neighbourhood of Kewick and Ullswater.

Climate.—In consequence of the great extent of constant the numerous high mountains, the climate is various.

The mountains and high grounds are cold and piercus, the lower parts are mild and temperate: the whole county is exposed to wet and variable weather, particularly in the autumn, yet it is healthy, and many instances of longevity The oldest inhabitant on record is John Taylor, of Garrigill, who died in 1772, aged 135 years. Mr. R. Bowman, of Irthington, another extraordinary instance, die ! June 13th, 1823, in the 118th year of his age; and it was a singular coincidence, that the oldest tree in Cumberland, an oak, of which there is an authentic account of its standing 600 years in Wragmire-moss, Inglewood Forest, fell from natural decay on the same day. With regard to fell from natural decay on the same day. With regard to the salubrity of the climate, the results of the observations made at Carlisle in 1787 by the late Dr. Heysham, are said to represent the lowest mortality ever recorded under any circumstances. How far that city may deserve this high character, since it has become a manufacturing town, his not been ascertained.

The annual mean quantity of rain at Carlisle is about 30 inches; at Wigton, 34 inches; at Whitehaven, 50 inches; and at Keswick, 68 inches. April on an average is the driest month of the year. July, August, September, and October, are wet months: about twice as much rain follow in each of these months as in the month of April; and about one-third less rain falls in the first six months of the

year than in the last six months.

Agriculture, &c.- The soil of this county varies much: it often differs in the same parish, and sometimes even the same field. The mountainous districts are bleak and barren; the most prevalent soil being mossy or dry grave, covered with heath. They are chiefly used as sheep pretures and preserves for moor-game. Some good land of dry brown loam is found in the valleys, and on the sides of the armyllor mountains. some of the smaller mountains. On the margins of the rivers is much valuable ground, consisting of rich born. loam. On the coast the soil is light sandy or gravel. 1: lowland come we extending from Carlisle in every direction for many mass, is fertile, though a considerable portion, it is cold wet loam and black peat earth: this land has latterly been much improved by draining, which is some carried to a very great extent. There is a good deal at fertile clayey loam in the neighbourhood of Wigton. Said and light loam prevail near Brampton, and likewise rest Penrith. In the west of the county there is some wet and on a clay bottom, and also some hazel mould. The subin many places is a wet steril clay. About two-thirds at the county are held under lords of manors, by what is called customary tenure, a species of feudal oppression which subjects them to the payment of certain annual remarks and besides with other and fines, and of arbitrary fines and heriots, with etter-boons and services, on alienation, or on the death of the lord or tenant. A part of the county is freehold, a part leasehold under the bishop of Carlisle, the dean and chap of Carlisle and others, and a small part is copyhold. tithes are generally paid in kind, and have been great obstacles to improvement. The agriculture of the court. has improved considerably within the last thirty years, a. i great quantities of corn and produce of various kinds are now exported. The chief exports are from Port Carlisle, Whitehaven, Workington, and Maryport, and consist cattle, sheep, poultry, grain, potatoes, butter, bacon, &c. The land being divided into small farms, the dairies are necessarily on a small scale, though their produce is excellent, and bears a high price in the market. Many of the farms do not exceed 100 acres, and some are not more there 30 or 50 acres. They are possessed on verbal or with... contracts, or on very short leases. There are very few tor-let on leases of 14 or 21 years. Many persons, province called lairds or statesmen, occupy their own lands, when in some instances, have passed for several centuries in regular line of descent in the same families. Some of the persons have an air of independence which forms a pecul trait in their character. A small part of the land, in zero-places, lies in open town fields, which cannot have the benefit of the common improvement in husbandry. This

the coupe of the place. There there exists are smooth bench was actually attended with a side and a reason that the sound is on a life and a life of the county on computer. These three is a life and is not also county on computer. The three is the other special the territory of the county side is the other special that the circumstance which are account of the chart place of the territory of the county of the latter of the county of

The most them, and the and extent he besine in a proper and outstanders' meating. Lane of mosts could a many places that have been content for the several of the accordance program. The verset of each raind spectrum of the accordance that have been appeared a substance of the accordance that have been appeared a substance of the accordance that have been always in the accordance that have been always before the hard and the substance to the present movemen in the complex of the accordance with the content of the accordance was proved importance to a few bands to the been party a layer a proved importance to the accordance to the party alapsed been been party along the substance to the beautiful to the accordance and driften of reverses these are now become content on a party layers. The accordance are used by a layer between here the appeared earlies of the long-to-make stream laws performent of the appeared earlies of the long-to-make intent of the long and carries of the long-to-make intent of the long and accordance at the long at the long and accordance at the long and the long at the long and accordance. The long and make the long at the long and the long at the long at the long and the long at the long at the long and the long at the lo the finally like in prigorial need to work, open which this can then, and fifth and extensible desire in a proper the greater facility that are no find it was no find the greater to start before transfer. A give a supply could be many the copy for many the greater transfer that has been applyed by a face from the greater at the copy of start and a supplyed by a face from many attended with a size and face on a face! I provide The vector of start affect matter attends and the copy of start affect many one at a start of the copy of start affect many one at a start of the copy of start affect many one at a start of the copy of start affect many one at a start of the copy of start affect many one at a start of the copy of start affect many of the copy of start affect many of the copy of the

The following are the principal flore in Combinated, Noted haves form are bell at Cockermonth, Philosopy tells; Wigner, Polespay veric; and at Language, Thursday before Whitematide. Fore-for cattle and person, at training White-Manday, and emirated every Manday horought with Microsoftma; Abley-Haime, Three-bay habor Whitematide, particular Ville, Cardole, August 19th and September 19th; Harley-Playmarker, the West Teleby to May, and southered every formula and every formulation of a west Teleby to May, and southered every formulation of a west Teleby to May, and southered every formulation of a west formulation. Trake,

February 21; Aiston, last Thursday in May, Friday before September 27, and first Thursday in November. Fairs for cattle, Wigton, April 5; Brampton, the second Wednesday after Whitsuntide, and the second Wednesday in September, April 20, and October 23; Bootle, April 5 and September 25; Economy, the third Friday in May and September 25; Egremont, the third Friday in May, and September 18; Workington, May 18 and October 18; Keswick, the first Thursday in May, and every Thursday fort-night for six weeks, the Saturday before Whitsuntide, and on the Saturday nearest the festivals of St. Michael and St. Martin, or on the festivals if they happen on Saturday; the Martinmas fair is noted also for rams and cheese. Sheep-fairs are held at Low-wood-Nook, August 20; Uldale, August 29; Nether Wasdale, first Monday in September; Borrowdale, first Wednesday in September; Threlkeld, first Thursday in Septembor; Ennerdale, second Tuesday in September; Ireby, October 18; Hesket-New-market, last Thursday in August, and second Thursday in October; Lowes-water, second Friday in September; and Newlands. the last Friday in September.

Cumberland has four newspapers; two are published at Carlisle, and two at Whitehaven weekly.

Divisions, Towns. &c.—This county is divided into six wards, or hundreds, known by the names of Allerdale above Derwent, Allerdale below Derwent, Derwent, Cumberland, Leath, and Eskdale wards. It contains one city, Carlisle; the parliamentary boroughs of Cockermouth and Whitehaven, and 17 market-towns.

Allerdale above Derwent is situate in the south-west of Cumberland, comprehending many of the mountains and lakes, as well as the principal seaports. It contains six market-towns: Whitehaven, Workington, Harrington,

Egremont, Ravenglass, and Bootle.
Whitehaven is a well-built seaport of considerable importance, situate in a creek on the western snore. An arreign of Queen Elizabeth it was only a small fishing village, containing six houses. In 1831 the township population amounted to 11,393, and the parish of St. Bees, including Whitehaven, contained 20,012 inhabitants. streets are regular, generally spacious, and cut each other at right angles. In the vicinity of the town and also immediately under it are extensive collieries. In the year 1791 18 houses were injured, and the inhabitants greatly alarmed, by the falling in of some old coal works. Some of the collicries are wrought to the extent of two miles under the sea, so that the water above them is of sufficient depth for ships of great burden. Some of the coal-seams are 8 and some 11 feet thick. From the pits to the quays are railways and wooden galleries, at the end of which the contents of the waggons are shot down large wooden trunks called hurries into the holds of the vessels. The harbour is commodious: into the holds of the vessels. The harbour is commodious: some additions lately made have not answered, and are about to be altered. Several improvements in the harbour entrance are contemplated. A narrow vale extending to the village of St. Bees, supposed to have been formerly occupied by the sea, might be cut through and made navigable for large vossels at a moderate expense; but this project seems to be lost sight of. There are four batteries for the protection of the port, which were repaired after the hostile attack of the notorious Paul Jones in 1771, but are now in a state of decay, being no longer necessary. At the entrance of the harbour are two lighthouses. The manufactures are of sail-cloth, linen, check, earthenware, candles, soap, &c. There are also large roperies and yards for shipbuilding. The trade chiefly consists in the exportation of coal, lime, iron, freestone, gypsum, and grain, and importations of West Indian, American, and Baltic produce. Tea has lately been imported direct from China. Upwards of 200 vessels are employed in the export of coal. Steam vessels sail weekly between this port and Liverpool, and occasionally to Dublin, Isle of Man, and Dumfries. There are three churches or chapels; seven meeting-houses for religious worship; marine, national, Sunday, and other schools; an infirmary; house of correction; mechanics' institution; custom-house; theatre; salt-water baths; workhouse; public office; news-room and library.

dale, called the Castle. Dr. Brownrigg, an eminent chemist and mineralogist, who died in 1800, practised medicine here. Whitehaven sends one member to parliament. In 1830, the number of voters registered was 476. A few mainfrom the town are the clerical institution and the free-school of St. Bees (the latter founded by Archbishop Grindall, a native of the parish), and the lofty promontory of St. Bees' Head, upon which is a lighthouse.

Aggregate amount of Shipping and Tonnage belonging to the Ports of Cumberland.

1	Apri	L 1810.	Januar	y, 1822.	Janua	ry, 1898.	Japus	ey. 18.C.
Ponts.	Vessela	Tonnage.	Vessels.	Tonpage.	Vensela	Tomske.	Vessels.	Tonnage.
Whitehaven Workington Maryport . Harrington	188 134 101 42	29,342 18,941 13,580 4,960	181 117 128 38	26,220 18,094 19,495 4,976	195 126 - 134 43	30,960 19,930 17,136 5,479	450	66,742
Carlisle .	•		35	2,413	89	2,706	39	3,419
Total .	465	66,828	499	70,198	5:7	76,911	489	70,161

Workington stands on the south bank of the Derwent, which is navigable for ships of 400 tons burden, and fauls into the sea about a mile distant. Coals constitute that chief export; timber, cattle, bar-iron, and flax, the chief imports. Nearly 100 vessels are employed in the contrade to Ireland. Sail-cloth and cordage are the principal manufactures. Ship-building is carried on to a considerable extent. A few years ago a patent Leghorn manufactory, and a joint-stock banking company were established. There are two churches; five chapels for dissenters; a maderial, an infant, and Sunday schools; subscription library; description library. ship population in 1831, 6415. The market-days are Western and Saturday on the former day is the principal market. It is remarkable that this is the only large market town in the county at present (1837) not lighted with

Workington-hall, on the east side of the town, afforded an asylum to Mary Queen of Scots, when she landed a Workington. At Seaton, a little above Workington, are extensive iron-works, and the antique ruins of Burot. It walls.

Harrington is a small flourishing seaport between Whithhaven and Workington. The harbour is well constructed, and the trade gradually increasing. Coal is exported from this place to Ireland, and lime to Scotland. In the former trade upwards of 40 vessels are employed, and in the latter are several hundred sloops. Here are two yards for simply building, a ropery, and a vitriol and copperas manufactory. The parish church is a plain structure, without a tower. There are two Methodist chapels, a Lancasterian school, and a clothing society. Parish population in 1831, 1755. This place and the manor gave name to the antient and harming family of Harringan and measured family of the structure of the

baronial family of Harrington, and was possessed by Lady Jane Grey. Iron-stone and fire-clay are found in the Jane Grey. Iron-stone and fire-clay are found in the vicinity: about 2000 tons of the former are annually exported.

Egremont is a neat little town five miles from White. haven, and about two miles from the sea. It is said to have been an antient borough, which was disfranchised at it. own petition to avoid the expense of representation in 14. liament. The manufactories are of check, linen, pay-leather, and sail-cloth. There are a parish church, Methodist meeting-house, a national school, and a poor-house Saturday is the market-day. Parish population in 18:11. of 1821. It is from this place that the earl of Egrenant takes his title. On the west side of the town are the ru ... of an old castle, supposed to be coeval with the entry of the Normans into Britain. In the parish are some production iron-mines. The seats of Gill-foot and Hale-hall are next to the town. Calder-abbey and Ponsonby-hall are at a

baths; workhouse; public office; news-room and library. There is a neat market-house in a handsome area. The smarket-days are Tuesday, Thursday, and Saturday—the principal market is on Thursday. A fair or great market, August 12th, has been nearly discontinued. At the apthe north is a handsome portice of red freestone, is a railway for coal waggons; and at the S.E. wn is an elegant mansion of the earl of Lons-house, and an endowed school. Near this place are Management of the lower than the town. Calder-abbey and Ponsonby-hall are not a to the town. Calder-abbey and Ponsonby-hall are not a short distance.

Ravenglass is a small market-town and scaport, saturated at the confluence of the Esk, Mite, and Irt. There is a fair held here, with very singular customs and ceremon.

August 5th. It has a market on Friday; a large under the town.

the states fromes and the same of While Casis. Oppores around in the ional lattrace flower that the same is in the following the same of the property of the same to have been a first the same of the property of the same to have been a first the same of the property of the same to the same of the same to the s C. H. M.

Consist planes and the room of Wolfs Casis. Hydres around in his const forces the trees and more in the following marks in the first part of the sense of the specific marks in the following marks in the following marks in the first part of the sense of the specific marks in the first part of the sense of the specific marks in the first part of the sense of the specific marks in the sense of the specific marks in the sense of the specific marks in the sense of the sense of the specific marks in the sense of the

a news-room, and a parochial library. Township popula-tion in 1831, 4855. The market is held on Tuesday; a great market on St. Thomas's Day. The Rev. John Brown, a distinguished writer, author of 'Barbarossa,' &c., was educated at Wigton. About one mile south of Wigton are the remains of a Roman station, called Old Carlisle. At Brookfield, one mile to the west, is a large Quakers' aca-

Eskdale Ward is the most northern division; being situate on the borders of Scotland, the remains of numerous towers, castles, forts, and encampments are scattered over This ward contains only two market-towns, Brampton

and Longtown.

Brampton is a very antient town, and has a weekly market on Wednesday. The new chapel was consecrated in 1789, and greatly enlarged and improved in 1827. A new town-hall, of an octagonal form, and a national school, were erected by the earl of Carlisle in 1817. Gas-works are now being ostablished. Here are four dissenting chapels, three Sunday schools, a grammar-school, and an infant school. The old church, a part only of which is remaining, is situated a mile and a half from the town, on an eminence near the village of Irthington. The principal manufactures are the weaving of checks and ginghams for the Carlisle manufacturers, some of whom have large establishments at Warwick-bridge, Carlisle, and Dalston. Township population in 1831, 2842. The Mote is a natural mount at the east end of the town, probably an antient fort. It rises 360 feet above the level of the streets, and commands an extensive prospect. Upon a rock on the banks of the Gelt, one mile prospect. and a half to the south, a Roman inscription is still legible. About two miles to the east are Lanercost-abbey and Naworth-castle. The former was founded in 1116, and exhibits some beautiful ruins: the latter was a strong fortress, and the baronial mansion of the lords of Gilsland; it is now the property and occasional residence of the earl of Carlisle. The seats in the neighbourhood are Walton-Carlisle. house, Edmond-castle, and Stone-house. Gilsland Spa is a much frequented watering-place on the banks of the Irthing, about nine miles distant. The parish of Brampton gave birth to Dr. Guy Carlton, bishop of Bristol and afterwards of Chichester, and to James Wallace, Esq., attorneygeneral, father of the present Lord Wallace.

Longtown is a modern town on the borders of Scotland. in the parish of Arthuret, which parish in 1831 contained 2053 inhabitants. The streets are regular and spacious. Thursday is the market-day. Cranberries in the season are brought to this market in great quantities from the moors of Scotland. On Monday a market is held for bacon and butter, in which articles there is an extensive trade. Arthuret church, a very elegant Gothic structure, about half a mile distant, was built in 1609. In the town are a Presbyterian meeting house and two charity-schools. Netherby is pleasantly situated on the banks of the Esk, about two miles from Longtown. Liddel Strength, the site of

an antient castle, is about four miles distant.

Divisions for ecclesiastical and legal purposes.—The whole of the county is in the diocese of Carlisle, with the exception of the ward of Allerdale-above-Derwent, in the diocese of Chester, and the parish of Alston, in that of Durham. The gross yearly value of the see may be estimated, upon an average of seven years, at 3000L The commissioners appointed to consider the state of the dioremon in England and Wales recommend that the sees of Carliele and Sodor and Man be united; and that the diocase consist of the present diocese of Carlisle, of those parts of Cumberland and Westmoreland which are now in the duces of Chester, of the deanery of Furness and Cartmel. in the county of Lancaster, of the parish of Alston, and of the late of Man. An act for carrying into effect the reperts of the commissioners was passed in the session of part smeat, 10 16

There are I desperses, Carliele, Penrith, and Wigton; 1 needle servey: 144 paranes; 400 town-hips; 41 rectories; 28 warnes. We received out our arms and chapelries; and 7 amous recognizational process and hamlers. The Roman Committee name 4 of States; the Independents upwards of 20 the Church of Southerd 7, and the Seression 7; the

now building. There are also an endowed grammar-school, | 6 minor canons. The surplus revenue, after the yearly payments and temporary charges, amounts, on an average of seven years, to 3510L, which sum is divided into equal parts, two of which go to the dean, and the remainder equally among the four prebendaries. Houses are also assigned for their residences, which they respectively oc-

cupy, and are bound to keep in repair.

Cumberland is comprehended in the province of York. and in the northern circuit. The assizes are held at Carlisle-twice a year. The quarter-sessions are held twice 1: Carlisle and twice at Cockermouth annually; the Easter and Michaelmas sessions at the latter place, and the Mid summer and Christmas at the former, each commencing en Tuesday. The county returns four members to pariament (two baving been added by the Reform Act); two for the eastern division, which includes Cumberland, Leath, and Eskdale Wards, and two for the western division, comprising the wards of Allerdale-above-Derwent, Derwent, and Allerdale-below-Derwent. Carlisle sends two mentbers, the borough of Cockermouth two, and Whitehavet. one (the last also given by the Reform Act). The members for Carlisle and the eastern division are elected at Carlisle; the members for Cockermouth and the western division at Cockermouth; and the member for Whitehaven a: Whitehaven. The polling-stations for the eastern divisionare Carlisle, Brampton, Wigton, Penrith, and Alston. To number of voters by the registration of 1836 was 4638. The polling-stations for the western division are Cockermonth, Aspatria, Keswick, Bootle, and Egremont: the number of voters registered in 1836 was 4437. The number for the borough of Carlisle in 1836—freemen, 328, householders. 684: total, 1012.

History and Antiquities.—The earliest inhabitants Cumberland of whom we have any account, were the Brigantes, a bold and warlike people, conquered by the Roma: about A.D. 121, when the famous Roman or Picts' W. was erected by Hadrian, to prevent the ravages of the Calcdonians, who bore an inveterate hatred to the Romans This barrier was formed of earth, and connected a chart of forts erected by Agricola in 78. being found matrice cient, Severus, in 210, built one of stone, 73 miles at length, from near the mouth of the Tyne to the Solwin Frith. The last was strengthened by an outward discuss and guarded by towers and a chain of forts and state are Remains of both walls, but particularly of that of Severas. may still be traced in several places. At a very early period, the inhabitants, who were the true and general Britons, were called Cumbri: and hence probably : name of the district, Cumberland. In almost every parof the county are remains of British and Roman quities. About three miles from Kirkoswald is a Dr. ical temple, consisting of a circle of sixty-seven unhem... stones, called Long Meg and her Daughters. Another and more entire circle of stones is situated a mile and a south-east of Keswick. This county has been a perfect magazine of Roman antiquities. The remains of Roman garrisons or stations are still distinctly observable at M., v. port, Old Carlisle, Old Penrith, and Bewcastle. altars, inscriptions, coins, instruments, utensils, &c. b. been discovered at these places. After the retreat of Romans, the country was laid waste and the city of Car. lisle reduced to a complete state of ruin by the Scots Ad Picts. The country had also to endure the ravages of the Danes. During the Saxon Heptarchy it was joined to to kingdom of Northumberland, but was governed by its ... chieftain under what was called the Danish law, until the Norman Conquest. In 945 Cumberland was granted of Malcolm, king of Scotland, and was for a long time the scene of war and bloodshed between the two crowns. I. sometimes under the dominion of the kings of English: and sometimes under that of the kings of Scotland. the time of the Conquest, the county was in such a ..... of poverty and desolation, that it was not rated in the Domesday Book, William the Conqueror having remnited all its taxes. Walter, one of his countrymen, laid of foundation of a priory at Carlisle, which was afterward. converted into an episcopal see. In 1237 Oumberland w. finally annexed to the crown of England by Henry III. a conference held at York; but the feeds between the two first continued for more it in three continues after wards, and this country, situate on the borders, and conference held at York; but the feeds between the two kingdoms continued for more it in three continues after wards, and this country, situate on the borders, and conference held at York; but the feeds between the two kingdoms continued for more it in three continues after wards, and this country, situate on the borders, and conference held at York; but the feeds between the two kingdoms continued for more it in three continues after wards, and this country, situate on the borders, and conference held at York; but the feeds between the two kingdoms continued for more it in three continues after wards, and this country, situate on the borders, and conference held at York; but the feeds between the two kingdoms continued for more it in three continues after wards, and this country, situate on the borders, and conference held at York; but the feeds between the two kingdoms continued for more it in three continues after wards, and this country, situate on the borders, and conference held at York; but the feeds between the two kingdoms continued for more it in three continues after wards, and this country, situate on the borders, and conference held at York; but the feeds between the two kingdoms continued for more it in three continues after wards, and this country, situate on the borders, and conference held at York; but the feeds between the kingdoms continued for more it in three continues after wards, and this country, situate on the borders, and conference held at York; but the feeds between the kingdoms continued for more it in three feeds between the kingdoms continued for more it in three feeds between the kingdoms continued for more it in three feeds between the kingdoms continued for more it in three feeds between the kingdoms continued for more it in three feeds between the kingdoms continued for more it in three feeds between the kingdoms con

pedition towards Scotland, at Burgh Marsh, near Carlisle, where a monument has been erected to his memory. The inhabitants of the county at various times suffered many cruelties and deprivations, had several towns burnt and monasteries destroyed, and were not relieved from hostile attacks and inroads until the union of the two crowns by the succession of James I. Even after this time, outrages and robberies were frequently committed. During the civil war between king Charles and his parliament, and also during the time of Cromwell, Carlisle was besieged, and the inhabitants were much barassed and distressed. This county was the scene of hostilities in the rebellions of 1715 and 1745. In the latter, Carlisle was taken possession of by Charles Stuart and his followers, and was retaken by the king's forces under the duke of Cumberland.

There were formerly several monasteries and antient hospitals in Cumberland. The Austin monks had a priory at Lanercost and another at Carlisle. The Benedictines had priories at Wetheral, Nunnery, St. Bees, and Seaton. The Cistercians had an abbey at Holm Cultram and another at Calder. These was a convent of grow friess at Penyith. Calder. There was a convent of grey friars at Penrith; one of black friars and another of grey friars at Carlisle. There were religious houses of antient foundation at Carlisle, St. Bees, and Dacre. A nunnery is said to have been founded at Carlisle by David, king of Scotland, at which place there was an hospital for thirteen lepers, dedicated to St. Nicholas. At Wigton, an hospital and free chapel were dedicated to St. Leonard. Many of the old churches exhibit remains of the Saxon and early Gothic architecture. Specimens of the former may be seen in the churches of Aspatria, Torpenhow, and Kirklinton; and of the latter

in the abbeys of Lanercost and Holm Cultrum. The west end of the last-mentioned abbey is the only specimen of the latest Gothic in the county. The churches of Burgh-onlatest Gothic in the county. The churches of Burgh-on-Sands, Newton Arlosh, and Great Salkeld have stronglyfortified towers, which probably served as places of refuge for the inhabitants of these villages in the time of an in-

(Nicholson and Burn's History and Antiquities of Cumberland; Hutchinson's History of Cumberland; Conybears and Phillips's Geology of England and Wales; Otley's Guide to the Lakes; Scott's Do.; Lysons' Beauties of England and Wales; Bailey and Culley's Survey of the Agriculture of Cumberland; Housman's Topographical Description of Cumberland, &c.; Ridpath's Border History of England and Scotland; Communications from Cumber

STATISTICS.—Population. Cumberland is both an agricultural and manufacturing county. It is the twenty-eighth on the list of agricultural counties. The population, in 1831, included 40,614 male inhabitants of twenty years of age and upwards. Of this number, 15,466 were engaged in agricultural pursuits, and 3214 in manufactures or in making manufacturing machinery. The latter were thus distributed: the manufacture of cotton employed 2200; calico and ginghams, 300; woollens, 174; sail-cloth, linen, and linen thread, about 100; pottery, 5; and about 250 in the manufacture of cordage, sail-cloth, twine, worsted, and tobacco, most of them at Whitehaven.

The following summary of the population taken at the last census (1831), shows the number of inhabitants and their occupations in each ward, &c. of the county.

		Houses			OC:	CUPATIO	NS.		PERSONS.		
WARDS <sup>0</sup> , &c.	lahabited	Families.	Building.	Unin Imbited.	Families chiefly employed in agriculture.	Families chiefly employed in trade, manufactures, and handicraft.	All other families not comprised in the two preceding classes.	Males.	Females.	Total of persons.	Males twenty years of age.
Allerdale — above)	7,967	8,261	41	478	2,444	2,360	3,457	18,950	20,968	39,918	9,053
Allerdale — below	5,031	5,354	24	229	2,040	1,469	1,845	12,837	13,559	26,396	6,368
Cumberland	3,848	4,140	40	184	1,701	1,699	740	10,159	10,445	20,604	5.225
Eskdale	4,161	4,593	22	120	2,223	1,428	942	11,987	12,004	23,991	6,005
Leath	5,094	5,443	24	286	1,973	1,396	2,074	13,830	13,543	27.373	6.937
Carlisle (city)	2,696	4,326	50	116	249	2,886	1,191	9,450	10,556	20,006	4.890
Whitehaven (town)	2,220	2,703	12	99	••	788	1,915	4,758	6,635	11,393	2,136
Totals	31,017	84,820	213	1612	10,630	12,026	12,164	81,971	87,719	169,681	40,614

	Males.	Females.		Total.	Inc. per Cent.
1801	54,377	62,853		117,230	
1811	63,433	70,311		133,744	. 14
1821	75,600	80,524		156,124	. 17
1831	81.971	87.710	_	169.681	. 10

Showing an increase between the first and last periods of 52.451 persons, or nearly 44‡ per cent., being 12‡ per cent. below the general rate of increase throughout England.

County Expenses, Crime, &c.—The sums expended for

the relief of the poor at the four dates of-

1801 were	£27,603,	which	was	48.	8d.	
1811 ,,	44,985	,,	,,	68.	8d.	for each
1821 ,,	52,352	,,	,,	6 <i>8</i> .	8d.	inhabitant.
1831 ,,	46,167	,,	,,	58.	5d. )	

The sum expended for the same purpose in the year ending 25th March, 1836, was 34,883l. 7s.; and assuming that the population has increased at the same rate of per-centage since 1831 as in the ten years preceding that period, the above sum gives an average of 3s. 11d. for each inhabitant. All these averages are below those for the whole of England and Wales.

The sum raised in Cumberland for poor's-rate, countyrate, and other local purposes, in the year ending 25th

The population of Cumberland at each of the four enu- | March, 1833, was levied upon various descriptions of property, as follows:a. 1

						•
On land	•	•	•	43,405	14	0
., dwell	ing-houses		•	12,080	6	0
. mills	, factories, &	с,		1,182	16	0
,, mano	rial profits, r	avigati	on, &cc.	1,575	14	0
Total mo	ney levied by	assess:	ment .	58,244	4	0

Total money expended.

ie amount expended was :			
For the relief of the poor .	46,901	15	0
In suits of law, removal of paupers, &c.	2,197	4	0
For other purposes	9,585		0
· ·			

In the returns made up for the three succeeding years, the descriptions of property assessed for local purposes are not distinguished.

. £58,684 9 0

	1834.	1825.	1836.
The total money levied, was	£57,919 13 0	64,396 15 0	46,811 1 0
Expended for relief of poor	43,067 2 0	38,966 8 0	34,883 7 0
Expended for relief of poor in suits of law, re moval, &c.	} 9,315 13 0	1,857 8 0	1,655 6 0
Payments for or toward	}( )	8,651 16 0	5,935 4 9
Payments for or towards county rates  Expended for all other pur poses	}{11,894 1 0}	5,130 6 0	4,507 14 0
Total perochial rates expend			46,981 15 0 2 G 2:

A new division has been made since the census was taken, which is men-tioned in the previous part of this article,

228

The saving effected in the sums expended for the relief of the poor in '836, as compared with the expenditure of 1835, is therefore rather less than 10½ per cent. The amount of the other items is however still less in proportion than that of the preceding year, reducing the whole amount of saving to nearly 14 per cent.

From a parliament of the sums expended for the relief of the preceding year, reducing the whole amount of saving to nearly 14 per cent.

From a parliamentary report on the subject, made in 1836, it is found that the number of turnpike trusts in Cumberland is 14; the number of miles of road under their charge is 215; the annual income arising from the tolls and parish composition, in 1834, was 17,365l. 15s. 2d.; and the annual expenditure, 17,655l. 11s. 11d.

The amount of expenditure of county-rate in the year 1834 was 11,161/. 15s. 8ld.—thus disbursed.

	£.	8.	d.
Bridges, building, repairs, &c	6,437	7	10
Gaols, houses of correction, &c., and maintaining prisoners, &c.	1,552	19	3
Shire halls and courts of justice—) building, repairing, &c	44	9	7
Prosecutions	1,078	13	8
Clerk of the peace	448	11	11
Conveyance of prisoners before trial.	123	4	3
of transports	132	12	0
Vagrants-apprehending and conveying	g 147	12	7
Constables—high and special	200	0	0
Coroner	278	8	3
Miscellaneous	717	16	4

The number of persons charged with criminal offences in the three septennial periods ending with 1820, 1827, and 1834, were respectively 351, 408, and 477; making an annual average of 50 in the first period; of 58 in the second and of the integration of the second and of the integral are indicated.

cond, and of 68 in the third period.

The number of persons tried at quarter-sessions in re spect of which any costs were paid out of the county rates in each of the years 1831, 1832, and 1833, were 33, 38, and 50, respectively:

ad 50, respectively.	1831.	1832.	1833.
Total number of felonies so tried	25	33	42
misdemeanors	8	5	8

The total number of commitments to the quartersessions in each of the same years was 38, 43, and 42, respectively: of whom

The number convicted was	29	33	34
acquitted .	5	8	6
Discharged by proclamation	4	2	2

At the assizes and sessions in 1835, 100 persons were charged with crimes in Cumberland; out of which number 17 were charged with offences against the person, 10 of which were common assaults; only I was committed for housebreaking; 66 for offences against property committed without violence; and of the remaining 16 one was committed for forgery, 1 for uttering counterfeit coin, 4 for perjury, and 10 for riot, &c. Of those committed 86 were convicted, and 14 acquitted, or no bill found. The 86 who were convicted, were punished as follow:—1 was executed, 2 transported for life, I for 14 years, and 15 for 7 years; 4 imprisoned for 2 years or upwards of 1 year, 21 for 1 year, or more than 6 months, and 40 for 6 months or under; 2 were discharged on sureties. Of the offenders 79 were males and 21 females. Among the whole number 50 could read and write, 22 could read only, 24 could neither read nor write; and of the remaining 4 the degree of instruction could not be ascertained. The proportion of the offenders to the population in 1835 was 1 in 1697.

The number of persons qualified to vote for the county members of Cumberland were, in

The eastern division The western division		1834. 3992 4149	1835. 4623 4406	1836. 4638 4437
		8141	9099	0076

which is 1 in 14 of the whole population, and 1 in 4 of the male population above 20 years of age. The expenses of the last election to the inhabitants of the county were 3612 24, 2d., and were paid out of the general county

There are six savings-banks in this county. The number of depositors and amount of deposits on the 20th of

The various sums placed in the savings-banks in 1934 and 1835, were distributed as under:—

-	1		1834. L. Deposits.	1836 Depositors, Depositor		
Not exceeding	£20		£19,293	2402	£19.	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	50	1403	42,730	1568	47,117	
,,	100	553	38,401	641	41.	
	150	176	20,763	175	20.7%	
,,	200	85	14,563	93	15. "	
Above	200	19	4,649	19	4.51	

Education.-The following particulars are obtained fr .. the parliamentary papers on the subject, delivered at it

fue sessions of 1999	.—			
	\$	chools.	Scholan	Tota'.
Infant Schools . Number of infants at from 2 to 7 years		11		
	Males		377	
	Females		466	
	Sex not specified		_	
				863
Daily Schools .		632		
Number of children	at such school, ages			
from 4 to 14 years				
	Males		9669	
	Females		7149	
	Sex not specified		3531	
	•			20,665
	Schools	. 643		

Total of children under daily instruction . 21,5%.

Sunday Schools . . . . . . . 185 Number of children at such schools, ages from 4 to 15 years

6100
5553
3039
14

Assuming that the population between 2 and 15 years increased in the same ratio as the whole of the populate. between 1821 and 1831, and that it has continued to crease in the same ratio since, we find that there must h. been living in Cumberland in 1834 (the time this educat. inquiry was made) 54,860 persons between those ages. Of these a large number attend both daily and Sunday science. Only four Sunday schools are returned from places will rethere are no other schools, and where the children, 235 : number, who are instructed therein, cannot be supposed to attend at any other school; at all other places Sur .... school children have the power of resorting to other school also; but in what number or in what proportion dup!...entry of the same children is thus produced, must rem uncertain. Twenty schools, containing 1380 children, w ...... are both daily and Sunday schools, are returned from various places, and duplicate entry is therefore known to be thus far created. After making deductions for this, we may conclude that much below two-thirds of the children receive instruction.

### Maintenance of Schools.

Description of	By cad	ownent.	By subs	By subscription.		rments In-lare	Subsery er's	
Schools.	Schls.	Scho- lars.	Schle.	Scho- lars	Schla.	Sche- lars.	Scha	
Infant Schools Daily Schools Sunday Schools		2050 306	14 171	115 1,297 13,654	501 1	15,0,,	5 23 9	1
Total	96	2356	187	15,066	506	15.187	3.	* •

The schools established by dissenters, included in: above statement, are:—

The se

Infant S	cho	ols						-	_
Daily								3	225
Sunday	39		•	•	•	•	•	44	5197
chools est	abli	she	d s	ince	18	18 a	ıre:		
Infant a	nd e	oth	er d	رانعا	Sc	hoc	ols	308	8,910
Sunday									10,114

Schools. Sch bra.

Seven boarding schools are included in the number of

November were in the respective years:

1833. 1834. 1835.

Number of depositors 3979 4215 4543 4898

Amount of depositors £125,537 133,827 140,399 149,414

Tottle cope to those in Chamberland have leading libraries of the spice to them.

CITAINERLAND, HICHARD, was keen in the parents of 31. June new Alderwale, in Landon, on the 13th of Joly, 1532. He received the varily part of his schooling, 2.35. Paul's along and went history in Marchaen Callege, Cameridge, in total action taking his moster's degree he throughs of someone the medical profession, and mount maying atteined modern. Ear a short time; but he many existing this intention, and took orders. In 1003 he was appointed the intention, and took orders. In 1003 he was appointed to the restory of Broughous, in North languages as where he remained ill his restorement at Cambridge, and not more became both known of the library when his order has contemporary at Cambridge, and not more became both known of the him the living of Alibedians, or a summore. In both phases he performed the dates of mainter with the most exemplary assembly. In Yanning he regularly proached three times every manifest he regularly proached three times every manifest, having taken upon bimself a weakly becomeshed to action to his parential dates. The 'tequity into the Lower's System's brightness of himself as weakly becomeshed to action to his parential dates. The 'tequity into the Lower's System's Brightness, appeared to 1672, the year in which Potendart guidance the Treaties on the Low of Nature and Nations. His 'Reasy on Jowesh Weights and Massures,' a work of great learning and actions. White

Nature and Nation. Her Resy on Jewelt Weights and Messure, 'a work of great hearing and actions. We work to great hearing and actions. We published by 1600.

After the Revolution. Dr. Camberland was raised in the set of Pererbourgh, in the recent of Dr. Thomas White, shows and the flow pererbourgh in the recent in which the property helicipres that the became vicinit were littled up by Welliam as the described by Bishep Bisrusia. It was visible that of them accountrions, and the flight pin interior department of them accountrions, and the flight pin interior department of them accountrions, and the flight predict of the many arts of compleying friends to set them for each mile emiliary, man were used to set them for seal in the emiliary, man were surght for and trought and of their retrement, and most of them very much second in the emiliary, man were surght for and trought and of their retrement, and most of them very much second in the contrary, and most of them very much second in the contrary, and most of them very much second the own indications. (Hist. of his Gom Time, ed. n. p. 76.) These remarks are particularly applied by the Comberland's case. 'The king was hid,' says Mr. Perpe, he chaptain, to choose we are technically applied by the flight of and that the oliginal to whom on a present and entire the first rarely explained was the differ of the case of Peterborough. Thus a private country of expanse, without positing to creats—a place he find rarely entire to the only house of it, was pitched upon to fill a great broad, only bonacous he was fittest for it. He walked flight his used manner on a preseduy to the coffee house, and read to the successful for the manner of Peterborous and the performance of his contrary of the second bounds of the fill have to any best in the anti-order of the second of the high of the performance of his contrary of the second of the performance of his contrary in Domeston the same at the first Planning of Manner, Territory of the second of discordation, the production of

The Chamber level a periodic character opposes to here been the a most incremente only, a new manifest opinion. I When I read, may Mr. Payron to a most increment in tall of a plantation of the plantation of the manifest above 20 lbs man that were upon the base of the manifest of the man that were upon the base of the manifest of the man that were upon the base of the manifest of the man that the man that were upon the base of the manifest of the man that t

Charact in wires avery increase, expeculty a schools of the descent of the state of

mini. No hard possage over control, within commonly of in residing, but he could result give the possiting of in and the several interpretations, without messing to essential list hashes.

The longing into the Laws of Natures was cathed ratherly the goldinal and mersh cooks of Harbines. Harbines is classified therefor with allesium; into a represented in Unitor the "Harmal and Inmunication Marathy," we dearway any standard of oursel good and well other the forms of orproscion that in a coate of personal into the forms of orproscion that in a coate of personal into hare a regim to all things, and that the cities of mersons in the forms of orproscion that in a coate of personal into have a rigim to all things, and that the cities of mersons of the forms of meaning. A regards Comberdard's own views of ment orients, they are subsaminably surreet. Objection may be made to the phrases, "law of nature" and right consent my be made to the phrases, "law of nature" and right consent by which last he denotes the set of floutilities our played in the determination of merslaged and very strong last the denotes the set of floutilities our played in the determination of merslaged and very denoted by a final last hardward processing of the subsamilar process that have arreed any world departer, phraseology cannot be accombed management, and though that phraseology, combined with relumination of exploration process, it pushes to a really correct system. Touching to affect the great duty, or the one great the opening good is made the atmost of the cook, we much while we expect the defice and it connections and played in the off deficit of the cook of because from the reported and the connections of the reactions government upon, and tested by, the same principle.

Sir Jensey and that Gold dealess the greatest possible happiness of all his recently a principle.

Sir Jensey Mackanicola, after passing one or two other criticisms and Cumberland, within a possibility that was thus an activity of a criticism, which, passed upon a syst

the original edition have been perpetuated in the several German and London reprints. Dr. Cumberland left an interleaved copy with a few corrections and additions; in this same copy the whole text was revised by Dr. Bentley; and thus enriched, the copy was presented to the library of Trinity College, Cambridge, by Richard Cumberland, the great grandson of the bishop, and grandson of Dr. Bentley. An abridged translation was published by Mr. James Tyrrel in 1701, during Dr. Cumberland's lifetime. Mr. Maxwell, an Irish clergyman, published a translation in 1727, prefixing and appending some original dissertations. M. Barbeyrac published a translation into French in 1744, having been allowed the use of the interleaved copy containing the author's and Dr. Bentley's corrections. third English translation by the Rev. John Towers, D.D., appeared in 1750. (Payne's Preface to Cumberland's Sau-

choniathon's History; Kippis's Biographia Britannica.)
CUMBERLAND, RICHARD, a favourite dramatic
writer an I miscellaneous author of the last century, greatwriter an I insectianeous author of the last century, great-grandson of Richard Cumberland, bishop of Peterborough, and grandson by the mother's side of Dr. Richard Bentley, was born February 19, 1732,\* in the lodge of Trinity Col-lege, Cambridge. He was placed successively at the pub-lic schools of Bury St. Edmund's and Westminster; and at the early age of fourteen commenced his residence at Trinity College, Cambridge. Though during his two first years he had entirely neglected his mathematical studies, he distinguished himself highly by readiness and skill as a disputer in the schools, and obtained the degree of tenth wrangler. Two years after, he was elected fellow of Trinity. It was his intention to enter the church, and devote himself to literature and the duties of his profession. From these views he was withdrawn by being appointed, in the same year, private secretary to the earl of Halifax, then first lord of trade, whom he accompanied, on his appointment to be lord lieutenant, to Ireland in 1760. Through this connection his father became bishop, first of Clonfert, afterwards of Kilmore. To Cumberland himself the connection brought little benefit. But after passing through one or two sub-ordinate offices, he was appointed secretary to the Board of Trade, soon after Lord George Germaine became first lord in 1775, and held that office until the suppression of the board in 1782. In 1780 he was sent on a confidential and secret mission to the court of Madrid. This seemingly fortunate appointment proved the source of no small loss and vexation, in consequence of his necessary expenditure to the extent of 4500l. beyond the money which he received at starting, of which no portion ever was repaid. On this subject we have only his own ex parte, but uncontradicted, statement: there is every appearance that he was exceedingly ill used.

After the reduction of the Board of Trade he received a compensation allowance, and retired to husband his diminished means at Tunbridge Wells. He now devoted himself altogether to literature, which had hitherto been only his amusement; and tried his powers in the multifarious departments of opera, farce, comedy, tragedy, occasional, lyric, and sacred poetry, pamphlets, novels, essays, and even divinity: but he will hardly be remembered except as an essayist, and as the author of several successful comedies, of which only the West Indian, the Wheel of Fortune, and the Jew need be mentioned. The West Indian obtained great popularity on its first appearance, and is still a stock piece: it was in Major O'Flaherty, one of the chief characters, that the eminent comedian Mosely made his first favourable impression on the public. The Jew was an honourable attempt to combat popular prejudice against the Jewish nation. The Wheel of Fortune is identified with John Kemble, who made Penrudderk one of his very effective characters. Many other of has dramatic pieces, of which there are at least thirty-two, times which had little sterling merit added for a time to his represent, by keeping his name continually before the Much bow require notice.

As an e-sayist, he rode to fame on the shoulders of Bentley, from whose manuscripts he derived the learning of those series of patiers in the 'Observer,' on Greek poetry, which contain a rich collection of translated fragments of comic poets. The merits of the translations, however,

belong to Cumberland. There are also a number of valuable critical essays, chiefly on the drama. The entire work proceeded from Cumberland's pen, and affords honourable evidence of the author's fertility of imagination. knowledge, humour, and varied power of composition. His translation of the 'Clouds of Aristophanes' is elegant, but be has altogether missed the spirit of the original.

One of Cumberland's pamphlets that appeared without his name, entitled 'Curtius rescued from the Gulph, or the

Reply Courteous to the Rev. Dr. Parr, in answer to his learned pamphlet, entitled "A Sequel," &c., is no unfavourable specimen of the author's powers of humour and sarcasm, and his readiness at paying off a mass of learned quotations in coin of the same but a more current kind.

His memoirs, published in 1806, is a very amusing book, full of interesting anecdotes of the men of his time, which will give the reader a thorough insight into the vain and irritable character of the author. His reputation was unblemished in the discharge both of his public and private duties; and his society was much courted for his brilliant conversation. He is recorded to have had one weakne. quite at variance with the pride of character to which he lays claim, a habit of flattery which was succeeded by bitter sarcasm as soon as the objects of it had turned their backs. For such a practice it is a poor excuse to say that we suppose it to have originated not in malevolence, but in the straits to which a talker by profession may be continually put to maintain his reputation.

Mr. Cumberland died, after a few days' illness, May 7,

CUMBRIAN MOUNTAINS. These form a greater in the north-western part of England, occupying rather more than a third of Cumberland, perhaps one-fifth of Westmoreland, and a small part of North Lanca-hare. The road leading from Kendal to Carlisle through Shap. may be considered as its eastern boundary; but the Shep-Fells are united by high land to the Pennine Mountains, which extend farther east between Westmoreland and Yorkshire, and likewise north and south from their junction with the Cumbrian range. The highest part of that road is 1187 feet above the sea. From this line the mountains 1187 feet above the sea. From this line the mountains extend westwards, and terminate with Dent Hill, a few miles from Whitehaven. The most northern point of the mass is Fell Top, near Hesket-new-market in Cumberland. and the most southern the slate quarries near Ulverston in Lancashire. From north to south the group measures about 37 miles, from east to west about 35 miles. The whole system probably covers a surface little short of 700 square

This group consists properly of one immense mass of rock, furrowed by narrow and deep valleys, the direction of which is towards all the points of the compass. By the evalleys a large number of ridges is formed. That part which is connected with the Pennine range by the Snap rells may be considered as the line of its axis, which in its western direction passes through Helvellyn (3055 fee.), embraces Red Pike and Pillar (2893 feet), and terminates with Dent Hill (1110 feet). The high cape of St. Been Head (222 feet), which lies in the prolongation of this line. is separated from Dent Hill by low ground.

Several high peaks occur to the north of this line. extensive mass of rocks, lying to the east of Baseenthwaste Water, is overtopped by the three high summits of Sad deback (2787 feet), Skiddaw (3022 feet), and High Pike tear Hesket-new-market (2101 feet). To the south-west of Basenthwaite Water is Grasmere Fell (2756 feet). On the south of the axis, the highest summits are due south at Pillar. In this part are Scaw Fell (3092 feet), and 13. s Fell, near Eskdale (2914 feet). Rast of them, Compton 1 ct. (2577 feet) is more isolated. Black Comb (1919 feet). much further south, near Duddon mouth, on the west soils

of that restuary.

According to the recent observations of Professor Sed: wick, the greatest part of this cluster of mountains is for really stratified deposits of slaty texture. More than the northern half consists of green quartzose roofing slate, and the southern portion of grauwacke slate. The line segmenting both formations runs from the northern extremits Winandermere Lake to Shap Fells on the east, and nearly in a straight line. On the west it continues at some dis-tance from the northern extremity of Coniston Water, and then runs southward to Broughton on Duddon mouth. narrow band of limestone and calcareous slate separates the

s the last estron of the 'French pedia Britannica' this date is erroly area February 29, 1725,

CI TO IN 281 E U P

a locations (Real Camb samples of all thick side), and see from because thank Camb and West Water, and the case of colors part of Dilacotory and Possili. A broad of soil steelpales on the barth for meaning interaction of the south of the motion of the south of West and a limit steelpale of the south of West and a limit steel at Hashadaman rise, no occupy on an a Pennach.

The companions has well known for the pertuposage and your relationship of the companions in which known for the pertuposage and your relationship of the companions of the soil also perticulars, some style these peed of Diabellys, believed there is given you they be soil will allow the soil of the great yet of they licensy from the neutral relative their peed of inom. To the motion the control relative tests peed of inom. To the motion of the control relative tests peed of inom. To the motion of the control relative tests peed of inom. To the motion of the control relative tests peed of inom. To the motion of the control relative tests of the world of the result and fine yet motions from soil to make an Ramediale law was a manufacture of the fine of the control of the c



compound to a Polish convent the cryll troubles forming driven the auditores. Does by resulting. It is an attempt to scopility for resolute is derived from Keple 's fewer and in contrainty to recept the one of locarities; more termanically from the intermediate of the write being a female than from my particular tracit.

The principal posteriors of Marie United in astronomy was a semistryman of her own named Leavest, when she more of the father. The principal solution for father. The proper and deals can of the father was sufficient for the father of the father than Obstancing the solution of her father. The proper and deals can of the father was sufficient for the father of the father than Obstancing the father of 


A. s. perfor Terrory (Louissauge) The boundary model of the terrory first

CUPAR PIPE (or named in control attention from the arminest of the second many managers of the second many published agreement to be a control between the control attention from the armines of the arminest fit the great valley of purely in the control between the present the control between the present the present the great valley of problems as a regal burgle, in which respect to the result of the control between the present the pres

..**:**-\_ ------**-4**: <u>=</u> -: ... .e... • 1.1 ٠ مذ :- --مير<sub>د د</sub>ي. ۲4 م. 71.7- - 2.1 ر عد شد. مستوند خدر \_ वाल के व्यवस्था वर्षा 752.42 Titliage Tail India Straight - w-

1 78 78 700 1100 \_\_\_ ---\_\_\_ era i rein - The Thirty THE THE PARTY OF THE PARTY. There is a second sur-i decies at a 50 mil time. Le imin we are as a segre-The Figure 2 can be a seen as the seed that The Late of the Control of the Contr The State of the S The first of the control of the cont AND THE PROPERTY OF SECURITION AND THE PROPERTY OF THE PROPERT on Hola of Allondon are chambed in the The same of the last of the la The Court of the Phi Divided Community of the Community of the Court o The case of the state of the st e e di aperto de de The control of the part of the state of the Let Till the Till a see that we seem and the and the company of the production of the product manufacture and more of the contract of the co The second secon

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Comment of Marine The war to discould be the total of and the street of the state of AND THE RESIDENCE OF THE PARTY the action of the bit is small. Beday bled to a second of the beday by the beday of 
" f he assuration of love, through the eye, Hence he metaphorical expressions are the second series in and the like. Often n reference to the ill-assorted a man and affection, or the neglect of rear. **.:** · a.f which a mary passion is often the cause. e + 3m · · recenei: sometimes riding on a The state of the small terroits, to signify that the errager and the transmit over often with a butter-F. L. .. of W. to M. Lewis Posence. (PSYCHE.) Athees and the Phadrus and the state of t ---

\_ TIL me by which some blood a description is accordingly termed the art to which it is intended to apply the man water, or a warm the a deriver a remark a re n order to attract blood to the placed glass, a portion of the air of a lodding it for an instant over a immediately applied to the out war as ere Traine. The usual amount of preare a re- are managed, the blood flows to the art in memory intension if the vessels and elevation of - armen a way a rappe waved colour. If it be inander I have Tit ... on the empone glass is speedily mur et al astriment ealert a searmeator, containne , rimer i ances simetimes as many as twenty, is arriage and made to act so as to indict a corresponding nation of making in the sain and subjacent vesses. he anners renevate may be made greater or less at the with a time whetherer. It is not in general advisable has he service so that he wary great, as more blood flows, in: me resers will minimite to need longer, if only pur-The cupping than I simulately at through. The cupping-The Minister is before is to be immediately replaced. and I wanted arrived and the air has not been too much manners in which too great pressure is made by the edges I be pass a mesterante manage if blood will flow may Vien means mill or it the mood begin to coagulate, the man s to be marginin removed, the wounded part thinks while I will a sponge with warm water, and The manual men emptier and washed, is to be again are

"e-s. may be more future, a nostructed. Where it ripping miv is intended, the glasses may be permitted to temain in the skin for a few moments, and True it an times with a true variation of their projection Lill in order to prevent the skin from being hurt by their

were I is sufficient manney if aboud should not have been and we he are apparented. Two or more glasses in o "Lest to inferent spots it the same time, so that the

anamility if no of testret, it necessary to obtain the object

Capping we which bided is abstracted is used either where peneral necessary is unnecessary, or as supplementary to that the removal of congestions or local affections. It s man gives to the use of needless over which, however when he strinting if the part mights of the application of the graces it has in general many advantages. The blood s more movely instructed a point of great importance in minimizers lineases, the plantity removed can be more starts secretarion; there is less risk of subsequent blee in the months and the part of the body subjected the form in exposed to the air for a much shorter time. Cupping a rise preferable in cases where the applica-A ... a it seedes a tradwel by severe crysipelas of the sk h.

It in mammanous and engestions about the head, appling in the back if the neck and between the shoulders s a mes user a mode of abstracting blood; and this oper .. ton a use purneylarly applicable for the removal of blood it in he partetes of the class and abdomen in diseases of he inferent viscera. Its use however is only admissable. when it can be employed without exciting pain, and irranexs may be warded off by the timely application of cup-Where the abstraction of blood is inexpedient or markety, dry-cupping is often resorted to with benefit AND IS 2 .2 .. L'ENCE O'LL N. O ELL ETTES. LE LIVERENCE STRIES OF Sever, especially where the lungs are

complicated in the discussion entire, if the first adaptions of the property and and the beautiful with the West Indian will assess the compact of the first of the second to be seen at the beautiful to the West Indian will be a compact of the first of the second to be seen at the spacetime of the West Indian will be a first of the second to the secon

complicated in the discount ention, if therefore depiction amped to the more grown, the company on the last of the self-amounts to be provided the foliated Entranger of Madineses proved in the sale attended price of the sale attended to prove the more point of the sale attended to the first or more point of the sale attended to the back it there is now in the sale attended to the back it there is now in the sale attended to the back of the sale attended by directories. The pains of the back which it there is any arrant application of polescope the provided to the present on the second the attended to the attended to the present of the attended to the part of the the sale of the attended to the sale of the part of the the sale of the attended to the sale of the the sale of the attended to the sale of the attended to the sale of the attended to the sale of the

1800, and family given up to Halland at the general pure

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It is then raised in April and May, according as the rains begin to fall, into ridges, nine or ten inches high, and eighteen or twenty broad, with intervening trenches, nine or ten inches broad. The cuttings or sets, viz. small portions of the fresh root, are planted on the tops of the ridges, at about eighteen inches or two feet asunder. One acre December and January about two thousand pounds weight of the fresh root.'

CURDISTAN. [KURDISTAN.]

CURPEW. The custom of covering up their fires about sun-set in summer, and about eight or nine at night in winter, at the ringing of a bell called the *courre feu*, or curfew bell, is supposed to have been introduced by William I., and to have been imposed upon the English as a badge of servitude. Henry, in his *History of Britain*, 4to. edit., vol. iii., p. 567, however, says this opinion does not seem well founded, for there is sufficient evidence that the same custom prevailed in France, Spain, Italy, Scotland, and probably in all the other countries of Europe, in this peried; and was intended as a precaution against fires, which were then very frequent and very destructive, when so many houses were built of wood. Henry I. restored the use of lamps and candles at court in the night after the ringing of the curfew bell, which had been prohibited by his predecessors. (Will. Malmesb., fol. 68.)
Thomson, in his Seasons, countenances the opinion of

the tyranny of this custom:-

The shivering wretches, at the curfew sound, Dejected sank into their succide beds, And through the mournful gloom of antient times Mused sail, or areant or setter.

But we find the curfew mentioned to a very late period as a common and approved regulation. Among the charges directed for the wardmote inquests in London, in the mayoralty of Sir Henry Colet, a.p. 1495, it is said, 'Also majoranty of Sir Henry Colet, A.D. 1425, it is said, 'Also yf there be anye paryshe cierke that ryngeth curfewe after the curfewe be ronge at Bowe Chyrche, or St. Bryde's Church, or St. Gyles-without-Cripelgate, all suche to be presented.' (Knight's Life of Pean Colet, p. 6.) The same charge remained in the wardmote inquest, as printed in 1849. Mutching in his Hutter of Departables, vol. ii in 1649. Hutchins, in his History of Dorsetshire, vol. ii., p. 267, speaking of Marouder church, in that county, mentions land given 'to find a man to ring the morning and curfew bell throughout the year.' In the same volume, p. 422, under Ibberton, is mentioned an acre given for ringing the eight o'clock bell, and 4/. for ringing the morning bell. Bishop Hall, in his Virgidemiarum, printed in 1599 (b. iii. sat. 4), speaks of the gift of a new rope to ring the curfew bell as of occasional occurrence in his time

\* Whoever gives a paire of velvet shoes
To the Holy Read, as liberally allowes
But a new rope to ring the curiew bell,
But he desires that his great deed may dwell,
Or graven in the chancel-window glasse,
Or in the lasting tombe of plated brass.

The curfew bell, strictly as such, had probably fallen into disuse previous to the time of Shakspeare, who in Romso und Juliet applies the term to the morning bell.

The second cock hath crow'd, The curfes belt has rung, 'iss three o'clock.'

In the Antiquarian Rejectory, old edit., vol. i. p. 89, is an ongraving of an iron implement which is called a curfew, or cover tire, formerly belonging to Gostling, the historian of Canterbury, and presumed to be of very antient if not of Norman origin, but which in reality is no more than an er tempore oven, lately if not still used in many parts of Kngland for baking small viands: the hearth is first heated, the viand placed upon it, and then covered with this implement, the embers being raked round and above it. Kither Gostling's, or a cover fire like it, is still shown among the curtosities of the late Lord Orford's villa at Mirawhorry Hill.

Milnot, in his History of H inchester, vol. i. p. 189, says the outlow was first enforced in Winchester, and thence extended to other places: but there is no authority whatever for this surmise, beyond the circumstance that William the Computer made Winchester one of the chief places of his

( UHIA. (Comitta.) CHIMINGHIMM HAFF, a kind of bay on the north-eastern the the Bette. From Labau, in the south, to its opening

into the Baltic at Memel, it is about 60 miles in length: i. its greatest breadth, between Oranzkukren and Juwenet. nearly 28 miles: it contains altogether 588 square miles Its confluence with the Baltic is formed by what is come in the 'Memel Deeps,' which are from 800 to 1200 feet and width. It cannot properly be called a part of the sea, and much as its waters are fresh, like those of the other Haffthis quarter. It is separated from the Baltic by a very row neck of land, called the 'Curische Nehrung,' formed a series of low sand banks, almost destitute of vegetar. about one to two miles in breadth—except where they tain to a point as they approach Memel—and about 70 mile. ... length. On this neck of land there are a few villages. Th. bed of the Haff is unequal and variable, and the navigatem is therefore very precarious; hence the only description vessels used here is a peculiar kind of large flat boats, at even these are unable to land along many parts of the coast In stormy weather the navigation is very dangerous. The Dange, the Minge, and the Memel, discharge their water-

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curley. [Scolopacides.]

CURLEW. [Scolopacides.]

CURNOUL, a principality formerly governed by an independent chief, and now forming one of the subdivisions of the Relarchaut and districts.

Previous to its ressit. of the Balaghaut ceded districts. Previous to its passing into possession of the English, the country had been suitdivided into a great number of petty jaghires, and the government of the principality was so badly administered, that a great part of the lands were allowed to revert to a state of nature, and were overgrown with rank weeds and jungle. From this cause the revenue, which had amount a to twenty lacs of rupees (200,000*l*.), was reduced to enhalf that sum. The family of the present nabob of Curn has held possession of the country by a tenure amount.... almost to independence since 1651, when Curnoul v... conferred as a jaghire on Khizzer Khan, by Aurengares, the governor of the Deccan. On the death of the nation, Azif Khan, in 1815, the chief authority was usurped in Muzuffer Khan, his youngest son; but the lawful hear. Munawer Khan, speedily obtained his right through in intervention of the governor of Madras, who sent a detament of troops to the capital for that purpose. [Bile-

CURNOUL, the capital, is a populous town, on the sau: side of the Toombuddra, in 15° 44′ north lat. and 7° 2′ east long. It is surrounded on all sides by the river-Toombuddra and Henday, which are there from 700 to 800 yards wide. Some strong works have been erected on the western side of the town; but in 1815 the place held against the assaults of the English, only one day are which it was surrendered at discretion. The buildings the town are partly of stone and partly of mud. Traveling distance from Madras, 279 miles, and from Hydrabad 127

miles.

(Rennell's Memoir of a Map of Hindustan; Report of

Committee of the House of Commons, 1832.)

CURRANT, a well-known hardy fruit produced by two species of the genus Ribes. The one R. rubrum, is remarkable for the mixture of sweet and acid in its fruit, and for the beauty of its semitransparent red or yellow berras. Of this the finest varieties are Wilmot's red and the who Dutch, and the sweetest Knight's sweet red and the conmon white. In the fruit of R. nigrum, the black currer .. a powerful and agreeable aromatic principle takes the plant of acidity; of this species the best variety is the Black

Naples.

The currants of the grocers' shops are the dried berries of a small kind of grape, chiefly cultivated in the Mora and the Ionian Islands, Corfu, Zante, &c.

CURRENCY. It is the object of this article briefly to tate some general facts relating to our currency, reserving the contract of this work an examination of for a more advanced stage of this work an examination it the conflicting theories that prevail on the subject of con-

monetary system. I. Metallic Currency.—The metallic circulation of:
United Kingdom consists of gold, silver, and copper. T. actual amount of gold and silver coin in circulation at given time within the country cannot be estimated by the amount of the metal coined; for gold and silver motions are exported whenever a profit can be made by their exported. tation. The amount of moneys coined at the Mint in the year 1935 (the last return is of that year) was as follows gold, 1,109,718£; silvar, 146,665£; copper, 2688£ It has

been asserted that the average amount of our gold currency, exclusive of the amount retained by the Bank of England is 30 millions; but the data for such an estimate are neces-sarily shifting and uncertain. The circulation of silver coin in this country is of very inconsiderable amount. This is the main difference between the metallic currency of the United Kingdom and that of the rest of the world. The total existing quantity of gold, when compared with the existing quantity of silver, has been stated to be as about 1 to 50, and the relative value of gold to silver is as a to about 15; consequently the value of the general silver currency of the world as compared with the gold currency, is somewhat more than as 3 to 1. In this country, however, gold is the only legal tender for sums above forty shillings, and con-sequently the metallic currency is essentially gold, the silver coins being, like the copper, only a sort of tokens auxiliary to the gold. By the present Mint regulations, a seignorage, or duty, is charged on the silver coinage, amounting to 64 per cent: upon the gold coinage no seignorage whatever is charged. A pound troy of the metal of which our silver coin is made consists of 11 oz. 2 dwts. of pure silver and 18 dwts. alloy; it is coined into 66 shillings. Our gold coins contain 11 parts fine gold and 1 part alloy; a pound troy of which mixture (called standard gold) is coined into 46 sovereigns and 14s. 6d. The bullion value of the silver co'nage being therefore more than 6 per cent less than the gold coinage, that portion of our metallic currency remains perfectly subsidiary to the gold currency; there is no necessity for determining the relative values of the two species of currency by an agio; the silver of the world necessarily goes to other countries where it forms the basis of the currency, either exclusively or in connexion with gold. Our metallic system of currency was established by law in 1816, although in practice the same principle had long prevailed, in consequence of the relative values of gold and silver in our Mint regulations. The English system gets rid of the complexity of a double standard, but may be purchased at too high a price. Our standard being that of the metal which is 50 times less in quantity and more than 3 times less in total value than the standard adopted by other nations, the fluctuations in the value of our standard are necessarily more frequent and more extensive than in the standard of silver, or in a standard of gold and silver exchangeably. Gold possessing large value in small bulk is in greater demand than silver when money is required for the purposes of governments. Mr. Rothschild told the Bank Charter Committee in 1832, that 'When the Emperor of Russia made war in Poland lately, gold which went from Hamburgh to Petersburgh and Warsaw was paying from three to four and five per cent profit.' Such operations of course suddenly affect the price of gold; and their results in altering the exchangeable value of comnu clitics, and in contracting the entire currency, are most severely felt where gold is the standard.

II. Paper Currency.—This may be divided into—1. Bank Currency: 2. Private Currency. The paper currency proceeding from banks of issue consists of the notes of the Bank of England, and the notes of country banks, whether private or joint-stock banks. The circulation of the Bank of England in October, 1836, was 17,936,000*l*.; that of the private banks in September, 1836, was 7,764,824*l*.; and that of the joint-stock banks at the same date was 3,969,121*l*.; making a total bank currency of 29,669,9457. This bank currency of about 30 millions is based upon our metallic currency, and is convertible into that upon demand. Bank of England notes are legal tender, by the Bank Charter of 1834, by country banks; but at the Bank of England and its branches, Bank of England notes are payable in gold. The Bank of England therefore requires a sufficient supply of bullion to meet the possible demand for specie. That demand in recent times has arisen not from any want of confidence in the solvency of the Bank of England at home, but from the state of the foreign exchanges, which causes specie to be sent abroad. It is held that the only sound principle of managing a currency consisting partly of coined money and partly of paper money, is to have some authority presiding over the issues of paper which will be adequate to preserve the currency in the same state with reference to other countries as if it were purely metallic; and that the Bank of England, holding this authority, ought invariably to allow the currency to expand and contract under the action of the foreign exchanges. The monetary crisis of

1836-7 has been asserted to have been produced by a neglect of this principle, the drain upon the bullion of the Bank not having been followed by a proportionate reduction in the circulation of its notes. The examination of this and other questions affecting our currency may be better post-poned to future articles. [Exchanges; Money.] 2. Private Paper Currency consists of bills of exchange and cheques upon bankers. The total amount of this credit currency in the United Kingdom is enormous. It is peculiarly liable to abuse; but the vast commercial business of the country could not be carried on without bills of exchange, which, passing from hand to hand, discounted and re-discounted, perform the functions of money. The deposits of individuals with bankers are considered by some economists to perform the same function; in both cases credit becomes a substitute for currency. The dootrine that bank deposits perform the functions of money, has been lately brought forward by Colonel Torrens, but it was first promulgated by Mr. Pennington in 1829 We subjoin the statement of this doctrine in the words of Colonel Torrens, leaving for the present any examination of the probable extent of the operation of the principle:—

'Let us assume that the merchants and dealers within the metropolitan district require for the conducting of their business circulating money to the amount of 10,000,000l., and that they actually hold this amount in coin and Bank of England paper. This being the previous state of things, let us assume again, that these merchants and dealers open accounts with the London bankers, and place with them, as deposits, the 10,000,000%, in coin and notes, which they before kept in their own desks. Now this change in the manner of keeping the cash required to meet the current demands of the market, would not leave the merchant and dealer with a less command of money, with a less power of making payments and of making purchases, than they be-fore possessed. By drawing checks upon their bankers to the amount of 10,000,000*l.*, they can come into the market just as effectually as they could before have done by bringing out coin and notes to that amount from their own cash boxes. If the whole of the 10,000,000l. in coin and notes deposited with the bankers were locked up in their coffers until drawn out in payment of the checks of the depositors, this locking up of coin and notes would have no conceivable effect in depriving the depositors of the power of drawing checks, and of making payments or purchases to the amount of the 10,000,000 L It is evident, therefore, that transferring coin and bank paper from the desks of merchants and others and placing them for safe custody as bank deposits, could have no effect whatever, either in contracting or in expanding the currency, even if the whole of the coin and bank paper so transferred were locked up in the coffers of the bank until withdrawn in payment of the checks of the depositors. But the whole of the coin and notes deposited with the banks would not be locked up until required in payment of the checks drawn by the depositors. Bankers make their profit by lending, upon available securities, the greater part of the sums deposited with them by their cus-When our merchants and dealers deposited 10,000,000% with the banks, the bankers would retain a part of the sum—say 2,000,000*l*. as a reserve, or rest, for the purpose of making occasional payments over their counters, and would employ the other 8,000,000*l* in the purchase of stock, or of exchequer bills, or in the discount of bills of exchange. Now, it is self-evident that this would occasion an extension of the general medium of exchange. The morchants and others who had deposits with the bankers to the amount of 10,000,000% would be just as able as they were before to come into the market and make payments and purchases to the amount of 10,000,000%; while the persons who sold the stock and the exchequer bills, or who obtained the discounts, would be able to come into the market, and effect payments, and make purchases, to the amount of 8,000,000. Thus, in this case, which has been taken for illustration, the operation of the private banks in receiving deposits, and in investing them in available securities, would have the effect of increasing the circulating medium by 8,000,000l.' bourne, 1837.) (Letter to Lord Mel-

CURRENT. Current water is opposed to stagnant water, and commonly used to express the motion of water in rivers, produced by the continuous but varying inclination of the bed of the streams. The word current is likewise applied to the rapid motion of the air. Further, it is

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used to designate the great masses of moving water, which, in modern times, have been found to exist in the ocean, and

which constitute the currents of the sea.

CURRENTS AT SEA are large masses of water in the ocean or in closed seas, which are in continual motion in a certain direction; and so far they may be compared with the currents of rivers. But they occupy a much greater extent of surface, running sometimes two or three thousand miles, with an average breadth of two or three hundred miles. Though their existence was doubtless known to some of the early navigators, it is only in modern times that they have attracted general attention, and that a few facts respecting them have been collected, most of which are found in Major Rennell's very valuable treatise on the currents of the Atlantic Ocean.

Some of these currents traverse the ocean near the equatorial line, and generally run east or west, if they are not deflected from their course by the opposing land. Others, which seem to have their origin near the poles, generally run in a southern direction as far as the tropics, and sometimes farther. The currents at sea run in some parts with an increased, and in others with a decreased, rapidity; and, as might be naturally inferred, the water of these currents is either of a lower or higher temperature than the adjacent sea, according to their line of approach from a warmer or a cooler climate. This difference in some places amounts to 10° Fahrenheit; and the skilful mariner may often learn from his thermometer, the probable error of his latitude by

Humboldt, ascribing the formation of these currents to the rotation of the earth, calls them currents of rotation. But he does not distinguish between the proper currents and the drift-water, which latter produces a slight western current on the surface of the ocean between the tropics. This latter motion indeed is probably caused by the united effects of the rotation and the trade-winds on the wide expanded surface of the ocean. The small degree of velocity in this current, however, shows that the stronger currents near the equator cannot arise from the same cause. nell, the first writer who carefully distinguished the currents from the drift-water, thinks that the equatorial currents are caused by the accumulation of great masses of driftwater near the equator by the north-easterly and southeasterly trade-winds. But this opinion will be found in-admissible when it is considered that such accumulation could only produce a superficial current, and that many instances adduced by himself evidently show that these currents are not superficial, but probably reach the bottom

of the sea, and certainly go to a very great depth.

The currents which flow from the higher latitudes towards the equator are supposed to have their origin in the melting of the masses of icc which encompass the poles. But if this supposition were true, these currents would cease during the winter, unless we also suppose that the melting of the ice continues to take place even during that season at a great depth beneath the surface of the sea, an assumption which in the present state of our knowledge on this subject can hardly be admitted.

If however both these opinions respecting the origin of the currents were allowed to be true, we should still have to account for the origin of other currents, in the formation of which neither the drift-water between the tropics nor the melting of snow near the poles can possibly have any share. Of such a description is the current which seems to be formed between the southern coast of Ireland and Cape Finisterre in Spain [ATLANTIC OCEAN], and runs along the western coast of southern Europe and northern Africa to the Bight of Benin.

CURRIE, JAMES, M.D., was born 31st may, 1756, at Kirkpatrick-Fleming, in Dumfries-shire, of which parish his father was clergyman. Being originally intended for a mercantile life, as soon as he had received the rudiments of a liberal education he went out to Virginia; but upon the breaking out of the American war in 1776 he returned home, and soon after commenced the study of medicine at the University of Edinburgh. Having completed the usual course, he took his degree of M.D. at Glasgow in 1780, and immediately proceeded to London. His intention now was to go out to Jamaica, where there appeared to be a favourable opening for the exercise of his profession; but a sudden attack of illness prevented him from sailing after he had taken his pa-sage. On his recovery he settled and began to practice in Liverpool, in been charged for some time, and, in consequent

1781. Here he soon met with great success in his profession. His first publication was a biographical memoir of a deceased friend, which was printed in the Transactions sion. of the Manchester Philosophical and Literary Society for 1785. In 1790 a paper on tetanus and convulsive disorder-, which he communicated to the 3rd volume of the 'Memoir's of the London Medical Society, considerably extended his professional reputation. In 1792 he was elected a Fellow of the Royal Society. In 1793 he published a pamphlet, under the title of 'A Letter, Commercial and Political, addressed to the Right Hon. Wm. Pitt, by Jasper Wilson, Esq., which attracted a good deal of attention: it was an expression of the impelier of the required for the state of the constraint of the impelier of the required for the state of the state exposure of the impolicy of the war with France. In 1797 appeared the work on which his professional reputation principally rests, entitled 'Medical Reports on the Effects of Water, cold and warm, as a remedy in Febrile Diseases. The method of treatment here recommended by Dr. Currie, affusion in cold water in cases of fever, though a remedy not to be trusted except to the most skilful hands, has since been applied in suitable circumstances with extraordinary success. A second volume of the Reports appeared dinary success. A second volume of the Reports appeared in 1804, and the author was preparing a new edition of the whole work when he died. The name of Dr. Currie is best known to general readers by his edition of the works of Robert Burns, including both his Poems and Letters, which he published for the benefit of the poet's family, in 4 vols., 8vo., in 1800. It was introduced by a criticism on the writings of Burns and 'Some Observators on the character, and condition of the Scottich Poessants' both character and condition of the Scottish Peasantry,' both of which papers were drawn up with much elegance and ability. This edition has formed the basis of every succeeding collection of the poet's works. In 1804 Dr. Currefelt his health rapidly giving way; and leaving Liverpoot, he spent some time in Bath and Clifton. In March, 1800, he considered himself to be so far restored, that he took a house and commenced practising in Bath; but his illussoon returned, and he died at Sidmouth on the 31st of

August in the same year. (Chalmers's Dictionary, from a Memoir in the Magazines drawn up by Dr. Aiken.)

CURRU'CA. [BLACK-CAP; SYLVIADÆ.]

CURSO'RIUS, COURSER (Ornithology), a genus of birds of the order Cursores, Temm. established by Dr. atham.

Generic character.—Bill as long as head; mandibles arched, and compressed towards their extremities; base depressed; tip sharp and entire; nostrils basal, oval, with an oblong lateral opening. First quill longest. Legs long three front toes separated throughout; middle toe much the longest, with a servated claw. Type, Cursorius Isale.

Geographical distribution.—Africa seems to be the country principally inhabited by these birds, and there they are to be found generally at a distance from the sea, and in the

arid inland tracts, where they run with great swiftness.

Example, Cursorius Temminckii, Black-bellied Courser.

Sw. The following is Mr. Swainson's specific character and description.

'Cream-coloured brown; top of the head and breast ferruginous, nuchal collar double; the lower, with the quals and middle of the body, black; the upper and the sides of the body white. Total length from the bill to the tail circle inches; bill one inch from the gape, and half from the coll of the nostries. Legs three inches from the naked thigh to the ties of the middle test the above of which in the collection. the tip of the middle toe, the claw of which is serrated internally. Tail round; the middle feathers not spotted; the two next with a black dot near the tip, which, in the next pair, is further broken into two white dots; the outer particle of the content of th white.' (Zool. Illust. pl. 106. first series). Locality.-(Abyssinia).

The Type, Cursorius Isabe.linus, Meyer, Temminck, Cursorius Europæus, Ind. Orn., Le Courvile, Buff. Cream-coloured Plover, Lath. Gen. Syn. Creum-coloured Courses. Penn. Br. Zool., cream-coloured Swift-foot, Selby, has been seen in France and England, but only as an occasional visiter. Thus we find (Mont. Orn. Dict. last edit.) that one was killed in France, where it was seen to run with greet swiftness; another was shot near St. Alban's in East Kent, the seat of William Hammond, Esq., on the 10th of Nevember, 1785, and he presented the prize to Dr. Latham. Mr. Hammond first met with it on some light land; a:... so little fearful was it, that having no gun with him at that time, he sent for one, which did not readily go off. having

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nis aim the report frightened the bird away, but after making a turn or two, it again settled within one hundred yards of him, when he was prepared with a second shot, which killed it. He observed it to run with incredible swiftness, considering its size, and at intervals to pick something from the ground: it was so bold as to render it difficult to make it rise in order to take a more secure aim on the wing. The note was unlike that of any known bird. Colonel Montagu says that one was shot in North Wales in the year 1793, and preserved in the collection of the late Professor Sibthorp at Oxford. Mr. Atkinson, author of 'The Compendium of Ornithology,' was also in possession of a specimen shot at Netherby, in April, 1816.

Another of these birds was taken in Austria; and the young bird in the Darmstadt Museum, alluded to by M.

Another of these birds was taken in Austria; and the young bird in the Darmstadt Museum, alluded to by M. Temminck, was probably killed in Europe. Mr. Fox (Zool. Journal, vol. iii., p. 492) records the death of one shet on the 15th October, 1827, under Timberwood Hill, in Charnwood Forest, Leicestershire, by a tenant of Mr. T. Gisborne's. He described it as coming flying over his head, uttering a cry with which he was unacquainted, and it settled near him. Some idea of the enormous prices which were at one time given by collectors for rare birds killed in Britain, may be formed from the sum which Dr. Latham's specimen produced: Mr. Fox says it was purchased for eighty-three guness.



[Carsorius Temminekii.]

C. Bonaparte, Prince of Musignano (Specchio comparativo) places the form in the family Pressirostres of the order Grallæ, between Otis and Œdicnemus.

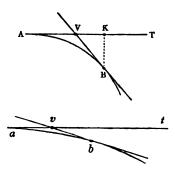
CURTATE (shortened), a term sometimes applied in geometry or astronomy to a line projected orthographically upon a plane. [Projection ]

upon a plane. [Projection.]

CURTEIN, or CURTANA, the name given to the first or pointless sword, carried before the kings of England at their coronation; also called the sword of King Edward the Confessor. It is mentioned by both these names in Matthew Paris, under the year 1236, when detailing the marriage ceremonial of Henry III. In antient times it was the privilege of the earls of Chester to bear this sword before the king, which, in an emblematical form, is considered as the sword of mercy.

CURVATURE, a mathematical term expressive of the comparative degree of bending which takes place near the different points of a curve. If we imagine a point to describe a curve, to be continually changing the direction of its motion, it may change this direction either more or less rapidly, that is, describe a line which is more or less curved. As in the article Contact, we shall first take a rough method of illustration grounded on the notions we derive from experience, and show how the accuracy of mathematics is introduced into the definition. We must suppose the reader to have gained the ideas which are introduced in the articles Direction and Velocity.

Two points, A and a, are describing two curves, the



directions of motion at A and a being AT and at. That the first curve is more curved than the second, we may easily see; and if we wished to give some notion of the comparative degree of curvature, we might proceed as follows. Measure off equal arcs AB and ab (remember this equality throughout), say of one inch each; ascertain the direction BV and bv, from which A and a are proceeding when they arrive at B and b, and measure the angles BVT and bvt. If we find the first to be twice as great as the second, then the phenomenon by which we recognize curvature (change of direction) is twice as great in the first as in the second. Hence we say that the curvature of the first is twice as great as that of the second.

But here arises a difficulty of the same kind as that explained in Velocity. The preceding ratio of two to one is that of the whole effects of curvature from A to B, and from a to b. If the change of direction were uniform, that is, if every tenth (or other) part of AB gave a tenth (or other) part of the change of direction, it would then be indifferent whether we chose an inch for AB and ab, or any other length. But if the curvature vary unequally, the comparison of the united effects of all the curvatures from A to B, and from a to b, does not give a proper ratio of the comparative curvatures at A and a. The only curve in which this is the case is the circle, which is the curve of uniform curvature, just as the straight line is the line of uniform direction. But we immediately perceive that if AB and ab had each been the hundredth part of an inch instead of an inch, this objection would have held in a less degree; if the thousandth part of an inch, still less, and so on. Hence, as in Velocity, it is not by the proportion of the angles BVT and bvt that we get an exact and unalterable notion of what is taking place at A and a, but by the limit to which that proportion approaches, as B and b move back towards A and a, and the angles in question diminish without limit. This is the accurate terminal notion on which the mathematical theory of curvature is founded.

If the two curves had been circles (or curves of uniform curvature) it is found that the limit of the proportion of these angles (or the proportion of the angles themselves, which for circles is the same as its limit) is inversely as the radii of the circles; that is, doubling the radius of a circle halves its curvature, and so on. This suggests an absolute measure of the curvature at A. Let the second curve be a circle, so taken that BVT and bvt shall have a limiting proportion of 1 to 1, or shall continually approximate to equality (Equality, Approach to). The circle ab his then at a the same curvature as the curve at A, and its radius (called the radius of curvature) being determine 1, the degree of curvature at A is known, as compared with that of any point of any other curve whose radius of curvature is known. This radius of curvature is thus determined. Draw the perpendicular BK and the chord AB. Then if the chord AB be always represented by the fraction c of an inch, and BK by k of an inch, the limit towards which  $c \times c \stackrel{\cdot}{\sim} k$  approaches, as B is made to approach towards A, is the diameter of the circle of the curvature, or double of its radius. Or if through A and B a circle be always conceived to pass, which touches both AV and VB at A and B, the limiting position of that circle is the circle of curvature.

If the curve be referred to rectangular coordinates, and if x and y be those of the point A,  $y = \phi x$  the equation of the curve, and  $\phi'$  and  $\phi''$  the first and second differential coefficients of  $\phi x$ , then

Radius of curvature at A is 
$$\frac{(1+\phi'^3)^{\frac{3}{4}}}{\phi''}$$

If  $\phi$  be the angle made by the tangent with the axis of x, and s the arc from any given point to A.

Rad. of Curv. at A is  $\frac{-1}{d\phi}$ 

On this subject see Involute, Evolute.

When the curve is not a plane curve, imagine it orthographically projected upon a plane. Its change of direction is then partly parallel to the plane, partly perpendicular to it, and the curve is said to have double curvature. But as this subject, together with that of the curvature of surfaces is not of an elementary character, we shall not proceed further here, but refer to SURFACES, and to all works which

treat largely of the Differential Calculus.

The circle of curvature is also the circle of contact, or the nearest circle which can be drawn to the curve, just as the straight line of direction is also the line of contact, or the tangent. An infinite number of circles can be made to present the appearance of touching the curve at A, [Contact] of all of which the circle of curvature comes the closest. Moreover, it always cuts the curve which it also touches (in the mathematical sense), except only at particular points. That is to say, the circle of curvature has in general a contact of the second order with its curve, in which case the circle always passes through the curve. But if at any particular point the contact should be of a higher and odd order, the circle of curvature does not pass through

CURVE, and CURVES, THEORY OF. A curve is a line which has curvature. Though the second of these terms be derived from the first, yet it is the notion explained in the preceding article which is preliminary to the explanation of the general term curve. Let a point move with a perfectly

gradual change of direction, and it describes a curve.

Curves are said to be of the same species, in which the motion of the describing point is regulated by the same mathematical law. Thus the general law of the circle is, that all its points are equidistant from a given point. This law is the characteristic of the species; one circle is distinguished from another by the length of the constant distance supposed in the law of formation.

And in like manner as 0, or nothing, is classed under the general name of number or quantity, so the straight line itself (or the line without curvature) is, in algebra, spoken of under the general term curve. Or, in the last-mentioned science, the word means any line which is described by a point moving under one and the same law through every

part of space which is consistent with the law.

The connexion of algebra with the doctrine of curves depends upon the method of coordinates (Abscissa, Ordi-NATE, COORDINATES), by means of which every algebraical function whatsoever is connected with the properties of a curve. This is the point of greatest utility in the theory, namely, the power which it gives of representing to the eye all the varieties of magnitude which an algebraical function undergoes, while one of its letters passes through every state of numerical magnitude.

The number of curves which have received distinct names, out of the infinite number which may be drawn, is very small; we subjoin the names of those which are of most usual occurrence, referring to the several articles for

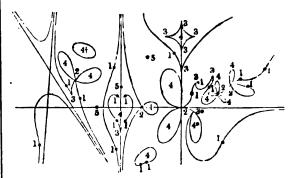
further information.

 Circle
 Ellipse TANGENTS, &c., CURVES OF. 3. Hyperbola 4. Parabola 19. Exponential or Logarithmic Curve 20. Spiral of Archimedes Semi-cubical Parabola 21. Logarithmic Spiral or Equipmental Spiral 6. Cissoid of Diocles 7. Conchoid of Nicomedes8. Trisectrix 22. Reciprocal Spiral 23. Lituus 9. Lemniscata 24. Quadratrix of Dinostra-10. Cycloid 11. Companion of the Cycloid tus — of Tchirnhausen 12. Harmonic Curve 26. Catenary 27. Tractory 13. Trochoid 14. Epicycloid and Cardioide 28. Syntractory 29. Tractrix 15. Hypocycloid

16. Epitrochoid 30. Ovals of Cassini 17. Hypotrochoid 31. Watts's Parallel motion Curve of sines, cosines, curve

tangents, &c. [SINES.

The general characteristics of curves are extremely varied, and very few of them have received names. We subjoin a diagram, which will show all the varieties of figure most commonly considered in works on the Differential Calculus, premising however that we do not actually know any curve which contains them all. It would appear as if our figure contained several curves, but it must be remembered that in the algebraical sense many curves exist with branches completely unconnected, but all described under one law.



The several parts of the preceding are of continual orcurrence; the following are the names and references:

(1). Points of inflexion or contrary flexure (FLEXURE, CONTRARY).

(2). MULTIPLE POINTS, double, triple, &c. according to

the number of times the curve passes through them.

(3). Cusps: the terms are hardly sufficiently well settled to enable us to say whether the 3° is to be considered a

double point, a triple point, or not a multiple point at all.

(4). It is customary to call any part of the curve which encloses space an owal, though, according to the common meaning of the term, there is no oval in our diagram except 4†. Of 4\* we hardly know whether it would be called an oval or not.

(5). Conjugate points [Conjugate]; when of a general law of description which gives ovals, a particular case is taken in which an oval disappears, it generally leaves behind it, so to speak, a single point which is included under the equation to the curve, but has no contiguous points. We should propose to call these points eranes out ovals, and shall give some instances in the article Ovai. [Involute, Evolute, Caustic, Contact, Tangent, Am.

ANEA, ASYMPTOTE, MAXIMA and MINIMA, &c.]
CU'RZOLA, or CORZOLA (formerly Coreyra, Strabe, p. 315), an island in the Adriatic, comprised in the circle of Ragusa and in the Austrian kingdom of Dalmatia. The channel of Curzola separates it from the peninsula of Sabioncello. Including the adjacent islets of Agosta and Torcola, the area is about 231 square miles. Curzola containcola, the area is about 231 square miles. Curxola contains one town, a market-town, and about 6500 inhabitants. The surface is chiefly occupied by woods and forests, which furnish good ship-timber; the vineyards annually yield about 80,000 hogsheads of wine, and the fisheries on the const are productive; but little grain is raised, and the fresh water is scarcely usable. Curzola, the chief town, is situated on a neck of land upon the channel (here called canal), : . 42° 57′ N. lat. and 16° 50′ E. long.; it is surrounded by walls, and has a cathedral, two monasteries, about such houses, and 1800 inhabitants. It is the seat of a bishopric, builds vessels, and traffics with the produce of the island. CUSCUTA CEM, a small natural order of monopeta

lous exogens, cut off from Convolvulaces because of the imbricate corolla, which does not fall off after flowers.... their seeds with a spiral acotyledonous embryo, and then leafless parasitical habit. Cuscuta, or Dodder, is a genet with in most temperate climates, the species five themselves on the branches of woody or other plants, twiing round them, striking a number of minute suckers down upon their bark, and thus attracting from the system of the plants and from the air, the sustenance necessary to their own support. Hence they are true parasites although the do not actually, like museltoe, plunge their roots into the wood and incorporate themselves with the tissue.

Common Dodder, Cuscuta europæa, is a white or redd.-ii-

looking annual, which flings its thread-shaped arms like a cluster of living threads round the branches of heath, fur ze-



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and a propose of the hard should be unfeated with these rates the trop of other has been attacked must be replaced at stops of early in a greater. Thus there is given to the sold of Fredder which is yo have removaled in the soil, to endoge attacked as when they may permit without changing the source, when they may permit without changing the source that the soil make made several with plants and becomes the body them. As to the soils of legions—an decimal theory to be infeated by a martine with these of the Bodder, the best means in general of them is no soft than in a takenship into store, so that the mode of the Rodder, wheat one that means in general of the Bodder, wheat of the investigation of the treatment of the investigation of the treatment of the limited with a basis of the Bodder, and to large their means on the bodder of the following and to large them seeks out?

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CUSSET, a sown in France, in the department of Allier, on the little river friedom to both flowe into the Allier, on the little river friedom to both flowe into the Allier, a lower much frequential on asswant of its minoral values, bown much frequential on asswant of its minoral values, formed in about 210 miles from Pers by the stant flowing Frommontono, Montango, Nerues, and Montan, in ac 5' N. i.e., and 3' 25' E. long.

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The whence were a laten we Anjar [Anjar], Bhoop The Trainer are in Linescut Bander, Mandavee, Romer, the latter income was bounded about 200 years ago by to i are t sens in the south west side of a hill, in - M. L. a. 12 W E. LES. The fortifications are energies has being maily manuel afford little prote tion of the manual afford little prote them. and pagodas of since missions of date-trees, sale a nearest approach there are found to be a large prowere a it mean two look. The palace of the rao is a large and wearenest structure, covered with a kind of white FARE, which gives it a very handsome appearance. while amounted in this to 20,000, among white so w many agento is gridsmiths and jewellers. Luckton Samer, namers raiset Bustibunder, but which obtained to research name in 193, when the fort of Luckput was name salities near the east side of the Koree, in 23" ... No. and see 50 E. long, 75 miles north-west from Shore. The nown is built on the brow of a hill, which races from a swampy plain; it contains only about 2000 maintain's and is principally important as being on the mea man from Bhost and Mandavee into Sinds. Previous m the great earthquake of 1819, the communication from the town to the head of the astuary of the Korée was by means of a small shallow creek, navigable only by small was but the effect of this convulsion was to deepen the water to eighteen feet, and effectually to open the navigaton: it is however not a place of much trade.

Mandaree, the principal sea-port of Cutch, is situated on the shore of the Indian Ocean on the north side of the

B. long. Mandavee is the most populous place in the principality, and contains 50,000 inhabitants, who are principally Bhattias, Banyans, and Brahmins: there are but few Mohammedans. The port is an open roadstead with a creek; there are 250 vessels belonging to the place, by means of which a very considerable trade is carried on with Zanguebar and the whole east coast of Africa, with the Red Sea and and with Judic are far as Caylon. The vessels are Sea and Arabin, with the Persian Guil, Mekran, and Sinde, and with India as far as Ceylon. The vessels employed in this traffic vary from 25 to 200 tons burthen; they carry a large lateen sail, and have two masts, but are never decked; they are navigated by native pilots, who have acquired the use of the quadrant, and steer by charts. The natives assert that the foreign trade of Mandavee has existed for a very long period, but it appears that the nautical skill of their mariners received great improvement from the instructions of a native Rajpoot named Ram-Sing, who was carried to Holland about a century age, and after a residence in Europe of some years' duration, returned home 'with a knowledge of astronomy, navigation, ship-building, and other arts, which have been ever since preserved.' The most valuable branch of the trade of Mandavee is that carried on with the eastern coast of Africa, a distance of 3000 miles, whence the merchants of Cutch procure ivory, rhinoceros hides, and other valuable articles. The principal article of export is cotton. Rohur, also a sesport, is situated in the Gulf of Cutch opposite to Wumania on the Gujerat peninsula, and is in 23° 2′ N. lat., and 70° 21' E. long., about twelve miles from Anjar: the depth of water in this part of the gulf does not admit the passage of any but small vessels. The chief trade of Rohur is carried on with Gujerat. Tahrah, a populous place, inhabited principally by Hindus, is a fortified town about thirty miles south-east from Luckput Bunder, on the road between that place and Mandavee.

CUT

The population of Cutch is estimated to amount to 400,000 souls, about one-half of whom are Mohammedans, and the greater part of the remaining half Hindus. The Jharejah tribe of Rajpoots, who were estimated in 1818 to amount to 12,000, are believers in the Koran, and at the same time adhere to many Hindu observances. This tribe, the chief of which is the Rao or sovereign prince of Cutch, is remarkable for the almost universal practice of female infanticide, a practice which the English government has vainly endeavoured to suppress. Captain Macmurdo, the political resident at Bhooj, expressed his opinion that the total number of females belonging by birth to the Jharejah tribe who were alive in 1818 did not exceed thirty. The morals of the tribe are in other respects said to be very degraded : they are ignorant, indolent, and almost universally addicted to the immoderate use of intoxicating liquors: their wives are all necessarily procured from among other tribes.

Engagements of amity were entered into between the British and the government of Cutch in 1809, estensibly with a view to the suppression of piracy, but really for the exclusion of foreign Europeans from the country, a precautionary measure adopted in anticipation of a threatened invasion of India by the French. In 1815, in consequence of depredations committed by the subjects of Cutch on the territory of the Guicowar, our ally, an English force was sent into Cutch, the Rao was deposed, and a new chief placed upon the throne, who engaged to receive a subaidiary force; but the Rao whom the English installed having thrown the country into disorder by misgovernment, he was in turn deposed likewise in October, 1819, and his infant son, Mirza Rao Sree Dessuljee, set up in his stead, under a council of regency, of which the British resident was a member: this in effect placed the government of the country in the hands of the English. In 1822 a further treaty was made, restoring Anjar, which place had been coded to the English in 1816. In return for this the government of Cutch agreed to pay 88,000 rupees per annum, in addition to an annual subsidy of two lacs of rupees previously payable. It was calculated that these sums, which together amounted to 28,800%, would have absorbed about one-fourth part of the revenues of the state, but it was found in practice that they greatly exceeded one half the net revenue, and repeated remissions of a considerable portion have been found necessary. In the political letter addressed by the Court of Directors to the Bombay government on 26th May, 1830, some of the evils are pointed out, which appear to be almost unavoidable under the system of interference adopted by the Anglo-Indian governments.

'You have been led,' say the Directors, 'into a much more minute interference in the internal administration of Cutch than entered into your contemplation when you formed the present arrangement for the government of that country. This extension of your direct authority has taken place, as In sextension of your direct authority has taken place, as is usual in such cases, by insensible degrees, evils having been found to be produced by partial interference which it required a greater interference to remedy.

(Reports of Committees of House of Commons on the Affairs of India in 1830 and 1832.)

CUTICLE, the external skin of a plant. It is composed

of one or more layers of empty flattened cells, which adhere firmly to each other, and serve as a protection to the succulent tender tissue placed beneath them. The thickness of the sides of the cells renders them well adapted to repel mechanical violence, and the air cavities which it contains mechanical violence, and the air cavities which it contains give the cuticle great efficiency as a slow conductor of caloric, enabling it on the one hand to prevent the escape too rapidly of the internal heat of a plant, and on the other to guard the tissue against scorching by the too powerful action of the sun. Accordingly we find the cuticle thickest and most completely organized where it is most exposed to the action of the air, while in submerged plants, which never are exposed to the atmosphere at all, it is absent. When plants inhabit damp shady places, it is thinner; when they grow on hot dry rocks, it is thicker than usual; and it is in all cases found to be affected in a similar manner. Once removed it is never renewed.

Sometimes it has openings through it into air-chambers placed below it, and such openings are guarded by a pair of oblong parallel cells, which, by their expansion and contraction, close or widen the orifice. These organs are called stomates, and are supposed to be more particularly intended

to assist in the respiration of plants.

CUTTACK, a district in the province of Orissa, bounded on the east by the Bay of Bengal, on the north-east by the province of Bengal, on the west by various Maharatta states; and on the south-west by the Northern Circars. Its length from north-east to south-west is 180 miles, and its average breadth 110 miles. On the coast, and for twenty miles inland, the country is low and covered with wood, and being subject to inundation at spring-tides is very marshy. Beyond twenty miles from the sea the country rises considerably, and the soil is dry and fertile. At a further distance inland of twenty miles it swells into hills, and is well wooded; some of the trees are valuable for cabinet work, and others are used in dyeing. The forests are much infested by wild beasts. The region thus lying beyond the marshy delta is called the Mogulbundy. Beyond this is a third region, which is hilly, and extends westward as far as Gundwana. This region is parcelled among sixteen hereditary Zamindars, who are under the protection of the English, and are considered as tributary rajshs, paying at the rate of about one-tenth of the not produce of their estates. The country is subdivided under these Zamindars into a great number of estates, which are also held by hereditary succession. A great variety of minerals are found in this hilly country: iron is met with in many parts; and inferior garnets in great quantities.

Cuttack is watered by numerous streams, which, during the rainy season, become large rivers. The principal of these are the Mahanuddy and its numerous branches, the Bhaminee, the Byturnee, and the Subunreeka. The Bhaminee rises in the mountains of Gundwana, and flowing first to the south and then to the east, traverses the district of Cuttack; uniting with the Beroopah, a branch of the Mahanuddy, it joins the sea near Point Palmyras. The Byturnee rises among the mountains of Chuta Nagpore in Bahar, and flows south through Gangpore in Gundwana: on entering Cuttack it turns to the south-east, and afterwards to the east, and falls into the Bay of Bengal in 20° 48' N. lat. The Subunreeka likewise rises in Chuta Nagpore, and flows in a south-easterly direction, with a very winding course, for 250 miles, and joins the Bay of Bengal, forming the southern boundary of the province of Bengal. These

rivers abound with fish.

The rainy season does not begin so early as in Bengal, but continues from September to November with so much violence as to cause the different rivers to overflow their banks. In November the weather again becomes fine. From April to June the heat is very oppressive, and would be hardly supportable but for occasional thunder storms, accompanied by rain. At other times the climate is more

temperate, but the thermometer seldom, if ever, sinks

The manufacture of salt is carried on along nearly the whole of the coast; the produce is very white and pure, and yields a revenue of about eighteen lacs of rupees (180,000%) per annum. The Mogulbundy produces rice and other grains, pulse, spices, dyeing stuffs, and sugar. Maize and wheat are the chief products in the hilly country farther inland. During the periodical rains, when the rivers are full, a good deal of teak and other timber is floated down to the coast. The forests in which this timber is cut are very unhealthy, and for that reason can be visited only at certain

seasons of the year.

The principal towns of the district are Cuttack, Balasore, and Juggernauth. [CUTTACK, BALASORE, JUGGERNAUTH.] The other towns, or rather large villages, deserving of mention, are Buddruck, Soroli, and Piply. Buddruck is thirty-eight miles S. S. W. from Balasore, in 21° 7′ N. lat. and 86° 26' E. long. It is this village and its neighbourhood that furnish most of the people who are known in Calcutta as Balasore bearers. Soroli is about twenty-three miles south-west from Balasore: it contains two fine tanks and the ruins of a mud fort. Piply is twenty-seven miles south from the town of Cuttack, in 20° 5′ N. lat. and 85° 58′ E. long. The district contains a great number of small villages. The whole population, including the inhabitants of the three principal towns activated in 183° at of the three principal towns, was estimated in 1:22 at 1,296,365. The revenue consists of the profits of the sait monopoly already mentioned; the land assessment, amounting to fourteen lacs of rupees (140,000L), nearly all of which sum is collected in the Megulbundy; customs-duties, pilgram tax, and other minor sources, about one lac in addition. Making allows ce for the expenses of collection, the annual revenue derived from the district is about thirty lacs of rupees, or 300,000l. A great part of the circulating medium is composed of cowries, supplies of which are obtained every year from the Maldive Islands in return for A considerable amount of bullion is carried into Cuttack by pilgrims, but this for the most part finds its way to Calcutta.

The district of Cuttack, including Balasore and other dependencies, was celed to the East India Company, in full sovereignty, by the rajah of Bernr, in January, 1804; the fort and town of Cuttack were taken by the English as tray in the menth of October preceding. The salt mono-poly was partially introduced soon after the acquisition of the territory, but was first legally recognized by the go rather to restrict the supply than to subject the article to taxateen and much distress was thereby occasioned to the people without producing any adequate addition to the gothe too rapid introduction of a new revenue system, and The consequent sales of land for arrears of rent, whereby in than one-half of the settled lands in the Mogulbundy fixing the end nal possessors, excited so much exasperation, that a very screens revolt was attempted in 1817, and this a to not fully quelled until two years after, causing a conaderable sacratee of lives. After this insurrection was elected, arrangements were made for supplying the district with salt by an extended system of local sales, at fixed prices, below those of the auction sales at Calcutta, and by the means a much larger quantity has been sold for conand the people have been relieved from what was felt as \* mirror opportunit.

(Remell's Mereur; Reports of Committee of Commons

the A first of boths, 1832; Revenue and Judicial Selec-tions, printed by the Kast India Company.) CP PTACK, the capital of the district, is situated in your; N lat, and so of K. long. The town is built on a songue of land between two branches of the Mahanuddy tives. During the ramy season Cuttack is completely in-soluted, and the fown itself would be subject to periodical mendations but for he go and solid embankments faced heat share, which effectually keep out the water. The

saits and at the same time the efficacy of these embankwhose proved during the heavy rains of 1817, when was to be a mount night eighteen feet. The river, during . t 114, is a male and a half broad, and from thirty to the diagont this part, but during the dry sesson it is a ten attenu with a depth of only three feet.

The Sanserit word Catak, from which the name of the own is derived, signifies a royal residence. While the protown is derived, signifies a royal residence. While the province of Orissa preserved its independence, Cuttack was the residence of the Gajapati, or superior rajah, at whose court the military chiefs of Orissa performed feudal service. The Mogulbundy already described, formed the fisc or domain of the Gajapati while the heldings of the military while. of the Gajapati, while the holdings of the military chiefs were situated round and along the frontier of the kingdom. and it was the duty of their possessors to defend the country from the irruptions of neighbouring powers in the same manner as the lords of the marches in Europe were in former days required to repel invaders.

The town contains a very well-built street with houses of stone two and three stories high, a large market-place, and several mosques; in one of these is exhibited a stone brought from Mecca, and bearing an impression of the first of Mohammed. In 1822 the town contained altogether 6500 houses and 40,000 inhabitants. The fortress of Barabuttee, which was built in the fourteenth century, stands about a mile north-west from the town. Cuttack is 251 miles from Calcutta, 482 miles from Nagpore, 651 from Hyderabad, 779 from Madras, and 902 miles from Delin. all travelling distances. (Rennell's Memoirs; Col. Briggs on the Land Tax in India.)

CUTTING, in gardening, is a portion of a plant from which a new individual is propagated when placed in the earth. Every body knows that a stick of willow stuck into the ground will put forth roots, and become a new plan: . such an instance is a rude exemplification of the manner of multiplying plants by cuttings. In the empirical rules to be observed in this operation, the reader had better consult some book on gardening; we shall confine our observations to the theory of the operation.

Every bud which a plant contains is a distinct seat of life, capable, under fitting circumstances, of growing, flower ing, fruiting, seeding, independently of all other buds, and able, if separated from the mother plant, to form a new un-dividual. The buds of a vine, and of a potato, are actually so employed under the name of eyes; a cutting is merely a small collection of eyes adhering to a mass of woody

matter.

A cutting, when prepared for planting, is cut off close to a bud at the bottom, and down to another at the upper end; it is then placed in earth quite up to its topmost bud, the remainder being buried. The object of this is three-fold; firstly, to expose only one bud to the stimulus of light. so that when the cutting begins to grow the leaves may not, from their number, require more food than the wessly system can supply; secondly, to keep back the other even by the pressure of the earth upon them; and thirdly, to expose as great a surface of the cutting as possible to the influence of the moist earth and darkness, by means of which the production of roots will be facilitated.

In delicate operations, where cuttings are difficult to strike, several additional practices are had recourse to. The cuttings are covered with a bell glass, in order to keep the air that surrounds them saturated with moisture, so that when the buds begin to grow they may not exhaust the cutting of its vital fluid by their excessive evaporation They are shaded with the same object in view; sun-habit increases evaporation, and stimulates a growing part a to action: the desire of the gardener is to guard against this till his cuttings have formed abundant roots to field her When cuttings are very difficult to strike, their lower end is often made to rest upon the bottom of the garden-pot which they are to grow; this removes their wounded end from too much moisture, and prevents their being gorde with crude sap before they are able to digest it, an evil quide as great as that of being exhausted by too rapid a dige-ti-...

The same or a similar purpose is answered by putting ti-... cuttings in the first instance into pure silex (silver sand), form which they are removed as soon as roots are emitted; such and permits only a slow transmission of water through and is in fact incapable of supersaturation if proper means are taken to drain it; and hence it renders it imposs: that water should be conveyed too quickly into the or a vessels of the cutting.

In many cases a single leaf, or a portion of one, is le? attached to the upper eye of the cutting; this is for the sake of keeping up a slow circulation in the system, and chawing into the vessels of the wood a gentle current of moisture, so that the cutting may never be too much exhausted.

conviolence in the right time.

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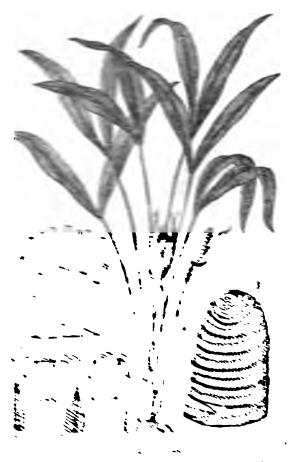
Equivalent 24

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The state of the periods insects. According to the proposition of the restriction of the restriction of the restriction of the restriction of the state of the st

The section Cyclica contains the Linnaudi general Hospitalita, and Chrys mela, the species of which may be impressed by the following characters:—The formulation of the production of the produ

These insects are usually of brilliant metallic of various shades of green appear to predominate 1. In large have a soft body, and are furnished with six here. Attached two to each of the three first segments, or to execut the head. They feed upon the leaves of places.

attached two to each of the three first segments of the east the head. They feed upon the leaves of plantages the head. They feed upon the leaves of plantages. This group belong the following families:—(in this group belong to the family Cassidiadæ are, Americae Chalepus, and Cassida. To these genera we shall present confine our remarks, commencing with the group of the technical characters of which are:—Rais on the family the technical characters of which are:—Rais on the family with the anterior portion produced so as to contain the head; mandables with three notches on the inner one.

The Cassidæ are usually of a somewhat flattened form, and are remarkable for their having the external mar\_1 sof the elytra projecting beyond the bedy; the outer norms of the thorax are also produced, and conceal the hoad. Those parts which extend beyond the animal itself are generally semitransparent and flattened, whilst the parts which immediately cover the insect are more or less convex. When the insect is at rest, the legs, which are rather short and compressed, are retracted, and the external margins of the elytra and thorax are applied closely to the plant on which it lives. The larvæ of the Cassidæ are of a depressed ficult and usually armed on the upper parts with numerous line sines; these are lengest on the sides of the body and at the tall. The use of these little spines appears to be 1 or the torpose of holong the excrement of the animal, who a savers inconstrain upon its back, and probably serves as means it inteners, by concealing it from its enemies.

Sada menda, an insect not uncommon in this country, is about a quarter of an inch in length, and of a bright green concur above: the body beneath is black. This species lives both in the larva and image states upon this less.

Tives both in the larva and imago states upon thistles.

Mr. Stephens in his 'Catalogue of British Insects,' enamerates unnetten species of this genus.

The useds belonging to the other three general of the Cassiliadia have the body of a more clongated form than ness just described, and the head is exposed, the many of the thorax and elytra not being produced. They are a meluded in the genus Higa of Linnaus.

CYCLOBRANCHIANS. (Cuv.) [Cyclobranchiata Carvicobranchiata.]

CYCLOBRANCHÍATA. M. De Blainville's the direct of the second section of his subclass Paracephaloph  $\tau_2$  are necessity.

Furnity character.—Organs of respiration branchial, in form of fehated branches, placed together symmetrically near the vent, which is situated in the mesial line of the resterior part of the body. Skin naked, and more or less thereuleus. (De Blainville.)

<sup>.</sup> The characters of these families are given under their proper heads

### Grand Deep.

Made avid, manner from the property of the territors of the security prints beyond the foot and ben't on all tides. Four explosion, been a which are superor and contractly within energy, and two interior under the bunker of the manufactor, and two interior and raise ben't tide, without the fit with a target manufactor with destincts of come as. Memorial remained or to none of projecting foliated authors, derived in a note have of been complete in front of the visit. Organs of government theorem, and the right sole in a common tubercle.

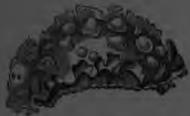
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fiely extremely depressed. Example, Duris Roles



(Darie Index.)

Hable, No.—There are many species opered abroad in cert all sero, where they live upon make. The student side rates to Cover's monograph in the Armster du terrain, vol. 10.; and to De Blairculle's in the Dictionsaire maters Naturelles.

## Onehuleris

Role oval, tomorical thomas, above, First aval, thick,

overpassed throughout its crommference by the purities of the mention. Four leaders of as in Darie, besides the label approxing. Organs of respectation formed by very small ramifications, disposed circularly, and contained in a savity situated at the posterior and mentil part of the back. From model at the inferior and pureciar part of the border of the mantle. Orthose of the regions of generation very dis-lant, and united by an external former monapying the entire length of the right sale. Example, Ombidiera Leaghti.



(Ourthboth Lendon: a, alde view; & seen Iron below.

M. De Blainville established this genus for a mellusk in the British Museum, the locality of which was unknown.

Peropia.

Body suboval, tunnelled above. Fact aval, thick, attapassed throughout its circumference by the barders of the mantle. Two inferior tentacula only, depressed, and but little contractile, and two labial appendages. Respiratory organ nearly relifered or pulmonary, in a cavity situated at the posterior region of the back, and opening externally by a monded mental wrifes, pierced at the inferior and posterior part of the borders of the mantle. Feet mental situated in trust of the pulmonary orifice, Orifices of the organs of generation very distant; that of the overy entirely at the posterior extremity of the right side, continued by a furrow to the ract of the labial appendage of that side; orifice of the exciting organ very large, nearly mental at the anterior part of the root of the tentacle of the same side. Example, Persona Manaritama.





Primas Manuface; n, sedo view ; & seen frem beiere.

M. De Blanville observes, that this genus contains the marine Onchidus of Cuvier, and that he knows of four or five species, all from the southern hemisphere.

N. R. The Cyclobranches, Cyclobranchiane of Cuvier, form the eighth order of Gastropods of that zoologist, and contain the genera Putella, Linn., and Chiton, Linn. Castropoda Nemata, vol. vi., p. 446 et san; ; Currons, vol. vi.,

p. 94 et seq.

CYCLOID (rechassing, like a circle), a name very incarrectly given to the curve which is timeed out by any point of a circle rolling on a straight line. Thus while the wheel of a carriage revolves, each nuil on the circumforence describes a succession of cycloids. We might also here describe the various curves made by the points of circles which roll inside or outside of other circles, &c. &c. But as the cycloid stands spart from all the rest, both in simplicity and historical natoriety, we shall here confine curvelyes to the one curve alone, and refer the rest to the head Taccholoxi, Circums.

If we suppose a circle to roll on a straight line, it is ob-

If we suppose a circle to roll on a straight line, it is ob-rious that the centre will advance in every moment through a length equal to the ports of the circumference which is brought in contact with the line on which the circle ralls. That a,



point now higher the circle, to be the sto be traced, the circle, to be the sto be traced. The condition is a length PQ equal to P, the whole system of a cycloid the arc CP; the extremely to AB and equal to the arc CP; the extremely to AB and equal to the arc CP; the extremely to the point on the line and equal to the arc the cycloid. The arc AC, which it descends the cycloid are as follows:

of the preceding of the cycloid are as follows:

of the preceding of the cycloid are as follows:

of the preceding the cycloid are a

mplete the rectangle the whole area CQR is equal whole area ACB is three sircular area control the same as that in a circle that of the generating the circle and evolute (see radius is twice EP, and the involute and evolute (see radius is twice EP, and the both cycloids of the same terms) of a cycloid are both cycloids of the same nitude. terms) of a cycloid the terms) of a cycloid are seed, so that C is the lowest point nitude.

If the figure be reversed, so that C is the lowest point in the figure be reversed, and the cycloid being of resisting the cycloid, and A and the cycloid being of resisting the cycloid supposed, and the cycloid being of resisting tion being supposed, and the cycloid are said to be synchronous.

It is considered at Q may be. Hence all the side to C, wherever the point Q may be. Hence all the cycloid are said to be synchronous.

To on the same supposition as in the preceding, a weight result of the same supposition as in the preceding, a weight and the same supposition as in the preceding, a weight result of the same supposition as in the preceding, a weight result of the same supposition as in the preceding, a weight result of the same supposition as in the preceding, a weight result of the same supposition as in the preceding, a weight result of the same supposition as in the preceding. A weight result of the same supposition as in the preceding, a weight result of the same supposition as in the preceding, a weight result of the same supposition as in the preceding. A weight result of the same supposition as in the preceding, a weight result of the same supposition as in the preceding. A weight result of the same supposition as in the preceding. A weight result of the same supposition as in the preceding as weight result of the same supposition as in the preceding. A weight result of the same supposition as in the preceding. A weight result of the same supposition as in the preceding as weight result of the same supposition as in the preceding as weight result of the same supposition as in the preceding as weight result of the same supposition as in the preceding as weight result of the same supposition as in the preceding as weight result of the same supposition as in the preceding as weight result of the same supposition as in the preceding as weight result of the same supposition as in the preceding as weight result

quations :-

$$\mathbf{x} = a (1 - \cos \theta)$$

$$\mathbf{y} = a (\theta + \sin \theta)$$

om which the properties of the curve may be deduced.

If, instead of preasuring PQ from P, we had carried the properties of the curve may be deduced.

If would have described a curve may be deduced. om which the properties of the curve may be deduced.

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The history of the cycloid is remarkable from the consens of the cycloid, but it is a curve of sines. [Sines, Curve of sines of the cycloid, but it is a curve of sines. [Sines, Curve of sines.]

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Produced, and the manner in which the cycloid is remarkable from the consens of the cycloid is remarkable from the cycloid, but it is a curve of sines. [Sines, Curve of sines.]

Produced, and the manner in which the cycloid is remarkable from the cycloid, but it is a curve of sines. [Sines, Curve of sines.] place state of science of the seventeenth century. to Testainly the first who attempted the investor properties of the cycloid, as appears from a celli, written in 1639. (See Montucla, Hist. celli, written in the state of 
DERIOMA. [HELICIDE.]

[CIDER.]

[CIDER.]

[ANATOLIA; CILICIA.]

DO IIA VULGA'RIS, or QUINCE, of the fruit of two varieties. apple-quince and pear. The The work of the fruit  The part used in medicine, on account of the much the fruit of the fruit

quantity of mucilage, which is white, and not coagulable by boracic scid. One part of these seeds will render 40 to 50 parts of water so mucilaginous, that it will possess the thickness of a syrup. They should be set to digest in coid water, otherwise the mucilage acquires the odour of hydrotypic scid water, which water the set to digest in coid water, the water the set to digest in coid water, the water the set water to depart to depart to the set water to be set to digest in coid water the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to be set to digest in the set water to digest in the set water to be set to digest in the set water to digest in the set water to be set to digest in the set water to digest in the set water to be set cyanic acid. Indeed the actual presence of, or tendency to form, hydrocyanic acid, may be demonstrated by distillation. (Stockmann.) Many seeds yield a yellow-coloured mucilage.
If allowed to remain in a fluid state the solution soon spoils. but by careful evaporation the mucilage may be brought to a dry state; or, as proposed by Zier, the mucilage may be precipitated from its watery solution by alcohol. Ten ources of seeds yield two ounces of dried mucilage, two grains of which, with distilled water, produce one ounce of mucilage of proper consistence for use. In whatever way obtain the mucilage possesses demulcent qualities, and may be employed either internally, or as a lotion, which is especially applicable to the faces of those who suffer from the cord winds of winter and spring.

CYGNUS (the swan), one of the old constellations of Aratus, who refers it to the fable of Leda, as does Hignus; but the latter gives another fable of the same kind. The but by careful evaporation the mucilage may be brought to

but the latter gives another fable of the same kind. bright star (Deneb), a Cygni, may be seen on the meridian at eight o'clock in the beginning of October; the bright stars in Aquila, Lyra, and Cygnus form a remarkable triangle.

The principal stars are as follows:-

្ខំ	No. in Catalogue of			ç	No. Catalo			
Character. Not in Bayer	Flamstord and Piass.	Astres. Seciety.	Nagnitude.	Character. Not in Bayer	Flameteed and Plazzi.	Astren. Rociety.	Magnitude.	
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	33 37 h) 39 i) 41	2391 2401 2402 2411		μ π¹ π²	78 80 81 (258)	2582 2580 2593 2440	5 4 5 6	1

CYGNUS. [SWAN.]
CYLINDER, in mathematics (silvedpos), a name given generally to the surface formed by a straight line where moves parallel to itself, whatever may be the guiding curve but frequently confined to the common definition, which supposes the straight line to be of finite length, and to move round the circumference of a circle, keeping always at sight angles to its plane. We shall extend this a little. at right angles to its plane. We shall extend this a little and treat of the cylinder which has an oval for its base. and the moving line at right angles to the plane of the base, whence the cylinder is called a right cylinder.

The cylinder may be considered as a cone, of which the apex is at an infinite distance; and many of the general

notions in the article Cone may be applied to it.

The content of a cylinder (in cubic units) is the number. of square units in the base multiplied by the number .: linear units in the altitude. Thus the cylinder band circular, the base having a radius of 10 feet, and the are circular, the base having a rando of 10 feet, and the air tude being 7 feet, the number of square feet in the base in 100 × 355 ÷ 113, or 314 59, which, multiplied by 7, 100 × 355 ÷ 113, or 314 59, which, multiplied by 7, 100 × that in the altitude. Thus in the preceding case the number of feet in the circumference of the base ... 20 × 355 :—113, or 62 918, which, multiplied by 7, gives 440 426, the number of square feet in the cylindrical pert

the higher, evelusive of its two terminating planes | resembles that of the articlocks. It is in general a choice dieth, and address some except on the tables of persons in

The Surface, exclusive of its low incrementing planes. Prince of the property of the prince of the property of the prince of the property of the prince of t reasonables that of the gridocks. It is in general a chapter dich, and addon seen except at the dables of persons in acts are continues.

CVNARGE, [Consequent]

CYNARGE, [Consequent]

CYNARGE, [Consequent]

CYNARGE, the manner of a sevel of Grant pholosophics who have comboned as a sevel of Grant pholosophics who were produced by the school of Sections, but were so called according to one interpretation of the word or event displication from their smalling dispersion, though it is provided that the name may have been derived from the grantesom of the word of crossing, who were also as offshool of the Secretic pholosophy. Crossing, who were also an offshool of the Secretic pholosophy. Crossing were the exact opeosite of these of the Crossing, who were also an offshool of the Secretic pholosophy. Crossing but the only object at which man ought to some out that most of the sciences and arts, as they do not tend to make most of the sciences and arts, as they do not tend to make most of the sciences and arts, as they do not tend to make most of the sciences and arts, as they do not tend to make most of the sciences and arts, as they do not tend to make most returned of the according to their routions, was be with the attainment of it, are unproblemed as to the conduct to two only for virtles without any interruptions of the offset of the second result of the second of the conduction of the second of the second of the second of the second of the other of the second 


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±3± 18 +2° − 35% L. Back Like 35 normal designation of the ¥ 1 1m ~ 2 1 2m 1 4 mg ---- \$12 \ the street of the street with an in the time with with the . . . . The There is the second other a sector of the the tenton process. where I is an Till I to moved to some the term of the term of the term of the term I WE THE RESERVE A PROPERTY AND THE the property of the property o title last to ret a me, to see to me for and the same to the back the same of the same THE THE REAL PROPERTY AND A STATE OF THE STA the first that a second course where the property of the same of the same and the the same was arounded that the best of a time

Money of the contraction of the state of the state of the contraction of the state of the state of the contraction of the state of the state of the contraction of t

men. Sensita of the ease, 14 inch; length of the body from the measure to the met of the tail, 1 foot 6 inches; length the measure to the met of the tail, 1 foot 6 inches; length the mil. The mil. There is measured that moderately fine in quality, man resonance that if a dog, smooth and close on the measurement in the pail. The general colour, at well is the whose external appearance, precisely that of a mail well singuit and everthere body, head, and extrained seen and immers in the back, but mixed with suitery of the measurement in the back, but mixed with suitery of the measurement in the sees, and tail, arising from a military of mail which grey, and dispersed through the first of measurement with one must be leftly, and legs, unmixed with the mil which is measurement with one must be entire and grey at the points of measurement with the tail in the tail uniform dirty white. Hinter it me with me milliment and more farry quality. The mail milliment is a finer and more farry quality. The mail milliment is a finer and more farry quality. The milliment is the milliment more farry quality. The milliment is the milliment milliment in the milliment more farry quality.

In one of the Cape of Good Hope, I have been the interest of the Cape of Good Hope, I have been the interest of the Cape of Good Hope, I have been the interest of the Cape of Good Hope, I have been the interest of the interest of the Sourcean, the other by Mr. Barhe is the Sourcean, the other by Mr. Bar-The last meet amores in the English translation in the last series which probably likewise belong in the last series and gave chase to between the last there make its except from us, however, by runme min the mile around, and seemed to be somewhat me min the colour of the that this passage records In thereta a is while we can with certainty refer the \_ in twint . nimes to the Cynicitie Steedmannii, the second and are so perfectly similar in man and the second between from Barrow's Travels, he haracters are fully reported. "Upon mose of Camdebo, on the eastern names inches in the same also found several species of a ame ....... va. a humber in the ground, and which s where it is realists which the general name of Meer-We have me of the name of Vicerra. An eagle market in mer, and both fell a sacrifice, one to the case me notes to the bigs. Both the bird and quadratic appeared to be at inscribed species. . . . The the tail white at the errom." sees sturt and round; on the fore-feet, five, There may be no branc' continues Mr. Ogilby, 'of he mimal u vina this description refers, a description more minute and accurate than we generally find in the with it there is a street in every point with the street which arms the subject of the present memoir



[Cynetis Steedmannii, from Mr. Ogilby's figure.] \*

Na Gray informs us that this animal has been described by Ouvier or
Secretary posicillates, and by Mr. Smith as Morpostes Levallants.

crowd, perhaps, in the reported dimensions of the tail and today, but this dimension must probabily arous from the stay and today, but this dimension, or from the measures of Mr. Barrow boing thou in a strain line, white come offered the different envenues of the lead, unch, and hody. The mains of the early hy which if appears the animal is known in the coloniats, significate a mockey, and is of ever centeral process. However, hy which if appears the animal is known in the present species, the Cape Hergeste, Ground Majarrole, and remains other species the Cape Hergeste, Ground Majarrole, and remains of the claws.

CYNING OFFICUS. [Games.]

CYNOCEPHALUS. [Games.]

CYNOMORIACEE, an observe order of Majarday, distinguished from Enlanciphorages by their distinct stammers, and the timperfact permits of the main ferrors. The order represented by Optomorium overfacium, the Fungus molitionae of the old facticities a plant once in repute for instruments, and the unperfact permits of an electrical relations at that it grows must be instrument of the left facticities a plant once in repute for instruments of the city facticities a plant once in repute for instruments of the city facticities a plant once in repute for instruments of the city facticities a plant once in repute for instruments of the city facticities a plant once in repute for instruments of the city facticities and the city grows must be continued to the unsured of the city of the

"AND COMMENT OF SAFEKERING THE

These times have puralled many, though the reference to the pale star and the property of the magnet gives the image a degree of biness for posity which the olymology of the word shone mails hardir suggest.

CYNOSURUS CRISTATUS, a well-known pacture grass, called by farmers created dogotal or policiated, encountryly abundant to all natural and artificial grass land. If grows with a dender unanth stant in the height of one or two feet, and is terminated by a commular cylindrical aptho-like panieth of short classers of flowers, such charter consists of two flowers two about the langularithe darray, the paless 2, of which the lowest is thought of the darray, the paless 2, of which the lowest is therepointed. The styles are feethery; the fruit is a small, yollow, smooth-shoring recol-like besty, whence the manness mann of gold seed.

Although this grass forms to emissionly a postern of all good pasteres it is chiefly an account of the moment and research of its barbage that it is pulmoide, the quantity of lary that it produces being inconsiderable. Mr. function become charves, that 'it is independent for the purposes of lary, has admirably adapted for personnent posterior. The more penetrate a great way under ground, from which obscurstance it remains green after most other grass of are harnt by a continuance of dry weather. In progress most one is arrived at a greater size than in any other attactor.



[Cimema trimitua]

CYNTHIA (Zoology), one of the subgenera into which Savigny has divided the Accidide. The subgenus Cynthia consists of those ascidians whose body is seesile, and which have the branchast see planted longitudinally, and the refuelation continuous. These external envelope or test is corinecous. The structure comes nearest to that of Holtenia. [Bouverna.] Example, Cynthia Momus. This Ascidian does not attach itself to rocks, but makes shift to float about in the Gulf of Suer by attaching stool to foci and other submarine plants. (See Savigny's Minteressures American sums Vertiliers, Paris, 18 for and Mr. W. S. Macleay's 'Anatomical Observations on the Natural Group of Tunionala,' Linn. Trans., vol. xiv. p. 527.) N. B. M. Latroille has used the term Cynthia to distinguish a genus of colcopterous insects.

of functions, Linn. Trans., vol. xiv. p. 527.1 N. R. M. Lattraille has used the term Cynthia to distinguish a genus of calcopterous insects.

CYPER'ACEE, an extensive natural order of glumaceous Endogens, having much the appearance of grasses, with which they are sometimes popularly confounded. They differ in their stems being usually solid, not hollow, and angular, not round; in the sheaths of their feaves not opening on one sale, but forming purfect tubes when the stem is pulled through them; in their male florets having no palses ner any exercing to the stancers except a single bract, while the bisexual florets have nothing more than a few hypogeness bristles superadded; and finally in their makery being enclosed in the albumen, and not lying at one sale of it. There are other distinctions besides these, but what have been mentioned are the most remarkable. A large proportion of the order bears the name of sodges, and hance the sedge family or tribe is given to these plants as their English appellation. They are roostly inhabitants of murshy or swatery grounds, a few are part with an dry upland pastures, and a good many are Alpine plants. They

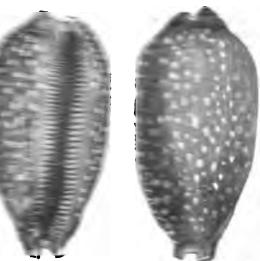


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thus notices are sell underder alters or the sell underder alt







The transformation of the transformation of the particle of the back, and the back of the

· Dr de messie

The sequence is more plotted an both sides. The colourney, or at least, the dispersion of the substrain, here, is a much more cortion where we do a possess there exists the present earlies of more in tase, the latter of which is observable process are manned to the states of which is observable process are manned of the tentily I have close others makes late; this possess there where the attention of the manned had process are manned of the tentily I have close on the tentily of entire marks and others, when mover that when the animal has formed a complete chall, so it too not the facility of entireping its man, it is abilitied to gott its skell and forms many movement in the same manner as the domains cost their street, one to be their manner as the domains cost their street, one to be their manner as the animal forms many moths, but I believe there is not the sightest ground for this amount.

Mr. Gray has veccarly observed, that sunctimes, though rarely, the group should of Cyproxia, especially C. Arabica, involved with a composure of the matter lip thickoned and formously the amount algorithm. Hattichallon, Hattie, No. — Cyproider animal hells in the oil and now worth, but their greatest development both in point of size and number of spaces takes place in worm climates. A very few species sie installiants of the Kuruppan ness. The family are litteral, and are generally found under sames or rolled carals.

Genera Cyproxia, (Covry).

Genera Cyrona (Coury),

(Course character.—The young shall smooth, the white with both lips teathers!; the unserier and pesterner exact distinct, recurred; the front end of the columnla lip smooth, edged by a single large obtains full, separated from the teath by a deep greave. (Gray.)

# Sub-grown to

## Сурппи

The front of the columnia broad, desply improved; shell mostly sussells.

Stiedl emooth; columnide-pit transversely ridged; teeth of inner by generally long; (Gray.)\*

Under the deviate of the sub-group Mr. Gray arranges twenty overs operior, or indiagona one of the recent forms,—
Courses durant this Marining Dawn, or Orange Coursy), and Copress Princeps, for example,—together with Dypera Tigers (the Phon Cours), and other common species.

Example.—Copress Mapper, the Man Coursy.

The reption. Shell more or less yentrices, evata, varied with those brown or yellow lines, and spots. Dorsal line backings. Margin thirth, spotted with black; teeth yellow.

Locality, Indian Orano.

(Cypen Name)

These are many varieties, among which the resy variety, be dark variety, from the Pearl Lilands; the extrem variety, and the fourt point monthed seriety from the Mauriting, so the largest or most beautiful. The point shell is of a lower values with obsolete 'post and dashes.

St. I) amounts; estumblic pit (nearly) amounts; footh of one too stops or indication.

Wooder the direction of the sub-group Mr. One; erroughed on sporter.

The term may be thoughout these senter Mr. they's, as yell as

Example.—Cyprose Tolpis, make covery: Nardenya Grovy of Gray.

Description.—Shall object orate, subsylindrical, yelloweds, with three deskin barries; the automoralize base and teeth brown or black; manth pale. There is a saturity Kraufus; shorter, darker, and with the teerii speaker and storer.



(Cypres Talys.)

Shell with the back warty (rarely smeath), have the god. Under this section Mr. Gray enumerates throughout Brample.—Cyproxa Cicercula, Volvi Cowry.

Description.—Shell subglateon, yellow, brown datical, with a dorsal groove, and scattered this soles over such extremity; from four-spotted, partly grooved.



(Cyyona Clearaida ).

There is a targer variety which is trure chlong, amouth, and is without the dorsal groose (C. Globulus).

Shell with transverse ribs.

Only two species are commercial by Mr. Gray, and one of these, C. rugnes, Brod., is fossil.

Example.—Cypress Childreni, Children's Courty, Gray.



(Cyres Children) ;

Shell with longitudinal and transverse ribs.
One species only, Cyprea Adamsonii (Gray) Adamson's Cowry, very rare.

Description.—Shell nyste: pear-shaped, white, become muttled. Locality, Pacific Ocean? (Gray).



Sal-genus L Ancia.

Front of the columnilia flat, as nearly so; back of soull smooth

mire dotted; base



### Tenna and

# LIPENIA

Throng end of the column in . -The marks, without any List der e mirrow, flat; shell pear-samet. ÷----Laponia Algornais, Algon Lamer sina margin black dotted. Variet men. mer er ess soliterated. Locality, Cape 11



#### TELL

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7 seems. Examps. Press urass. Residented . <del>- -</del> . - 25.



Descriptions.—Shell oblong, thin, pellucid, pure rosemioured, with very thin, distant, continued ribs; lips
wintsh. Varies with an indistinct dorsal groove.

Mr. Gray observes, that Pig is the common name of
these shells on the coast, and that they are called Porcells
in Italy. He adds, that Porcellain, the common name for



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No come transfer stated and the

Cownes, is taken from the fancied resemblance of these shells to pigs, and refers to Fabius Columna, &c.

Mouth narrowish; outer lip wide; ribs of back subequal, linear.

Eighteen species. Example, Trivia Europæa, European

Pig, Gray; Cypræa Europæa, Lam.

Description.—Shell ovate, subglobose, ash or flesh-co-loured, with three black dots, and a whitish dorsal streak; ribs close, rather thick, whitish; base white; outer lip wide. Variety.—Back spotless, with an indistinct dorsal groove.

(Cypræa Arctica, Mont.) Young white and smooth.



[Trivia Europæa.] a, adult; b, young.

Mouth narrowish; the outer lip arched; the ribs en-

Mouth narrowish; the outer in arched; the rios enlarged or tubercular near the dorsal groove.

Seven species. Example, Trivia Pediculus, Louse Pig, Gray; Cypræa Pediculus, Linn.

Description.—Shell ovate, pale reddish, with six square, black, dorsal spots; ribs rather thick, subrugose, crowded; dorsal line narrow; base reddish. Locality, West Indies.





[Trivia Pediculus.]

Mouth narrow; ribs tubercular; dorsal line distinct; front of columella smooth.

Two species. Example, Trivia pustulata, Pimpled Pig, Gray; Cypræa pustulata, Lam., commonly called by collectors the Small-pox Cowry.

Description.—Purplish-brown; ribs studded with redbrown, black-edged warts. Locality, Pacific Ocean.





[Trivia pustulata.] ERATO (Risso).

Spire conical; apex sub-mamillary, blunt; shell, when young, smooth; the adult with both lips finely crenulated; the columella concave slightly radiatedly plaited or smooth, with two or three folds in front; the anterior canal straight, the hinder indistinct.

Seven species. Example, Erato scabriuscula, Roughish Tear-shell, Gray, Marginella Cypræo'a, Sow.

Description.—Shell ovate, turbinate, livid, purplish, minutely tubercular; spire conical; dorsal line impressed; mouth wide, whitish, inner lip largely plaited its whole length; teeth large, young, smooth; lip thin, toothless. Locality, South Pacific, St. Elena.





[Erato scabrinscula.]

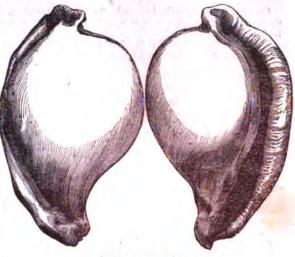
OVULUM (Ovula, Lam., commonly called Poached Eggs).

Generic Character.—The shell, when young, spirally striated; when adult, covered with a smooth enamelled coat; the inner lip toothless; the outer toothed or crenated; the anterior and posterior canal more or less elongated.

The outer lip broad, inflexed, rounded, crenulated; extremities short; front of columella rounded.

Of this subdivision Mr. Gray enumerates two species.
Example, Ovulum ovum, Ovula oviformis, Lam.; Bulla ovum, Linn., Common Poached Egg.

Description.—White; back rounded; inside orange-



[Ovulum ovum, adult.]

Outer lip inflexed, broad, toothed; ends short, curved; hinder end with a tooth on the inner side; front of the columella expanded beneath.

One species only, Ovulum verrucosum, Ovula verrucosa, Lam.; Bulla verrucosa, Linn.; Two-warted Poached Egg, Gray.

Description.—Shell ovate; back angular; extremity rosy, with a depressed wart above. Young closely striated; ends brown-edged. Locality, Indian Ocean.





Ovulum verrucosum.

Outer lip inflexed, rounded, narrow, toothed; rest like

Four species. Example, Ovulum Margarita, Sow.; Pearl Poached Egg, Gray. Shell ovate, subglobose, white, pointed in front, ventricose; base convex; hinder tubercle rugose; front of columella concave; outer lip rounded. This with





[Ovulum Margarita.]

six brown dots artificially made is *Ovula punctata* of Duclos, Bull. Sci.; Guerin Mag. 27. Locality, Friendly Islands.

Outer lip slightly inflexed, narrow, keeled externally, with edge shelving inwards; the rest like the former.

Seven species. Example, Ovulum pyriforme, Sow., Pear-shaped Poached Egg, Gray.

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pe Raly and Perkussen I was been spannesses of a very of the poor, and absental, in its mode of this, the most actual receival, posity resolubility for more flowers. In the Confidence of the poor, and absental, in its mode of this, they made the minutes of actual conductors, in a bottom, and the minutes of actual conductors, and the Medicarcanan the Indian Donas, and the Medicarcanan concentrative. The number of long manutes of long and the Medicarcanan the Indian Donas, and the

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The section of the se

A creek because of the second Maria its usual weight is about half a pound; it is usual weight in about half a pound; it is usual weigh upwards of two pounds

as shed by their harring the mouth small, formed by the remaxillary homes, and generally devoid of teeth; the is a rave lew in number, and the scales generally of large

The principal genera belonging to this family are Corrhinus, Abramis, I mmus. Zarmas Ginni, Tenca, Cerrhinus, Abramis, Laliissustrimus, Lenerarius, Gonorhynchus, Cobitis, Anablej v. 3 r ... Longe Fundains. M ineria, and Cyprinodon.

The genus Command (as now restricted) contains the mm in men and allied species, which are distinguished in the if the ither genera above enumerated, by the r awaz me ang iorsai iin a smali mouth devoid of teet. the waters of large size, and the second rays of the dors of in tomacins arms, near, and more or less serrated; brain-

na stemas ave tarre in a imber. The vinnin Chin Corresp Carpio, Linn.) was introment and the remi The in early period (probably between Le : irreenta ma iffeenth centuries), but neither the date True winter from which it was imported are precisely mais it is that to be remainfully from the middle of Europe. and same a moves best in this part, such is probably the use. It now minants most parts of Europe, and in said thes is grown is much attended to for the purposes if with. It frequents lakes, ponds, and rivers; in the list makes it works those parts where the current is strong.

The first in the carp consists chiefly of vegetable subwhich are masterated by means of the flat teeth while he smalled in the pharyngeans; the larve of mwas and verse a waver also afford it nutriment. This fish s t in a name from and rather thick; the back is one mission meraled and the greatest depth of the body, which a venezin the commencement of the dorsal fin, measures mire mire than one-third of the entire length: the heal s arm in the mouth small in proportion; the lips are surness at the mouth; the dorsal fin commences in a line win the end of the pectorals, and occupies a space nearly exist in membral of the entire length; the first ray is sairt and boay; the second is also bony but long, and someet in the hinder part; the third ray is the longest, and wither as the likewise the remainder of the rays: 110 um. in seem makes in a line with the dorsal, and, like that, its the TVI fremest rays bony, and the second serrate: the newtral fix has its origin immediately behind the trie rame if the revenuation; the caudal fin is forked, and the The number of in-rays are dorsal, 22; pectoral, 17; venra. ! ami. !. and caudal, 19. The lateral line is

The general colour of the upper parts is a rich olive rown, visch is increase on the head; the under parts are entowing-waire, and the fins are brown; the ventral and

ma ins we trued with red.

the first we neglet with the carp, we extract a the regards the same and weight of the carp, we extract a the regards the Yarrell's valuable work. 'Though not few mes from Mr. Yarrell's valuable work. w most in their growth as some fish,' says this author, rang have arrained three pounds weight by their sixth west, and six peands weight before their tenth year. acrest I can refer to are thus noticed in Daniel's Rural Some Mr. Ladbroke, from his park at Gatton, presented Lord Egrement with a brace that weighed thirtytive mounts, as specimens to ascertain whether the Surrey could not we with the Sussex carp." In 1793, at the fishing if the large pace of water at Stourhead, where a thousand targe brace of killing carp were taken, the largest was in to inches long, upwards of twenty-two broad, and wegged eighteen pounds.

At Weston Hall, Staffordshire, the seat of the earl of Bradfield, the painting of a carp is preserved, which weighed attered and a half pounds. This fish was caught in a lake of twenty-six acres, called the White Sitch, the largest of three pieces of water which ornamented this fine estate

Carp are in season for the table from October to April. The Crucian Carp, or Prussian Carp (Cyprinus gibelio, Rich), is another species of this genus now naturalized in this country, and which is said to have been introduced from Germany.

This species is considerably less than the common carputs usual weight is about half a pound; it has been known

The Euroran stay more at some in interguinder from the sements own for the channes of benchmark or the flag. The personal lepth of includes a control of the whole the personal control of the whole the personal control of the operations in the control of the personal con

of Raypt, insurred the emmity of P. Clodius Pulcher, who, heing taken provider by the Cincian prates, sent to the king of Cyprus for money to pay his ransom. The king sent of Cyprus for morney to pay his ranom. The king sent a sum which was true listic. Clodius having recovered his liberty by other means, when he became tribune of the people obtained a decree to be passed for reducing Cyprus to a Roman province. Strabo, 694, and Dion, xxxviii. 30.) M. Cato was sent to take possession of it.
The king, on heaving of this design, put himself to death
before Cato's arrival. Cato seized upon the treasury,
which was well fixed, and sent a large booty to Rome. Cyprus thus became a Roman privince. On the divi-sion of the empire it fell to the lot of the Byzantine emperors, and after several recoverades became a separate principality under a transfer of the Commen. Temperor of England book it in 1.11, and soid it to the Tempiars, whose oppression drive the people to revolt. Richard resumed the sovereignty, and gave it to Gay of Lusignan, the expelled and it Jerusaem, n i.il. The Lusignans retained it for hear whare centures, which was a flourishing period & r Cyrris. J. on III of Lusiman died in 1458, leaving the sample in to Charlotte, his only legitimate child. was married her cousin Louis, Count if Geneva, second son of the duale of Sanly and f Anna of Cyrons. She was sciemnly or wheel at Letzista in 1400, but was soon after A times of E. or. James married Catharine C mark the interfer of a Veneral merchant who bedest time a lowery (c. . . o) not proten faculty. On this recussion the Venettan serva e niomei Calparine Cornari is fancinter of S. Moral and the murane was recovered in 14%. In with if we can the request of Venice assumed the gravitan-solution of the request of Venice assumed the gravitan-solution of the second was true sent to gravita the forms of the measure. The solution of while an original the second decrease that the second of the second of the second of in the second. In the course of the remarks, and a retire to Asia ness Fremes. There was a recommendation of the amount of the second of The strict with and the cut are to in a presence of the time. And the second of the Marketine Marketine and the second of the second of the second of the second Marketine of the second of the second Marketine of the second of the se when the second we will be the sends Masketing and the second of the second description of the second of the second description of the second descri the second of the property of the party of the the the transfer party of the transfer of the t the are in the series and the second present became of writer with any may be writer in the for british in the where the principle is the first the best section of accounting the contract of the principle is the principle in the principle is the principle in the princip the second section in the second of the second the state of the s · Sections in C के अंदर्भ के अर्थ के व्यवस्थात है जो रूप महत्त्व के the control of the second of t and are all the comments and security we have the There Bring the in a matter British

The same and the same of the same as the s the court was and the way of a super growing of the Secretary rose of a real rate of agreement of the The second secon

attendants, denominated ! square converses.' The ladies to whom the instruction of the pupils was confided were subject to a monastic rule, but our authority differs as to whether it was that of St. Benedict (Vaysse de Villiers) or St. Augustin (Prudhomme); the dress of the pupils was plain, without being monastic, and they did not use the monastic style of address, 'mother' and 'sister,' but 'madame,' with the name of the individual spoken to, as usual in society. On quitting the establishment they received a dowry of a thousand crowns. The buildings of the abbey designed by Jules Hardouin Mansard, the favoured architect of Louis XIV., and consisted of twelve principal piles of building, forming five courts, with extensive gardens attached. The buildings were commenced in 1665 and completed in a year; 2500 workmen were engaged in the work. Louis XIV. was in the habit of visiting Madame de Maintenon in a pavilion in the garden; and in the buildings of the institution the young ladies used to perform the 'Esther' of Racine, whose 'Athalie' was also written for them, though only performed by them twice, and that without dresses, and not in their theatre. Madame de Maintenon passed the close of her life at St. Cyr, and dying there a.p. 1719, was buried in the choir of the church, where a long contant in French and Latin was inscribed. where a long epitaph, in French and Latin, was inscribed to her praise.

This establishment was suppressed at the Revolution, and the buildings were at first devoted to the purpose of a military hospital, subsidiary to the Hôtel Royal of Paris. In 1814 Napoleon transferred hither the military school of Formand and the restored government of the Bourbors sanctioned the change. The gardens have been converted partly into parades for the pupils and partly into a sanction-randen. The establishment includes a governor of the rank of general, a lieutenant-governor of the rank of cia zel twenty-four professors, and a variety of other officers. The pupils amount to 350, part of whom are main-med by the government and part are at their own charge. They enter between the ages of sixteen and twenty, and sicil 140 leave the institution every year; some two years, and others three. (Dulaure, Histoire des Entre de Puris; Prudhomme, Dictionnaire Universel de

YRE'NA. [VENERIDE.]

CYRENA. [VENERIDE.]
CYRENA'ICA, a region of North Africa, comprehend-The country between the Great Syrtis and the Gulf of Pates, now Bomba. The western limits between Cyrenaes. and the Carthaginian dominions were fixed at the Philippine Are at the bottom of the Great Syrtis, and its cast to wards Egypt seem to have been about the Catatatimus Magnus. Cyrene, Teuchira, and Hesperis were the earliest Greek colonies. Barca was a colony of Cyrene, zixed with Libyan aborigines. Afterwards, under the Pioca ci Berenice, and the port of Barca became the city of Ptois man, and drew to it most of the inhabitants of Berca itself. The part of Cyrene, called Apollonia, became also an important awa. From these five cities, Cyrene, Apollonia, Piolewas now Prolometa, Arsinoe, and Berenice, the country was seecumes called Pentapolis. The interior was peopled by Livian tribes. There were also other towns mentioned as Litvan tobes eaving existed in this country in the Roman period, such as Darms. Hadriana, Neapolis, Thintis, &c.; but their site is well ascertained, except Darnis, which is believed to have been where Derna is now. This interesting region remany centuries unexplored by European travoices, until an Italian, Dr. Della Cella, in the service of the pacha of Tripoli, visited it in 1817. 'Viaggio da Imali di Barberia alle Frontiere Occidentali dell' Egitto,' Gen. 1819. The narrative is in a series of letters to a friend, and is written in a simple unpretending style. Dr. Della Cella's observations were made in haste, and w.: tout much opportunity for taking an accurate survey of the country. In 1821-2, Captain Beechey, R.N., and H. W. Beechey, explored the coast of the Pentapolis, as well as the ruins of Cyrene: 'Expedition to explore the North Coast of Africa from Tripoli castward, compressional and the country of the co acuding an Account of the greater Syrtis and Cyrenaica. and of the antient Cities composing the Pentapolis,' 4to., Lucion, 1828, with maps and plates, a most interesting week. Lastly, this country was visited by M. Pacho, a

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desiring by the Grown (Anglode) and the Marchale, comparing the Grown (Service) in about 10 february 11 (1997), and the Marchale Comparing the Corres (Groyn Inguised) (Toughted papers) of the Marchale Comparing the Corres (Grown Inguised) (Marchale Comparing the Corres (Grown Inguised)) (Marchale Comparing the Corres (Grown Inguised)) (Marchale Comparing the Corres) (Marchale Corres

as far as the eye can reach, and to the north after stratching about five miles, it descends abruptly to the sea. The slope of the lower ridge, which runs along the coast of Cyrenaica, is here thickly covered with wood. Its height is about 1000 fest, so that Cyrone is about 1800 feet above the sea, of which it commands an extensive view. The ledges or terraces of the upper ridge afforded room for roads or drives aweeping along the sides of the mountain, and the tracks of the chariot whoels are still impressed upon the rock. The remains of Cyrene occupy a vast extent of ground, but they have been sadly disfigured by the hand of man. Innumerable tombs, either built of stone or excavated in the rock, encircle the town, and are ranged on each side of the avenues leading to it. In some of these excavations puntings have been found in good preservation, represent-ing funeral games, lunting parties, several sketches of private life, and allegorical subjects. The costumes are beautifully rendered, and the colours very brilliant. Within the precincts of the antient town are the remains of a bath built of brick, of which some parts of the vaulted work are still left, some towers or forts, a very large hypogeum picturesquely situated on the extremity of the only grove that is found on the plateau, several large temples of the Doric order, two small excavated temples of the Roman period with Christian emblems, two theatres, an amphi-theatre, an aqueduct, but all sadly damaged; in fact, the whole of the existing remains are at present little more than one mass of ruins, and the tombs afford the most perfeet examples of Grecian art now remaining in Cyrene. quantity of prostrate columns, statues, capitals, rilievi, and inscriptions, are scattered about the ground, but the statues are mutilated, and many of them want their heads, which the Arabs have cut off. There are two copious springs, from one of which, supposed to be the fountain of Apollo, the water flows into a subterraneous channel, and then issues out on the other side of the mountain.

The country around Cyrene must have been in the time of its splendour a complete garden, and it is easy to conceive how the people of such a country became so much addicted to luxury and pleasure as they are reported to have been. Even now in its wild state the rich ochrish red soil, watered by rivulets gushing on every side, brings forth a rich vegetation which pierces the mossy rocks clothes the hills, extends in rich pastures, or develops itself in forests of dark juniper, green thaya, and pale olive trees. The modern name of the Cyrenaica, "Jebel Akhdar," i. e., "the green mountain," expressively indicates its rich and smiling aspect. (Pacho, Voyages dans la Marmarique et la

Cyrenaique.)

Cyrene appears to have gradually declined under the Romans as the maritime towns of the Pentapolis rose in importance. It afterwards suffered greatly, and was in a great measure runned during the dreadful insurrections of the Jews under the reigns of Trajan and Hadrian; the province was depopulated when Hadrian colonized it afresh, at which time it is probable that many of the buildings of Vrene were restored, for there is a variety of Greek and Roman style observable in them as well as in the sculptures. The John were at one time very numerous in Cyrenaica; they had settled in it in the time of the Ptolemies, and plintly resided at Herenice, where they formed a distinct

tuning and provided by two archors.

In the fluith century, Nynesius, bishop of Piolemais, one of the most chaptent of the early fathers, deployed the ruin and depopulation of Creene, besterod by the oppressions of the Hyzantine governors. It was in his time that Cyrone have the trought by an invasion of some barbarous hordes of the invester of Libra, whose women were armed as well as the mea, who destroyed all before them, and only spared the male children to recent their ranks. (Synesi Opera, p. 100 1 These of the inhabitints of Circus who escaped facility to begin at Photomate The terbarians besieged Ptoleturds in which beyon includ remained furthful to his flock, and they were reput ed. In the early part of the seventh century the Persians under Khosron Purveez, after over-tunning Except, invalid the Pentapolis and depopulated the complete. The Manuscus afterwards completed the work the country. The Managers afterwards completed the work of the Parisina, and the towns of the Parispolis have retunitual in tuins acces times. Now the nomade Arabs wander

is about twelve miles distant. The anteent road leading to it still remains. Apollonia lies at the bottom of an open bay, protected however by two small islands in front of the town. The town is ruined, but the greater part of the wall is standing, and there are remains of two Christian churches, the columns of which are of fine marble, of a basilica, a fort, &c. MM. Beecheys have given plans of Ptolemeta, Teuchira, Apollonia, and Cyrene, as well as of the modern towns of Bengazi and Derna. Pacho's Atlas gives many views and plans of the different monuments ...

Cyrene, Ptolemeta, &c.

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CYRENAICS, a school of philosophers among the Greeks, who derived their name from the birth-place of their founder Aristippus. Like the Cynics, their doctrines were a partial development of those of Socrates; but the view which they took of their predecessor's philosophy war quite different from the Cynical. [CYNICS.] The only particular in which the two sects agreed with the original system and with one another was that they all three made virtue consist in knowledge; in other words they were ull three attempts to awaken and develop the idea of science; but while the Cynics considered all sublunary enjoyment and most branches of knowledge as impediments to the knowledge, and consequently, according to Socrates, to the practice, of virtue, the Cyrenaics, on the other hand, were not contented with the mere knowledge of the good as a general term, but sought for it in the separate particulars, and deemed him to have performed his proper functions most consistently with his nature who had succeeded in amassing the greatest number of particular good things. In regard to the idea of science, they did not look upon it as a speculative conception, but as a merely empirical result, as the aggregation of successive experiences; in other words, not as an intuition but as a combination of perceptions; and while Plato, and in some measure the Cynics also, laced the summum bonum in the attainment, by means of dialectics, of the abstract idea of the good, the Cyrenacs placed it in the collection of the greatest number of agreeable perceptions, and the true philosopher, according to them, was one who actively, methodically, and successfully carried on the pursuit of pleasure. Consequently, as agreeable perceptions; were continually to be sought as good and the contrary to be avoided as bad in themselves, perception of sensible objects became the criterion of all knowledge and the object of all action, and therefore truth both the retical and practical. (Sextus Empir. adv. Mathematica, vii., § 191-200.) The chief successors of Aristippus were Theodorus, Hegesias, and Anniceris. Theodorus perceived the necessity for some principle, in addition to the marc collection of agreeable sensations; for without some effort of the understanding to determine which of many gratifica-tions was to be preferred, it would be impossible, he thought, to obtain the maximum of gratification; and he therefore set the understanding over the senses as a regulating and re straining faculty. He is said to have been banished from Athens for denying the existence of the gods. (Diog., Laërt., ii., § 97.) Hegesias, following in the steps of Theodorus, insisted still more than he did upon the inadequacy of the senses as the criteria of the desirable, and at last even went so far as to assert that nothing was in itself culture agreeable or the contrary, and that life and everything in life should be a matter of indifference to the wise man. this assertion of the principle of indifference he made an approach to the doctrines of Epicurus and the Stoics the point in which those two opposite systems met. Create tells us (Tuscul. Disput., i., c. 34) that his book cannot dποκαρτερών caused so many suicides that he was forbal! : by one of the Ptolemies to lecture on the worthlessness if life. In the philosophy of Anniceris and his followers: original principles of the Cyrenaics were quite lest, at I though he also, in a popular way, recommended the particular of the agreeable, he denied that it depended in ... way upon mere sensible impressions, for that the wise read might be happy in spite of all annoyances; that friendship way to be sought, not for the sake of any immediate advantage to be derived from it, but on account of the good-will which at generated; and that for a friend's sake a man should ex-counter even annoyances and troubles. (Diog. Lacrt. 11. § 96, 97.) These are the doctrines of a mere popular moraall Muses Nones, was the part of Cyrone, from which it

a wish is becomed from Hamostinia and Lovengon in the State Street the great object of their in the positive and settly should be great object of the great of the great and in resolution toward meaning and in great and great in the great object of the great of Lover the great of the great of the great of Lover the great of the great o



are think his barrowd Burn Lisemonnian and Lousquage are consistent of the control only in the the Unwarder of the control of

livered during Easter week to the neophytes, after baptism called mystagogic (μυσταγωγικά), being explanatory of the mysteries of the Christian sacraments: a treatise on words, and the letter to Constantius: besides which, several homilies and episties are sometimes improperly included. Rivetus, in his 'Criticus Sacer' (lib. iii. c. 8, 9, 10, de Cyrilli Catechesibus), considers the five Mystagogics, and letter to Constantius, as supposititious, but by Vossius, Cave, Mill, Whittaker, and bishop Bull, they are acknowledged as genuine. The books of Catecheses are crowded with quotations from scripture, and the style is dull and tiresomely prolix; but the facts they contain relating to the doctrines and discipline of the Eastern church in the fourth century are extremely interesting to the student of Christian antiquities. In the first Catechesis are described the effects of baptism. The fourth gives an exposition of all the Christian doctrines, and treats of numerous questions. concerning the body, soul, virginity, marriage, &c. The subsequent discourses exhibit and enjoin a belief in the miraculous virtues of the relics of saints, which are represented as worthy of all veneration; in the efficacy of prayers and sacrifices for the dead; in the powers of exercism, con-secrated unction, oil, and water. Christians are exhorted to cross themselves on every occasion and action throughout the day. The enthusiastic adoration of the cross displayed by St. Cyril was probably owing to his officiating in the church of the Holy Cross, in Jerusalem, where, after 'the Invention of the Cross, it was deposited in a silver case, and shown by the archibishop to thousands of pilgrims, who each took a little chip of it, without occasioning any diminution of its bulk; hence one of his proofs of the truth of the gospel history of the Crucifixion is the fact of the world being full of chips of the cross. A description of this cross is given by Dom Toutice, at the end of his edition of Cyril's works.

The doctrine of the uninterrupted and perpetual virginity of Mary is taught by Cyril. The state of virginity in ginity of Mary is taught by Cyril. Ine state or virginity in general is extolled as equal to that of angels; with an assurance that, in the day of judgment, the noblest crowns will be carried off by the virgins. The resurrection is proved and illustrated by the story of the Phænix, and it is remarkable that this fiction is regarded as a reality not only by St. Cyril, St. Clement, and other Christian bishops, but by many of the most learned and philosophic Gentiles. That Cyril's superstitious credulity and love of the marvellous was remarkably great, is very apparent: for instance, in describing the Descent into Hell, he declares that the doorkeepers of that place, on seeing Jesus, all ran away in a fright; and in his sixth Cate-chesis on Heresies, he says that Simon Magus, having, by the power of his magic, mounted up into the air in a flery chariot drawn by a pair of drugons, St. Peter and St. Paul, by their prayers, dissolved the enchantment, and Simon consequently fell to the ground and broke his bones. In the five Mystagogics are described the ceremonies which precede baptism; the anointing with oil the forehead, face, ears, and nose; the forms of exorcism, the holy chrism, confirmation, the eucharist, liturgy, and communion. The dogma of transubstantiation is most explicitly enforced: we are said to be made concorporeal and consanguineal with Christ, by his body and blood being distributed through our Very minute directions are given for the mode of receiving the eucharistic bread and wine: thus, put your left hand under your right cloow, making with your hol-lowed right hand a throne for the reception of the body of Christ, and closing your fingers lest a crumb be lost, which would be a greater misfortune than the loss of a limb, &c., then, having drunk of the cup of the blood, moisten the tip of your finger from your lips, and by touching, con-

secrate your eyes, cars, nose, &c.

For a list of editions of Cyril see Watt's Biblioth. Brit.; Mille's ed. of the Opera Omnia, Græce et Latine, fol., 1703, contains notes, three indices, and the various readings; but the editio optima is that by Augustus Touttée, a Maurist monk; Gr. et Lat. fol., 1720; (Lives of Saints, by the Rev. Alban Butler, vol. iii.; Dr. Adam Clarke's Succession Sac. Lit., vol. i.; Lardner, vol. iv.; Grodecius, Vita St. Cyrilli; Lives of Saints, vol. i. 4to. 1729.)

CYRIL, ST. (CYRILLUS), of Alexandria, was educated under his uncle Theophilus, the contentious bishop of Alexandria by whom St. (Physicalem was necessared and

CYRIL, ST. (CYRILLUS), of Alexandria, was educated under his uncle Theophilus, the contentious bishop of Alexandria, by whom St. Chrysostom was persecuted and deposed. On the death of Theophilus, A.D. 412, Cyril was so successful in the struggle which, on such occasions, always occurred at that time among the aspiring clergy,

that in three days after his uncle's decease he was elected patriarch, that is archbishop of Alexandria. His opier ... power was first displayed in shutting up and plundering it churches of the puritan sect founded by Novatian, wi said to have been consecrated a bishop by three epifriends whom he invited and made drunk for the purpulation (Pluquet, Dict. des Heres.) Cyril next exhibited his transpainst heretics by heading a furious mob of fanatics, we drove out all the numerous Jewish population from Alexander. dria, where, since the time of Alexander, its founder, they had enjoyed many privileges, and were politically important association on the public revenue. This arrogant procession therefore highly excited the anger of Orestes, the governorthe city, and made him henceforth the implacable opposes of the bishop, who, in the name of the Holy Trimity and G pels, in vain implored a reconciliation. In consequence of the enmity thus created, and of Cyril's resentment of the cheopposed to his ambitious encroachments on the jurisdicti. of the civil power, a murderous attack was made on the governor in his chariot by a band of 500 monks; and cr. who severely wounded him having suffered death on the rate. Cyril, in his church, pronounced a pompous eulogy over! body as that of a glorious martyr. (Soc., l. vii., c. 14.) By the philosopher Eunapius (Vita Adesii) these monks are not the monks are n scribed as swine in human form. The tragic story of Hypatia, the daughter of the mathematician Theory Alexandria, furnishes further evidence of the revendisposition of St. Cyril. This lady, whose wonderful about enabled her to preside over the Alexandrine school . Platonic philosophy, was the especial object of the bishop's envy and malice; not only because she far excelled h in the the depth and extent of her knowledge, which drew :.. ! lectures the greatest philosophers and statesmen, a. : crowd of students from Greece and Asia; but because, ir her intimacy with the governor and the great respected admiration he manifested towards her, Cyril and his citations suspected her influence in promoting the governor's favourable opinion of them. The consequent murder Hypatia is circumstantially related by several ecclesi. historians. (Socratos, l. vii., c. 13 and 15; Nicephorus, 1 x c. 16; Damascius, in Vita Isidori; Hesychius and Sur' Υπατία; Photius, Annot. ad Socrat., l. vii., c. 15.) In tive accounts it is stated that Cyril having vowed the destrict of this accomplished woman, a party of infuriated wretwhom Nicephorus (ubi supra) expressly declares to i been Cyril's clergy, led on by Peter, a preacher, seized her the street, and having dragged her into a church, comstripped her, tore her to pieces, carried the mangled it? ments of her body through the streets, and finally burnt to ashes, A.D. 415. (See Toland's Hypatia, or the Herrica) a most beautiful, virtuous, learned, and accomplishe! | who was torn to pieces by the Clergy of Alexand regratify the cruelty of their Archbishop, undeserved y St. Cyril, 8vo., 1730.)

The titles of 'Doctor of the Incarnation' and 'Charry.

The titles of 'Doctor of the Incarnation' and 'Chamilard' of the Virgin' have been given to this bishop on according to the Virgin' have been given to this bishop on according to the Virgin' of list long and tumultuous dispute with Nestorius, and Constantinople, who denied the mystery of the hypertunion, and contended that the Divinity cannot be borned woman—that the divine nature was not incarnate months at the divine nature was not incarnate months and therefore that Months are not entitled to the appellation then commonly use of 'Mother of God.' (Pluquet.) The condemnation and deposition of Nestorius having been decreed by 1' Celestine, Cyril was appointed his vicegerent to execute the sentence, for which he assembled and presided at a consecutive sentence, for which he assembled and presided at a consecutive sentence, for which he assembled and presided at a consecutive sentence, for which he assembled and presided at a consecutive sentence, for which he assembled and presided at a consecutive sentence, for which he assembled and presided at a consecutive sentence, for which he assembled and presided at a consecutive sentence, for which he sentence of Celestine, where they remained for some sine under retreatment. Cyril, by the influence of Celestine, which he retained until the death, a.d. 444.

andria, which he retained until its death, A.D. 444.

His works are numerous and chiefly on suconnected with the Arian surveys, the incarnationsubstantiality of the S.A. and similar difficult probable are involved in additional obscurity by an introperplexity of style and the use of barbaious Greek. I following are some of he principal treatises:—'Therefore on the Trinity,' pended as a complete refutation.' Arianism. In Discussion the Incarnation,' in Five books.

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Company of and we see appeal Communities of Mr. Community with a few parts and are destructed allowed. The backs for translations and are destructed allowed. The following community of the following community of the first engages. The community of the following community of the first engages. The community of the first engages are community of the following community of the first engages.

south for component. The space islandial the New Indicatory, a new coles being most only the other warm parts of the wirest. These are all Association in their forward has they are all the states of the Porcian Excussions. ANTRICE I. [Seryes, a Sounder of the Porcian Excussions, heavier a record shown in a 240. Even is the time of Heisen, dawn sho instant of Crype was on educated by lapsadary takes that the Hards could not be exercised through the Hards could not be exercised. The Hards of the States, 17 (27 st) the word University to the the Antribution of the States, 17 (27 st) the word University to the theory of the theory and the shown in the hard against the same and that name was probably associated by the origin of the same bases, a Particup and themselves, designate and Astronomy, king of Machine, the States of Machine, and the same bases, a Particup and the machine the officers of Astronomy, king of Machine, and the same sound of the States, he contained Cyrue the late all the same sould be such that the same particular of Astronomy, the same shall be such as a sum of the States, he contained Cyrue the late all the same shall be such shall some changes of with the recognition of roots of the States and to extend to the wave the other to the the same shall be such as a sum of the same shall were to the same shall be such as a sum of the same shall be such as a sum of the same shall be such that the

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born after the accession of his father. Cyrus was the favourite of his mother, Parysatis, and was indebted to her intercession with Artaxerxes for the preservation of his life after he had been charged with a conspiracy against the king. He was sent back to his government in the western provinces of Asia Minor, but did not relinquish his designs on Artaxerxes. Indignant at the disgrace he had suffered by being sentenced to death, he resolved, if possible, to de-throne his brother. The great difficulty was to raise a sufficient force without exciting his brother's suspicions. Clearchus, a Lacedæmonian general, undertook to raise a body of Greek troops for the purpose of making war on some Thracian tribes. Aristippus in Thessalia, and Prox-enus in Bœotia, raised troops for similar purposes and with a similar object. Artaxerxes had originally been apprized of the designs of Cyrus by Tissaphernes, but the cities which were in the government of Tissaphernes now all revolted to Cyrus, with the exception of Miletus. A war thus arising between Tissaphernes and Cyrus, gave Cyrus a pretext for openly collecting his forces, and even for soliciting the aid of the king, to whom he made heavy complaints of the conduct of Tissaphernes. Artaxerxes was thus blinded to the real aims of Cyrus, who explained his intentions to no Greek but Clearchus, lest they should be deterred from joining him by the boldness of the attempt. When his forces were all collected, he set out from Sardis, the seat of the Persian authority in Western Asia (B. C. 401), without the soldiers knowing any thing more of the objects of the expedition than that he was going to march against the Pisidians, who had infested his province. Tissaphernes however, with his characteristic cunning, saw that the preparations were much too great to be really intended against the Pisidians, and accordingly he went with all expedition to inform the king. Artaxerxes no sooner heard of the armament of Cyrus than he began to make preparations armament of Cyrus than he began to make preparations for opposing him. Cyrus in the mean time was continuing his march through the southern provinces of Asia Minor, passing through Celsense, Peltse, Thymbrium, Tyrseum, Iconium, and Dana, till he arrived at the foot of the Taurus, which he crossed and arrived at Tarsus. Here the Greeks refused to march any farther: they suspected that they were going against the king, and declared that they were hired for no such purpose. The tumult was partially appeased by the influence of Clearchus, who persuaded them to send deputies to Cyrus to inquire what was the real object of the expedition. Cyrus, by an artful evasion, which however was partly seen through by the soldiers, pretended that he had an enemy, Abrocomas, on the banks of the Euphrates, at the distance of a few days' march, and that he was advancing against him. A promise of half as much pay again as they had received before, induced them to proceed; but it was not till some time after that it was openly stated that they were going against the king. At last, on arriving at the plain of Cynaxa, in the province of Babylon, Cyrus found Artaxerxes ready to op-pose him with an immense army. Clearchus advised Cyrus not to expose his own person, but he rejected the counsel. As soon as the enemy approached, the Greeks attacked them with such vigour that the disorderly and ill assorted army of the king forthwith took to flight. While Arta-xerxes was preparing to attack in the flank, Cyrus advanced against him with a large body of horse, and with his own hand killed Artagerses, the captain of the king's guards, and routed the whole troop. Just at this moment, spying the king himself, and crying out, 'I see him,' he rushed forward and engaged with him in close combat. He killed his brother's horse and wounded the king himself. The king mounted another horse, but Cyrus attacked him again, and gave him another wound, and was in the act of giving him a third, when he himself was slain. The select guards and friends of Cyrus, not choosing to survive their master, killed themselves on his body. With the life of master, killed themselves on his body. With the life of Cyrus ended the cause in which he died, and the Greeks effected their retreat under the command of Xenophon and others. [Anabasis.] The whole expedition occupied fifteen months.

The character of Cyrus is highly eulogized by Xenophon (Anab. i. c. 9). In his childhood and youth he excelled all his companions in those pursuits which belonged to their rank: he was fond of war and hunting. His justice was conspicuous in all his conduct both public and private, and he never suffered the evil-doer to go unpunished. To those who deserved reward for services he was unbounded in his

munificence, and his friends received frequent tokens of his kind remembrance. On the whole it was the opinion of Xenophon that no individual had ever secured the affections of a greater number of men whether Greeks or others. According to a passage in Xenophon quoted by Cicero (De Senectute, c. 17), Cyrus was fond of agricultural and horticultural labours, and worked with his own hards. (Xenophon, Anabasis i.: Plutarch, Artaxerxes; Diodorus Siculus, xiv.)

CY'RUS, the name of several, Asiatic rivers, and apparently the same name as that of the Persian conqueror. The Cyrus, now the Kur, flows from the Caucasus into the Caspian Sea (Strab. Casaub., p. 501), and another river of the same name flowed past Pasargadas. (Strab. 729.)

CYSTI'NGIA (Zoology), a sub-genus of the natural group of Tunicata, established by Mr. W. S. Mac Leay, who

CYSTINGIA (Zoology), a sub-genus of the natural group of Tunicata, established by Mr. W. S. Mac Leay, when observes that it comes nearer to Boltema than to any other hitherto described, and that they may prove eventually to be only two subgenera, of which we want the intervening links to enable us to form an accurate notion of the genus to which they belong. The characters, however, adds Mr. Mac Leay, both internal and external, are so different from those given as generic by Savigny to Boltemia, that it is impossible to assign it to this group, which indeed has nothing in common with it but externally a pedicle, and internally composite tentacula.

Subgeneric Characters.—External. Body with a sulcoriaceous test, affixed by the summit to a very short
pedicle, which is in the same line with the two orifices.
The Branchial orifice quadrifid and lateral, the anal integular and terminal; both being so little prominent as not
to alter the form of the body. Anatomical.—Branch in
pouch membranaceous, indistinctly reticulated, and divided
into longitudinal folds. The tentacula of the branch al
orifice composite. Intestinal canal lateral. Stomach very
large, extending almost the whole length of the body.
Oraries two, composed of globular ova disposed in tree
racemes on each side of the body, with the branchial pour in
and stomach between them. (W. S. Mac Leay.) Example,
Cystingia Griffithsii.

Description.—Envelope semipellucid, yellowish. Months very thin, and provided near the branchial and analoration with a reticulation of circular muscles nearly at right angles to each other. Tentacula about 10 or 12, compressed and laminated like those of the genus Boltemia. Branchial pouch having its net-work exceedingly lax, meshes are gular and indistinct, but apparently simple, the nervores being nearly of the same size. The longitudinal folds of the branchias, or rather (owing to the singular position of them in this genus) their transverse folds, about 14 or 15 in number. Length of the body, half an inch. (W. S. M.—Leay.) Locality, Winter Island. Mr. Mac Leay, who has named the species after William Nelson Griffiths, Esq., who found only one specimen during the third voyage under Captain (now Sir Edward) Parry, gives the following details of its organization.

Respiratory System.—' The entrance of the branchial cavity is provided with a circular range of 10 or 12 unequal tentacula, which are composite or divided into lacinize at the extremity, which lacinize are again so minutely divided as to be almost plumate. The branchial pouch has about 14 folds, and its net-work is very indistinct and lax, the transverse nervures being perhaps the most visible, particularly towards the branchial orifice. The folds of the branchise are most easily seen on the inside of the branchial pouch.

Circulating System.—'The heart is situated horizontally between the lower part of the tunic and the stomach. It is large, ovoidal, and appears to be composed of several lobes, and is indeed of a structure different from that of such Ascididæ as are known.

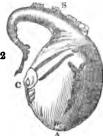
'The dorsal sulcus is remarkably distinct, and proceeds from the immediate vicinity of the heart, or rather along the back of it to that of the branchial orifice. It may be seen through the external envelope of the body, when this is viewed on the left side, and forms an arch inclosing a lesser and more pointed arch, which last appears to be nothing else than one of the folds of the branchial pouch. At the point where this last arch touches the dorsal sulcus, there is in our specimen an orifice opening internally, and apparently communicating by a tube with a beautifully diaphanous longitudinal pouch, which contains nothing but two blackish nodules, one of which is longer than the other.' The imperfection of the only specimen which Mr. Mac Leay had for examination prevented him from accurately ascertaining the nature and use of this part of the organ-

ization, which, he says, appears to have nothing similar to it in any of the other *Tunicata* hitherto observed.

Digestive System.—'The Pharynx is situated rather higher than the branchial orifice; and the asophagus, which is about half the length of the stomach, after descending to the highest part of the branchial vein, descends, and gives rise to a simple but enormous stomach, with very slight transverse striæ, and having a longitudinal division, marked somewhat deeply, and which runs almost the whole length of the body in a line between the base of the pedicle and the anal orifice. The intestine is exceedingly short, and apparently descending in a line with the stomach; the rectum is cylindrical, and anus simple. Such at least is the description of the digestive apparatus of this animal, if we give the name of pharynx to that end of the intestinal canal which opens into the branchial cavity, and the name of anus to that end of it which is free; and there is no doubt that such a description makes it an animal totally different from Boltenia, and in fact from all other species of Tethyæ, not only with respect to the singular form of the intestinal canal, but inasmuch as the branchial vein is thus placed, in relation to the pharynx, directly opposite to its position in all other animals of this group. I therefore am induced in some measure to suppose that there is a monstrous formation in the intestinal canal of the only specimen which I have had the means of examining; a supposition which must of course for the present throw doubt on any generic character which might be drawn from the above description of the intestinal canal. If indeed we could imagine that, were it not for some monstrosity of structure, the intestinal canal would communicate with the branchial cavity by that end which, from its being free, I have been obliged to consider the anus, then the whole of the internal organs of nutrition would have a situation analogous to that of those of Boltenia. For instance, there would then be a short cosophagus opening near the anal orifice of the envelope, an ascending stomach, a long curved intestine, and descending rectum, while the branchial vein and heart would take their usual situation in respect to the pharynx and stomach. We know moreover, from those memoirs of Savigny, to which I have in the course of this paper had occasion to refer, that the digestive organs of the *Tunicuta* are subject to analogous derangements, of which be has figured two remarkable examples in Cynthia Momus and Phallusia turcica. It appears indeed to be a consequence of the low rank of these animals in the scale of being, and of their simple organization, that the organs apparently most essential to their existence may undergo the greatest inversions without affecting their life; for the monstrous Cynthia Momus described by Savigny, as well as the Cystingia now under consideration, had its ovaries

Petropolitana, has described, under the name of Ascidia globularis, a species of this family, which he found during his Siberian journey plentiful on the shallow sandy shores of the Arctic Ocean. The description of Pallas, as Mr. Mac Leay remarks, is vague, and principally differs from the species now under consideration in the size and position of the apertures. It is therefore, Mr. Mac Leay adds, just possible that the species which Pallas describes as being of the size of a large cherry, and attached by a very short peduncle to the fine sand of those shores, the particles of which being agglutinated to its surface, make the animal appear rough, may be identical with Cystingia Griffithsii, which would be rather interesting in a geographical point of view; but if both the apertures of Pallas's species be truly terminal, and the position of the peduncle be truly indicated in the figure, it is not only a different species, but probably a very different genus.





Cvstingia Griffithsii.1

l, nat. size, seen on the right side; 2. magnified, seen on the left side; A. anal orifice; C. branchial orifice; S, grains of sand externally encrusting the thick end of the pedicle.

For an illustration of the interesting anatomical details, we must refer to Linn. Trans., vol. xiv., tab. 19, whence the figures and description are taken.

Mr. Griffiths's specimen was taken in Fox's Channel, and two specimens were obtained by the late expedition under Captain Sir John Ross, near Felix Harbour; but as these were abandoned with the rest of the collection, it is probable, as Captain James Ross observes, that the individual from which Mr. Mac Leay's description and drawings were taken is the only specimen ever brought to England.

CYTHE'RA. [CERIGO.]
CYTHER'BA. [VENERIDE.]
CYTHERI'NA. [BRANCHIOPODA, vol. v., p. 341.]
CYTINA'CE'B, a small natural order of Rhizanths, the type of which is Cytinus Hypocistis, a parasite found grow ing on the roots of certain kinds of Cistus in the south of France. Its stems are a few inches high, thick, succulent, reddish or yellowish, and covered by straight fleshy imbricated scales which are only abortive leaves. The flowers are nearly sessile, erect, arranged at the summit of the stem, yellowish and velvety on the outside. The fruit is baccate, inferior, leathery, divisible into eight polyspermous lobes. The inspissated uice is used in French phar-



[Cytinus Hypocistis.] Mr. Mac Leav observes that Pallas, in the Nova Acta female flower; 2, a section of the same, very much magnified; 3, a

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macy as a styptic, but it is not admitted with us. Along with this genus are associated the curious genus Hydnora, Cape of Good Hope, which looks like a great star of the Lycoperdon, Apodenthus, a minute parasite upon the branches of trees, and two other less known genera.

CYTISUS, a genus of hardy papilionaceous shrubs, natives almost exclusively of Europe and the temperate parts of Asia, bearing ternate leaves, and with one exception, C. purpureus, yellow flowers. The species are common ornaments of our gardens; the most remarkable are the two kinds of Laburnum, C. Laburnum and C. Alpinus: these two plants form small well-known trees, which in spring are loaded with their numerous bunches of yellow flowers. They have a handsome hard olive-green wood, well adapted for the purposes of the turner; both are natives of the Alps of Europe, and are much alike; but C. Alpinus has the broader and more shining leaves of the two, and is much the handsomer plant. It is not a little singular, that the seeds of these species, in an order of plants usually wholesome, are decidedly and dangerously poisonous, owing to the presence of the deleterious alkaline principle called Cytisine.

The Cytisus of Virgil was the Medicago arbores of botanists.

The Cytisus of Virgil was the Medicago arborea of botanists. CYTISUS SCOPA'RIUS, or BROOM, a shrub extremely common on uncultivated ground, heaths, &c., of most parts of Britain. The young tops or twigs when pruised, have an unpleasant odour, and a disagreeable nauseous taste. The seeds are emetic, and probably contain cytisine, an alkaloid found in the seeds of the Cytisus Laburnum, which possesses emetic, and, in large doses, poi-

sonous proporties.

Broom-tops boiled in water form a decoction which acts both on the bowels and kidneys. It is unquestionably a valuable diurctic, and many obstinate cases of dropsies have yielded to the use of this indigenous remedy which had resisted other means. Its diurctic properties may be increased by the addition of juniper berries and dandelion, to form the decoction, as now directed in the Pharmacopæis, and by adding to each dose, acctate, tartrate, or bitartrate

of potash.

CY'ZICUS (Κύζικος), an antient town of Asia Minor, built on an island in the Propontis near the coast of Mysia, which was joined to the main land by two bridges. An isthmus has gradually formed itself, and the island is become a peninsula. It is said to have been a Milesian colony, formed in the eighth century B.C. Strabo (Casaub. 675.) speaks of Cyzicus as worthy of being numbered antong the first cities of Asia for its size, beauty, and aplendour, and for the goodness of its laws. It became early allied to Rome, and remained faithful in its alliance. It withstood all the power of Mithridates who besieged it, and the brave resistance of the citizens gave time to L. Lucullus to come up with his army and drive him back into Pontus. The Romans, grateful for the fidelity of Cyzicus, not only respected its liberties, but gave it an increase of territory, which extended, according to Strabo, to the east, as far as the lake Dascylitis, and to the west, beyond the Æsepus into Troas as far as Adrasteis. To the south, it reached Miletopolis. The town of Cyzicus was built partly on the seacoast, and partly on a hill; its site has been described by Pococke and Sestini; there are some remains, and among others, an amphitheatre. On the same island, west of Cyzicus, was another Greek colony called Artace.



British Museum. Actual size. Bronze. Weight, 229 grains.

CZAR, or TZAR, the Russian title of the monarch of basses. Some have supposed it to be derived from Cæsar sar, but the Russians distinguish between Czar and which last they use for emperor. The sovereign sia styles himself also Autocrat of all the Russias.

It is only since the time of Peter the Great that the title of emperor has been given to him by the senate, and afterwards by the other courts of Europe. Before Peter's time, the sovereign of Russia was styled grand duke in European diplomacy. The consort of the czar is styled czarna. CZASLAU, a circle in the eastern part of the kingdom of Bohemia, bounded by the circles of Chrudim, Kaurzim, and

CZASIAU, a circle in the castern part of the kingdom of Bohemia, bounded by the circles of Chrudim, Kaurzim, and Tabor, and the margraviate of Moravia. Its area is about 1260 square miles, and it contains nine towns, Czaslau, Deutsch-Brod (4450 inhabitants), Kuttenberg (8000), Kank, Humpoletz, Chotiberg (2000), Przemislau (1400), Pollina (1800), and Golz-Jenikan, 33 market towns, and 840 villages. The population is about 234,260: in 1817 it was 187,120. The surface is undulating, with numerous levels, except on the side next Moravia, where it is mountainous. In the northernmost parts it is intersected by the Elbe, which is here increased by the Dobrava; and from west to east it is traversed by the Sazova. Much corn and that are raised; it yields timber, silver, iron, saltpetre, garnets, and other precious stones, &c.; and has woollen, cotton, paper, &c. manufactories.

CZASLAU, the chief town, lies in a fertile plain, in 49° 52′ N. lat. and 15° 25′ E. long. It is an antient town, has a collegiate church, embellished with the lothest steeple in Bohemia, a public school, manufactures of saltpetre, linens, &c. and it contains about 3400 inhabitants. The monument in memory of J. C. von Trocznow, more commonly called Ziska, the celebrated leader of the Hussites, who died in 1424, was once in the church, but all vestige

of it has been removed.

CZEGLE'D, a large market-town in the county of Perth in Hungary, and circle of Ketskemét, is the property of the established or Roman Catholic church. It lies in 47° 10' N. lat. and 19° 48' E. long., has a Roman Catholic and Protestant church, several handsome buildings, and contains about 13,050 inhabitants, 8500 of whom are Protestants and 4400 Roman Catholics. The country area, it is well cultivated, and produces much grain and a grequentity of common red wine. The breweries are considerable.

CZERNIGOF, or TSHERNIGOF, formerly part of the Ukraine, is at present one of the three governments of that part of the south of Russia in Europe which is called Little Russia. It lies between 50° 20' and 53° 20' N. iv. and 30° 10′ and 34° 40′ E. long. It is bounded by the governments of Mohilef, Smolensk, Orel, Kursk, Palina. Kief, and Minsk, and contains an area, according to Neumann, of about 27,000 square miles, which, however. Wichmann reduces as low as 20,920 and Arsenief to 19. The general character of the surface is a level, occasion in interrupted by hills, and rising into high land as it approaches the elevated banks of its south-west bounds. the Dnieper. With the exception of some sandy trac. the subsoil is sand or clay, which is well covered with rich loam, and presents a succession of luxuriant and land pasture lands. On the banks of the Dnieper, the chalk, slate, and clay alternate, but slate predominates. Most of the streams which water Czernigof empty there selves into the Dnieper, particularly the Desna, a reargable river, which enters the country in the north-cat from Orel, and traverses it nearly in its whole length and south-westerly direction. The waters of the Desna are recreased by those of the Snof, Ostre, Seim, and Sudost; the Sofda also flows through the northernmost, and the Trubesh through the southernmost districts. Czernie : abounds in small streams, and in natural sheets of wells, none however large enough to be called lakes; it !mineral springs, but they have not been brought into v.c. The climate is dry, mild, and salubrious; but the land ! of late years suffered from the inroads of locusts. Ac. culture and grazing constitute the principal pursuit of thinhabitants; corn of all kinds, particularly rye, barley, a oats, are grown, and the yearly produce is estimated three millions of quarters, of which upwards of two milliare consumed in the country itself. Hemp in large quartities, flax, tobacco, peas and beans, linseed, and hope, at also raised. Vegetables, melons, and the common of the country itself. of fruit are plentiful, but the grape does not ripen so ciently for wine. There is here a peculiarly fine species of the cherry, called Tsherasun, from which brandy and so great the cherry.

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bottom of the lake, especially of the funnels, is full of clefts and fissures, through which the water passes at forty different openings into subterranean caverns and channels, and reappears under the form of the Bistriza and Baronniza in the valley of Laibach. During the dry season, which gene-rally occurs in autumn, the bottom of the lake is covered with luxuriant herbage, which is made into hay. Only a very small portion of the lake however is susceptible of very small portion of the lake however is susceptible of cultivation; millet and buck-wheat are sown, which ripen in six weeks; but as the waters of the lake frequently do not subside for three, or even more years, the sowing and harvest are of course very irregular. In January, 1834, the waters left the lake, and did not return till March, 1835. During the interval grain and vegetables were sown and gathered, and cattle grazed on the bottom of the lake-an occurrence which, for the long cessation of the waters, is said to be unprecedented.

The lake abounds in fish, chiefly pike and the Cyprinus tinca, Lin.: they are caught in pits, at the rising of the lake, with drag and small hand-nets, and are sent alive to Lai-bach and other places, or dried. The lake is also frequented by numerous aquatic fowl, which, like the fishery, form an important means of subsistence to the inhabitants. In the environs of the lake, which are exceedingly picturesque, are nine villages, twenty churches, and two castles.

CZORTKOV, a county in the kingdom of Austrian Galicia, having Russia for its eastern boundary, and Moldavis and the Buckowine for its southern. Its area is about 1344 square miles; and its population, which was 149,488 in 1817, is at present upwards of 176,000. With the exception of a tract between the Pruth and Dniester, once part of the Buckowine, its surface is a uniform level, fertilized by the waters of the Sered, Striva, Dzurym, Dupa, and other rivers, and highly productive, particularly in most kinds of grain, tobacco, aniseed, and maize: there is abundance of timber; but the breeding of cattle is neglected. Wax and honey are made in great quantities. Manufacturing in-dustry is limited to coarse woollens. Zaleszczyky, an illdustry is limited to coarse woollens. Zaleszczyky, an ill-built place, but beautifully situated on the Dniester (in 48° 53' N. lat., and 25° 45' E. long.), is the chief town; it has a chapter-house, collegiate church, Protestant place of worship, monastery and head school: the population is about 5500, including about 3150 Jews. The second town is Czortkov, on the right bank of the Sered, with a castle, and government tobacco manufactory, a monastery, and about 2300 inhabitants; and the third town is Husiatyn, on the Podhorze, with an old castle, and about 1540 inhabitants, two-thirds of whom are Jews. Besides these, the circle contains 19 market-towns, and 242 villages.

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a nom mornes una Hindoo temples are "we must be used in many places are seen the in the are us now manufaced and the cannon serviced estates are mostly parcelled. the same and these are an arministries, and these are bert, Ramaghur, Narraingunge, Fur-122 A marnur stands on the east ... its mani nulet of the Ganges, in 3. ong. 23 miles south by west consistency stands on the west side of a the Section of the Local States south-east from the control of the Long. This toy. the terms of the terms than 15,000 souls, and is to a the comes maint haves if trade in Bengal. Said. the Name of the principal objects of the true. Name of the principal objects of the true. Name of the principal objects of the same govern it in the miner plant. On the opposite, or east so e s the more is a Mocammedan mosque, to which great numbers it leaveres resort from the neighbouring toy its to we wruth as insertibed as the foot-mark of the prophet of Moreon. Som ar feet-marks are shown in several other maces n India and impart a poculiar sanctity to the buildings in which they are placed. Furreedpore is situated on

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This pretty little bird is the Elotototl of the Mexicans. Hernandez says that it lives about the trees of the Tetzcocan mountains; that it is eatable; that it does not sing, and that therefore it is not kept in the houses of the inha-

DACTYL is the name of a metrical foot consisting of a long and two short syllables, as the Latin word littora; or of an accented syllable followed by two unaccented, as

DACTY'LICS. To this term belong all those metres which consist of a repetition of dactyls or equivalent feet. The long syllable may be the first in the line, as it is in the heroic verse of Homer; or it may be preceded by one or two short syllables. Thus the modern anapestic verse is strictly a dactylic metre, as—
'If he ha'd any fau'lts, he has le'ft us in dou'bt.'

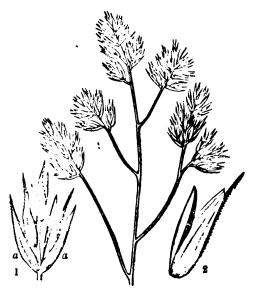
Of the dactylic metres the most common are the hexameter, which, as its name implies, consists of six feet [HEXA-METER], and the pentameter, of five feet.

The dactylic metre often alternates with trochaic mea

sures. Such is the case in the sapphic and alcaic stanzas.

DA'CTYLIS GLOMERA'TA, or Cocksfoot grass, is an extremely common plant in fields and waste places, growing and flowering during a great part of the summer. It has, in its wild state, a coarse bluish rough herbage, and a flower-stem about three feet high, divided at the point into a loose panicle, each of whose divisions bears a cluster of flowers at its end. The glumes are two, sharp-pointed, keeled, and rather unequal; they enclose from three to six florets, each of which consists of two rough-ribbed palex, the lower and outer of which is the broader, and tipped with a short bristle. In its uncultivated state this is a coarse hard grass; nevertheless, it is readily eaten by cattle, horses, and sheep: it strikes its roots to a considerable depth in the soil, and on this account is capable of enduring the drought of dry sandy exposed land. Hence, in such situations, where scarcely any other pasture can be procured, as in the naked brecks (or undulating downs) of Norfolk, it is of great value.

Mr. Sinclair assures us that Cocksfoot forms a part of the herbage of pastures most celebrated for fattening and keeping the largest quantity of stock in Devonshire, Lincolnshire, and the vale of Aylesbury; and he states that in the most skilfully managed of these pastures the foliage of the Cocksfoot was only to be distinguished by an experienced eye from the various species of fine pasture grasses with which it is combined. We would not however recommend any one laying down artificial grass to employ Cocksfoot, where other grasses can be made to succeed; for we have invariably found it overgrowing the sorts with which it was mixed, and forming coarse tuffs, which neither feeding nor moving have been able to keep down.



[Dactylis glomerata]

1, a si kelet much magnified; a,a, the glumes; 2, a floret with the paless.

DACTYLO'CERUS. [PHROSINE.]

DACTYLO'LOGY. The simple art of communicating ideas by spelling words with the fingers is called dactylology. The positions which the fingers are made to assume correspond to the alphabetic characters of a language, and the eries of alphabetic signs is perhaps better known under the name of the manual alphabet. The chief, and the most useful application of dactylology is in the instruction of the deaf and dumb. In the various institutions for this class of persons, dactylology is almost universally employed. The letters may be formed by the two hands, or with only one hand: a two-handed alphabet is used in the English institutions; on the continent of Europe, and in America, the one-handed alphabet is employed. Both these alphabets are represented in vol. ii., p. 500, of the Penny Magazine.' By reference to these engravings, it will be seen that either of them may be learned by an hour's practice: they are often taught to the deaf and dumb, in conjunction with the written alphabet, in a few days.

Dactylology must not be confounded with the natural language of the deaf and dumb, which is purely a language of mimic signs. We mention this because some persons have misunderstood the office and overrated the persons have inisinterstood the once and oversited the value of finger-talking; imagining that all deaf and durbersons naturally understand language, and converse with their fingers, and that, by acquiring the manual alphabet, they can communicate with them. Such persons should bear in mind that the deaf are shut out from all spoked languages; that before they can use or understand a written or spoken language, they must learn it; and that such an acquirement is made, under their disadvantages, by a very slow process. To the uninstructed deaf, dactylology ruseful as a means of communication between them a. their teacher; at first, in such select language as the put it understands, or as may be readily explained by mimic siches or other auxiliaries. As the pupil advances in the know ledge of words and their collocations, this mode of communication becomes more satisfactory, and at length he can use it to converse on all ordinary subjects with the accuracy of writing and with much greater rapidity.

Degérando has clearly and fully explained the use and value of this very simple art. (De l'Education des Sourch-Muets, Paris, 1827.) He says dactylology is to alphabeting what that is to speech. Formed upon writing as a second of the says dactylology is to alphabeting what that is to speech. model, it represents it precisely as writing represents war-But in this connexion between dactylology and writing, the reciprocal utility of the two orders of proceeding is at 1. . same time the reverse of what we have remarked in t. connexion between writing and speech. In fact, the eti. of dactylology consists in giving to writing that in ova-ableness which speech enjoys, and which the first loses: the fixedness of depicted characters. Dactylology is writed set free from its material dress, and from those conditions necessary for the employment of the pen or pencil; it carries with itself these instruments; it is thus ready in all familiar conversations; it affords help at all times and in it. places. It is thus that dactylology is little more than a tox for those who already possess, in speech, a means of communication more easy and more appropriate to all circuitstances. It is thus also that it becomes an essential resource to those who are deprived of speech, to whom it renders a portion of those advantages, supplying for them writing and giving it in some manner a new extension. However, dactylology is far from affording all the advantages of speech, while it loses a portion of those which are pe u': less rapid than speech; it is unfurnished with that it pression which belongs to the human voice—of that it it diversity which the soul finds within for pourtraying at: sentiments which affect it; it has nothing of that harmthat secret charm, that power of imitation of which site is so capable; its employment, besides, obliges the surject sion of all business and all action. On the other hand. has none of that durability which renders writing so favor able to the operations of reflection; it is not able to exh its signs but after a successive manner; it cannot present in composing, as writing does, those vast pictures which the inventive faculty embraces simultaneously, and subsequently surveys, in every sense, with perfect liberty. Dartylology shares in some of the inconveniences of specific and in some of those of writing; it is as fugitive as the firit is as complicated in its forms as the second. (Vol. pp. 259, 60.)
The manual alphabet has been employed as a medium . ... 259, 60.)

the mostic is contensed the minory-it. But we, care of the special property of the adjustment of monard diplosities in their minoral operation, and it come presents that he did not be such on a content and it come presents that he did not be such on a content and it come present that he did not be such on a content of the mile and make known the partie of make a method to the make it come in the partie of the mile and make known the partie of make a make to the partie of the make. It deproperty is also that a temperated materially of the mone, we have in the Material Makespan, or Borotroed, to the country of the second of the money of the material materials and the content of the materials and the partie of the function of the partie of the partie of the function of the parties of the function of the materials and the materials and function of the materials and the materials and the materials and function of the materials and the materials and function of the materials and materials.



times (t flink) is so distinct and plain in itself, so it not much explication, at least for the mode field are as distinct by their places as its middle extremes of a right line our make there. The

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The cipher is represented by the closed hand.



The thumb represents one, the other fingers being closed, the index-finger is added for two, the middle-finger is raised for three, the ring-finger is added for four, and the open hand represents five; the little finger alone is raised for six, the ring finger is added for seven, the middle-finger for eight, and the fore-finger is raised to the others for nine. Thus far for units. To indicate tens, the position of the hand is changed from perpendicular to horizontal; the thumb is pointed forwards for ten, the thumb and forefinger for twenty, and so on to ninety. Hundreds are pointed downwards; thus the thumb, fore-finger, and control downwards represent 300. If 572 middle-finger pointed downwards represent 300. be the number to be designated, three positions of the hand are required: the five fingers are pointed downwards for 500, the little-finger and ring-finger are pointed forwards for 70, and the thumb and fore-finger are held upright for two. During these changes the hand is kept in front of the body. To represent thousands, the left hand is placed across the body towards the right shoulder, and the signs which were used in front for units, in this situation, represent thousands; keeping the hand in the same situation and pointing forwards or downwards, tens of thousands or hundreds of thousands are exhibited. By changing the situation of the hand to the left shoulder, and by exhibiting the various positions of the fingers before described, millions, tens of millions, and hundreds of millions are expressed. The same pistions, upright, forwards, and d whwards exhibited in other situations may be applied to the expression of notations to any extent. Though rather complex in description, the while is most easy and comprehensive in operation. The superiority of this system of manual neture n for teaching anthmetic to the deaf and dumb, or for making signals of numbers where silence is necessary, compared with the clumsy resources of figuring the larges in the air, of repetitions of tens by the ten if good or even of indictiony signs, will be at once acknow-

DUCTYLOPORA. POLYPARIA MEMBRANACEA.]
DUCTYLO PTERUS (Lasipèlet a genus of fishes of the criter Alambispiere en and family Loricati. Generic expenses should have each large and long, and rising sold only from the murale, which is very short; inferior angle of the presoperation families with an elongated single source, open than without spines; mouth small; has familied with masses of minute conteal teeth; branches takes any number; some of the anterior rays of No diesal for free; subjectical rays numerous very long, and one econd by a membrane; ventral fins with four rays; holy covered with hard carmated scales.

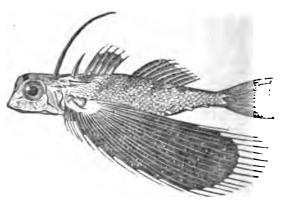
The fiche of this genus are classed with the gurnards; ther may however be readily distinguished from the typical or tree governed by the mannerse size of the pectoral fins.

It the time generals we observe three detached rays a most under the prevent few but springing from the service of the our present genes these rays are very numerous of the general connected by a membrane. By most is at the length of which is almost equal to that of the body of the animal, these fishes are entried to see any themselves in the air for several seconds, which has observed to exage from their enemies when pursued, but in apin my the waters to avoid their pursuers in that elements to be all a prey to the trigate back at I chairsone.

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The flying-gurnard (Dactylopterus volitans) varies from one foot to fifteen inches in length, and is of a brown colour above, with spots of a deeper tint: the sides of the body are red, and the under parts are of a pale rose-colour. The large pectoral fins are of a blackish tint, mottled and spotted with blue; the ventral and anal fins are of a rose-colour; the anterior dorsal is gray, with clouded markings of a deeper hue; the posterior dorsal is transparent, and its rays are of a pale colour, spotted with brown.



[Dactylopterus orientalis.]

DADO, a term for the die or plane face of a pedestal. The dado employed in the interiors of buildings is a continuous pedestal, with a plinth and base moulding and a cornice or dado moulding surmounting the die. This continuous pedestal, with its moulding, is constructed of wo i, and is usually about the height of a chair-back. Its present use is to protect the stucco-work or paper of the walls, but originally it was used as an architectural decoration to a room. The construction requires care in joining the deals of the dado, which are ploughed and tongued and keyed transversely at their backs, in order to prevent any joint from appearing in the die or plane surface. Some dados are pannelled.

DÆDA'LION. [FALCONIDÆ.]
DAFFODIL, the English name of Narcissus Pseudo-Narcissus and its allies, to which some recent botanists have

part of the Russian government of Georgia, the different tribes which inhabit the valleys on the eastern declarates of Mount Caucasus are governed by independent pettr sovereigns, but those which possess the low and halfs country towards the sea are dependent on the Russian government of Georgia, the different tribes which inhabit the valleys on the eastern declarates of Mount Caucasus are governed by independent pettr country towards the sea are dependent on the Russian governor. The term Daghestan means the mountainous country, from the Turkish word Dagh, a mountain [Georgia and Derberno.]

DAGHO, DAGOE, or DAGEN, an island at the cn trance of the gulf of Finland, about 41 miles long, and varying from 27 to 37 miles in breadth; in 59° 4′ to 59° N. lat., and from 22° 20′ to 23° 8′ E. long. It is comprehended in the Russian province of Reval, circle of Habsel, and is divided by a small channel from the island of Oesel. Its area is about 304 square miles: it contains three parishes. The inhabitants, about 10,000 in number, are Esthonians; they are employed in husbandry, grazing, fisheries, and carry on a little trade in the port of Tewenhaven, who lies on the eastern side of the island. The coasts abounding in shallows and sandbanks, a lighthouse has been erected near the village of Dagerort, in 38° 50′ N. lat., and 22° 40′ E. long. The Swedes, to whom the Danes ceed of Dagho in 1645, ceeded it in their turn to Russia under the treaty of Nystadt, in 1791.

DAGOBE'RT I., son of Clotarius II., succeeded him in

DAGOBE'RT I., son of Clotarius II., succeeded him in 628 in the Frankish monarchy. He gave his brother Cribert a part of Aquitania, with the city of Toulouse, b : Caribert dving in 630, Dagobert reunited the whole monarchy under his sceptre, and caused Chilperac, Caribert's eldest son, to be put to death. Boggis, another son of Caribert, was the head of the line of the dukes of Aquitaine, and of the counts of Armagnac. Dagobert sustained wars against the Saxons from England, the Vascones of the Pyrenecs.

the Bolkeomers, and the Brewers, and he shipped Policies!

the price of Reliability to plan in the shipsed that for the means of the house-live shipsed public the Brain they test reliage in American which Therefore the Brain they test reliage in American which Therefore the Brain they test reliage in American which Therefore the Brain they test reliage in American which there there are neglect to some about the computer payments for much be gave in elect the two from \$10 means and in each mile, which is reliable were put to the award I beginned as the first and brainfles were put to the award I beginned as the first and brainfles to the Meanwagen hangs and yet in the eld the little and three makes he is satisfied been flux Depoles. The published the laws of the Comits; he encouraged commerce, and general regulations for their purpose with the Ryamiting suppress of any law reads Vices his paymental residence. The occults and sole ideas of the court are established the financial and brainfless of the physician of Rice and the advanced remainer and gree also a sole tool performance and confidential remainer and gree also a sole tool performance and confidential remainer and gree also a sole tool performance and confidential remainer and gree also a sole tool performance and confidential remainer and gree also a sole tool performance and confidential distributions. DAGORKET Hay an affective Hay king af Amstracia, year arms are a contract of the finite of death, in a surface of the painter, state and the research has a state of the painter, and are any the reliable of the remaining and the report of his death was appeared in France. In Scattand his report of his death was appeared in France. To Scattand his particle and the reliable of Bloomers, and after the painter, and a size of Bloomers, and are not a Reliable of Theory 111.

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BATHALA a small group of Companies However of which troop spoons and one horizing the Corposite However of which troop spoons and to no horizing the parties. Of these blands, the companies flowers of Mexico. Of these lands to horize all porties in the formerly artificial of the remarks and the remarks like the property of the same of the contribution of the formerly artificial at the basis because one plane, even or night for high, with small a purple or blat downers, and is by no roopes remarkable beginned in was and form, and sparts into such scaling varieties in statum, leaves, and howers, that if has horized day the the in-boundary line and form, and sparts into such scaling varieties in statum, leaves, and flowers, that if has horized that the most occurry line are interesting but the flowers who have a suffernity and sparts into such scales of the such beauty beauty of the such in part of the property of the such that the horizon at the year. High are interesting the first plant of the property of the such property of the such that the manner of the such property is the manner beauty of the such that the manner of the such that manner belief to the such property of the such that of the property is a bring that the manner beauty is the branch that their manner of the such that the manner beauty is the manner than that community is a such to the such that community is a such to the such that community is a such

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Lawrence), a series who had been engaged for eighteen tworks on divinity, both in Latin and French, and especially leaves to be A to the late of the new total and the proposition of the most personal and nost powerful advocates of the Protestant doctrines in the otto, and is reprinted to the Protestant doctrines in the otto, and in the principal productions are:—1, "Trank de Protestant doctrines in the convergence, and the principal productions are:—1, "Trank de Protestant doctrines in the late of the Protestant des S. S. Pères pour le jugement des différents de Protestant, les convergences of the Protestant des and religion," Geneva, 1632, which was also published in Latin, with the title "De usu Patrum:" it is one of Daillé's des and accordance of an analysis of the son, Alicentary of the son and accordance of the Protestant decimals, 2, "De la croyance des Pères sur le fait des images: 3, "Adversus Latinorum traditionem de religiosis Latinorum." These three last works attempt to prove, that in the early the order and the track resented in the and with the first years of that of Actan state, and and statement Videous schools was and a tracker. Videous schools was measured for the two act for the tracker of the tracke the first a present at Tollian who had upon been twentyseven years as the winter. The communion of the hisfer of limiting for some years furfact is given in a little
box entitled of Volary to Africa with some account of
the Mariners and Costoms of the Distrimin People! by
Join M. Leod, M.D. amon Lordon, islo. Mr. Mileod
Voled only year of Africa in 18-7. At that time Distring
ship seems to have been a powerful state, and to have exerosed sovereignty over all that part of the clast of Guinea.
The rearmine state was a volumer and of Woodnoblew, the The religious sing was a younger sin of Wheel schew, the ender having been set uside because one of his ties over-larged amother. It movems, however, from the secounts of important and the Landers, that Dubomy has now been reduced to subsection by the neighbouring state of Yarriba; and it is probable that Yarriba in its turn very soon will be. if it it as not aiready seen, absorbed by the extending empire of the Fellatahs.

The region in which the king is m of Dah my is situated is a vaset pain rising by 1 very gentle ascent from the sea. No river worth notice has not the sea between the V.1 a and the Brass over, it Naper. The soil is a rich reliable charge, on which scarcely 1 stone is to be found if the highest a walnut. All was have visited the class especially Defere the devastations of the Duhamans, lescribe it as a scene if materies beauty and luxurance. An ample account of its regulable productions, comprising maize and Occident farmacious crips, yams, polaries, pine-apples, melons, ornariges, limes, pinaiss, and little triponal fruits; a singular firstiff said to possess the property of communicating a sweet trasses to the strangest actismid acters; induzo, cotton, sugar, t coaces pain it speed See may be found in the intro-Exection to Mr. De roi's book, to which may be added some movinces in Mr. M Leed's volume. The country abounds 🕳 in ugera lecraria ir mas elephants, buffalees, deer. 🛚 Showing 2 48. 2 38. hold wild and tame, and several varieties of from 25. It is also missied by box stakes of immense the same other knows of sevents. The government of Datacons is not at least formeric was as absolute a despetism and any time existed, and authority is main ained by Liter wheel it ig he he old at a rate which has been approached The same and a record at a rate which has been approached ago as to be at Arriva. The customs or festiones hold at the source of the annual receipt of the source of the same ferococcuty sanguinary area, every with a cross that have place at Ashortee. Their resource was a real so be in April or May, but instances the source of the same force and the source instances. a moneyard of worr lasting for three months, and the second they seem to be, a curlier in the year. The great or a near of the result resiliance is human skulls, of and a second with a number was wanted to pure a court or desome and the two we an unusual process to be a some some in the some masses of for the purpose. The purpose of forces with Dureny and the subwhich to the creatives it states; and since the abanhave a second of the extension of the property and the property and the control of the property and the prop powers which would be some to this part of Alice the comsaid in the word we which there kingdoms held with other I we is a to the training a consist of course shells of when a married a work of the regression half a crown Eng-We are the few me in the same with that of the people of

When the second section of the court in 1504, of a New York and the Characterist in 1504, of a New York and the characterist in 1504, of a New York and the Characterist in 1504, of a New York and the New York and more or one of the fewer Morous, the found of should have shutters sliding over them to open or shut mecording to the weather. The floor should be of stone or
paying tiles, sloping gently towards a drain to carry off the
water. Great care should be taken that no water stagnature

images: 3, 'Adversus Latinorum traditionem de religiosis cuides objecto;' 4, 'De cultibus religiosis Latinorum.' These three last works attempt to prove, that in the early or j.m.tive Christian church there was no religious worsh p p.1 to the hest, nor to relics, cross, images, &c. 5, 'De confirmatione et extrema unctione;' 6, 'De sacramentali size auriculari Latinorum Confessione,' Geneva, 1661. This 1818 a arreulari Latinorum concessione, Geneva, 1801. Anis last work puts forth the strongest arguments against the practice of auricular or private confession. [Confession] 7, 'De scriptis que sub Dionysii Arcopagite et Sancti Itmatii Antiocheni nominibus circumferuntur,' Geneva, 1818. Dailie looks upon the works attributed to Dionysius and Ignatius, of Antioch, as apocryphal. This, which is a wirk of much historical and critical learning, is dedicated to Samuel Bochart. 8, 'De pænis et satisfactionibus huminis.' He also wrote an apology of the reformed churches and numerous sermons, which have been collected in several volumes, and also Dernières heures de Dupleseis Manuay, Leyden, 1647. Daillé died at Paris in 1970. His son, Adrien Daillé, lest France at the revocation of the Elizi de Nantes, and retired to Zürich, where he wrote his

DAIRY, the name usually given to the place where the ax of cows is kept and converted into butter or cheese. The occupation is called dairying; and land which to chieff a propriated to feed cows for this purpose is called

a d iry-farm.

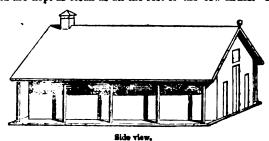
A dairy-house should be situated on a dry spot somewhat elevated, on the side of a gentle declivity, and on a porous soil. It should be on the west or north-west side of a hill if possible, or at least sheltered from the north, east, and south, by high trees. In some countries where there are natural caverns with an opening to the west, and springs of water at hand, the best and coolest dairies are thus prepared by nature. Artificial excavations in the sides of trusstone rocks are sometimes formed for the purpose of keeping milk, and more frequently wine. Where no such natural advantages exist, the requisite coolness in summer, and equal temperature in winter, which are essential in a good dairy, may be obtained by sinking the floor of the dairy some feet under ground, and forming an arched roof of stone or brick. In cold climates flues around the dairy are a great advantage in winter; and an ice-house in warm summers is equally useful. But these are only adapted to those dairies which are kept more as a luxure than as an object of profit. In mountainous countries, such as Switzerland, where the summers are hot in the valleys, and the tops of the mountains or high valleys between them are covered with fine pastures, the whole establish-ment of the dairy is removed to a higher and cooler atmosphere, where the best butter and cheese are made. Codness is also produced by the evaporation of water, an abundant supply of which is essential to every dairy. It is also a great advantage if a pure stream can be made to pass through the dairy, with a current of air to carry off any effluvia, and keep the air continually renewed.

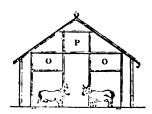
As the milk suffers more or less from being agitated, or too much cooled, before it is set for the cream to rise, the cow-house or milking-place should be as near as possible to the dairy, or rather it should be under the same root. The milk may then be brought immediately from the cows. without being exposed to the outer air. The dairy-house should consist of three distinct apartments below, with lotter and cheese-chambers above. The principal place is the dairy properly so called, sunk two or three feet below the level of the ground, with a stone or brick bench or table round three sides of it to hold the milk pans. This table will be a little below the level of the outer sail. Should be a little below the level of the outer soil. holes covered with wire should be made in the walls a little above, and on opposite sides of the dairy; and the walls should have shutters sliding over them to open or shut according to the weather. The floor should be of stone a :

the dairy, and not communicate with any sink, but run out into the open air: a declivity from the dairy is essential for this purpose. If this cannot be obtained, it must run into an open tank, and the water be regularly pumped out. The windows of the dairy should be latticed. windows may be added for the winter, but they should always be open except in very hot or very cold weather. There may be shutters to close entirely, but this is not essential. If the windows are made like venetian blinds, the light will be excluded without excluding the air. The utmost purity must be maintained in the air of a dairy; nothing should enter it that can produce the slightest smell. No cheese or rennet should be kept in it; and particularly no meat, dressed or undressed. Even the dairy-maid should avoid remaining longer in it than is necessary, and should at all

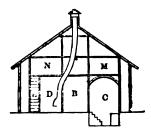
times be extremely clean in her person. The next important place is a kind of wash-house, in which there is a chimney where a large copper kettle hangs on a crane to heat water in, or milk when cheese is made. In countries where wood is scarce, and pit-coal is the common fuel, a copper may be set in brick-work with a grate under it, as is usual in England. In this place all the utensils of the dairy are kept, and scalded with boiling water every day. It should have an outer door, which may be to the south, and benches outside on which the pails and other utensils may be set to dry and be exposed to the air. Between the two last apartments may be another communicating with both, and forming a kind of vestibule, where the churning may take place; and over them a cheese room and lofts, or any other useful chambers. A verandah round the dairy is very convenient, or on three sides at least. It shades from the sun, and adds to the warmth in winter; and the utensils may be dried and aired under it even in rainy weather. Gentlemen's dairies are often built expensively, and highly ornamented; but they seldom unite all the conveniences essential to a good dairy, because the architects who plan them are seldom practical farmers. They are generally too far from the cow-houses, which might be joined to them without detracting from the neatness of the structure: A dairy-house placed near a mansion, and at a distance from the farm buildings, is quite out of its place. In Switzerland and in Holland, the cow-house and dairy often have a very neat appearance within a short distance from the principal residence. The plan in both countries is very similar; the style of the roof is the chief difference. It is taken from the common dairy-farms in Holland, where the farmer and his family live under the same roof with his cows. In the Netherlands, especially in North Holland and Friesland, a cow-house is as clean as any dwellinghouse, and the family often assemble and take their meals in it. The following description of a cow-house and dairy under one roof combines all that is useful, with considerable neatness internally and externally:—It is a building about sixty feet long by thirty wide, with a verandah running round three sides of it. The dwelling is not here attached, as it usually is in common dairies, and the building is not surrounded by a farm-yard: these are the only circumstances in which it differs from that of a common peasant. The dairy-room is sunk below the level of the soil, and is paved with brick. The sides are covered with Dutch tiles, and the arched roof with hard cement. The cow-house, like all in Holland, has a broad passage in the middle, and the cows stand with their heads towards this passage, which is paved with clinkers or bricks set on Their tails are towards the wall, along which runs a broad gutter sunk six or eight inches below the level of the place on which the cows stand. This gutter slopes towards a sink covered with an iron grate, which communicates by a broad arched drain with a vaulted tank into which all the liquid flows. The gutter is washed clean twice a day before the cows are milked. The cows stand or lie on a sloping brick floor, and have but a small quantity of litter allowed them, which is removed every day and carried to the dungbeap or to the pig-styes to be more fully converted into dung. Whenever the litter is removed, the bricks are swept clean; and in summer they are washed with water. In Holland the cows' tails are kept up by a cord tied to the end of them, which passes over a pulley with a weight at the other end, as we see practised with horses that have been nicked: thus they cannot hit themselves, or the person who milks them. The manner in which the cows are fastened is worthy of notice: - Two slight pillars of strong wood

in this drain, which must be kept as clean as the floor of | are placed perpendicularly about two feet distance from each other, so that the cow can readily pass her head be-tween them. On each of these is an iron ring, which runs freely up and down, and has a hook in its circumference. two small chains pass from these hooks to a leather strap, which buckles round the neck of the cow. Thus the cow can rise, and lie down, and move forward to take her food, which is placed in a low manger before the two pillars; but she cannot strike her neighbour with her horns. The mangers or troughs are of wood, or of bricks cemented together, and are kept as clean as all the rest of the cow-house. In

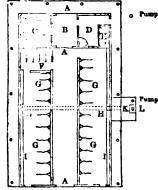




Section of the Cow-house,



Section of the Dairy.



Ground Plan.

A. A. A. passage through the cow-house and dairy ten feet wide, paved with bricks set on edge or Dutch clinkers. The food is brought in this passage in a small cart and distributed to the cows.

B. part of the above passage closed in with doors and forming a vestibule to the dairy; C. dairy-room, in which only milk, cream, and butter, are kept. It is sunk three feet under the level of the cow-house, and covered with a brick arch; it has one latticed window, and several ventilators, on a level with the place on which the milk vessels are set.

D. the room where the utensits are scalded, and where cheese is made; is one corner is a fireplace, with a large kettle or a copper set.

E. a stairs to go up to the cheese-room M, and loft N:

F. calf-pens, in which the calves are tied up to fatten, so that they cannot turn to lick themselves; a small trough with pounded chalk and sait in each pen.

pen.

G, the place for the cows, without partitions; each cow is tied to two posts by two small chains and two ison rings, which run on the posts. The chains are fastened to a broad leather strap, which is buckled round the neck o-each cow. H. H. two sinks, with iron gratings over them, to eatch the urine from the gutters I, I, which run all the length of the cow-house on each side, K, the urine tank, vaulted over with a door, L, to clean it out, and a pump to pump up the liquid manure. O, O, In the section, are places where the green food or roots are deposited for the day's consumption. P, a hay-loft.

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Switzerland the cow-houses are similar, but there is also a rack, the back of which towards the passage shuts up with a board on hinges. The Dutch mode supplies more light and air to the middle passage; and as the food is given frequently and in small quantities there is very little waste. The preceding cuts will give a tolerable idea of the whole arrangement. The food is brought in carts, which are driven at once between the cows. What is not wanted immediately is stored above, whence it is readily thrown down before the cows. Thus much trouble is saved and one man before the cows. Thus much trouble is saved, and one man can feed and attend to a great many cows. From November till May the cows never leave the cow-house. In summer when they are out, if they are in adjacent pastures, they are driven home to be milked, but if the pastures are far off, which is sometimes the case, they are milked there, and the milk is brought home in boats; but this is not thought so good for the butter, which is then always churned from the whole milk, without letting the cream rise. The finest and best flavoured butter is always made from the cream as fresh as possible; and to make it rise well, the milk should be set as soon as it is milked, and agitated as little as possible. The greatest quantity is seldom obtained when the quality is the finest. When great attention is paid to the quality, the milk is skimmed about six hours after it is set; and the cream taken off is churned by itseif. The next skimming makes inferior butter. These particulars are mentioned to show the necessity there is of having the dairy as near as possible to the cow-house.

The utensils of the dairy, such as pails, churns, vats, &c., are usually made of white wood, and are easily kept clean by scalding and scouring. Leaden troughs are used in large dairies; and if they are kept very clean by careful scouring, they answer the purpose better than wood. They may be so constructed that the mik may be let off gently before the cream, which is collected by itself. This saves all the trouble of skimming. Brass pans have the advantage of being read,'y warnied on a chafing dish in winter. In Devoishire iin or briss pans are frequently used instead of earthenware. Although there is some dan-ger in the use of briss utensils, very little attention will deviate it. It may requires that they should be kept bright in which case the similest speck of trade or vertigits would be perceptible. In H.Can't the milk is invariably earned in brass vessels. | Cast-trin pans have been invented, which are tinned inside. They are economical: but there is nothing better or neater than well-glazed white crockery ware, of the common coal form. Some recommend un-glazed pans for summen, but they are difficult to keep sweet as the milk instrumes used into the pores, and is

apt to become sour there.

The most common use of cows is to supply butter and cheese Burresaund Carress, in Leoneumes it fatten calves Cour die the butther; but the most produble darry is that which surplies large trans with mile. In these duries the system is i ferent. The cows are mostly kept in stalls, and fed with feed brought to them. Sime durymen near Leroten possess several autofred cows and the arrangement of their establishments is worthy if notice. The cows are bought chie is in the nor he before or after they have enhald They are seldem allowed to go to the built but are kept as long as they can be made to give much by good feeding. When they are dry, they are effect already sufficiently far. for sale, or at all events they seen fatten, and are sold to the barelor. A succession of come is thus kept up new ones arriving as others are sold off. The women who puronce arriving as octors are sout out. The women was purchase the in the three three and early if about for said come for it to the dark and in the the cows twice a distinct of the wolf know that the last drop of in the is the refer the come are sure to be to decide to decide. consist at the second attended to the first of the former words Mila peak a make in a specified or a solution to the hours of my of each mounts ages a pay to been get policy produced a second of the second of th had conserved to discuss the man of the and a forward here we had a good way on the here was my more than the case of grante and a control was the properties when the end of the planted close of an early here is a grant of proceed close of control with a few modes which will be a control with the world close of the end of the the first a same a regular of the region of the same for dets.

The first a same arranged with with the force that the principal table was always placed upon a decis, 12

they cannot gore each other with their horns. The great dairies about London are kept very clean; but the liquid manure, which would be so valuable for the market-gardens, is lost, and runs off by the sewers. In Belgium the urine would be contracted for at the rate of 21. per cow per annum, which would produce 1200% a year in a dairy of 600 cow, and would pay a good interest for the money expended in constructing large vaulted cisterns under each cow-house.

The dairy farms of England are chiefly in Gloucester-shire, Devonshire, and Cheshire. They require a smaller capital than arable farms of the same extent; the chief outlay is the purchase of cows. The rent of good grass land is generally higher than if it were converted to arable land and the risk from seasons, and from a variation in the price of the produce, is much less in a dairy farm than in one where corn is chiefly cultivated. Hence the rents are better paid, and there are fewer failures among the tenants, but the profits of a dairy farm, without any arable land, are not considerable; a decent livelihood for the farmer and his family is all that can be expected. There is no chance of profit in a dairy of which the farmer or his wife are not the immediate managers. The attention required to minute particulars can only be expected in those whose profit depends upon it. The dairies of men of fortune may be arranged on the best and most convenient plan, and be ind .pensable articles of luxury; but the produce consumed has always cost much more than it could be purchased for. A proper attention to keeping correct accounts of every expense will convince any one of this truth. In a dairy farm the great difficulty is to feed the cows in winter. It is usually so arranged, that the cows shall be dry at the time when food is most scarce, and they are then kept on inferior hay, or straw, if it can be procured. It is a great improvement in a dairy farm if it has as much arable land attached to it as will employ one plough, especially if the soil be inght; but the mode of cultivating this farm must vary from that of other farms, since the food raised for the cows unsat be a principal object. Corn is a secondary object; and the callivation of nots and grasses must occupy a great portion ordination of roots and grasses must occupy a great restriction from the grasses degenerate, a crop or two of corn is taken, and the rotation is chiefly roots, corn, and grass cut for hay, until it wears out. If the roots are wall manured, the land keeps in excellent heart. The old 1.55-tures are kept for summer feeding. Where there is 100 arable land near a dairy farm, it deserves mature consideration whether it will be advantageous or not to allow some of the pasture to be ploughed up. It is often a danger us experiment where the soil is naturally heavy, which is the case with most dairy farms in England. Arable land ladi down to grass for the purpose of the dairy seldom produces fine-flavoured butter, or good cheese; but clover-hay is evcellent for young stock, or to fatten off the old cows. Lucern is reckoned to make cows give very good milk. nothing however can equal a rich old pasture, as all dairy men agree.

In hiring a dairy farm, it is an object of great unportance that the buildings be situated near the centre of the land, and that they be well constructed and convenient. The nature of the feed must be ascertained by experience. It is often impossible to say by mere inspection whether a pasture will make good butter or cheese, especially the latter. But those which have no great reputation man latter. often be highly improved by draining, and also by weeding, a thing too much neglected in pastures.

DAIS or DEIS, a word which occurs very frequently in

old English authors; as in Chaucer, Prologue to the Canterbury Tales, v. 372.

## Wel semed eche of hem a fayre burgels, To atten in a gilde halle, on the deis.

Tyrwhitt apprehends that it originally signified tile weeden floor (Fr. d'ais, Lat. de assibus) which was laid at the upper end of the hall, as we still see it in college-hail. and in most, if not all, of those of the city companies : 1 Lordon and those belonging to the inns of court. That part of the room being floored with planks was called the was the rest being either the bare ground, or, at best, pared with stone; and being raised above the level of the other parts, it was called the high deis. In royal has some were more deises than one. Christine of Pisa (H. S. Cha. V., P. iii., c. 33) says that at a dinner which Charles V. of France gave to the emperor Charles IV. in 1377, the no

Parallall, in Hanauser's Hanause Policy, or Justice to the theory trees, 44.1.

DALAI LAMA. In the article Bungma it is noticed, an e-mini point in the faith of the Buddhist, that of the death of the founder of their seet, his soul because immediately resembled in the person of another the manufalled in the person of another the same fluidhed continued to reappear among a follower in a marrisalism of spiritual rulers, who have yourse writers very appropriately been rolled Buddhist structs. From the time when the last of these patracreis unled India and look he stocke in China (i.e., towards at the fifth sentury of our array, we hear of mumber one spiritual objet, subscribate to the patriarch, against of the fifth sentury of our array, we hear of mumber one spiritual objet, subscribate to the patriarch, against at the same time in the external countries in which haddhism has become the providing religion. Chinese statements who mention of them under the homorine applications of Presents of the Kingdom. Prince of the arth. It were a toward of the Kingdom. Prince of the arth. It were a toward of the market of Buddhist countries at the foundation of an horaverhied system, which is expectly developed itself to an extent without a partial factor of the could contain a few horaverhies of the Patth of the developed itself to an extent without a partial factor, in comparative absorptive if the source of the Patth of the could be compared to the country of the countries of the Patth of the could be compared to the countries of the Patth of the could be compared to the countries of the Patth of the could be compared to the countries of the countries of the Patth of the could be compared to the countries of the patth of the countries. It is presented to the countries the pattern of the p

Learns, by a motional above at words, to be colled fined a design people were send to at at the dose instead of at the labor of the labor. So, at "Matthew Vered 17th, 16th, p. 1976. Please, greatering and the labor of the labor in the labor. So, at "Matthew Vered 17th, 16th, p. 1976. Please, greatering and the labor of the labor in the labor. So, at "Matthew Vered 17th, 16th, p. 1976. Please, greatering and the labor of the labor interference in the labor of the so enterpy, whose mattherity has lest hair management of the so enterpy has evidently rendominal draw with the labor of the so enterpy, has evidently rendominal draw with the labor of the son of the labor of

the borders of Gestrikland that plains of any extent secur.

Like the other parts of Sweden, Dalecarin abounds with rivers and lakes. The principal river is the Daleff, which ariginates in two powerful branches on the mountain-range forming the western boundary. The Oester Daleff runs south-east, and after traversing the Lake Silian unites with the Wister Daleff, which originates a little forther south, and in the beginning is called Folkelf. It runs south-east, but near Apolto if turns anddeals in the east, and continues in that direction to its junction with the Oesterelf. The united river Daleff runs south-east to Avested, and honce north-east to its entrance into the Gulf of Rotheria. Aboutair or seven rules from its mouth it forms the current of Elfearieby, the rival of the fonours entranct of fischoffhausen in height and beauty. The Lake folian is from twenty-seven to twenty-eight naive long, and affine broad, where widest. It mutains several fine islands, on one of which is a church. The Lake Runn is about ton rules long, and five wide.

The winter in this province is long and severe, the summer short and hot. Wheat does not proceed, but two and larley are raised though both frequently suffer from the carry night-fired in automas. The agricultural problem does not most the demands of the scarry population, and the tender bark of pines is mixed with the broad, and also used as fedder for cattle and hogs. The cultivation of polatoes is rep dly more targe.

The most domestic amounts are retred, but here are

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as the Lubercure, the ment sentimen memorian in the manner decisions. The Mannessymb longite methods are the supplied and the sentiments. The Mannessymb longite methods are the supplied and the sentiments in Hall and Laurer they are full of laurer they are full of laurer they are the sentiments in the presenting method and the sentiments in the presenting method and the sentiments of the sentent of the sentiments of the se

professed by at least four-fifths of the people. The ecclesiastical establishment consists of the archbishop of Zara and the 5 bishops of Spalatro, Ragusa, Sebenico, Lesina with Lissa, and Brazza and Cattara: they have under them 378 cures of souls, 60 monasteries, and 9 nunneries. The inhabitants, who profess the Greek faith, are in church-matters subordinate to a bishop resident at Sebenico and the vicar-general at Cattaro, under whom are 11 monasteries and 119 benefice

Dalmatia is divided into the following circles:-

	Area.	Number of Inhabit- ants.	Districts.	Towns.
	8q. M.			
Zara	2121	114,000	7	Zara, cap of Dalmatia, 7900 in- habitants; Sebenice, 4000; Scordona, 1200.
Spalatro or }	2656	133,000	10	Spalatro, cap., 7300; Trau or Troghic, 2900; Macarsea, 1200.
Ragusa Cattaro	588 378	41,000 32,000	6 3	Ragusa, cap., 5000; Cursola, 6200. Cattaro, cap., 2600.
	5743	320,000	26	

The circle of Zara comprises the Quarneric, Dalmatian, and Culadic islands; that of Spalatro, the islands of Zirona Grande, Bua, Solta, Lissa, Brazza, and Lesina; and that of Ragusa, the islands of Calamotta, Meleda, Lagosta, Cur-

zola, and Pelagosa Maggiore. Dalmatia contains 9 municipal towns, 14 market-towns, and 988 villages, and about 63,500 houses. The will of the sovereign is the law of the land, and there is no representative body or provincial states as in the native dominions of Austria; but certain districts and towns have been allowed to retain the rights and privileges which they possessed when under the dominion of the republic of Venice. Poglizza alone, a mountain district of about 16,000 or 17,000 souls, including several Hungarian and Bosnian nobles, in the circle of Spalatro, is so far independent that it elects its Gran Conte, or governor, and its local elders and magistrates, in the general assembly of the people called Zdor, which is held every year in the plains of Gatta. Every male is a soldier, and the district pays a tribute in lieu of taxes. The general administration of affairs in Dalmatia is vested in the Gubernium or government-board established at Zara, which receives its instructions from the Chancery and minister of the Home Department in Vienna. Each circle is divided into districts; each district into 'Haupt-gemeinden,' or head communities; and each of the latter consists of 'Unter-gemeinden,' or subordinate communities. At the head of each circle, in civil matters, is a 'Pretoria;' of each head community, a 'Podesta,' or 'Sandako;' and of each subordinate com-munity, a 'Capo-villa,' or 'Casnazzo.'

The revenues of Dalmatia arise from the imperial domains, which yield about 10,000% per annum; the regalia, which include the monopoly of salt, about 25,000l.; the direct taxes, about 39,000l.; and the indirect taxes, about 21,000%: altogether about 95,000% a year. Von Lichtenstern estimates the expenditure, exclusive of the military establishments, at about 72,900l. per annum. Dalmatia furnishes four battalions of Sharpshooters for the imperial

service.

The manufacturing industry of this country is very small, and scarcely adequate to supply its common wants: shipbuilding and the distillery of spirits, among which the liqueur called Maraschino-Rosoglio has obtained European colority. Here and there a little flax and cotton are spun, and small quantities of woollen cloth, coverlids, house linen, sand quantities of woohen cloth, covering, house inten, tape, and coarse cottons, twine, cordage, and nettings, soap, vinegar, leather, and hats are made. For every other article of necessity or comfort Dalmatia is dependent on other countries. 'There is clay,' says Blumenbach, 'but no potter; quartz, but no glass-work; timber, but no carregular; time, but no kiln; coals but no mine; irm, but no kiln; coals but no mine; irm, but no penter; lime, but no kiln; coals, but no mine; iron, but no furnace; akins, but no leather-maker; and rags, but no paper-mill. To this hour the hand-mill is universally used. What must be the state of a country of which even a native can thus write!

Favoured as Dalmatia is by its situation and numerous ports, its commerce is comparatively small. The prin-

vinces of Austris, Italy, and Turkey. To the first two countries it exports wine, olives, oils, brandy, figs. salt, pitch, bark, salted fish, hides, wool, wax, honey, fruit, &cc.. and to Turkey the same products, besides foreign produce and manufactures. It has also some transit trade. Its returns from Turkey consist of horned and fatted cattle. cheese, wools and hides, corn, wood for fuel, drugs, &c.
Dalmatia is not included with the other Austrian possessions. sions under its onerous system of customs-imports, and its trade is therefore almost unshackled. The Dalmatians are well known in the Adriatic and Mediterranean as excellent mariners, and possess between 2900 and 3000 vessels of their own, varying in burthen from 40 to 500 tons: the r

best ships are constructed along the coast of Cattaro.

The Austrians found the country in a wretched state of ignorance, for the Venetians had done nothing whatever for its intellectual improvement. But the present govern. ment has commenced the good work by making pecuniary grants for the establishment of schools for the lower order. and for encouraging the clergy to give instruction to their flocks. A normal seminary and school for girls have been opened at Zara; national schools of a superior class have been established at Spalatro, Macarsca, Ragusa, Cattaro, Sebenico, and Lesina, independently of the schools attached to the convents. And for the more affluent classes, gympasia layer been instituted in Zara Scalatro, and Record nasia have been instituted in Zara, Spalatro, and Raguea. and a lyceum or species of university at Zara, in which town there are likewise an occlesiastical semmary, an obstetrical school, and a college for educating 37 pupils at 11. public expense. The benevolent institutions are as vet confined to the hospitals and foundling asylums at Zara. Sebenico, Spalatro, Lesina, and Cattaro, and the infirman

at Ragusa

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Dalmatia derives its name from the Dalmatine, a small district between Sebenico and Scordona. Its territory in former days was much more extensive than at present. The Dalmatians long resisted the Romans, but Augustus brought them under the Roman dominion. (Strab., p. 315.) After the fall of the western empire, the country be prey to the Goths and Avari successively, and the latter main-tained possession of it until the beginning of the seventh century, when they were driven out by swarms of Sclavonians. This people erected it into an independent sorereignty, which endured until overthrown by Ladislaus, king of Hungary, in the early part of the eleventh century: the monarch annexed the whole of it, the maritime towns only excepted, to the dominion of the Magyars. These townsamong which was Zara, the most important of them, had long been under the special protection of Venice, which availed itself of the connexion to extend its sway over other parts of the country, and bring the greater part of Dalmatia under subjection. That portion which lay on the right bank of the Zermanya, and which Hungary retained, lost the name of Dalmatia altogether; and the same occurred with regard to the portion which forms part of Bosnia, and fell into the hands of the Turks, by whom it was erected into the sandshak of Hersek. The Austrians acquired the Venetian part of Dalmatia in 1798 under the

treaty of Campo Formio. (Blumenbach; Austrian Encyclopædia; Von Lichtenstern; Hassel; Stein; Roprer, &c.)
DALRYMPLE FAMILY. The surname of this familia is derived from the lands of Dalrymple, in the shire of Ayr, of which, in remote times, the chief of the house was proprietor. The family appears to have been of importance very early, for in the reign of King Robert III., Duncan Dalrumpill had a charter of the office of Toscheodorach tor principal executive officer of the crown) in Nithsdale; and

in 1462 James de Dalrymple was clerieus regis.

The lands of Stair, whence the viscounty and earldom are derived, came into the family by William de Dalrympic. who became possessed of them in the middle of the fifteenth century by his marriage with his relation, Agnes Kennedi, heiress of the estate. The son of these parties married a daughter of Sir John Chalmers, of Gadgirth, in the same shire, whose first ancestor had held the high office of chambers, the same shire, whose first ancestor had held the high office of chambers. berlain of Scotland; and in lineal descent from him was

berlain of Scotland; and in lineal descent from min was James de Dalrymple of Stair, who married Janet, daughter of Kennedy of Knockdaw, and by her had JAMES DALEYMPLE, first viscount Stair. He was born in May, 1619, at Dummurchie, in the parish of Barr. county of Ayr, and lost his father before he had attained his fifth year. At that tender age he was left under the guardianchin of his mother who survived has husband pal countries with which it trades are the maritime pro- the guardianship of his mother, who survived her husband

the second of Meanthin, whose, as the says illumps, whose is the second of Meanthin share, it was conserved in the callege of Hamps, whose is the second of 
provide of Participants. This ordy advantage was acquired at the subsect of Microfide, whence, at the age of martion reach in was conserved to the college of file-gave where, polaron of chooky to be studied, by a similar theorem and quantified immediate the experimental A.M. in 1822. He less realized in a proposed of the control in martine to the control in the college of the subsect of the control in the college of the subsect of the control in the college of the subsect of the control of the control in the subsect of the control of the co

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II come promise a fire remain. Man Compared Senters . me armodet a e artisen . I . in over smith a diseasonwest is so hair, and one of eacher are a shirt, stiration Strate of the s or etale & Care ha de minutes . The server's excitenties and the motificate of the committee of the commit THE PROPERTY OF THE PROPERTY OF STREET WITHOUT AND THE PROPERTY OF THE PROPERTY OF STREET OF STR and the second of the second the second in were a meternal world to the contraction a stel com militare desir lest-The series of the series of th The relation of the agreement of the residence. we will state that profit it as to the time a second HE OF STORE PERSONS TO US OFFICE PROPERTY STORES " lates I gen om le later de lec'he reneres S Liver, I receive an about the I liver meets and the late of the that I is a martie suggest of the crisions in the itta is istratiment il le li sone. The ina CHIMICAL I IN THE H ASSESSMENT TO BE SHOWN INCOME. To concerne and I have a his late I haden e mineral of the administrative trease i de laire paralle i main into de puer emiles de servicies de maio mun 186 depuents de des into como municipal. ren transer de reministra (n. 1812). Lea vira escribuent to stronger to the large range and in the meson of marginary. . The Title Unit an Alexand Sauffers

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The second of the first V wount Stair was Sir was Sir word a King San, so reased in the 5th November, North the san quentied ordenineste of Scotland is the first of the year. On Stewart's death, to a see the a specimen ord misora's, and continued No. 14 about he was succeeded by Robert Dundas, the comment of the second that the second the folto he also a Chan of the Faculty of Advoby his wife, peared in 1778; and the third in 1780. The next year he

are Correspon Hameston, daughter of the sixth earl of fault bet at the atnex of a nu merous family.

The rates if these was the relebrated judge and an-

MURT

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or Day'n Dazarweg, better known by his titular semination of Lord Halles. He was born at Edinburgh n be 19th Getoner, 1725, and after acquiring the ruledante if he education in his native place, was sent to can. where, with a competent degree of learning, he mither that tassient taste, and partiality for the manners and metoms of England, which destinguished the subscient errors of using. From Etch he returned to Edn strong whence, uter rassing through the usual course at he inversity here, he was sent to Utrecht to study the and me in me return in 1745, he prepared for the sec. and messed survoyate on the 24th February, 1745. atter existent cars if molessional life, he was raised to e offer i me interior of leasure and ten years afterwards a vice uses. In the resignation of Lord Coalston, to whose one magner be was narried in October, 1763, appointed a rel I sate mary. As a parise, his accuracy, diligence, and domine were minerally conspicuous; but it is on the menter neist i iterary next that his great fame rests.

error nerror if no numerous appears to have been serror nerror of translations and parasurance rom errouse, by various authors, Edinb., 1751. In ters was the Wistom of Solumon, and the Book of The same year he wrote in The World's a und me next year No. 204, in wh h For the re numbered Select Discourses, by John Smith, 77. 10 reminished, with notes, A Discourse 7:107 THE t the anatural and vile Conspiracy attempted upon the niz or me Eart of Gowry. In the month of October, Dinitar and North Berwick, and pillaged by the country cor.e. Fir David published a Sermon, from Acts xxviu. 2. - The paroamus people showed us no little kindness." Tag we reminished from the press of Foulis, of Glasgow, Memorials and Letters relating to the history of Britain in me reign at James L, of England, with a preface and notes. From the same press, in 1765, he published the works of the wer memoranie Mr. John Hailes, of Eton, in 3 vols.; ar i me same verr it Edinburgh the first specimen of a back emitted. Ane compenious booke of Godly and Spiritual Sings. The year tollowing he published. Memorials and Latters resume to the history of Britain in the reign of harves I., from the originals collected by Woodrow; an Account of the Preservation of Charles II. after the Tatte of Worcester, drawn up by himself; and the Secret Correspondence between Sir Robert Cecil and James VI. he next year he published a catalogue of the lerds of session from the institution of the court, with historical refers and the following year. The private correspon-ience of Sistop Atterbury and his friends in 1725. In 1789 he published first, An Examination of some the arguments for the high antiquity of the Regium Maiestatem, and an inquiry into the authenticity of the Leges Maicoim: 'Historical Memoirs concerning the provincial councils of the Scottish clergy, from the earliest account to the zera of the Reformation'; and third. Canons of the Church of Scotland, drawn up in the provincial councils held at Perth in the years 1242 and 1269. And in 1770 he published some antient Scottish poems from MSS., with a number of curious notes and a glossary. H s next performance was the additional case of Elizabeth, claiming the title of Countess of Sutherland: a singular, able paper, which was subscribed by Alexander Wedderburn, afterwards Lord Chancellor of England, and Sir Adam Ferguson, but well known to be the work of Lord Hailes. In 1773, Sir David published Remarks on the history of Scotland; and in 1776, 'Letters from Hubert Languet to Sir Philip Sydney.' This last year also he published his of Scotland, from the time of Malcolm Canmere to King Robert I.'; 'Tables of the succession of the Sec: Kings' during the same period; and in 1779, his ' Annais of Scotland, from the accession of Bruce to the accession of the House of Stuart.' In the above year, 1776, he published another work of great erudition; namely, 'An account of the Martyrs of Smyrna and Lyons in the second century,' with notes. This was intended as the first vol. of Remails of Christian Antiquity; the second vol. of that work appublished 'Gotavius,' a dialogue by Mesteue Minucius Felix, with notes and illustrations; and the year following, the treatese, by Lectantius, of the manner in which the persecutors died, illustrated in like manner by various notes. In 1763 appeared his disquisitions concerning the antiquity of the Christian Church; and in 1786, an inquiry into the secondary causes which Mr. Gibbon has assigned for the rapid growth of Christianity. After this followed some biographical aketches, in separate works, and at different times, but all intended as a specimen of a Biographia Sectica. In 1788 he published from MSS, the epinious of Sarah, duches of Mariborough; and in 1790, a trustation of the address of O. Septim. Tertulius to Scapula Tertullus, proconsul of Africa, with notes, to illustrate the state of the church in early times.

This was the last work which Lord Hailes lived to publish. On the 29th November, 1762, he expired, in the sixty-sixth year of his age, the baronetcy, for want of male issue, descending to his nephew, James, eldett son of John Dal-rymple, Req., some time load provide of Edinburgh, who was brother of Sir David, and also brother of ALEKANDER DALEYMPLE, the hydrographer. He was born

ALEXANDER DALESSEELE, the hydrographer. He was born at New Halles, the seat of his father, Sir James Dalrymple, Bart., on the 24th July, 1737, and was the seventh sen of a family of sixteen shillnen, all of whom he survived. His scholastic education was very limited, partly from the troubles of the times, and partly from the early death of his father; and when searce sixteen years of age, he went abroad as a writer in the East India Company's service. Owing to his deficiency in the ordinary branches of learning, he was, on his arrival in India, placed under the storekeeper; but at length, through the kindness of friends, he was removed to the secretary's office, Lord Pigot himself giving him some lessons in writing, and Mr. Orme, the historian, instruction in accounts.

In the records of the secretary's office he found certain papers on the subject of a commerce with the Eastern Ar-chipelago; and so interested in the subject did he become, that contrary to Lord Pigot's advice, he refused the secre-taryship, and determined on a veyage among the eastern islands. He now also made himself master of the Spanish language by his own efforts, as he had a short time before done in regard to the French. In the course of the voyage he concluded a commercial treaty with the sultan of Scoloo; but not long afterwards the political affairs of that place were altogether changed, and no beneficial effects resulted from the enterprise. He subsequently returned to Socios, and re-established a friendly understanding between the inhabitants and the company; but unfavourable circumstances again intervened to prevent the results which were arricipated, and his exertions in England, whither he afterwards came on the same matter, were equally unfortunate. He appears indeed to have been peculiarly exposed to the influence of an adverse fortune; for besides the instances already given, he had, when in England in 1776, been proy the earl of Egmont, on the urgent recommendation of Lord Howe, to be appointed hydrographer to the admiralty, with a salary of 500% a year, and afterwards of being employed on an expedition of discovery to the South seas, and on a mission to observe the transit of Venus; but from various causes he received none of these appointments At length, in 1769, the Court of Directors voted him 5000%. for his past services, equivalent to the emoluments of secre-tary at Madras, which he had relinquished in 1759 to pro-

ceed on the eastern voyage.

From the time of his return to England, in 1765, he employed himself in collecting materials for a full exposition of the importance of the Eastern islands and South seas; and the Court of Directors, satisfied of the important information he possessed, employed him to draw up several charts of the eastern seas, which were published under their authority.

On Lord Pigot's appointment to be governor of Fort St. George, in 1775, Dalrymple was reinstated in the service of the East India Company, and went out to Madras as a member of council and one of the committee of circuit; but in 1777 he was recalled, with others, under a resolution of the general court, to have their conduct inquired into, though nothing appears to have been done thereupon. Two years afterwards he was appointed hydrographer to the East India Company; and in 1795, when the admiralty at last established the like office, it was given to Dalrymple. This place he retained till 1868. In May of that year the admiralty insisted on his resignation on the ground of superannuation,

and it certainly appears that he exhibited symptoms of decayed faculties and an irritable habit. He refused to resign however, upon which they dismissed him from the place; and on the 19th of the following month he died, it is said from versation, in the seventy-first year of his age.

He left a large library, and rich particularly in works on navigation and geography, a few of which were purchased by the admiralty, and the remainder were sold by auction. His own works amount to about sixty in number; many of them undoubtedly valuable, but some also of a merely personal and transitory character. A list of them is appended to a memoir of the author, furnished by himself, in the 'European Magazine' for November and December, 1802.

DAMAGES (old French damage, Latin damas), in law, signifies the compensation that is given by the jury (or assessed by the court) to the plaintiff or demandant for the wrong the defendant has done to him. The word is taken in the law in two several significations; the one properly and generally, the other strictly and relatively. Preperly, as it is in cases where damages are founded upon the statute 2 Henry IV. and 8 Henry VI. c. 9, where costs are included within this word damages; for damage, in its proper and general signification, is said (though improperly) to come from a demendo, when a thing by diminution is made worse; and in this sense costs of suit are damages to the plaintiff, for by them his substance is diminished. But when the plaintiff declares the wrong done to him, to the damage of such a sum, this is to be taken relatively for the wrong which is passed before the writ brought, and cannot extend to costs of suit, which are future and of another nature. (Cowel's Interpreter.)

At common law damages were recoverable in personal

and mixed actions, but not in real actions, because, says Sir Ed. Coke, in his commentary on the statute of Gloucester, 6 Edward I. e. i., ' the court could not give the demandant that which he demanded not, and the demandant in real actions demanded no damages, neither by writ nor count." Till the right to the land was determined, the party could Till the right to the land was determined, the party could not be said to suffer wrong; but after the recovery, damages might be laid in a personal action; but by the above statute damages and costs are made recoverable in certain real actions, as in 'Dower,' 'Entry sur disseisin,' &c. But such actions were, strictly speaking, mixed, though they were usually denominated real. Though all real actions have been recently abolished, the right to land being now have been recently abolished, the right to land being now triable in all cases by ejectment, it was necessary to refer to them to explain the nature of damages. In ordinary cases, where the title to land is in dispute, the damages are merely nominal, the actual damage sustained by the detention of the property being recovered in an action of trespass for the mesne profits, except only in ejectment by a landlord against a tenant, where damages in the nature of mesne profits may be given by statute I George IV. c. 87, § 2. In all actions which sound in damages (i. e., where compensation for wrong is sought), as assumpsit, &c., the amount of the damages is determined by the jury, though they cannot give more than the amount laid in the declara-tion. In actions of debt the plaintiff seeks to recover a specific sum, and not a compensation in damages; the damages therefore for the detention of the debt are generally merely nominal, except in those cases where, by the recent alterations in the law, the jury is empowered to give

Where the parties have stipulated for a liquidated sum to be paid as damages, the jury are bound to give the full amount of that sum; but where they have stipulated merely for a penalty to be paid [Penalty], the jury may give less, or if the parties do not proceed for the penalty, they may give more. There are several cases in which double and treble damages are given by statute. If the damages given be excessive, the court will sometimes grant a new trial, but not so if they be too small; at least it is very unusual to do so, except in actions on mere money demands or on inquisitions. (Co. Litt.: Tidd. Prant)

so, except in actions on more more, sitions. (Co., Litt.; Tidd., Pract.)

DAMASCE'NUS, JOANNES, was born at Damascus towards the end of the seventh or the beginning of the eighth century of our æra. His father, Sergius, a wealthy Christian of Syria, was councillor to the caliph, and at his death John succeeded him in the same office. His father had given him for preceptor a monk named Cosmas, whom he had redeemed from slavery. About A.D. 728 he wrote several tracts in defence of image worship against the Iconoclasts, who were then favoured by the Emperor

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Leo the Issurian. A legendary story is told of Leo having forged a treasonable letter from John to himself, which he contrived should come into the hands of the caliph, who sentenced John to have his right hand cut off, when the severed hand was restored to the arm by a miracle. About that time however John withdrew from the caliph's court to the monastery of St. Saba, near Jerusalem, where he passed the remainder of his life in ascette practices and study. His numerous philosophical and theological works place him annong the most distinguished writers of the Eastern church in the eighth century. His principal work is an exposition of 'the orthodox faith,' or Christian doctrines, in four books, which unites the two systems of scholastic and dogmatic theology, the former being by ratiocination, according to the Aristotelian or scholastic method, and the second by the authority of the Scriptures and the fathers. This work attained great reputation in the Greek church, and the author was styled Chrysorrhoas, or 'Goldenflowing,' on account of his eloquence. He promoted the study of Aristotle, and wrote various popular tracts, in which he collected and illustrated that philosopher's principles. He wrote also letters and treatises against heretics, especially against the Manichæans and Nestorians. His principal works have been published by Lequien, 'Opera J. Damasceni,' Paris and Venice, 1748, 2 vols. fol.

DAMASCE'NUS, NICOLA'US, a philosopher and his-

DAMASCE'NUS, NICOLA'US, a philosopher and historian of the age of Augustus, and the friend of Herod the Great, tetrarch of Judga, is mentioned by Josephus, Athensus, Rusebius, and others. He wrote various works in Greek, and among them one on universal history, in 144 books, of which we have some fragments, 'N. Damasceni Historiarum Rxcerpta et Fragmenta quæ supersunt,' 8vo., Leipzig. 1804; and again in Paris, 1805, edited by D. Coray. DAMASCUS, a city of Syria, and the capital of an im-

portant Pashalik of Asiatic Turkey, is situated in a fertile plain at the east base of the Antilibanus ridge, about 150 miles south Ly west of Aleppo, in 33° 27' N. lat., and 36° 25' R. long. It is one of the most antient towns in the 25' R. long. world, being mentioned as existing in the time of Abraham. (Genesis xiv. and xv.) Its antient name was Damesk, but the present natives call it Scham, which is also the name Syria, and sometimes Scham Shereef, i. e., 'the noble.' It is one of the very few places which have maintained a flourishing existence in all ages. Though often taken and devastated, it has always risen again, and has always been mentioned as one of the most delightful situations in the world. It appears to have been in the time of David or of Solomon (1 Ai 25 xi. 24) the capital of an independent king-dom, which afterwards under the name of the kingdom of Syria, was engaged in wars with the Jews. It was subsequently annexed to the empire of Assyria, afterwards to that of Persia; it then fell into the hands of the Macedonians, the Romans and lastly of the Arabians, a.n. 634, when it was taken by the Leutenants of the caliph Abu-bekr after the defeat of the forces of the emperor Herachus in its neighbourhood I: became for a time the residence of the neighbourness. It occame for a time the residence of the ear plus, and after other viersitudes was taken by the Turks under Sultan Seinn. In the late war between the Porte and Mohemet Ali, pasha of Egypt, Damascus was taken by the troops of the latter, to whom it was formally ceded by the sultan by the ponce of 1833. The Pashalik of Dames Atlanda from month to south from Harnah on the maseus extends from north to south, from Hamah on the Quantes down to the descris of Arabia Petres, south-east of the Doad Sea, a length of about four degrees of latitude; and it comprehends the country of Haouran, and the other districts on the east side of the Jordan and the Dead Sea, besides the greater part of Judica west of the Jordan, including Jornsalem and Nablons. To the east it is bounded by descris, which divide it from the valley of the Euphrates, to the much by the Pashalik of Aleppo, and to the west by the Pashalik of Acre.

The view of Damascus from the neighbouring mountain of Padersch, an offset of the Antilibanus to the north-west of the arty, is very impressive; it comprises the town, with its terminates domes and intracts, the extensive woods, orthogonal domes and intracts, the extensive woods, orthogonal domes and intractions with which it is surrounded, clothed in actually territors have hard beyond it the vast white strotching to the cost farther than the eye can still internate to the south east by the distant mound if homes. The river Barrady and other streams thing from the mountains furnish the city and the of Damascus with a constant supply of water, which withests into numerous canals for irrigation, and is

the main cause of the extraordinary fertility of the country. The town is about six miles in circumference, is surrounded by old brick walls falling to ruin in several places, and is said to contain, according to Buckingham and Richardson, about 150,000 inhabitants; but according to others above 200,000, of whom 12,000 are Christians, and about as many Jews. The rest are Mohammedan Syrians, Araba, and Turks. The native Mohammedans have long had the reputation of being the most fanatical and intolerant in Turkey; but Dr. Richardson's account of them, and the reception which he and the rest of Lord Belmore's party met with, does not confirm this bad report of the Damascenes. (Richardson's Travels along the Mediterranean and parts adjacent, in company with the Earl of Belmore, in 1816-18.)

Sectzen, who visited Damascus in 1806, gave also rather a favourable account of the inhabitants. There is a Franciscan convent long established in the city, and the Greek patriarch of the church of Antioch usually resides there. When Dr. Richardson visited Damascus, Lord and Lady Belmore lodged at the French consul's, who appeared to live in perfect comfort and security in the midst of this fanatical population. A frightful insurrection however took place some years after, ostensibly on the news of an English onsul coming to reside in the city, but the real source of the tumult appears to have been a long-brooding discontent at the weak and oppressive rule of the Porte and its pushas. Since that time, the pasha of Egypt and his son Ibrahim have enforced strict order and rational tolerance in Damas cus, and the English consul-general and English merchants, in their Frank costume, live in and walk about the town in perfect safety. (Dr. Hogg, Visit to Jerusalem, Alexandria, and Damascus, 2 vols. 8vo., 1835; Michaud et Poujoulat, Correspondance d'Orient, 1833-35.) M. Poujoulat himself. who was much alarmed on entering the gates at hearing some fellow proposing to burn him as a Frank, yet honestly says, 'I could cite evidence greatly in favour of the Damascene Mussulmans. A Greek Catholic, who has had commercial relations with them for years, told me that he never had occasion to complain of them. I myself have frequently met Mussulmans in Christian houses, who treated me with great kindness. I cannot speak of the lower orders and the population of the suburbs, who probably resemble the same classes in most great cities.' The same writer gives the following statistical list:—'They reckon at Damascus 129 tanners' shops, 22 establishments for printing stuffs, 75 dyers of stuffs, 120 dyers of silk, 34 houses of silk-winders, 748 merchants of damask cloth, 211 grocers, 68 tobacco manufacturers, 72 saddlers, 11 tent merchants, 47 copper-smiths, 50 ironmongers, 54 farriers, 70 fur merchants, 98 lacemen, 24 corn-merchants, 148 bakers, 58 millers, 122 coffeehouses, 32 confectioners, 59 public baths, 129 butchers, 71 tailors, 43 shops for pipes, 6 watchmakers, 200 haberdashers' stores, 4 glass-manufactories, 19 armourers, 4 soap-factories, 143 weavers, and more than 400 public cooks." The manufacture of Damascus blades, once so famous, has declined long since: but good sabres are still made. Saddles and bridles, both rich and highly finished; fine cabinetwork, inlaid with ivory and mother-of-pearl, and rich jewel-lery, are among the articles of Damascene industry. 'The shopkeepers of Damascus,' says Dr. Richardson, 'are generally clean and well-dressed, very comfortable in their apearance, and extremely civil to strangers. The bazaars are better lighted, and have a more elegant appearance than those of Cairo or Constantinople. Every class of commodities has its own street or bazaar: in one they sell nothing but shoes, another is occupied by the goldsmiths,' &c. The town is well supplied with ice; and ice-water, mixed with the juice of figs or currants, is sold and drank in profusion. The best coffeehouses of Damascus are situated in the skirts of the town, on the edge of that branch of the river Barrady which supplies the gardens; they are built of wood, and are cool and well shaded from the sun, which is their chief attraction. The streets are narrow, and many of them have a gloomy dilapidated appearance, being lined by dead brick-walls, with small mean-looking doors here and there, which open into the courts of the respective houses, which are not seen from the streets. Many of these houses are splendid in their interior, the courts being paved with marble and refreshed by fountains, with arcades and divans around. There are no carriages at Damascus, and but few carts; camels, horses, mules, and donkeys constituting the means of carriage or conveyance. The great khan is a sumptuous building, the masonry being formed of alternate layers of



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in the state is the head town of a prefectship or province. The state of sastwards along the banks of lake Menzale a a rest area in the borders of the Syrian desert.
Lad? (HCKE, Mining.)
Lade-ER, WILLIAM, was born in 1652, of a Son. :-

eremine minimity; he went early to sea, served in the wir Fig. 12 Diven, and afterwards became overseer of a manner in Jamaica. He thence went to the B.y. f He kept a journal of his adventures at l -- -- rate ns on that coast, which was afterwards published, V vizzs to the Bay of Campeachy,' London, 1729, with a Trustise on Winds and Tides:' Dampier, besides being a ... i seaman, had also studied navigation as a science. 1677 he joined a party of buccaneers, with whom he crossed the Isthmus of Durien, and having embarked in canoes and ther small cruft on the Pacific ocean, they captured seven! Scanish vessels, in which they cruised along the out of Sounish America, waging a war of extermination both by sea and land against the subjects of Spain. [Breek-NEERS. In 1634 Dampier sailed again from Virginia v. a mother expedition, which doubled Cape Horn and cr. - 1 nong the coasts of Chile, Peru, and Mexico, making a reliations upon the Spaniards. From the coast of Maxima they steered the the East Indies, touched at New Halland. and after several adventures in the Indian Seas, Dam; : vent in shore at Benevillen, from whence he found his way mes to Engrand in 1631, when he published his 'V yage round the World, a most interesting account, and which intracted considerable attention. His abilities become snown, he was appointed commander of a sloop of war in the king's service, and was sent on a voyage of discovery to the Souch Seas. Dampier explored the west and northvest masts of New Helland, surveyed Shark's Bay, and gave is name to a small archipelago east of North-West Cape. He also explored the coasts of New Guinea, New Britain, and New Ireland, and gave his name to the straits which securate the two former; on his homeward voyage he was wreeked on the Isie of Ascension. He at last returned to England in 1701, when he published the account of this verge. In 1707 he published a Vindication of his Vivinge to the South Seas in the ship St. George,' with which he had sailed from Virginia in his former maraname expedition. Dampier went to sea again till 1711, but the particulars of the latter part of his life are little known. He ranks among the most enterprising navigators Ensuad. He was acquainted with botany, and was person of considerable information and general knowledge. His style of narrative is vivid, and bears the marks of

DAMSON, or DAMASCENE (from Damascus), a race of rlams cultivated in this country for the sake of their hardiness and prolific habits. They are a mere form of the domestic plum, from which there are no certain characiers to distinguish them, except the abundance of the r ate oval fruit, and the property they possess of propagata a by suckers. All the varieties are used for kitchen purposes principally, and are generally confined to the gardens of cottages or farm-houses, where the quantity of produce more valued than its quality. Much the finest variety this sort of plum is that called the Shropshire damet. which is extensively multiplied in the nurseries by graft.

DANCING. [BALLET.]
DANCOURT, FLORENT CARTON, a popular French

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place, until at the beginning of the eleventh century Canute, or Knut, having established himself as sovereign of all the Scandinavian nations, added Britain also by conquest to his sceptre. [Canute.] After Canute's death his successors Harold and Hardicnut held the sway of Britain for a few years longer, after which the line of the Saxon kings was restored in the person of Edward the Confessor. The Norman conquest, which followed close upon the death of the latter, put an end to the Danish invasions on the coasts of Britain. But the Normans themselves were originally of Danish stock in the general sense of the name, having settled in North France under Rollo the Ganger in Alfred's time; and those Norman pilgrims and knights who conquered the kingdoms of Sicily and Apulia in the eleventh century were likewise their progeny.

their progeny.

DANIEL, one of the four greater prophets (Isaiah, Jere miah, Ezekiel, Daniel). From the first chapter of the book of this prophet we learn that he was of the tribe of Judah; that, when a child, he was carried captive to Babylon by Nebuchadnezzar, in the third year of the reign of Jehoia-kim, king of Judah, 606 s.c., and that he was one of the 'children (ver. 4) in whom was no blemish, but well-favoured, and skilful in all wisdom, and cunning in knowledge, and understanding science,' who were chosen by the master of the king of Babylon's cunuchs to be taught 'the learning and the tongue of the Chaldeans,' and to stand before the king. It appears to have been required of these children to have countenances fair and fat in flesh - qualities in which Daniel, otherwise Belteshazzar, and his three companions, Shadrach, Meshach, and Abednego excelled, by adopting a diet of pulse and water instead of the king's meat and wine supplied to them for this purpose (10, 15). 'Daniel had understanding in all visions and dreams; and in all matters of wisdom and understanding the king found him and his three companions ten times better than all the magicians and astrologers that were in all his realm' 17, 20). In reward for the interpretation of a dream re-lated in ch. 2, 'King Nebuchadnezzar not only gave Daniel many valuable gifts, and made him ruler over the whole province of Babylon, and chief of the governors over all the wise men of Babylon, but he fell upon his face and worshipped him, and commanded an oblation and sweet odours to be offered unto h.m' (46, 48). Daniel's Chaldwan name of Belteshazzar was that of a Babylonian deity, the god of Nebuchadnezzar; and the prophet is repeatedly said to have possessed the spirit of the holy gods, and to have been made master of the magicians, astrologers, Chaldreans and soothsavers (iv., 8, 9; v., 11). For interpreting the mysterious writing on the wall, king Belsharrar clothed him in searlet, put a chain of gold about his neck, and made him third ruler in the kingdom. Devel also prespeced in the reign of the Median monarch Darius (probably the Cyaxares of the Greek historians), who appeared him the first of three presidents over 120 orners, whom he set over the whole kingdom (vi., 2). Having escaped unburt from the lions' den into which he was thrown by Darius, he continued to prosper in the reign of Cyrus the Persian (28). He did not return to Judgea on the termination of the captivity, but remained with the large portion of his countrymen who continued at Babylon, where he is generally supposed to have died. Some, however, state that he died at Susa, on the Euleus. He was contemporary with Exchiol (xiv. 14, 20, and xxviii, 3). Among the Rubbs it is generally maintained that Daniel Among the remain it is generally manufactured that Daniel was not a true prophet; that he did not dwell in the Hols Land, out of which they say the spirit of prophecy does not reside; that he spent his life, not as the other Jewish prophets, in solutude, poverty, and abstinonce, but amid the grandeur, pemp, and luxury of a total palace, that he was a cunuch (2 Kings, xx. 18), one of a close who are excluded from the congregation of the Lord (Don't want 1). Some place his writings among the more Hagaographia, as having less authority than the anomal books. They account for the fact of his not communal books. hours mentioned when his three companions were east into the furthers, by saying that he was absent from Babylon on an expedition to Egypt, for the purpose of stealing hogs calmet's Diet of the lithle); and they object to his promet that they all relate to dreams and visions, which can idea the most imperior modes of revelation. moved, it is with by Jamephine ( Let Jud. 1. x. c. 12), that

ful was a great and time prophet, who was favoured !

with communications from Jehovah: he says also that Daniel built a famous palace at Susa or Echatana. Dr. Adam Clarke and others think that Zoroaster was Dr. Adam Clarke and others think that Zoroaster was Daniel. The twelve chapters of the canonical beok of Daniel are partly in the Hebrew and partly in the Chaldaic language. The uncanonical or apocryphal books attributed to this prophet, consisting of the stories of Susannah and Bel and the Dragon, and the Song of the Three Children, are extant only in the Greek of Theodotian, which is adopted in all the Greek churches of the cast the common of the Santuagint being left. The of the east, the version of the Septuagint being lost. The following are the principal prophetical subjects of the canonical book of Daniel. Chapter 2 contains the account of Nebuchadnezzar's dream of the great image of gold, silver, brass, iron, and clay, with Daniel's interpretation. The stone which became a great mountain is considered as prophetic of the Messiah. Chapter 4 relates the same monarch's dream of the great tree, representing himself, as interpreted by Daniel, and which was speedily fulfilled. In chapter 5 is recounted Daniel's interpretation of the writing on the wall at the feast of Belshazzar. Chapter 7 contains the prophet's description and interpretation of his own dream of the four great beasts. The commentators state that it e four kingdoms of the earth designed by these four beasts were the Babylonian, the Medo-Persian, the Macedo-Great cian, and the Roman. The ten horns of the fourth beast are said to be ten kingdoms rising out of the Roman empire; but what particular kingdoms are meant appears rather difficult to determine, if we may judge from the conflicting opinions of different writers. The Rev. Hartwell Horne, in his 'Introduction to the Bible, has tabulated the theories of some of the most eminent commentators, which exhibit scarcely a single instance of agreement in any particular. Thus, in explaining the meaning of the first horn, Machiavel applies it to the Ostrogoths, Dr. Me le to the Britons, Drs. Lloyd and Hales to the Huns, S.r. Isaac Newton to the Vandals, and Bishop Newton to the senate of Rome. This dream has always been much insisted on by Protestant writers as a prophecy relating to the destinies of the Church of Rome. Daniel's vision of the ram and the he-goat described in Chapter 8 is conempire by the Macedonians, who were antiently called Rgadæ, or Ægeatæ, that is, the goat-people. The trophecy of the seventy weeks, communicated to Daniel to the angel called the man Gabriel in chapter 9, is regarded by all Christians as a striking prediction of the advert of Jesus as the Messiah. Sir Isaac Newton, in his Commentary on Daniel, declares it to be the foundation of the Christian religion. The weeks are understood as being prophetic weeks, consisting each of seven years. (Lecture xxx. 8.) No scriptural authority is to be found for this interpretation (Le Clerc, Biblioth. tom. xx. p. 201); but an instance of this mode of reckoning occurs in Macrobias. Somn. Scip., l. i. c. 6. In the 25th and 26th verses it is said that from the first year of the reign of Darius (ver. 1. 3, 23) unto the Messiah the prince would be 69 weeks or 483 years, and that then Messiah would be cut off, which disagrees with the best chronologists, who make the first year of Darius 538 B.C. (A. Clarke's Bib.) The chronological difficulties of this important prophecy have occasioned a great variety of interpretations, and exercised the pen- if the most learned of the fathers and of modern divines. (Improved Version of Daniel, by the Roy. Thos. Wintie, 8vo. 1836; Prideaux's Connect. vol. i. p. 306; Vossius, Im 70 Hebdomad. Dan., p. 183). In the 10th and 11th chapters other visions are described which relate chiefly to the context of the context quests and revolutions of several Asiatic nations. 1:0 prophecy in the 12th and last chapter extends to the end of time, and speaks of the resurrection and the day of judgment. In the time of Jerome some few Rabbis atmitted the story of Susannah as canonical, while others rejected it as such; and Josephus, in speaking of Daras, says nothing either of Susannah or of Bel and the Dragon. (Hieronymus, In Dan.) A learned dissertation on the books is given by Eichhorn in his 'Einleitung in a Apokriphishen Scriften, p. 419. Porphyry, in the twelf of his fifteen books against the Christians, impugns t genuineness and authority of the prophecies of 12: contending that they are falsely ascribed to him, and it is they are really historical, and were written after the occurrence of the events to which they relate. Dr. N. Lardner has collected some of these objections, and accompanied

there will the poplies of Justime (Landing), Hydrig vol. vil. pp. 182 1031. Richop (Donnfler, in his "Vinderstoon of the Ladings of Officestandly), and 190 Councille. On the Lading of Officestandly, and 190 Councille. On the Statement of Danish' have distinguished to Alt. Mesons of the support of the populosis Hannel' in the mannel and Hanney of the proposed book. It is recognized to Alt. to be inclerators,' and that the prophets Hannel is the mannel for the bandlerstood.' And that the prophets Hannel is the mannel for the beautiful state of the malerators.' And that the first the matter more like an historical filles of popling. In the Libon presentation of the Justim Island Remonstrate in the prephetors of Donnal relias is and Remonstrate in the prephetors of Donnal relias is and Remonstrate in the prephetors of Donnal relias is and Remonstrate in the prevention,' will be a prophet. In Mr. Harne's "Thireshorton,' will be prophet, as for home and Bodon Newton, Its Folon, I core. Hales, kee, and all the numerous desquisitions on Donnal in principle prephenors of the principal remonstration. There is the daymes whe have writing on Linius in very different lights, and have benefit on it illustrates to the daymes whe have writing on Linius in very different lights, which have benefit on it illustrates in the State of the April Remover to the Affective Remover of the Donnal Remover. Remover of the Philosophical Removers on the Edward of the Donnal and Removers of the Miller Remover. It is not a finite or not reliable. Nonneconders were as a remover of the proposition, and charge is the Miller Remover. Removers of the Philosophical Removers of the Affect of t

maximize priming of his 'History of Engined' for the term of lest years.

His present consists of an Herney in six backs, on the Wars of York and Laconster; it contains many statuse in the boar cyle, which unite such press of language with securious in thought as in render them much more intelligible at present them to the faction their prevailing distributions for a making the subject of the contains their prevailing search consisted in a make of expression termed application, as well known by the specimen grown in "Kempower's; but a permet or his contains will show that, of the numerous Latitudes and which the prevail of harving introduced into any language, his good taken prompted him to choose, a fill very the conspictors, those which were really measured that is, he only attentived finus which were really measured that is, he only attentived finus which were really measured to escaphine the larguage. The peen next in length to Massiphita in darking a distinguish the larguage of the peen next in length to Massiphita in distinguish the larguage of the peen next in length to a written owns will obspect for a union of steadons and southway or thought. It contains an apology for instance parameter, against the physical with equal force of present; the worth, and might be applied with equal force of present; to the other and the bound of the contains and and the bound of the peen and the board of the authorization of the following of the complete of the presence with which the peen considered to the authorization of the following of the authorization of the following of the contains and the south of the peen considered to the presence with which the peen considered to the authorization of the following of the contains and the south of the presence of the which the peen considered to the presence of the which the peen considered to the presence of the which the peen considered to the contains and the south of the presence of the which the peen considered to the presence of the which the peen considered to the con

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tini, a celebrated scholar of the time. He became also intimate with Guido Cavalcanti, a young man of an inquisitive and philosophical turn of mind. It is asserted by some that Dante studied at Bologna, though this is not clearly ascertained; it is, however, evident from his works that he had deeply read and was imbued with all the learning of that age. By his own account he seems to have led rather a licentious life until he fell in love with Beatrice Portinari, of an illustrious family of Florence. His attachment however appears to have been purely platonic, but it served to purify his sentiments; the lady herself died about 1290 when Dante was about 25 years of age, but he continued to cherish her memory, if we are to judge from his poems, to the latest period of his life. It must have been about or a little before the time of Beatrice's death that he wrote his 'Vita Nuova,' which is a series of canzoni intermixed with prose, in which he speaks of his love in a spiritual and platonic strain, and of the change it produced in him, which was the beginning of his 'new life.'

The party of the Guelphs was at that time predominant

at Florence, having some years before driven away the Guibelines with the assistance of the pope and of Charles of Anjou, king of Naples. But in the neighbouring city of Arezzo the contrary had occurred; the Guibelines, with the bishop at their head, being the stronger party, had turned the Guelphs out of the town. It may be observed that the names of these two rival factions, which in their origin designated the respective partisans of the emperors and popes, lost much of their primitive meaning as the quarrel between the church and the empire subsided by the extinction of the house of Suabia. The rivalship however between the leading families of each party continued, mutual offences were remembered, and the remembrance was bequeathed from father to son; so that Guelphs and Guibelines were ever ready to fight in every part of Italy, not for the supremacy of church or empire, but for their own municipal superiority in their respective communities; and such was the ambition of domineering that prevailed among the wealthier families, that after the Guelphs had driven the Guibelines out of town, or vice verse, the leaders of the party that remained in possession of the place began to quarrel among themselves, and it not unfrequently hap-pened that some of them courted the assistance of the emigrant rival faction against their own colleagues. Curred among other instances at Florence in 1280, when Bonacorso degli Adimari, one of the Guelph leaders, connected himself by marriage with the Guibeline count, Guido Novello, which led to a temporary truce between the two parties. But the Guelphs soon after began to persecute the Guibelines again. The usual fate of the losing party in such cases was exile, with confiscation of property, and in case of armed opposition to or contravention of this sentence, torture and death were freely awarded, and the houses of the obnoxious individuals were not unfre-quently set on fire or razed to the ground. The Guelphs of rezzo being driven out of their town applied to those of Florence for assistance. This led to a war between Florence and Arezzo, in which the Guibelines of the latter place were defeated at Campoldino in June, 1289, when their bishop was killed. [Arrzzo.] Dante was present at this engagement, and soon after his return to Florence he married Gemma Donati, of a powerful Guelph family. now became a candidate for civic honours and offices. citizens of Florence were classed into three ranks:— 1st, grandi, or old families, formerly feudal nobles, many of whom had still feudal estates in various parts of the country, though in the town they enjoyed by law no exclusive privilege; 2nd, popolani grassi, or substantial citizens, men who had risen by trade, and many of whom were wealther than the nobles; 3rd, piccioli, or inferior tradespeople, artisans, &c. The two last classes, weary of disturbances created by faction, and being directed by some weil-meaning men, among whom was Dino Compagni the chronicler, who is the safest guide through this part of Florentine history, had made a law in 1282 by which the citirentine instory, had made a law in 1282 by which the citizens being classed according to their trades, the higher trades, 'arti maggiori,' chose six priori, or aldermen, one for each district of the city, who were called also 'i signori' and constituted the executive. They were renewed every two months. No one could aspire to office who had not his

me inscribed on the register of one of the trades. Dante lled his name on the register of physicians and apothes, though he never exercised that profession.

The institution of the priori did not prevent the town being distracted by factions as before, as those magistrates often availed themselves of their brief term of effice to favour their friends and court favour with the wealther To remedy this, the popular party, led by Gatto della Bella in 1293, elected a new officer, called Gonfelia Bella in 1293, elected a new onicer, called 6 infaloniero di Giustizia, who was to enforce order and justice, and gave him a guard of 1000 soldiers; they also excluded for ever thirty-three families of the grands, or nobles, from political office. But a conspiracy of the wealthy families drove away Giano della Bella and his adherent in 1994 and the terresponse fella Bella and his adherent in 1994. herents in 1294, and the town again fell a prey to factions. Two powerful families, the Donati and the Cerchi, were the head of the contending parties, and affrays between their respective partisans occurred repeatedly in the streets of Florence. Both were Guelphs, but the Cerchi were supected of a bias in favour of the Guibelines, because they pected of a bias in favour of the Guibelines, because they were less rigorous in enforcing the penal laws against the latter; and they had also for them the friends of the unjustly expelled Giano della Bella. The pope, Bonifice VIII., favoured the Donati as being zealous Guelphs. About this time the town of Pistoia was likewise divided between two factions, called Bianchi and Neri, which assignated with two branches of the family of Cancellieri. The Florentines being applied to as arbitrators, several of the more wident partisans were avided from Pictoia and conmore violent partisans were exiled from Pistoia, and cance to Florence, where the Bianchi became connected will the Cerchi, and the Neri with the Donati, and from the c connexions the two Florentine parties assumed the respective names of Bianchi and Neri. Both, as we have said above, were branches of the great Guelph party at the predominant at Florence; but afterwards the Bianch, to their reverses joined the Guibelines, with whom they have been often confounded by subsequent writers. It is more sary to bear these things in mind, in order to understand the history and the political sentiments of Dante. Para was a Guelph, and connected by marriage with the Daniethe leaders of the Neri. But he was also connected by sonal friendship, and perhaps also by a feeling of case with the connected by the sonal friendship, and perhaps also by a feeling of case with the connected by the connec with the Bianchi, who appear to have shown themselves from the first less overbearing and violent than their antagonists, and to have been in fact the injured party. Fig. 6 being made one of the priori in June of the year 1 cm proposed and carried a law by which the chiefs of b it. parties were exiled for a time out of the territory of the The Bianchi were sent to Sarzana, and the Neri to Castel della Pieve. Some of the Bianchi however won after returned to Florence, and Dante was accused of b.v. connived at it, chiefly out of friendship for Guido ( av canti, who had suffered from the unwholesome climate Sarzana, and died soon after his return. The Neri, is their agents at Rome, represented to Boniface VIII. that the Bianchi kept up a communication with the Guideli. of Arczzo, Pisa, and other places, and that if they obtain the preponderance in Florence, they would make communications cause with the Colonna, the pope's personal cuertains [Boniface VIII.] Through these suggestions, aided be bribes distributed by the Neri at the Roman court, as I as any, Boniface was induced to give his support to the Neri and he sent them Charles de Valois, brother of Philips Bel under the plausible title of peace-maker. Charles Bel, under the plausible title of peace-maker. Charlestered Florence in November, 1301, followed by 1200 at men. Affecting impartiality at first, he let all the Norturn to Florence, followed by the armed peasantry: 1 priori were made, all favourable to the Neri, and the B... began to be openly attacked in the streets. The Me who were already an influential family among the perkilled one of the Bianchi, and no notice was tak ... the murder. A general proscription of the Bianchi :-began, connived at by the peace-maker, Charles de V... 'People were murdered in the streets; others were discreinto the houses of their enemies, where they were 1: the torture in order to extort money from them, the houses were plundered and burnt, their daughters were carried away by force; and when some large house were not flames, Charles used to ask, "What fire is the and those around him answered him that it was wretched hovel, whilst in reality it was a rich palace. (1) Cronica, lib. ii.) The house of Dante was one of tithat were plundered. Dante was at the time at R. whither he had been sent by the Bianchi to counteract, possible, the surprestions of their surpression. possible, the suggestions of their antagonists. On hearing the news of the proscription he hastily left Rome, and joined

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his fugitive friends at Aruszo. In January, 1302, a sentence was passed condemning him to two years' exile and a fine of 8000 florins, and in case of non-payment his property to be sequestered. By a second sentence, dated March of the same year, he and others were condemned, as barattieri, or guilty of malversation, peculation, and usury, to be burnt alive. The sentence was grounded merely on the public report of his guilt, 'fama publica,' which in this case meant the report of his enemies. This curious document was found in the archives of Florence in the last century, and has been transcribed by Tiraboschi, Storia della Letteratura, tom. v., part 2, cap. 2. Dante now began his wanderings, renouncing his Guelph connexions, and intent upon exciting the Guibelines of Italy against his enemies and the oppressors of his country. He appears to have repaired first to Verona, which was then ruled by the family of La Scala, powerful leaders among the Guibelines. But he soon after returned to Tuscany, where the Bianchi and Guibelines now united were gathering their strength in the

neighbourhood of Arezzo.

The death of Bonifaco VIII. in September, 1303, inspired them with fresh hopes. Benedict XI., the new pope, a man of a mild and conciliatory spirit, sent Cardinal de Prato to endeavour to restore peace in Tuscany, but the cardinal was opposed by the ruling faction at Florence, who frightened him out of the town. Florence was left a prey to anarchy, during which a fire broke out which destroyed 1900 houses in June, 1304. The Bianchi and Guibelines thought of availing themselves of the confusion to surprise the town; and some of them actually entered one of the gates, but they were badly supported by those outside, and the attempt totally failed. Dante (Purgatorio, xvii.) censures the want of prudence and concord in the leaders on that occasion. He seems soon after to have left them in disgust, determined to regulate himself in future according to his own judgment. He says himself that 'it was difficult to say which of the two contending parties was most in the wrong.' (Paradiso vi., 102.) Dante appears to have been at Padua about 1306, and in the following year with the Malaspina, the lords of Lunigiana; he was also at times in the valleys of Casentino, and in the mountains near Areszo; some say he went afterwards to Paris, and remained there some years; others believe that he did not go to France until after the death of Henry VII. in 1313. But his visit to Paris is very doubtful; though in canto x. of the 'Paradiso,' he speaks of a certain Sigieri, professor of that university, and designates the street in which he lived.

Dante made also an attempt to obtain the revocation of his own sentence by writing to his countrymen a pathetic letter beginning with the words- Popule mee, quid feci tibi?" but all to no purpose. The family of Adimari, who had taken possession of his property, opposed his return. Accordingly in canto xvi. of the 'Paradiso,' he has launched a violent

invective against them.

The election of Henry of Luxemburg, or Henry VII., to the crown of Germany, revived the hopes of Dante, as Henry was preparing to come to Italy in order to assert the longneglected rights of his predecessors as kings of the Romans. The Guibeline leaders were ready to support his claims as imperial vicers, and the Guibeline cities, such as Pisa, were likewise in his favour. In order to strengthen their seal, Dante, about 1310, addressed a circular letter 'to the kings, dukes, marquises, counts, the senators of Rome, and all the people of Italy, congratulating them on the prospect of happiness for Italy through the ministry of the pious Henry, who will punish the felons who opposed him and bestow mercy on the repentant, &c. It was about this time that he wrote his book 'de Monarchia,' which may be considered as a profession of Guibeline political faith: it asserts the rights of the emperors, as successors of the Cæsars, to the supreme temporal power, entirely independent of the popes, who are the spiritual heads of the church. This creed was in opposition to the assumed rights of Gregory VII., Innocent III., and other pontiffs, who pretended to be above all crowned heads, and to have the disposal of thrones and principalities, an assumption which the Guelphs favoured in Italy in order to keep themselves free of the imperial authority. Both parties in fact acknowledged an external superior, although both wished to rule in their respective communities with as little subserviency as possible to the nominal supremacy of either pope or emperor. But there was this difference, that the imperial, or Guibeline party, was mostly supported by the nobles, especially of

North Italy, who styled themselves vicers of the emperor, and was therefore more aristocratic in its spirit, while the Guelphs of Tuscany looked upon the pope chiefly as an auxiliary in time of need, whose temporal interference was less direct, and could be more easily evaded than that of the emperor, so as to admit of a more popular or democratic spirit in their institutions. Such at least was the theory of the two parties, for in reality the Guelph or popular families formed an aristocracy of wealth as much as the Guibelines were an aristocracy of birth and rank. Dante, in his book, 'de Monarchia,' is no servile advocate for despotism, for he maintains that sovereigns are made to promote the good of their subjects, and not subjects to serve the am-bitious pleasure of their sovereigns. The latter are to rule so as to soothe the wayward passions of men, in order that all may live in peace and brotherly feeling. But still he derives their authority from God, and he quotes in support of his system, Aristotle, the Scriptures, and the Roman History, agreeably to the scholastic logic of his times. This book 'de Monarchia' was burnt at Bologna by order of the papal legate after Dante's death.

Henry VII. came to Italy in 1310, was crowned at Milan as king of Lombardy, and the following year he be-sieved Cremona. Brescia, and other places. It was about this time that Dante, impatient to see the emperor come into Tuscany to put down the Guelphs, addressed to him an epistle which begins thus:— Sanctissimo triumphatori et domino singulari, domino Henrico, divina Providentia Romanorum regi, semper Augusto, devotissimi sui Dantes Aligherius Florentinus et exul immeritus, ac universaliter omnes Tusci qui pacem desiderant terræ, osculantur pedes.' He then entreats the emperor not to tarry any longer on the banks of the Po, but to advance south of the Apennines and put down the spirit of Guelph sedition at Florence, against which he inveighs in no moderate terms, and which, he says, strives to predispose against him the mind of the sovereign pontiff. He speaks of Florence as revolting unnaturally against her parent Rome, for Dante always affects to consider Rome as still the seat of the empire, and Rome and the empire are often employed by him as synonymes. This remarkable epistle, of which we had only an Italian version until the Latin text was discovered not many years since in the library of St. Mark, is dated from Tuscia, near the founts of Arno, April, 1311. (Dantis Allighieri Epistolæ quæ extant, cum notis Caroli Witte, Padua, 1827.) Henry came into Tuscany, threatened Florence, but with-out effect, was crowned at Rome, and on his return died suddenly at Buonconvento, near Siena, in August, 1313 This was a terrible blow to the hopes of the Guibelines, and of Dante especially. He now took refuge at Verona, at the court of Cane della Scala, where he appears to have been before, between 1308 and 1310. Cane was hospitable and generous to the Guibeline emigrants, but Dante, with his proud spirit and temper soured by adversity, could ill accommodate himself to the flattery of courts and the flippancy of courtiers, and he is said to have had some unpleasant bickerings with the people about Cane.

In a well-known passage of his poem he feelingly deplores the lot of the exile who is constrained to eat the bitter bread of patronage:---

Tu proversi si come sà di sale, Lo pane altrui, e com' è duro calle, Lo scendeze, e 'l salir per l' altrui scale.' Pananso, Canto avii,

With Cane himself, however, he seems to have continued on good terms; he speaks very highly of his hospitality in a passage just preceding the above lines, and there is a cordial letter from him to Cane, written probably in the latter years of his life, in which he dedicates to him his 'Paradiso,' the latter part of his great poem, and explains the object of it. He says that he styled it a comedy, because, contrary to the style of tragedy, it begins with sorrow and ends with joy; he distinguishes between the literal and the allegorical sense of his verses, and observes that his poem may be called polysensuum, having many meanings. He tells Cane the title of his work:—'Incipit Comodia Dantis Alligherii, Florentini natione non moribus.' But the title of the part which he sends to him with the letter is:- 'Incipit Cantica tertia Comædiæ Dantis quæ dicitur Paradisus.' It is evident from this and other circumstances, that Cane had not seen the rest of the poem; indeed it is not likely that Dante ever communicated the whole of it to any one during his

lifetime, as it would have made it impossible for him to have found refuge anywhere, as Foscolo closely argues in his very elaborate and very critical 'Discorso sul testo di Dante,' which is one of the most judicious and scholar-like

commentaries on that poem.

Of Dante's Commedia we cannot enter here into any details, and we must refer the reader to the numerous commentaries, illustrations, and translations of it in every language of Europe. It is one of the few works of imagination which have stood the test of ages, and which will pass down to the remotest generations. It resembles no other poem; it is not an epic; it consists of descriptions, dis-It resembles no logues, and didactic precepts. It is a vision of the realms of eternal punishment, of expiation, and of bliss, in the invisible world beyond death. Its beauties are scattered about with a lavish hand, in the form of episodes, simili-tudes, vivid descriptions, and above all, sketches of the deep workings of the human heart. It is especially in this last department of poetical painting that Dante excels. Whether he describes the harrowed feelings of the wretched father in Ugolino, or the self-devotedness of the lover in Francesca, or the melting influence of the sound of the evening bell on the mariner and the pilgrim; whether he paints the despair of the reprobate souls gathered together on the banks of Acheron, cursing God and the authors of their being, or the milder sorrow of the repentant, chanting the 'miserere' along their wearisome way through the regions of purgatory,—he displays his mastery over the human feelings, and his knowledge of those chords that vibrate deepest in the heart of man. No other writer except Shakspeare can be compared to Dante in this respect. His touches are few, but they all tell. His power of invective is grand and terrific; witness his imprecations against Pisa, against Florence, against his enemies, his address to the German, Albert, representing to him the anarchy of Italy, and his repeated denunciations of the vices of the court of Rome. Yet Dante was a sincere Catholic; in his poem he places the heretics in hell, and Dominic in paradise; and manifestly shows everywhere his belief in the dogmas of the Roman church, but he attacks its discipline, or rather the relaxation of its discipline. He urges, like Petrarch and other Catholic writers of that and the following ages, the necessity of a reform; and above all, of a total separation of the spiritual from the temporal authority, things generally confounded by the Roman canonists. That many parts of his poem are allegorical is evident, but that the whole poem is an allegory, a political mystification, as some have pretended, seems a far-fetched hypothesis, an ingenious paradox. Dante was a declared enemy to the Guelphs of Florence and their allies, the Papal court and the king of France; and he poetically represents these three at the beginning of his poem by the emblems of the panther, the wolf, and the lion; but soon after he drops all metaphor, and inveighs against all three in the plainest and the bitterest terms, which he would not have done had he meant to be understood only by the adepts of a secret sect. In canto xix. of the Paradiso he passes in review all the kings of his time, and spares none of them in his reproof; in another place he has something to say against almost every one of the Italian cities and populations. In fact Dante never published his whole poom in his lifetime, for he had spoken in it too plainly to be able to publish it in safety. He wrote it out of the fullness of his heart, in detached parts, and at different periods, and his strains were influenced by the various political vicissitudes of the times, and by his own alternate hopes and despondency. About the year 1316 he had still a chance of his recall to Florence. It was suggested to him by a friend whom Dante in his reply calls father, probably because he was a clergyman, that he might return, provided he acknowledged his guilt and asked absolution. His an-swer was characteristic of his mind: 'No, father, this is not the way that shall lead me back to my country. But I shall return with hasty steps if you or any other can open me a way that shall not derogate from the fame and honour of Dante; but if by no such way Florence can be entered, then to Florence I shall never return. Shall I not everywhere enjoy the sight of the sun and stars? May I not much and contemplate truth anywhere under heaven withmut randering myself inglorious, nay infamous, to the people and ranmonwealth of Florence? Bread, I hope, will not full me.' (See text and translation of this letter in Foscolo's suys on Petrurch and Dante, 8vo., 1823, with a sketch ute's character.

In 1317-18 Dante appears to have been still wandering about Italy. In 1319 he repaired to Guido da Polenta, lord o. Ravenna, where he was hospitably received, and where he appears to have remained till his death, which happened in September, 1321. He was buried in the church of the Minorites, under a plain monument. Bernardo Bernales, senator of Venice and podesta of Ravenna, raised to h.i.a. a mansoleum in 1483, which was afterwards repaired in 1692 by cardinal Corsi, of Florence, and lastly in 1780 acconstructed altogether in its present form by cardinal Valenti Gonzaga, legate of pope Pius VI. The reproof—

Ungrateful Florence! Dante sleeps afar,

was at last felt by the Florentines; a subscription was made and a monument was raised to the memory of Dante in the church of Santa Crooe, which was opened to public view with great solemnity on the 24th of March, 1630. (Missirini, Delle Memorie di Dante in Firenze, 1830.)

For the manner in which the whole MS. of Dante's oem was found, collected, transcribed, and published, after his death, by his sons Jacopo and Piero, the early commen-taries on the poem, its early printed editions, and the whole bibliographic history of the work, the reader will find am information in Foscolo's Discorso sul testo di Dante, Les don, 1825; and also in Missirini, Rivista delle varie Lezivi. della Divina Commedia, e Catalogo delle piu importanti Edizioni, Padova, 1832. Among the most complete cu-tions of Dante's poems are: that of Venice, 5 vol. 314, 1757-8, with ample notes, and including Dante's L. 6. by Pelli, and his minor poems and prose works; Lombard edition, Rome, 3 vols., 4to., 1791; and that of Florence, was illustrative plates, 1819, 4 vols., fol. Among the heat of commentaries the one called l'Anonimo, and also l'Ottim. written by a contemporary of Dante, who was evidence familiar with the poet, has been published for the first time at Leghorn in 3 vols., 8vo., 1827.

Among the numerous translations of the 'Divina Cottomedia,' in almost every language of Europe, that in Europe, verse by Cary deserves to be mentioned with especial prince An Italian translation of Danie's philological treats to De Vulgari Eloquio, was published by Trissino in 1522; and the Latin text in 1577: this work has occasioned very animated controversy between Italian philological in

our days

DANTON, GEORGE JAMES, born at Arcis-sur-Aul e. October 26, 1759, was one of the most remarkable char e-ters among the leaders of the first French Revolution. He was educated for the bar, and was pursuing the peace: A avocation of a king's counsel when the first shocks of the great political earthquake called him upon the revolutionary arena. Danton was gifted by nature with the faculties which qualify a man for the dangerous office at a political agitator. He was tall and muscular, his features harsh and striking, and his voice resembled the rearing of breakers or the growling of the thunder. He was ambitious and bold; his eloquence, the offspring of an inpassioned imagination, though without the charms of rhe-torical elegance and philosophical depth, was overwhelming by its vehomence. It is no wonder that such a man soon became the leader of popular commotions and the terror of all who dared to oppose him.

In 1790, supported by the revolutionary club of the Cor-

deliers, founded by himself, he presented to Louis XVI. ticpetition of the forty-eight sections of the town of Paris against the king's ministers, accusing them of having has the confidence of the nation. In 1791 he was elected nation ber of the departmental administration of the Seine. Aver the imprisonment of Louis at Varennes, he was the prime mover of the popular assemblage of the Champ de Mire. in which he called for the dethronement of the king. On the 8th of August, 1791, he presented himself before legislative assembly, and with unprecedented audacity to the representatives of France that their refusal to decisions the throne vacant would be the signal for a general resur-rection. The fate of Louis was decided, and Danton beneelected minister of justice, became the head of that leviof six men who were intrusted with absolute executive power. In this capacity he showed himself blood-thrests ambitious, vindictive, and mercenary; but he was a'courageous and skilful in conducting public affairs at . time when every step was attended with danger.

When the Prussian army had entered France, and consternation began to spread in all quarters, when the leaders

It appears that, under the same, and retired to his native ison.

It appears that, under the sufficience of haired of Roberts and prompted probably by his averies or amorton, or altered to the came irranscalle pied with the Duke of blesses (\*\*Egalité') and some other enemies of the repubric St. Just denounced him as a traiter before the Comité o baint Public, and buston was arrested the Stat March. [704, and lackworld the 5th April of the same year.]

Touton bolonged to the achool of the french materialets, and did not believe in the amountable of (he such. During the fall, and even in the acoustisty of (he such. During the fall, and even in the acoustisty of (he such. Butting it is undimerted attach. [704, and even in the acoustisty of the such. During the fall and even in the sufficiel to the executioner, 'I shall fall on inthe my original authorganist; yet my name shall live a very in the partition of insury. He left a wife, but a highinate children.

DANIHIE, The, called by the Germans Doma, and by a Hangarian Doma, as a river of the flux rank, and the most of Europe on rivers, being interior only to the Voltanian of Europe on rivers, being interior only to the Voltanian of Europe on rivers, being interior only to the Voltanian for an according to the control of the most of the action of the long acres from each to material exception of the control of the cont continuous part of its boson faits only a little north of 50° N. at. But he can be construed that does not reach \$22 N. lat. But he can be construed that does not reach \$22 N. lat. But he were Passau and Vinnas. At Line its surface in \$50 continuous areas parts of the different deviation of the chose great plains which are traversed by this term and 1500 feet allows the level of the level of the Black Sc. Through all this distance it rais between the steep of the Alps of Sale-bury and plains of that of Hungary elect and the most two in the continuous that of Hungary elect and the most two in some places attain a great shreat plain, or that of Hungary elect and the most two in the banks of the river is of small extent, a test of the banks of the river is of small extent, a test of the banks of the river is of small extent, a test of the banks of the river is of small extent, a test of the banks of the river is of small extent, a test of the banks of the river is of small extent, a test of the banks. In this part of the upper course of the Danube is that he were Passau and Vinnas. At Line its surface in \$50 too, at Vienna \$21 foot, and at its catrange into Hungary 417 feet above the level of the Back Sc. Through all this distance it rais between the attempt in the distance in \$50 too, and the banks of the part of the upper course of the Danube is that he were Passau and Vinnas. At Line its surface in \$50 too, at Vienna \$21 foot, and at the meaning and Vinnas. At Line its surface in \$50 too, at Vienna \$21 foot, and at the meaning and Vinnas. At Line its surface in \$50 too, at Vienna \$21 foot, and at the meaning and Vinnas. At Line its surface in \$50 too, at Vienna \$21 foot, and at the meaning and Viennas \$21 foot, and at the meaning and Viennas \$21 foot, and Viennas \$21 foot, and at the meaning and Viennas \$21 foot, and at the meaning and Viennas \$21 foot, and its catrange of the Banks at Viennas \$21 foot, and the meaning and Viennas \$21 foot, and Viennas \$21 foot, and its catrange of the Banks at Viennas \$21 foot

If the republish party were it a loss what he he he was seen the impossing directory and the concentron in one of the most impossing the concentration in the concentron in the concentron in the concentron in the concentration in the concentration of the concentration in the concentration

Marosh [Austraia], and divides in several places so as to form islands, especially above and below Linz, and in the sinks into a flat plain: east of Silistria it presents nearly neighbourhood of Vienna. But the current of the viver here, as well as in the Bavarian plain, is so rapid, that, pronorth is the great level of the Wallachian plain. In this here, as well as in the Bavarian plain, is so rapid, that, properly speaking, it can only be navigated downwards: the barges must be tracked up the river. It has no rapids, but

several dangerous whirlpools.

In its middle course the Danube first traverses the Lesser
Hungarian plain At Presburg it is 401 feet, at Winshegrad 379 feet, above the sea, and at Ofen or Buda, which lies in the Great Hungarian plain, 348 feet above the sea. In its course through the lesser plain the current of the river is still rapid, though much diminished. It divides into numerous branches, which inclose islands, among which the largest is the island of Schütt, which is upwards of fifty miles long, and from four to nine miles across. As the adjacent country consists of very soft alluvial soil, the river frequently changes its course. Some ten years ago a minute survey was made of the river for the purpose of some important improvements. Several years were spent in considering these projected improvements, and when their execution was to be sin, it was found that the maps which had been made were of no use, the river having changed its bed in nearly every part. In this plain the Danube is increased by the waters of the Leitha and Raab from the south, and the Waag and Gran from the north.

Between Gran and Waitzen the river flows between two mountain ridges. That on the south is the northern extremity of Mount Bakony, and on the north an offset of the Carpathians, called the Neograd range. At Waitzen it issues from the mountain defile, and changes its eastern into a southern course. In this direction it flows with a slow current and numerous windings through the greater plain of Hungary for nearly three degrees of latitude, till it meets, after its junction with the Drave, the Sirmian range or Mount Werdnik, which again deflects it towards the east. It then skirts the Hungarian plain on the south, dividing it from the hilly Slavonia and the mountainous Servia, till it arrives near Nova Moldava, where it again passes through arrives near Nova Moldava, where it again passes through a mountain valley. During its course through the Hungarian plain its waters are increased by those of the Sarvitz, Drave, and Save from the west, and Theiss and Temesh from the north. [Austria.] At Buda its surface is 348 feet, at Zambor 272 feet, and at Nova Moldava probably not much more than 200 feet, above the level of the Black Sea. Its average breadth between Waitzen and the mouth of the Drave is 600 yards, and its depth varies from 6 to 20 feet

The mountain-valley of the Demir Kapi (the Iron Gate) The mountain-valley of the Demir Kapi (the Iron Gate) is formed on the north by the Banat range, an offset of the Transylvanian Carpathians, and on the south by a lateral range of Mount Balkan; it extends from Nova Moldava in the Banat to Cherniz in Wallachia. In entering this narrow valley the rapidity of the river gradually increases. About four miles below the village of Dobra it forms a dangerous whirlpool, called Takhtali; and about the same distance below New Orsova is the Demir Kapi, where a ledge of rocks runs across the bed of the river, over which the water rushes with great noise, producing below it a number of dangerous whirlpools. Vessels drawing not more than 2½ feet may however descend it, when the water is not low; but it is impossible to ascend it, and thus this rapid, which does not occupy a space above 2000 yards in length, interrupts all water communication between Hungary and Turkey. It is supposed however that this obstacle could be removed at no great expense. At the Demir Kapi the Danube leaves the Austrian dominions and enters Turkey. A few miles lower down it issues from the valley, the country to the north sinks down to a flat, and the current of the river becomes slow and gentle.

On the mountains and hills which inclose the valley of the Demir Kapi on both sides are very numerous remains of Roman antiquities, which were investigated by Count Marsigli in the beginning of the last century, when this region was ceded to Austria by the peace of Passerowitz: an account of these remains is given in Marsigli's Danubius Panono-Moesicus, with a great number of inscriptions. Some few remains occur farther down the river, which are noticed by Marsigli. He also describes the remains of the bridge built by Trajan over the Danube,

a short distance below the rapids of the Demir Kapi.

Along the lower course of the Danube the country on the south continues mountainous from the Demir Kapi to

tract the river first runs nearly south from Chernitz to below Widden, then turns to the east and continues in that direction to about forty miles from the Black Sea, where st suddenly bends to the north. In this direction it runs upwards of 100 miles to the junction with the Screth, and hence again to the east to its mouth. In this course the river frequently divides and forms numerous large islands. especially below Silistria. Its width, where it is not divided by islands, is between 1500 and 2000 yards, and its average depth being above 20 feet, it is navigable by vessels of considerable burden. From the north it receives the Aluta, or Alt, Sereth, and Pruth, which rise in the cestern Carpathians [AUSTRIA], and from the south the Merava, which is formed by two large rivers, the Western and Eastern Morava, which drain a great portion of the northern decli-

After having been joined by the Pruth, the Danube divides into several branches, which do not unite again, and thus it flows into the Black Sea by seven mouths, which are (culmerating them from north to south) Kilia Bagesa, Suline Bagasi, Kedrille Bagasi, Salvos Bagasi, Kutsuk Bagasi, Portesca Bagasi, and Kurte Bagasi. The three last issue from the lake of Ramsin. Suline Bagasi is considered as the principal mouth, and is most navigated. It forms

the boundary between Russia and Turkey.

The following particulars on the subject of the steam navigation on the Danube are from the Report of the Vienna Society to the 31st December, 1836. The company will soon have ten steam-vessels affoat besides a towing steamer. The present voyages performed are from Vienna to Laniz; from Vienna to Pesth; from Pesth to Drenkeva; from Skela-Kladova to Galaez; from Pesth to Semlin; from Galaez to Constantinople; from Constantinople to Trebuscut. and from Constantinople to Smyrna. The vessels angaged on these lines are eleven in number.

The Danube was known to the early Greek writers u the name of Istros ("Iorpoc), called by the Romans Ister, which was probably the genuine name of this river in the lower part of its course. The Romans learned the name Danubius from the natives on the upper course of the stream. with whom they were brought into contact by commerce and by conquest. Herodotus in his 4th book (chap. 4z. &c.), has transmitted to us all that was known in his time of the Danube and its tributaries in the middle and lower part of its course. Strabo observes (p. 394), 'the upper parts of the river and the parts at its source, as far as the cataracts, are called Danubius, and flow chiefly through the country of the Daci,; the lower parts as far as the Pontus (the Black Sea), and in the neighbourhood of the Getz, are called Istrus.'

(Hoffmann's Deutschland and seine Benehner; Berg-

haus, Annalen, Nos. 127 and 184.)

DANZIG, one of the four administrative circles of the province of Prussia, consisting of portions of what was furmerly called Western Prussia. It lies between 53° and 55° N. lat. and 7° and 10° E. long. Its northern boundary &x about 92 miles is the Baltic; on the east it is bounded by the circle of Königsberg, and on the west by Pomerania. Its area is about 3197 square miles. The surface is level, with a gradual slope from the banks of the Vistula to the Baltic, and is occasionally broken by small elevations, which the natives designate by the name of Berge (or mountains), and of which the highest is but 509 feet. soil is in many parts sandy, and there are several tracts of swamps; but in general it is productive, and along the banks of the Vistula exuberantly fertile. The circle raises more grain than its consumption requires, and great quantities of vegetables and fruit. The minor circle of Manen burg has extensive wouds and forests, of which Danzes contains altogether nearly 800,000 acres. Horses and cattle, though in general of an inferior kind, abound on the luxuriant pasture grounds of the low lands. There are very considerable fisheries along the coast, and salment, cels, and other fresh-water fish are taken in great quantities in the inland lakes, sheets of water, and streams, such as the Frische Haff, Strand See, Drausensee, Sec. Amber is obtained on the shore in the vicinity of Danzig. The principal rivers which water this circle are the Vistula. Schwente, Sorge, which takes the name of the Elbung

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year. Among the cultworks is the interochool camp on the island of Neufebrusaer, which covers the approach from the Halte.

DAPHNE, a genus of thymclareous plants, containing many species, inhabiting the mere temperate parts of Europe and Asia. Among them some are cultivated in gardens for their heavity or tragrance, others are of medicinal importance, and a few are employed in the manufacture of heaps and paper. We shall breefly united the more remarkable of these.

The genus Daphace is distinguished in its entiral order by having eight or ten stames a inclosed within the calva, a simple stigma, a succulent fruit, and a easyly the orthor of whose tube is destinate of appendices?

D. Mezerczo, the measurem of the gardens, is a iteralizant plant, with white or purple forgrant showers, sitting close to the steen, and appearing on the induct branches below the leaves are unfolded. It is a favourity in gardens, and successed in almost any well-drauted light out whose the our is not possened by the smale of coal-time. It is found wild in the manufactures wreaks of many parts of the wildle and south of Europa. It is more with in woods in various counties of England: the berries are amounts, sharing, and bright red.

All the parts of this and indeed of the close species, as for as they have been countined and applied in the skin it produces aware historia are action to the completed with antity. Taken internally, the bark, haven, and ruit act as authorities, but require to be administered with the terms caution; for they are apt to produce dampeness and even fatal consequences. Lineaues speaks of a portunitaring been killed by a doren measurem borries; and they are suppleyed in Sweden to possen add among a and they are suppleyed in Sweden to possen and among and their chaotic for the very alone of daphine, agree able to it is in attended with danger; be easy that if kept to attended with danger; be easy that if kept to attended with danger; be easy that if here it is a gorrewer exerted that Hussian and Tartwom vomes a sometimes rub the berries of the messages on their

to produce a slight irritation, which of course gives the | so employed it is to be chewed, but the saliva must not be effect of rouge, only in a more permanent degree

D. Laureola, the spurge laurel, is another British species found wild commonly in woods and hedges. It is a hand-some evergreen bush, with the aspect of a laurel. The leaves are placed very close together; they are of a leathery consistence, deep green, lanceolate, acute, and narrowed to the base. The flowers are green, and grow in little short clusters, which are nearly concealed by the leaves. The berries are, when ripe, a deep purple black. We have no species that grows more readily beneath the shade of trees; and as its appearance is highly ornamental, it would be a most useful garden plant, if it were not for the dangerous berries, which children are apt to eat. ointment for keeping open blisters is prepared from this

D. pontica, one of the plants which is reputed to have contributed to the poisonous quality of the honey that was eaten by Xenophon's soldiers, is very like this species, and

is often cultivated as a hardy evergreen. D. Gnidium, the Garou bush, an evergreen with narrow sharp-pointed erect light-green leaves, and branching

clusters of white fragrant flowers, is a common plant in dry waste places in the south of Europe. It will not live in the open air in England, except in the warmest counties. Both the berries and leaves are employed by the French

as purgatives; the plant also affords a good yellow dye.

D. Cneorum, a native of grassy places in the Alps of
Switzerland and the rest of central Europe, with its trailing stems, numerous small narrow blunt deep-green leaves and clusters of rich purple fragrant flowers, is one of the most beautiful of all plants, when it finds a soil and climate that suit it. At Bagshot, for instance, and in similar situations, it is, under good management, quite unrivalled by the other hardy shrubs among which it grows. It will not succeed where the soil is otherwise than sandy and peaty, nor can it bear the impure atmosphere of large towns.

D. Collina, Alena, Neapolitanu, and Tarton-raira are other species cultivated in gardens. The first has dull purple sweet-scented flowers, and is sufficiently common in collections; the others are rarer. All are impatient of wet in winter; but if at that season kept tolerably dry, will bear considerable frost, and are desirable garden plants in

the milder parts of England.

In addition to the acrid and dangerous properties which appear to be common to them all, some species are remarkable for the toughness of their fibre, and for the economical purposes to which they are applied. From D. Cannabina is prepared the best kind of writing-paper in China, according to Loureiro; but it must be observed that this statement, if true, is at variance with what is observed in Nepaul, where the daphne-paper is very brittle and bad.

D. Lagetta, the lace-bark tree of Jamaica, is most re-

markable for the tenacity of the fibre of which its bark consists, and for the facility with which it may first be separated into thin layers and then into distinct meshes. If the inner bark of this plant be macerated in water, it may be readily separated into layers no thicker than the finest lace, and which, after having been pulled a little sideways, resembles in some measure that fabric. King Charles II. is said to have had a cravat, frill, and ruffles of lace-bark

presented to him by his governor of Jamaica.

DAPHNE MEZEREUM is an indigenous shrub; the bark obtained in spring from the stem, the thick branches, and even the root, is officinal. It is covered by a thin epidermis, green within, brown without. It is destitute of smell, but has a very acrid pungent taste, lasting for hours, and causing vesications. Its virulence even amounts to a poisonous degree, but is said to be lessened by camphor.

In the London Pharmacopæia it only enters as an ingredient into the decoction sarsap. comp. It consists of an

acrid resin and daphnin.

The bark yields its properties to water, and still more erfectly to vinegar. The simple decoction of the Edinburgh Pharmacoposia certainly possesses considerable power. Mezereon in a small dose acts upon the secretions of the salivary glands, the mucous membranes, the kidneys, and the skin. It also rouses the nervous energy of the brain, as its action in many cases of coma and stupor

swallowed, as its serimony causes inflammation of the stomach and intestines; and this may even be fatal from the hamourhage, vomiting, and purging which attend it. The berries swallowed incautiously produce the same half offects.

The simple decoction, along with carbonate of ammonia. given in proper doses every two or four hours, has in several instances rescued patients from a state of imminent danger in the stage of collapse of typhus fever, or that of coma and effusion at the base of the brain, which sometimes occurs in scarlet fever. In torpor of the brain, in leuco-phlegmates subjects, and in approaching amaurosis, it is also of u-c. It has also been found serviceable in chronic rheumatism and chronic cutaneous diseases. A portion of the bark macrated in vinegar and applied to the skin, forms a powerful vesicant.

DA'PHNIA. [Branchiopoda, vol. v. p. 343.]
DAPHNIN. Vauquelin first pointed out, in the 'Annales deC himie,' t. lxxiv., the existence of a peculiar action. principle in the mezereon (Daphne Mezereon). Its properties have been since more particularly examined by Gmelin and Bär. It is prepared by precipitating a decortion of mezereon bark by subacetate of lead, and decor-posing the washed precipitate by sulphuretted hydro en the solution is then filtered, evaporated, and the residulgested in cold anhydrous alcohol, from which daphin

crystallizes.

When it has been purified by washing with cold alcohol.
solution in water, and recrystallization, it forms colourless bitter crystals, which are neither alkaline nor acid: in edd water they are sparingly soluble, but more so in hot, and also in alcohol and wither. Nitric acid converts it in oxalic acid. It does not appear to have been analyzed. DA/PSUS, a genus of Coleopterous insects. [EUMCR-

DA'PTUS (Fischer), a genus of Coleopterous insects of the family Harpalidse. Generic characters:—mentum deeply emarginated and without any tooth-like process in the middle; antennse rather short, and moniliform; see adjoint of the labial palpi somewhat oval; four basal joints of the four anterior tarsi slightly dilated, short, and triangular. body more or less elongated, the elytra with their outer margins almost parallel. Daptus Vittatus is of a pa'e yellowish colour, with an oblong black spot on each elytron; the head and thorax are more or less clouded with brown

or black in some specimens.

This species is about a quarter of an inch in length, and inhabits sandy districts in the vicinity of water in the southern parts of Russia and France.

Daptus in rassetus (Dejean) has the same colouring as

Deptus in raisetus (Dejean) has the same colouring as the last, but it is of a larger size, being upwards of half an inch in length; it inhabits North America.

DARABGHERD, or DARABJERD, commonly called Darab, is a town in Persia, in the province of Farsistan, about 26° N. lat., and 54° 50′ E. long. It was formerly a town of great extent, but like many other towns in Persia it has fallen from its former splendour. But although a great part of it is in ruing it still contains between 15 (with great part of it is in ruins it still contains between 15,000 and 20,000 inhabitants. It is on the banks of a small river in an extensive plain, which is intersected with villages and cultivated lands. The town is surrounded with groves of dates, oranges, and lemons; the juice of the lemon is exported to every part of Persia. The tobacco cultivated in its neighbourhood is esteemed for its mildness, and sen not only to Shirauz, and other parts of Persia, but also to India and Arabia. There are some antiquities in its negligible bourhood, as the ruins of an aqueduct, some sculptured rocks, and a caravansarai, hollowed in the very heart of a mountain, but their age cannot be ascertained. (Kinner:

Sir W. Ouseley.)
DARDANELLES, The, are fortifications erected in both sides of the Hellespont, which from them take also the name of the Strait of the Dardanelles. This stra. .. which divides Europe from Asia and unites the sea of Marmara to the Archipelago, extends in a south-west direction mara to the Archipelago, extends in a south-west direction between 26° and 27° E. long. and between 40° and 40° 30′ N. lat. Its length is upwards of 50 miles, but its width varies. Near the sea of Marmara it is about ten miles across, but it narrows by degrees, so that opposite the town of Gallipoli it is only about two miles wide. This may be considered as the average breadth for the appreciation of the state of the It may be employed locally to stimulate the salivary considered as the average breadth for the remainder of 1's glands, or to remove paralysis of the mouth or throat; when extent. Towards the southern extremity it narrows still

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DARTANIA, a treat of Town, on the rosst of Myon, Am Minor. It was sent to have been founded by Rances. (Strate, p. 50%, o. : Hoof, w. 214.) The name of Strate, p. 50%, o. : Hoof, w. 214.) The name of Strate, p. 50%, o. : Hoof, w. 214.) The name of spire case streng to Davis Meditorrance. (Flatts.) DART DR. a country in Africa, between Hornes and restinately for the region and man boundaries are a time of the N. lat., and histogram and the form the region and man boundaries are a important part of the secondaries of regions of the formalism, and distributely accorded by the order of regions of the formalism. The scattering part of the artist region of the formalism. The scatterin part of the affirm the European definition on the rest. The scatterin part of the affirm the scatter attributes with throoten and rivers. Which have texter attributes your anneal. But the methern reason have texter attributes a constant of the region of the same part of the same part of the same scattering and the region of the same texter and the away, and over the whole distract the strate or just mention the year the whole distract thand up a pill the plants inched away, and over the strate loss in Strate.

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The posterioral value commences in the middle of June
1 and to the criticle of forgonizer; they are generally
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As soon as the rains begin the especialized operations appropriate The grains count are wheat. Make, Laureb, and amount of the part of the part of the part of the transfer of the part of the transfer of the part of the transfer of the part of the

A strong formula diagram the wet season, and also before it they are frequents for years (not keep of the state of the fail times are famourands and dark (not keep out the state of the state of the fail times are famourands) deep out the state of the state of the fail times are famourand and dark (not keep out the state of the s

torf's Levicon Rabbinscum, p. 877) by the name of Darkonoth, both from the Greek Assessor. The darie was the
gold coin best known in Athens; and when we consider
the great number which are recorded to have been employed in presents and bribes alone, exclusive of the purposes of traffic, it would seem extraordinary that so few
should have reached modern times, if we did not know that
upon the conquest of Persia they were melted down, and
recoined with the type of Alexander. Very few Persian
daries are now to be seen in cabinets. There is one in Lord
Pembroke's, which weighs 129 grains; and there are
three in the cabinets at the British Museum, weighing
about 128½ grains each. Mr. Young, our most eminent
dealer in coins, also possesses two, one weighing about 121½
grains, the other 128½; few other daries, it is believed, can be
referred to in England. The witticism of Agesilaus (Plutarch,
Apophthegm. Lacon. xl.) is well known, who, being forced
to retire from an invasion of the Persian provinces by the
bribery used by the great king, said that 30,000 archers
had defeated him.

The silver coins which go by the name of daries are in truth miscalled. They had no such designation in antient times. The earliest of them, if we may rely upon Herodotus in a passage already referred to (iv. 166), were struck by Aryandes, the Persian governor of Egypt, in imitation of the daries. 'This Aryandes was governor of Egypt, and had been appointed by Cambyses. after, presuming to put himself on an equal footing with Darius, he lost his life in consequence. Hearing by report, and seeing himself, that Darius was desirous to leave some memorial behind him, such as no other king had done, Aryandes followed his example, and met with his reward. Darius took the best gold, and purifying it to the highest degree, struck a coin. Ary andes, being governor of Egypt, did the same in silver; and the silver of Aryandes is now the purest. Darius being informed of what he was doing, put him to death, under the pretence that he was meditating a revolt. The coining of these derics or Aryandica in silver, however, must have been continued after the time of Aryandes. No fewer than eight specimens of this description are in the cabinots of the British Museum. One, formerly Mr. R. P. Knight's, bears the name of Pythagoras, as Mr. Knight conjectured, a king or governor of Cyprus. Others, which have the figure of the archer crowned on one side, have a mounted horseman on the other. They are generally considered as antient Persian coins, and are commonly, though without any assignable reason, except as bearing the figure of an archer, called darics.

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Gold Darie. British Museum. Astual Size



Silver Darie. Beltish Musoum. Actual Size. Weight, 236 grains,

DARIEN, the GULF of, forms the most southern portion of the Caribbean Sca, extending from 7°56′ to 10° N. 18t., between 76° and 78° W. long. Its most southern recess is called the Bay of Candelaria, which begins on the north between Cape Fiburon and Punta Caribana. This latter bay forms a spacious harbour capable of containing all the fleets in the world, and has a good anchorage of from eighteen to thirty fathoms deep, sheltered against every wind, and only subject to a strong sea in the months

when forth widds prevail. Not far from the southern extremity of it is the mouth of the Riq Atrato. (Molhen,

DARIEN, ISTHMUS of [PAWAMA.]

DARI'US, the name of several Persian kings. Darius I., commonly called Darius Hystaspis, or the son of Hystaspis, belonged to the royal house of the Achamenida, and mounted the throne n.c. 521, after having, with six other conspirators, despatched the usurer Smerdis. It was one day agreed among them, according to Herodotus (iii. 42, 83), that they should assemble on the following morning before sunrise on horseback, and that he whose horse neighed first to the rising sun should be king: the horse of Darius neighed first, and Darius was saluted king (iii. 84-87).

Darius was in fact the founder of the Persian constitution. Countries which Cyrus and Cambyses had only subdued he first organized into a systematic kingdom. He divided his vast empire into twenty satrapies or provinces, and appointed a fixed tribute to be paid, as well as a regular supply to be sent for the provisions of the army mid the king's household (iii. 89-96).

A system of communication between different parts of the empire was established by means of couriers sentioned at certain distances for the transmission of the royal me-

sages

Soon after his accession to the throne, Darius was visited by Syloson, the brother of Polycrates, tyrant of Sames, who reminded him of the cloak with which he had obliged him in Egypt, when acting as one of the guards of Cambyers Darius offered him any reward he would name: he asked to be restored to Samos, and put in possession of the king-dom of his late brother. Darius sent Otanes with an army to Samos, and soon succeeded in reducing the island . Mr andrius, who was in possession of it at the time, was allowed to quit it (iii. 139-141). Meanwhile the attention of Darius was called off to another and more important affair. The Babylonians had revolted, and made great preparations for resistance. Darius marched against them with considerable force, and besieged them for a year and eight months, but without success, till the artifice of Zopyrus put him in possession of the city. Zopyrus, one of the officers of Darius, after cutting off his own nose and ears, and lacerating his body in a frightful manner, went over to the enemy, telling them that this was the treatment be had got from Darius, and he had therefore come over to them that he might aid in taking revenge on the tyrant. The Babylonians received him gladly, and not doubting for a of command, and soon intrusted to him the whole city, which he delivered up to Darius. Darius impaled 3000 of the chief citizens, and destroyed the walls and gates of the city (iii. 150-160). Darius employed the Greek navigator, Scylax of Caryanda, to follow the Indus to the ocean and to survey the country (iv. 44); and the discoveries which he made were followed by the subjugation of a portion of the Indians (iv. 44; iii. 101). One of the principal events in his reign was his expedition against the Scythians. He marched against them with a force which is computed at seven of eight hundred thousand men. A bridge of boats was laid across the Bosporus, and the work was executed by Mandrocles, a Samian, who received a present from the king as a reward for the skill which he displayed (iv. 85-87). rius pursued his march through Thrace, across the Danube. to the Don, but met with very ill success, and had great difficulty in escaping eventually. He returned to the Danube, recrossed it, and came back into Asia, leaving Megabasus in Thrace with orders to subdue the Pæones (v. 12-16) Megabazus subdued them and transported them into Asia. where Darius allotted them a district in Phrygia.

In 501 s.c. some disturbances arose in the island of Naxos, which ended in the aristocratical party being obliged to quit the country. They applied to Aristagoras, governor of Miletus, for succour, which he was willing to afford, but was unable to grant without the aid of the Persanta-Aristagoras communicated the scheme with splendid promises of success to Artaphernes, the king's brother and governor of Sardis, who, after procuring the king's consent intrusted a fleet of two hundred ships to the command of Megabates, and ordered it to sail to Miletus to take on board the forces of Aristagoras. After a four months siege their funds were consumed, and Aristagoras had contracted a debt with the Persian government which it was

small; out of the power to disciours. An incorrection of the further access where he executed returned, specially discount, and emiss in the full of M of the Ard 9, a.

The Alborators had given Arabicours hid in the revoll, and bad base or sted the above he acting at Darius, who can produce the common of the larger hand determines, on order to elifer where they were opposed and democrate by Millsolfes in the plain of Marabara a.c. 100. (Hered vi., 10-117) (Marathur). The completed Poesians reformed to Asia. Darius he are in make proportions for unather apparation arealised as for make proportions for unather apparation arealised as for the discount of the war a.v. 182 where a response theory of the Wyptians, who had related his sur Kerren his access.

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DARLINGTON. [Desprise]

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DARNETAL, a fawn in France; in the department of Some Inferieuro, in the insmedial enoughbourhood of Roman, and on a road leading from that city to Beauvieu. It is a busy from, with a population of \$2.70 inhabitants who are evapored in manufacturing the woollon cloth, blankers, druggeds, and other source woollons, callen yare, and printed saidin. There are also several paper-mills and dye-houses. Rosen is partly supplied with outer from a spring at Darameter.

12.4'UNIX (Fabrumas a group of massics of the color

particle. TATUSTS (Fabruma), a grains of insects of the order fromtpiere, and family Corcopedas. The species of this genus have the pasterns part of the pro-theres prolonged as a multy to cover the upper part of the abdoman and wings, or nextly so; this pertian of the pro-theres is of the form of an element of the pro-theres is of the form of an element of the pro-theres.

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The river Part is navigable as far as Totness, and its banks are surrounded with beaut ful scenery. There are the found of any importance at Parimouth. The market day banks any sucremover wan examinat scenery. There are no thous of any importance at Darimouth. The market-day

The living of St. Petrock is a perpetual curacy; the church is beautifully situated at the entrance of the harmon St. Saviour is a perpetual curacy annived to the church is beautifully situated at the entrance of the harbour. St. Saviour is a perpendid curacy annexed to the vicasing of Townstall, in the Patronage of the corporation. The interior station, tachly sculptured and gilt, and the screen is doing of prospection. The living of Townstall is a disjunctional vicasing also in the patronage of the corporation. state of preservation. The living of Townstall is a dis-thorgod vicating also in the patronage of the corporation. If three particles are in the diocese of Exeter and arch-mentity of Follows. There are places of worship for Bap-ical traditional and Wastovan Mathodists. There are In the partial appointed by subscription.

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be given to a Latin master and 3/, 12: 10 Serventer. The frammar-school has no file.

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DARWIN. ERASMUS, an English physician and physician are Elton, near Newark on the physician DARWIN. ERASMUS, an English physician and physician. It is a studying at Elion, near Newark, on the physician experiment. It is a studying at St. John's Collective and taking the degree of doctor of medicine at the married, and resided till after the death of the work. In the work and resided till resource as a second resided the second resided on the 1sth of April, 1802. He is said to have been a man of an athletic personal resource as a second resided 
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is volumes in 4to.: and in 1800, his 'Phytologia,' or Pickeophy of Agriculture and Gardening, in one volume 4to.: and considerable attention; by some they have have and at the present day they are little read or consulted. extravagantly praised, by others as unreasonably depreciated and at the present day they are little read or consultant and oblivion. This author was unquestionably a matrix of Nevertheless, they are far from deserving to sink into negative and oblivion. This author was unquestionably a highly original turn of mind; he was unusually well a sering and illustrating natural analogies, and above all less was fully impressed with a sense of the important truths was fully impressed with a sense of the important truths a universal simplicity and harmony of design through. It is true that his analogies are of the content truths. a universal simplicity and harmony of design throughthe whole creation. It is true that his analogies are officed untenable, and his illustrations.

the whole creation. It is true that his analogies are officer overstrained, but many of these errors were inevitations are by no means sufficient to overbalance his claims to fame as a clear-sighted, ingenious, and often proare by no means sufficient to overbalance to forme as a clear-sighted, ingenious, and often price into two books, very unequal in size and in menals of the principal phenomena of vided into two books, very unequal in size and in The first, which explains the principal phenomena which is devoted to what he early respect to the second curious phenomena of vegetable fertilization. The character of this poem is by no means of a high order makes. curious phenomena of vegetable fertilization. That character of this poem is by no means of a high order we think, be on all hands allowed, for its language is chinery fantastical and incomprehensible; but on the

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lower end, with five prominent ribs, ending in as many sharp-pointed lobes; after flowering, it all drops off, except the base, which surrounds the fruit in the form of a circular disk. The corolla is much larger than the calyx, of a similar form, but its lobes are more taper-pointed. There are five stamens, which are inclosed in the tube of the corolla. The ovary is covered with small sharp points, and contains four cells, in each of which is a considerable number of ovules. The style is cylindrical, smooth, and enlarged at the upper end. The fruit is a spiny oval capsule of four imperfect cells, which communicate with each other in pairs. The seeds are brown, kidney-shaped, with a scabrous surface.

This plant is well known, under the name of Stramonium, as a powerful and dangerous narcotic. Its leaves and seeds are the parts employed, and they are found to possess pro-perties similar to those of henbane and belladonna. The leaves are occasionally smoked, especially by country people, as a remedy for asthma; the seeds are employed by thieves to drug the beverage of their victims. In small doses they produce symptoms of frenzy; in larger quantities, stupor and death. The poisonous principle of this and other species is considered a peculiar vegetable alkali, and called Daturine.

Datura arborea and bicolor, beautiful arborescent South American plants, the former with long white flowers, and the latter with yellow or scarlet ones, are noble objects in the gardens of this country. They participate in the properties of the true Daturas, but they are not now considered to be genuine species, on account of their calyx slitting on one side and remaining permanent around the base of the fruit; they are stationed in a genus called

Brugmansia.

DATU'RA STRAMO'NIUM, or THORN APPLE, an introduced but now frequently self-sown and consequently wild plant, found particularly wherever a garden has been in which it flourished. The leaves and seeds are officinal. in which it flourished. The leaves and seeds are outcinat. The leaves during drying diffuse a stupifying odour, and become deep grayish green; the dried leaves scarcely possess any odour: the taste is disagreeable, saline, and strongly bitter. The seeds are kidney-shaped, flat, about the size of linseed, uneven, nearly black: when bruised the small is disagreeable and repulsive: taste bitterish and oily. smell is disagreeable and repulsive; taste bitterish and oily; by expression sixteen ounces of fresh seeds yield two ounces of clear fat oil, which has neither taste nor odour. The seeds of the other species of Datura are often substituted, perhaps without any great disadvantage. They are also confounded with the seeds of Nigella Sativa, which, though black, are smaller, nearly three-cornered, and have an acrid aromatic taste, and in considerable quantity are poisonous like those of Stramonium.

The seeds are used to form the extract; they, as well as the unripe capsules, yield the alkaloid called Datura, which crystallizes from its solution in alcohol or water in colourcrystallizes from its solution in alcohol or water in colour-less shining aggregated prisms; without odour when pure, but when impure possessing a strongly narcotic odour; taste at first bitter, then very acrid, and like tobacco. This is extremely poisonous: one-eighth of a grain can kill a sparrow in less than three hours; and the smallest quantity applied to the eye causes very lasting dilatation of the pupil. At the ordinary temperature of the air it is quite unalterable: it is much less decomposable than hyoscyamia or conia. In a hydrous state it has a strongly alkaline reaction: acids completely neutralize it and form salts, which are procured by solution of daturia in dilute acids and evaporation in a moderate temperature. They are easily crystallizable. Geiger recommends daturia or its salts as a preferable form to any hitherto in use.

Stramonium in small doses causes slight convulsive action about the throat, with dryness of the tongue, disposition to vomit, and general diminution of sensibility, with slight increase of secretion of the skin, mucous membranes, and kidneys, but if the dose be larger, the brain becomes affected, and vertigo, indistinctness of vision, with dilatation of the pupil, disposition to sleep, or coma, but more frequently delirium, are added. The delirium is always peculiar, and the individual manifests a disposition to perform ridiculous actions, or assume absurd positions. If the dose be still larger, and produce fatal effects, the brain is usually found to be much congested, the vessels being gorged with blood. Large bleedings generally save the patient; emetics can rarely be made to act, as is observed when other narcotic poisons have been taken. Stra-

monium is most useful in cases of increased sensibility, perticularly in local affections of the nerves; it is decidedly useful in allaying pain of the sciatic nerve, particularly when combined with ipecacuan. It has been recommended in manua, especially when accompanied with lucid intervals, in epilepsy, and hysteria; but with very variable success, probably to be accounted for by the careless preparation of the medicine. It is popularly used for smoking, to allay paroxysms of asthma, but its employment in this way is quite empirical and regulated by no clear principle. way is quite empirical, and regulated by no clear principle By the action of heat during smoking, an empyreumatic oil is found, similar in properties to that of hyoscyamus.

DATU'RIA, a vegetable alkali, obtained from the sec is

of the Datura Stramonium, or stramony; it is a colouriese crystalline substance, which has an acrid bitter taste, and is very possonous. It is soluble in about 280 parts of cold and 72 of boiling water, and is readily dissolved by alcohol. It combines with acids, forming salts, which are generally crystallizable, soluble in water, and suffer no alteration by exposure to the air. These salts are decomposed by the alkalis, potash, soda, and ammonia, which precipitate the daturia in the state of colourless flocculi. It does not appear to have been analyzed; but, like the other substances of the same class, there is no doubt of its being composed

of hydrogen, carbon, oxygen, and azote.

DAUBENTON, LOUIS JEAN MARIE, a justly celebrated naturalist and zootomist, born at Montbard in Burgundy, on the 29th of May, 1716. The church was his destination, and he was sent to Paris to study theology; destination, and he was sent to rans to study incology; but he gave in secret those hours to medicine and anatorive which his father hoped he was devoting to ecclesiastical reading. The death of this parent left him at liberty to follow the path he loved; and, having taken his degrees at Rheims, he returned to Montbard, for the purpose of exercising his profession. But there was a kindred spirit that, happily for zoology, had been connected from infancy with Daubenton. The Comte de Buffon, born at the same place, knew him well in youth, and when, in after life, Buffon was knew him well in youth, and when, in after life, Buffon was appointed intendant of the Jardin du Roi, his thoughts reerted to Daubenton as the person of all others qualified to his zeal and ability to prosecute those anatomical inquiries, the details of which his own feebleness of sight prevented him from investigating. The count drew Daubenton to Paris in 1742, and in 1745 the office of Curator and Demonstrator of the Cabinet of Natural History was comferred upon a man eminently fitted by his quick discernment, his untiring diligence, and his inexhaustive patience, to fill the situation with the greatest possible relivantage to the public. No one can open the 'Histoire Naturelle des Animaux' without being struck by the multiple and justness of the facts (for he carefully avoided all theory with which Dupleston parished they would be the strucked. with which Daubenton enriched that work, and in state degree corrected the fervid imagination of his brilliant coadjutor. But he did this without presuming in the least to draw general inferences: he confined himself strictly to facts; and such was his modesty, that Camper used to an of him that he himself was not aware of the discoveriwhich he had made. His valuable labours adorned the which he had made. His valuable labours adorned the fifteen first volumes of Buffon's great work in 4to.; and the diditions in which this essential part of the publication is wanting, are justly considered as deprived of their fairest proportions. But Buffon in an evil hour suffered his ear to drink the intoxicating poison of fawning flatterers, and published a little edition (in 12mo.), of which Daubenten's because the state of t bours formed no part. The hint was more than sufficient for the modest Daubenton, and from that time the assistation of Guéneau de Montbeillard and of Bexon in the ornith. logical department but ill supplied the exquisite disserts and demonstrations which had rendered the former part the work so highly valuable to the physiologist. For 6: years did Daubenton labour without cossation in enrich and arranging the magnificent collection committed : . . . charge. He is said to have been the first professor of ratival history who gave lectures by public authority in Fratione of the chairs of the College of Medicine having i converted into a chair of natural history at his required was conferred on him in 1778. The Convention has elevated the Jardin du Roi into a public school, unthe title of the Museum of Natural History, he was n Professor of Mineralogy, and retained the professor h.p. r. long as he lived. In 1783 he became Professor of Russeconomy at Alfort, and gave lessons in natural h.st. v at the normal school in 1795. To him France in a great measure owes the introduction and successful propagation of the breed of Spanish sheep. In 1799 he was elected a member of the senate, and the alteration in his habits saused by this new dignity is supposed to have hastened his death, which took place after an apoplectic attack of four days' duration in the night of the 31st December and 1st January, 1799 and 1800, when he was nearly 84 years

Daubenton's life, with the exception of the cloud that came between him and Buffon, raised by the weakness of the latter, was a happy one. His hours were spent in pursuits that were dear to him; he was universally respected and beloved, for he was as amiable as he was learned; and his simple habits gave him, notwithstanding his natural weakness of constitution, a long life. Daubenton was mar-ried to the authoress of 'Zélie dans le Desert,' and though his union was in other respects most happy, he left no children.

Lacepede, Cuvier, and Moreau de la Sarte, have justly

sulogized this good and great man.

Notwithstanding his incessant occupation at the Museum, he found time to publish much in addition to his writings in the 'Histoire Naturelle.' He was a contributor to the first Encyclopédie, and many of his papers on the natural history of animals and on minerals are to be found in the 'Mémoires de l'Academie des Sciences,' from 1754 to 1764. Two of his most interesting papers (though all are good) are those of 1762, on fossil bones pretended to be those of a giant, but which Daubenton referred to their true species, giant, out which Damenton referred to their true species, and of 1764, on the essential differences between man and the orang outang. His 'Instruction pour les Bergers,' I vol. 8vo., Paris, 1782, his 'Tableau Méthodique des Mineraux,' 1784, 8vo., and his 'Mémoire sur le premier drap de laine superfine du crû de France,' which also appeared in 8vo. in 1784, must not be forgotten in a recollection of his works.

(Biog. Universalle, &c.)
DAUCUS, a rather large genus of umbelliferous plants, with hispid fruit, of a somewhat compressed ovate or oblong form, the primary ridges filiform and quite bristly, the accondary ridges prominent, winged, and divided at the edge into a number of fine teeth or hooks. De Candolle enumerates 38 species, chiefly biennials, but it is doubtful whether several of them are not mere varieties of each other. The only one to which general interest attaches is the Daucus Carota. This plant, which grows wild all over Europe in chalky soil, is believed to be the origin of our garden carrot, but there is no record of its having first begun to change its hard wiry juiceless wild root for the nutritious succulent carrot of the gardens. De Candolle gives for the range of the wild plant the meadows and pastures of Europe, the Crimea, and Caucasus, whence it has been transported into China, Cochin China, America,

and elsewhere.

nd elsewhere. [CARROT.]
DAUDIN, FRANÇOIS MARIE, the son of a receiver general of finance, was born at Paris towards the close of the eighteenth century. Nearly deprived of the use of his limbs by natural infirmity, he early devoted himself to the study of the sciences, and more particularly to natural history. His memoirs soon found their way into the 'Magasin Encyclopédique' and the 'Annales du Muséum d'Histoire Naturelle, and he contributed some articles to the 'Dictionnaire des Sciences Naturelles.' His two principal works are his 'Traité d'Ornithologie,' which was never finished, and his 'Histoire Naturelle des Reptiles.' For the first much cannot be said: it is on the second that his fame will rest. Cuvier speaks of the latter as the most complete work on that class of animals which had hitherto appeared. His wife, who is represented as amiable both in mind and person, and as having actively assisted in the composition and illustration of his works, died of consumption; and poor Daudin, whose life, as well as that of his partner, had been long embittered by the deranged state of his affairs, followed her in a few days, before he had attained thirty years of age. He died in 1804, and left no children. (Biogr. Universelle, &c.)

DAUNIA. [APULIA.]
DAUNIA. [APULIA.]
DAUPHI'N, the title given to the eldest son of the king
of France under the Valois and Bourbon dynasties. The
origin of the word has been a matter of some dispute. The Counts of Albon and Grenoble are mentioned first in the

Count of Vienne, is said to have been surnamed Le Dayphin, because he wore a dolphin as an emblem on his helmet or shield. The surname remained to his descendants, who were styled Dauphins, and the country which they governed was called Dauphins. Humbert II. de la Tour du Pin, the last of the Dauphin dynasty, having lost his only son, gave up his sovereignty by treaty to King Philippe de Valois in 1349, after which he retired to a Dominican convent. (Moreri, and the French historians.) From that time the eldest son of the king of France has been styled Dauphin, in the same manner as the eldest son of the king of England is styled Prince of Wales. Since the dethronement of the elder branch of the Bourbons in 1830, the title of Dauphin has been disused. The last who bore it was the Duke of Angoulême, son of Charles X.

DAUPHINE', a province of France, constituting (with the principality of Orange) one of the thirty-two military governments into which that kingdom was divided before the Revolution. It was on the south-east frontier. In its form it approximated to a triangle, having its three sides respectively opposite to the north-east, south-south-east, and west. On part of the north-east side and on the west side it was bounded by the Rhône, by which it was separated from the district of Bresse, in Bourgogne, on the north-east, and from the Lyonnois and Languedoc on the west: on the south it was bounded by Le Comtat de Venaissin and by Provence, and on the remainder of the north-east side by the creats of the Alps, by which it was separated from Piedmont and Savoy. It now forms the three departments of Iscre, Drôme, and Hautes Alpes; but the name continues in use, though a different division has been established by

Dauphiné is one of the most mountainous districts in France; branches from the Alps traverse it, and some of the loftiest summits of that mountain system are close upon or within its boundary: no other part of France has points equally elevated. Mont Olan is 13,819 feet, a peak west of Maurin 13,107, and Mont Trois Ellions, east of Grenoble, 12,737 feet. The country is watered by a number of streams, which flow into the Rhône, either immediately, or by the Isère, Durance, and other tributaries. The pasturage is excellent, both in the plains and on the mountains; and the wines good, especially the Hermitage, Côte Rôtie, and

Dauphiné was, under the old regime, subdivided into Haut (upper) Dauphiné and Bas (lower) Dauphiné. Haut Dauphine comprehended the districts of Les Baronies, Le Gapençois, L'Embrunois, Le Briançonnois, Le Champsaur, Le Grésivaudan, and Le Royanes or Royanez. Bas Dauphiné comprehended Le Tricastin, or Tricastinois, Le Valentinois, Le Diois, and Le Viennois. Several of these districts took their names from their chief towns. Dauphiné had a provincial tribunal or parlement which hald phiné had a provincial tribunal, or parlement, which held its sittings at Grenoble. This city, which may be considered as the capital of Dauphiné, as well as of the subordinate district of Grésivaudan, is on the Isère: it had in 1832 a population of 24,268 for the town, or 24,888 for the whole commune. The other chief towns are Vienne, capital of Le Viennois (population 13,410 for the town, or 14,079 for the whole commune); Valence, capital of Le Valentinois (population 8898 for the town, or 10,406 for the whole commune), both on the Rhône: Romans, on the Isère (population 7677 for the town, or 9285 for the whole commune); Voiron (population 6924); Montelimar, on the Jabron, which falls into the Rhône (population 5816 for the town, or 7560 for the whole commune); Gap, capital of Le Gapençois (population 4572 for the town, or 7215 for the whole commune); Crest, on the Drôme (population 3895 for the town, or 4901 for the whole commune); Bourgoin, on a small stream which flows into the Rhône (population 3447 for the town, or 3762 for the whole commune); Die, capital of Le Diois, on the Drôme (population 3213 for the town, or 3555 for the whole commune); Nions, or Nyons, on the Aigues, which flows into the Rhône (population 2700 for the town, or 3397 for the whole commune); Embrun, capital of L'Embrunois, on the Durance (population 2392 for the town, or 3062 for the whole commune); St. Marcellin, near the Isere (population 2191 for the town, or 2776 for the whole commune): Le Buis, capital of Les Baronies, on the Ouveze (population 1886 for the town, or ninth century as feudatories of the kingdom of Arles; they afterwards assumed the title of Counts of Vicane, and became independent, like other great feudatories. Guy VIII.,

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orte. Lou de isabe place.

Better the Roman Congress this country was missible i te Coine when the Alborriges in the north, and in the searth the Segulating or Segreve lating, and the Thousand on the banks of the Rhobes, the Procora and the Caranges, among the Alps, and the Vocquita in the intermediate space. The Vacontal the Segulaum, the Tricustina and permars the I record were the earliest subdued. The Allebriges had been reduced to subjection by C. Pemptinius, the prætor, a short time before Casar's arrival in Gaul; but the Caturiges, in the fastnesses of the Alps, preserved their independence, and attempted with the other mountaineers to impede Cæsar's march when he led his forces out of Cisal-the alteration was his own.

Car, ... rose the Heiveni. (Cas., Bel. Gal., I., 10.) The state of in the time of Augustus. In the name of the movine Narbonensis: when, when the name of the nam era densis recuired and partiy in Alpes Mariart : at owns under the Roman d -0.04 ennes and Cularo, afterwards en a secentary of the Allobroges; letter in the territory of the Segalaum; Dea The Vicontine and Rhrodum in the the latternes: Vienna, Valentia, at it is the Tout me inwitted of the Roman The Limitane amen art it the kingdom of the Burand from the overthrow of that The time of Charles Martel. \_\_\_\_ ur : he andmem of Bourgogne Cisjurane, were the end of the minth century. is the cleventh century, or struct mary most rencipalities were formed in Tel. 10 Tree weeza, among which were cancil The counts of Albon acquired and the same attitude resummance mone tiese nobles, and in course of 2 mession I as irrsivaudan, Le Viennois, Le \_\_\_\_\_ Brianconnois. Guy VIII. reili is ... The lead in the minute of the twentin century, was the The second of Country the successors that a second of Albon the second of Landing the second of Albon the second of Landing the second of the country THE TENTILE I IS ONE the name of Dau-The second subjection to the emains shorts out that he nown of Bourgogne had sen inner. The laurinin H innert IL, by treaties make it he was labely across the states in favour of the rince. He aminuted to Dauphin, by the treats he seemn on it Philope VI (de Valois), then mare: - car be ommon notion that he staest his ne meet on sound bear the title is erro-C-1150 imprenenties the instruts enumerated above as belonging he other parts of Dauphine are DAKA 1 STEP. and the service of the Employ. Provinceme, Dict. Uni-

A THE D'ALTERGNE, a small territory of automatic policy of Autorgne, surface elect to resistance IV. Count of Autorgne, and the best country of Autorgne, and the best country of Autorgne, and the best country of Automatic policy of the country of Automatical Country of the country of the country of Automatical Country of the country o then ances then his pointy by his uncle Guillaume are the amer. V dame, a small town near Issoire,

vas ne nri na His miler seek the Crown Inn there, and some are pinered from Ward's words, hints of a connection average existing retween his mother and Shakspeare, who To see ou and the of enter ainment. He was entered mitted inters. Other but it does not appear that he was a legate. He men became page to the duchess of in amount my was afterwards in the family of Lord Brooke, me meet, in the succeeded Ben Jonson as laurent; was arrised by the parliament, and forced to terire to France. I so years after, he was knighted by immes at the siege of Goodester; but in 1646 we find him igain a 2 ance, a Roman Catholic, and in the employ 1 25 meets. Being taken prisoner at sea in 1651, he only source being tried for his life by the intercession of some Thereis among whom are said to have been Milton and Vilterorise. His works consist of dramas, masques, adirroses, and in undaished epic called Gondibert, which he tedicates to riboues. The only work for which he is now rememoered is an alteration of the Tempest, in which he was engaged with Dryden; and marvellous indeed is it that two men of such great and indubitable genius should have combined to debase and vulgarize and pollute such a nem: but to the scandal of the English stage, it is their Tempest, and not Shakspeare's, which is to this day represented (Southey.) He appears to have been the first to mix the English drama with the French heroic play, and to introduce the examples of moral virtue 'writ in verse, and performed in recitative music.' (Dryden.) As he established a theatre as early as 1657, the times might be par ly in fault, but his long residence in France had probably

He died in 1668, and was buried in I influenced his taste. Westminster Abbey. (Wood's Athen. Oxon.; Biogr. Brit.;

Southey's British Poets.)
DAVENTRY. [NORTHAMPTONSHIRE.]

DAVID. [P.SALMS.] DAVID, JACQUES LOUIS was born at Paris in 1750. In 1774 he went to Rome to study; he returned to France ten years afterwards, and attained considerable reputation, both as an historical and portrait painter. Upon the break-

ing out of the revolution he threw himself amongst the foremost ranks of the revolutionists. He was the intimate friend of Robespierre, and was appointed manager of all the spectacles and allegorical shows of the republic. He proposed to construct a colossal figure of the people out of the ruins of the statues of the kings, to be placed on the Pont-Neuf, but never proceeded fartner than a model, from which, however, the design for the reverse of the republican coin was taken, which was used several years. When Robespierre, anticipating his downfall, expressed himself ready to die the death of Socrates, David, who was present, exclaimed, 'Robespierre, if you will drink the hemlock I will drink it also.' In 1794 he was denounced, and imprisoned, altogether for about a year; but was ultimately liberated, and appears thenceforward to have taken a less prominent part in political matters. He was appointed principal painter to the National Institute. In 1815 he was banished from France with those who had voted for the death of Louis XVI., and took up his abode in Brussels, where he died December 29, 1825. Many anecdotes of his cruelty during the revolution are related by his ene-mies, but they are not well authenticated; others, in proof of his patriotic magnanimity, are scarcely better esta-blished. He appears in truth to have been a man of narrow capacity, and of a warm but not malicious disposition. He is described as being afflicted with a tumour in his jaw, which disfigured his appearance, and so disturbed his utterance that he could not speak ten words in the same tone. To this imperfect speech he added a blustering manner.

David is said to have expressed a wish, that, if an Athenian were to revisit the earth, he might take him for a Greek painter. This is the key to his style, which is a servile imitation of the Greek sculptures; his figures are like statues coloured and put in motion; his drawing is correct, and his composition classical; but his design is constrained and artificial, with a hard outline and harsh colour. The 'Rape of the Sabines' is considered one of the best of his works, which are chiefly at Paris. His por-

trait of Napoleon is well known.

DAVID'S, ST., a city and parish in the hundred of Dewisland, in the western extremity of Pembrokeshire. It Dewisland, in the western extremity of Pembrokeshire. It was antiently large and populous, and during the middle ages was the resort of a great number of pilgrims. At present its appearance is that of a poor village, the houses, excepting those of the clergy, being mostly in a ruinous state. The locality is lonely, and the neighbouring district wild and unimproved; but it is still an interesting place as the seat of a large episcopal see, with a fine cathedral and the remains of other magnificent religious edifices. The situation is near the rocky promontory called edifices. The situation is near the rocky promontory called St. David's Head, on a declivity, a mile from the northern shore of St. Bride's Bay, 16 miles north-west of Haverford-west, 26 north-west of Pembroke, and 270 west of London. In 1831 the population of the parish, of which the Isle of Ramsay constitutes a part, was 2388. Druidical remains are numerous in the neighbourhood, consisting of sepulchral heaps of stones, barrows, tumuli, holy wells, and some antient fortifications. It is said that a church and monastery were first founded here by St. Patrick about A.D. 470. It is certain however that in the first period after the introduction of Christianity into Britain, three archbishops' seats were appointed, namely, London (transferred afterwards to Canterbury), York, and Caerleon, in the county of Monmouth, and that this last was removed about A. D. 519, in the reign of King Arthur, to Mynyw (called by the Romans Menevia), which received the name of St. David's in honour of the archbishop and saint, by whom the transfer was accomplished. Hence the appellation of Menevensis, assumed by the bishops of this see, which was the metropolitan and archiepiscopal see of Wales until A.D. 930, when Sampson, the last of twenty-five archbishops, withdrew to Britanny, and carried with him his clergy and the sacred pall of office. (See a description of this holy ephod by Cressy, 1. 35, c. 15.) His successors continued however to administer consecra-

tion to the priesthood until the reign of Henry I., when Bishop Bernard acknowledged subjection to the see o. Canterbury. The diocese of St. David's contains the entire counties of Pembroke, Caermarthen, Brecknock, and arts of Radnor, Monmouth, Hereford, Montgomery, and Glamorgan. The ecclesiastical corporation consists of a bishop, four archdeacons, a precentor, chancellor, treasurer, nineteen prebendaries, eight vicars choral, four choristers, and several subordinate officers. On the south side of the city, towards the sea-shore, stands the cathedral, the epis-copal palace, and college of St. Mary, in ruins, and several other buildings for the residence of the clergy and other appropriate uses. This group occupies a spacious area called The Close, which is surrounded by a lofty wall about a mile in circumference, having four entrances, north, south, east, and west. The principal gate is the eastern, between two massive towers, one sixty feet high. The little river Alan runs through the area, and was crossed by a marble bridge, worn and polished by the pilgrims' feet. Though great damage was done to these edifices by the puritan fanatics of the seventeenth century, their former magnificence, when the episcopal power was equivalent to so-vereignty, is apparent in all that remains. The bishop's palace was the most magnificent in the kingdom, the kitchen and cellars being no less admirable than the state apartments. The first cathedral, from its nearness to the sea, was often plundered, and at last was burnt and de-stroyed by Danish and Norwegian pirates in 1087. The architecture of the present structure, which was erected by Peter, the forty-ninth bishop, is Norman, blended with the richly-pointed Gothic. It is cruciform, 307 feet in length, with a lofty square tower at the west end, a nave, choir, transepts, side aisles, and lateral chapels, one of which is roofed with slabs of freestone. The rood-loft, screen, and roof, which is of Irish oak, are specimens of great architectural skill. The choir is very lofty, containing twenty-eight stalls and a curious moveable pulpit. The bishop's throne is of exquisite workmanship, and resembles that in Exeter cathedral. An altar-tomb, of the son of Owen Tudor, is similar to that of Prince Arthur in the cathedral of Wor-Numerous antiquarian relics are collected and preserved in the building. In the walls and floor are many sepulchral monuments of the early bishops of the see, as Giraldus Cambrensis, Anselm, Gower, &c. The most antient is that of Rhys ap Gruffyd, prince of South Wales, A.D. 1196; and the most venerated is the shrine of the Archbishop St. David, the tutelar saint of Wales. During many ages it was visited by innumerable pilgrims, among whom were many nobles and kings. William the Conqueror paid his devotions in 1077, Henry II. in 1171, and Edward I. and Queen Eleanor in 1284. The shrine has four recesses for the deposit of the offerings of the pilgrims, who at once relieved their consciences and their pockets. It was ordered their consciences and their pockets. It was ordered to the constitute that two pilgrims to St. David's dained by Pope Calixtus that two pilgrimages to St. David's should be accounted equivalent in efficacy to one to Rome. Roma semel quantum dat bis Menevia tantum.' handsome college of St. Mary was founded in 1365 by John of Gaunt. The chapter-house contains a school-room for the instruction of the choristers, and an elegant dining-room, with kitchen and cellars, for the use of the canons when they assemble to audit the accounts of the see. The bishop of St. David's formerly possessed several other palaces and manor-houses in the counties of Pembroke, Cardigan, and Brecknock. The present episcopal residence is at Abergwilly, near the city of Caermarthen, in a noble palace rebuilt by Rishop Russess. palace rebuilt by Bishop Burgess. Among his distinguished predecessors in the see have been Dr. Davies, a translator of the English Bible at the Reformation, and Drs. Laud, Bull, Louth, and Horsley.

(Tanner's Notitia Monastica, p. 717; Dugdale's Monasticon, vol. vi., p. 1301; Fenton's Pembrokeshire; Bishop Burgess's Vindication, &c., 4to., 1812; Life of St. David in Acta Sanctorum Martiri, tom. i., p. 39; Brayley and Britton's Beauties of Wales, vol. xviii., p. 821-840. The Harleisa MS., No. 1294, contains the statutes of the cathedral, and

documents relating to its possessions.)
DAVID'S DAY, ST., March 1. DAVID'S DAY, ST., March 1. St. David, archbishop of Menevia, now called from him St. David's, in Pembrokeshire, lived in the fifth and sixth centuries of the Christian are: Pita talle up that he is a continuous continuou tian sera; Pits tells us that he died at the age of 146 years. He is said, in the days of the memorable Arthur, to have gained a victory over the Saxons, his soldiers during the conflict, for distinction and as a military colour, wearing locks in their caps. In memory of this fight the Welsh still wear the leek on St. David's Day; and it is to this that Shakspeare alludes in 'Hen. V.,' act v. sc. 1, when he makes Gower upbraid Pistol for mocking 'at an antient tradition, begun upon an honourable respect, and worn as a memorable trophy of predeceased valour.' (See Brand's Popular Antiq. 4to., vol. i. p. 86; Brady's Clavis Calendaria, 8vo. Lond. 1812, vol. i. p. 228, &c.) DAVIS, JOHN, a celebrated navigator of the sixteenth

century, was born at Sandridge, near Dartmouth in Devonshire, and distinguished himself by three voyages for the discovery of a north-west passage, which he undertook between 1585 and 1587. He discovered the strait, which bears his name, and sailed along the coast of Greenland as far as 72° N. lat., but was not able to approach the opposite coast, on account of the numerous icebergs which lined it north of the Polar Circle. He afterwards made five voyages to the East Indies, and was killed in the last (1605) in the strait of Malacca, by some Japanese, as it is reported. He published an account of his second voyage to the north-west, and of one to the East Indies.

DAVIS'S STRAIT unites Baffin's Bay to the Atlantic, extending between Greenland on the east and Cumberland island on the west, in a northern direction. Its extent is not well determined. Navigators commonly understand by this name the sea extending west of Greenland from Cape Farewell (60° N. lat.) to Disco Island (70° W. lat.) Its narrowest part is near the Polar Circle, where it is about 200 miles across. It is the principal resort of the whalers, the fish being more numerous here than in other seas near the pole. But the immense icebergs, which even in summer line the western coasts of the strait, and the violence of the currents, render these voyages very dangerous. Many of the icebergs rise some hundred feet above the level of the sea, and the whalers which arrive at the end of April or in the beginning of May find the whole strait blocked up by a barrier of icebergs between Cape Walsingham and the Greenland coast. The current, which runs along the eastern coast of Greenland, turns round Cape Farewell and conti-nues along the western coast of Greenland, nearly up to the Polar Circle, where it crosses the strait to Cape Walsingham and continues in a southern direction to Labrador and Newfoundland. By this current the immense icebergs of Davis Strait are carried down to the centre of the Northern Atlantic, where they sometimes are met with as far as 401 N. lat. The countries on both sides of the strait rise in rocky mountains to a considerable elevation, and exhibit a very scanty vegetation. They are inhabited by the Esqui-

DAVISON, SECRETARY. [ELIZABETH.]

DAVITE, a name given to a sulphate of alumina, found in a warm spring which contains sulphuric acid, near Bogota in Columbia. It occurs massive, is of a fine fibrous structure, a white colour, and silky lustre. It is very soluble,

and has a very astringent taste.

DAVY, SIR HUMPHRY, was born at Penzance in

Cornwall, on the 17th of December, 1778. His ancestors had long possessed a small estate at Varfell, in the parish of Ludgvan. His father was a carver in wood. According to Dr. Paris, one of Sir Humphry's biographers, his father was not remarkable for any peculiarity of intellect; and his mother appears to have been a very respectable woman, who conducted herself, according to Dr. John Davy, the brother of Sir Humphry, so as to gain the regard and good will of every one. At the time of his father's death Humphry was sixteen years old; but his mother lived to witness the rapid progress made by her son in the various departments of chemical science. In speaking of his early days, Dr. Davy admits that many boys have shown precocious indications of talents superior to his; 'there belonged, however, to his mind,' he adds, 'it cannot be doubted, the genuine quality of genius, or that power of intellect which exalts its possessor above the crowd, and which, by its own energies and native vigour, grows and expands, and comes to maturity, aided indeed and modified by circumstances, but in nowise created by them.' It appears that in his It appears that in his early youth he had a vivid and fertile imagination, and was fond of poetry, and his brother has preserved several favourable specimens of his poetic talent. He does not appear to have been fortunately placed at school in the first instance; but he was afterwards, till he was fifteen years of age, with Dr. Cardew, whose school he quitted 793. Here he appears to have made considerable pro-

gress in learning, but certainly not such as gave any mdi cation of his future eminence.

In the beginning of the year 1795 he was apprenticed to Mr. Borlase, a surgeon and apothecary of Penzance, where he appears to have laid down an extensive plan of study. not merely of the sciences which related to his profession. but the learned languages, mathematics, history, &c. Days states that he is not able to give a precise account of the nature and extent of his medical studies; but in the fourth year after he had commenced them he was considered ' competent by Dr. Beddoes to take charge of an establishment which he had founded at Bristol under the name of the Pneumatic Institution; this was in 1798, when

he was scarcely twenty years old.

In the following year Dr. Beddoes published a work, entitled 'Contributions to Physical and Medical Knowledge, principally from the West of England.' Among these were contained 'Essays on Heat, Light, and the Combinations of Light, with a new Theory of Respiration; on the Generation of Oxygen Gas, and the Causes of the Colours of Organic Bodies. By Humphry Davy. These caseys, his first publication, his brother characterizes 'as the bold at-tempts of an original and enterprising mind,' and observes that they bear the stamp at the same time of youth and of genius, in the faults of the one and the redeeming qualities of the other.' Most of the peculiar views developed in these essays were speedily abandoned by the author; and his brother admits that many of the speculations, he might perhaps have said most, were wild and visionary, and adds, what will be readily admitted, 'that the wildest of them are most natural to a young mind just entering on the twilight of physical science, gifted with high powers and a vivid imagination.'

His next recorded experiments relate to the existence

of silica contained in various plants, especially in the endermis of came; and in 1809 he published in one volume 8vo. a work entitled Researches, Chemical and Philosophical, chiefly concerning Nitrous Oxide and its Respiretion.' In this work, which contained the details of numerous highly interesting experiments, he has minutely detailed the extraordinary effects produced both upon him-elf and others by respiring nitrous oxide, a gas till then deemed This work also contains an account of some extremely hazardous experiments which he made upon himself in breathing carburetted hydrogen, carbonic acid gas, azote, hydrogen, and nitric oxide; in these dangerous trials his life was more than once nearly sacrificed.

In 1801 Davy came to London, and on the 25th of April he gave his first lecture at the Royal Institution. He began with the history of galvanism, detailed the successive dis-coveries, and described the different methods of accumulating it; and on the 31st of May, 1802, he was appointed professor. From the year 1800 to 1807 a great variety of subjects attracted his attention, especially galvanisms and electro-chemical science; the examination of astringent vegetable matter in connection with the art of tanning, and the analysis of rocks and minerals with relation to geology and to agricultural chemistry. In November, 1997, his second Bakerian lecture was read, in which he announced the most important and unexpected discovery of the decomposition of the fixed alkalis by galvanism, and of the metallic nature of their bases, to which he gave the names of potassium and sodium. Dr. Paris has well ebserved that Since the account given by Newton of his first discovenes in optics it may be questioned whether so happy and successful an instance of philosophical induction has ever been afforded as that by which Davy discovered the composition of the fixed alkalis. From the year 1808 to 1814, the following papers by Davy were read before the Royal Society, and published in their 'Transactions':-

Electro-chemical Researches on the Decomposition of the Earths; with Observations on the Metals obtained from the Alkaline Earths, and on the Amalgam procured from

Ammonia,' read June 30th, 1808.

'An Account of some New Analytical Researches on the Nature of certain Bodies, particularly the Alkalia, Phusphorus, Sulphur, Carbonaceous Matter, and the Acidshitherto uncompounded; with some general Observations on Chemical Theory, December 13th, 1808.
'New Analytical Remarks on the Nature of certain

Bodies; being an Appendix to the Bakerian Lecture for 1808, February, 1809.

The Bakerian Lecture for 1889; on some new Electro-

with some Reperturents on Solighur and Phosphere, Taily 15th 10 pc,

"The Bokeston Leature for 1910, on some of the Combinations of Cosymmetric Arct Gas and Orggen, and on this Elsenical Relations of those Principles to Inflammable Radio, November 19th, 1910,

"On a Combination of Oxymmetric Gas and Daygen Issa" Paleour 20th, 1811.

"The some Combination of Phosphorous and Solphur, and on some other Solighurs of Chemical Inquiry, June 19th, 1812.

"On a new Distriction Companies, Nov. 5, 1812.

"Annex Parties Chemical Recognitions on the Substances pulsation of the Substances pulsation of the Substances pulsation in the Substances and Substances in the Substances and Substances in the Substances and Substances in the 
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Allowing Benefits of the Attains and Earlies, and our some influencement of the Attains and Earlies, and our some influencement of the Attains and Earlies, and our some influencement of the Attains and Earlies, and our some influencement of the Attains and Street, and our the Rismant of Manchine And of southern Experiments on Godfalur sold Planquisees, John Line Learner & 1975, on some of the Contribution of the Earlies of Earlies and Copyron, and an influencement of Copyron and the Earlies of Earlies of Earl "Bounce Trajections to all Characterisms on the Rubbathson (Southwest in different (Chemical Processes on Fluor Mpar," Joney 1813.

"An Account of some new Experiments on the Thorris Characterism (Chemical Processes on Fluor Mpar, July 1815.

"An Account of some Theory of these important subjects of Figure 1814.

After the manuscration of Bloss important subjects, we some discussed in particular and the paper." It said unit says Dr. Dary," at sempler of these color to those in the wester of his section and the covering which the reset important had not discussed which flex woulant, referring the chemical resolve to the covering and the several which flex woulant, referring the chemical resolve to the stripinal for full authorism. After the extraction of morallic bases from the flex discussion. After the extraction of morallic bases from the flex discussed in practice of the strongest kind inchesive that the atkaline worlds are contactly constituted; and has surrounded in practice for the strongest kind inchesive that the atkaline worlds are contactly constituted and the search side on the first attempts, braiding the nation of these sorths in a tolerability pure and manufact state for flexes sorths in a tolerability pure and manufact state for flexes sorths in a tolerability pure and manufact state for the purpose of expectations. On his return to the bisteries, there are no flexes, with one of the own. By appaired offerentially for a carties, sightly maintened, and manufact fix reducing the various sightly maintened and manufact fix reducing the various sightly maintened and manufact fix reducing the various sightly maintened and manufact fix reducing which for process and their rety process of short touts, so one of the own, but consequence of the very action of necestry, to content with a globule of necestry, be extended to a process, and their rety process of short touts, so of the mature of the sound that the short proposed for the formation of the sound that the passes of the sound of the processes of sho

The plan or the last subject, which he afterwards to great manner retrograds to may be seen in the Davy's Life of a Planaphy, vol. L. y. 107. They planted the decomposition of the bird alkalis,

and the finest constitution. (Exempers of commerce, edition.)

Davy was lengthed as the after April, 1812, and on the 11th of the same month he married Mys. Aprent, the widow of Sixuckhargh Ashiy Apreces, Esq. obtain on of Six Toomas Apreces; this lady was the daughter and houses of Charles Koer, of Kolso, Esq., and passessed a very considerable furious. He was afterwards orested a become. He deal as the 28th of May, 1800, at General.

DAV YNE, a spicious mineral found in cavilies in some of the masses opered from Vesterius; the primary term is a rismalisal, but it assure in regular houseward prisms, with the norminal edges trumpated. He fractors is considerably cleavage parallel to the planes of the houseward prisms. It is transparent, solver since or vellawish length kirrak white, having virtuans, passiy upon the decrays granes. Hardiness, 5.6, 5.5.1 specific gravity, 2.4.

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DAWES, RICHARD, was born at Market-Bosworth in | the year 1708. His first teacher was Anthony Blackwall, the well-known author of The Sacred Classics, after which he spent some time at the Charter House, and went to Emanuel College, Cambridge, in the year 1725; he was elected fellow in 1731. In 1736 he published a specimen of a translation of 'Paradise Lost' into Greek hexameters, which proved, as he afterwards admitted (*Pref.* to his *Miscellanea Critica*), that he was then very insufficiently acquainted with the Greek language. He became master of the grammar-school at Newcastle-upon-Tyne in 1738; but his disagreeable manners diminished the number of his scholars, and he resigned the situation in 1749. In his his scholars, and he resigned the situation in 1749. In his latter days his principal employment was rowing in a boat on the Tyne; he died at Haworth 21st of March, 1766. The work on which his fame rests is his 'Miscellanea Critica,' published at Cambridge in 1745, which places him in the same class with Bentley and Porson as a verbal Greek critic. The work is divided into five sections, of which the first contains some emendations of Terentianus Maurus; the second is a specimen of the want of accuracy in the Oxford edition of Pindar; in the third are some general observations on the Greek language, to which are added some emendations of Callimachus; the fourth is a short discussion on the Digamma; and the fifth is devoted to the illustration of Aristophanes. The leading characteristic of the scholarship of Dawes is a proneness to rash generalization; and though it has been termed the scholarship of observation, it must be admitted that Dawes is too apt to form general rules from an insufficient number of passages, and consequently that his system scarcely deserves that title. Hardly one of the syntactical rules which Dawes has laid down has been admitted as unexceptionable; and some of them have been completely overthrown by the number of passages in which they are violated. The authority of the 'Miscellanea Critica' was however so great for some twenty or thirty years after its publication, that many readings supported by MS. authority were altered to meet the canons in that book. The violent animosity which Dawes everywhere shows towards Bentley is only to be accounted for by the universal dislike which that great scholar had incurred during his quarrels with Trinity College, about the time when Dawes was a young member of the university. The best editions of the 'Miscellanea Critica' (which may now be considered as superseded by the advances which Greek scholarship has made during the last thirty years) are those by Burgess, Oxon. 1781, and by Kidd, Cantabr. 1817, in which specimens of his other writings may be seen.
DAWLISH. [DEVONSHIRE.]

DAX, a town in France, in the department of Landes. It is on the south-east bank of the Adour, just to the left (across the river) of the high road from Paris by Bordeaux to Bayonne: 502 miles from Paris, 124 from Bordeaux, and 37 from Bayonne, in 43° 42' N. lat., 1° 3' W.

This town is situated in a beautiful plain. It is well laid out, and not badly built: the remains of the antient ramparts and of the towers by which they are flanked show traces of Roman work. The waters for which the town is famous rise out of the earth at the bottom of a large basin, about thirty feet square, and two and a half to three feet deep, paved at the bottom and sides, and situated in the centre of the town; they are inodorous and insipid, and so hot that the hand cannot be held in them. The temperature of the water in the basin is about 56° of Réaumur or 158° of Fahrenheit; but a thermometer plunged into the pipe by which the waters enter the basin, rises to 66° of Réaumur or between 180° and 181° of Fahrenheit. The vapour which rises from this basin, condensed by the cold morning air, sometimes forms a dense mist, which envelops the whole town. The waters are not used medicinally; some laundresses use them, and some bakers for making bread. There are however in another part of the town mineral waters which are used in the cure of rheumatism, but not to any great extent. The cathedral is not remarkable. There are an antient episcopal palace, a high school, and an hospital: also an agricultural society, and a small museum of natural history. There is a bridge over the Adour, and some pleasant public walks along the bank of the river. The inhabitants, who in 1832 amounted to 4716, carry on a considerable trade with Bayonne in the produce of the neighbouring districts,—wines, liqueurs, hams, resin,

and wool. There is a considerable weekly market for corn and cattle.

Dax is of great antiquity: its mineral waters were known to the Romans, who called it Aques Augustes (Pliny), ami Aque Augusta (Pliny), and Aque Augusta (Pliny), and Aque Tarbellice (Itinerary of Antoninus), from the maine of the tribe (Tarbelli) in whose territory it was situated. It appears to have held a high rank among the towns of Novempopulana. In the writings of the English chronicler, Roger de Hoveden, the town is mentioned under the name of Civitas Akensis: at a later period the name was corrupted position de, we have the modern designation D'Ax or 1)...

After the downfall of the Romans, the town passed ::

the hands of the Goths and the Franks. From the tweet. century to the year 1451, it was under the English crown When the English were driven out of Gascogne; Charles VII.

united Dax to the French monarchy.

The bishopric of Dax is very antient. It is said to have been founded in the third century by St. Vincent, a martyr. whose body was said to be preserved in a church near the whose body was said to be preserved in a church near the town. Nothing certain is however known respecting the see until A. D. 506, when the bishop, Gratian, assisted at the council of Ayde. The diocese comprehended parts of Béarn and Basse Navarre (Lower Navarre), as well at the district of Les Landes, in Gascogne. The bishop was suffragan of the archbishop of Auch. The see is not be a suffragant of the archbishop of Auch. abolished. Before the Revolution there were several convents in the town and suburbs.

Dax is the chief town of an arrondissement, which comprehends the south-western part of the department: the population of the arrondissement in 1832 was 99,463.

DAY, any astronomical period which depends directly upon the earth's rotation; or the interval between two transits over the meridian of any point in the heavens, real or imaginary. But the only days distinguished by the name in astronomy are the sidereal day, the real solar day,

name in astronomy are the staereal any, the real solar any, and the mean solar day.

The sidereal day is the interval between two transits of the same fixed star; that is, the absolute time of revolution of the earth. It is divided into 24 sidereal hours, &c. It begins when the equinox is on the meridian of the place.

The real solar day is the interval between two noons of transits of the sum over the meridian. Owing to the unique merion of the sum as well as the obliquity of the

equal motion of the sun, as well as the obliquity of the ecliptic, it is not of the same length at all periods of the year. The mean solar day is the average of all the reco solar days; it is derived by supposing a fictitious sun t-move round the equator, and uniformly in the same turns as the real sun moves from an equinox to the same aga in The method of adapting the motion of this fictitious both to that of the real sun will be explained in Time, Equin

The civil day, in England at least, is the mean solar day. and begins at midnight; that is, when the fictitious sum on the invisible part of the meridian. But the astronomical day always begins at the noon of the civil day, and the hours are reckoned forward up to 24. Thus eleven o'clock in the morning on the twelfth of January (civil reckonds is 23 hours of the astronomical eleventh of January. As: noon, and up to midnight, the astronomical and cavil reckoning coincide.

The mean solar and sidereal days are thus related: the mean solar day is 24 h. 3 m. 56 s., 55 of sidereal time; a: i the sidereal day is 23 h. 56 m. 4s., 09 of a mean solar day

The antients almost universally began their day at sinrise, with the exception of the Arabians, who begin a noon, and the Egyptians at midnight. Among the moderns, most of the eastern nations begin at sunrise, with the exception of the Arabians, who still begin at noon, and the Chinese, who reckon from midnight. The Austria: Turks, and Italians reckon from sunrise, and other European nations from midnight.

DAY, THOMAS, was born at London in 1749. Il-father held a place in the Custom House, and died when he was a year old, leaving him a fortune of 1200l a year. He received his school education at the Charter Houx. and at the age of sixteen was entered a gentleman commoner of Corpus Christi College, Oxford, where he remain for three years, but left without taking a degree. He that spent some summers in travelling through and residing if France and other parts of the continent. He had alreadopted certain strong and peculiar opinions on the submit of education, holding, apparently, on the one hand that the

someone made of administry was alkally ventous and on the arbor, float by a greene administry that the consequence of the state of the little of the consequence of t

Like populary affice of both dearants and determinants we allowed to work at it moves, to be the administrators of the sign of

by the Eurholt charge, the numerominage, and the pression form of usediration, but the pression during of the officer seem to be had sught of. In fact the Poss Lare, by presting contain and others whose thaty it is in attend in the recention. have residened the services of the descent in role has claracteristic cognitive less recently.

In some disconting communities there are descent who sail the large the during for which the office was instituted, salisating the sizes of the people at the succession, and distribution them made the peer. But they are always by made to persons who have not constituted for the forms, generally few and slight, of eccination, as precised among the disconters.

There is a form for the ordination of dearces in the English shorth; some clargymen tower take pressts indicate it organize by the Rulein Hat a person in dearch's orders is empowered to read publish the Engineers and homelous is empowered to read publish the Engineers and aspectably in the Louisants. When we morphish in the light in which this form places him, he appears or an essection to a pressl, for he to seek but the each and per and repers them in the press, and in the share it has no be pressed to a pressl, for he to to seek but the each and per and repers them in the press, and in the absence of the press in bactory. This latter provises in the left to the introduction of this performance of other sectes to the introduction of the performance, and the limits in the dead. To fact the discussion performs all the ordinary offices of the Christian prosthered, except consecrating the elements at the after distraction of the Land's Supper, and pronouncing the absolution.

A person may to ordeined denome at twenty-three. Hat may then become a chapter in a private family; he may be curate to a beneficial clorgymon, or lecturer in a period-charryh, but he cannot foold any benedice, or take any scala-cearing parameters. You this it is requisite that he take point's arrives.

pricet's arriags.

DEAD SEA, called also Lake Appliabilities, is situated in the Hely Land, or Pulestine, between at and ag N. In) and as and at E. Imp. It extends people each assault about 50 miles, and possences about 22 miles when with about 50 miles, and possences about 22 miles when with about 50 miles and reasonably inwards its representational but it in mirrors considerably inwards its representational better the object of country sometimes constant the time velocity in a pillar contain with appliation, which they present is the pillar of sair into which Let's wife sor it inplants is the pillar of sair into which Let's wife sor it informed, according to the account of the sacred volume. The towns of Embass, Gornarah, Adama, Schoot, and Secor, which were avoidoned up by its votes, are out to have been on its vestern bank, where some flow ruins mean.

there been on the embern bank, where mouse few runs mean.

The water of the lake is purposed and bitter. Asphaltium fleats on its surface, and the views also the whole of the extent of its aboves, and thewise the runs will existing upon it. The lake throws up on its bunks, peace of portified wood and persons stones in a calcined state. The runs Jordan falls into it at its northern extremity, but the lake has no onliet. From its merthern extremity a savely plain extends along the Jordan; but on all other stage it is acclined with master of bare stones and rocky fulls, on which only small tufts of exitain shrube grow, from which a baleam is extracted. The deep but marrow valless which traverse these masses of stone are melaned by high mountains, and the whole presents a dismal and sombore slight. At the most southern extremity bearing a stony valley, which traverses Arabas Petrasa nearly in a scatthern direction, and terminates at the guil of Araba, the north-existern sent of the Red Sec. The northern part of this waterless valley is called in Ghor, and the sutthern El Araba. On faith shire of the extend the high and many table-lands of Arabas (Court Forbin's Trends in Greece, Torkey, and the Holy Lond.)

DEAF AND DUMB. The subject of deafment and the extent to which it prevails, and lower still form our part notion of the amount of deprivation under which a totally deaf person labours. Tull matitutions for the interaction of the deaf and dumb highs on analytic, and though a very minute fraction of the population, and a very faw your ago one of the highest dignitaries of the Church of England assured a gentleman who applied CYCLOP.EDIA1

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to him on behalf of the deaf and dumb in his province, that during his long life he had never heard of more than two persons in this melancholy condition. Perhaps one cause of the general want of knowledge on this subject is the incapability of the deaf and dumb to give utterance to their own deficiencies; the very nature of their deprivation prevents their making it known and obtaining relief: thus generations have lived and died in wretchedness and ob-

The most complete tables which have been formed for showing the proportion of deaf persons to the rest of the population are contained in the 'Third Circular of the Royal Institution for Deaf Mutes' at Paris. From this circular the following table is taken, which shows not only the extent, but the universality of the calamity, and the proportion which the deaf bear in different countries to the whole community.

Countries. No. of Deaf Preportion to and Dumb. Population. 1 in 1585 2,407 Portugal ,, 1585 7,255 Spain France 20,189 1585 Italy 12,618 1585 Switzerland 3,976 502 Grand Duchy of Raden 559 1,983 Würtemberg , 250 1240 Bavaria 2,908 1388 Austria 16,684 Prussia 8,223 1548 Saxony Grand Duchy of Saxe Weimar ,, 1585 883 142 1585 Electoral Hesse 400 1375 Dachy of Nassau 210 1428 Principality of Lippe Schaumburg 1585 946 Duchy of Pranswick 176 1170 ,, Duchy of Oldenburg 151 1585 Frankfort 47 1585 Hamburg 86 1585 ,, 1585 Bremen 31 Belgium 2,166 2847 Holland 1,260 Denmark 1714 ,, Sweden and Norway 2,397 1585 27,834 Russia 1585 Poland 2,334 1585 Great Britain, England 7,570 ,, 1585 1,324 Scotland 1585 ,, Ireland 3, 700 United States of America 6,660 2000

According to this statement, the general accuracy of which has been repeatedly confirmed in various districts by special returns, the proportion of deaf persons to the population of Europe is 1 to 1537. The United Kingdom contains 12,400, or 1 to 1622 of the population.

Deafness occurs in every degree, in some cases only amounting to an insensibility to very sharp notes. Many people cannot hear the squeaking of the bat and the mouse. By holding the nose, inflating the ears, and ceasing to breathe, the ear is rendered more open to base notes, and more deaf than it naturally is to sharp notes. Dr. Wollaston constructed a small organ, whose notes began where the sharp notes of ordinary instruments end; the notes of his organ increased in sharpness till they became inaudible, though he was certain that it continued to give sound from feeling the vibrations equally with the lower notes. He thus found that some people could hear seven or eight notes higher than others, and that children could generally hear two or three notes higher than grown-up people. In some persons the accuracy of the ear is merely impaired in distinguishing faint sounds, and sounds somewhat similar; instances of this kind are particularly evident in infants, whose first attempts at speech are a very remote similarity to the sounds they hear, and become more perfect as their ear is educated, and in some cases remain imperfect through life, in consequence of defect in the organs of hearing. All imperfections of speech do not arise from imperfect hearing: an indistinct articulation may result from various other causes, from carelessness, from defective organs of speech, or an imperfect formation of those organs, from irregular respiration producing hesitation, and in

some instances proceeding from nervousness. The princeples which regulate utterance have been practically considered and acted upon by Mr. Cull, to whose pamphlets on
'Impediments of the Speech,' and on 'Stammering,' reference may be made with satisfaction by those persons whose
utterance is defective. The discovery of these principles
is however due to Dr. Arnott. Up to the period of the
publication of his 'Elements of Physics,' in 1827, scien'
and regular practitioners had no cure for stattering. and regular practitioners had no cure for stuttering. work should be consulted by all those persons who wast. to ascertain the causes, moral or physical, which tend to produce defective speech.

By total deafness is meant that state in which the organs of hearing are as insensible to sound as any other part of the body. To persons in this condition, sound is a mere valuation which can be felt, but very imperfectly distingui hed Yet persons who are generally considered as totally deaf, are not all equally so. There are cases where the firing of as gun is unheard though immediately near the deaf person, and others where a gun fired at a quarter of a mile distant is heard, and distinguished from the falling of a heavy weight upon a boarded floor. In some instances, the human voice in a great variety of its louder single interestions can be recognized, though the loudest reading or 1': highest pitch of a speaker would make no impression. Dr. Itard, of the Royal Institution for the Deaf and Dunes, at Paris, considers that more than half of the pupils received into that Institution are of that class who hear it e least; about the same proportion would be found in the English Institutions. The other half comprise cases more or less of imperfect deafness, an expression which must be no means be confounded with imperfect hearing. In all these conditions of deafness, the person is consequent mute, or dumb. Hence the expression Deaf-Mute, as used in the continental languages, and Deaf and Dumb, as well in England and America, to designate a person so dear as to be inaccessible by the ordinary means of lingual communication, and unable to make known his thou. ..., wishes, and feelings, in our conventional tongues. As articulation can only be acquired by those who hear, it follows that according to the condition of the power of hearing, will be, ceteris paribus, the distinctness of art.c.-lated sounds. Hence in the instruction of deaf mute-. generally found that those pupils who distinguish the different tones of the human voice most correctly become the best speakers of the artificial pronunciation, which is taught in some of the institutions for the deaf. There is certainly cases where the articulation of a total y and person is pleasanter to hear, softer and less monetic ... than in some instances of imperfect deafness, but ... depend upon other causes, as the natural tone of the vol. e, the attention of the pupil, or the care of the instructor.

In cases where deafness is not congenital, but superve or at a period after articulation has been acquired, at the a e for instance of four or five years, the power of specca is gradually lost, the voice becomes monotonous, and unless the practice of speaking is continued, the power of space . original deafness. A case of this kind has come under case of original deafness. A case of this kind has come under case notice, in which the patient lost his hearing before he was five years of age. At thirteen years of age, his promotestion of the words hat, coat, book, was, as if they we written hat-a, coat-a, book-a. His knowledge of things of been kept up entirely by vocal practice, for he knew heat age of written words or writing. A case super hat superof written words or writing. A case somewhat annout to this, is that of a nobleman now living, who was an other in the battle of Waterloo; his auditory nerve was desired by the concussion of the air, from the bursting of a second sec or from the report of a cannon. He is now totally it. .. and has consequently lost all control over his voice, wind a has become discordant, and difficult to be understood, even by those who are accustomed to associate with him. A similar instance is mentioned by an American writer. A which entire deafness, taking place at the age of entire confected the articulation, that the individual was in

longer intelligible, even to his friends.'

The importance of an inquiry into the causes of denfe .... induced the directors of the institution at Paris to to e circular letters, containing a series of questions, as follows, addressed to the parents of their pupils.

1. Was the child born deaf, or has he become so since

his birth?

2. In the first ease, what circumstances preceded, accom-

partial, or followed his hirth? In the second man, at what ago one his traject to be don't? If there they may of his fireth till that where he had his heaving, have he enforced malor any fillness, or test with any

by they have not insurence to be addythermed to this office-

Some the mark of his meth (f) cast when he had in the factors, it was easily at the bias of instrugy as he astributed in this filtness, which are supported in the market of the market

We are embled to compare the above results with the results of an impure rate a nearty similar marker of resistanced at most of the Koptum institutions in the Lorizontal Pount, The distance at the Lorizontal Pount, The distance at the Lorizontal results are equal 110 papels, and while they, in many consequences in equal 110 papels, and while they, in many consequences. If appear that all ordinary means are treat an extend and at the York short (nontrees), and only on the physical influences which coolede them. In allie on the effects of moral and intellectual culture. As sufficient number of years has manyer depend appet the methods are equivalent of years has manyer depend appet the methods are equivalent number of years has not yet depend appet the methods are equivalent numbers of years has not yet depend appet the methods are equivalent numbers of years has not yet depend appet the methods are so the foreign and inferences from the facts influence research. From November, 1922, to America, 1925, 10 papels were received into the X orbitalize Institution, of the manuals of wars form that X orbitalize Institution, of the manuals. To statements as to the time at which deathess we true permitted in the 28 above mentioned are very varyer for every large majority became so under the deathess for a large of the organ and that only one occurred at the years of see. Respecting the discuss on which deathess is character families of an example of a large of the organ, as information, form from one of the various families and make it. In a considerance of the larges, in 1 from cold, and in a construction of the children and the attention of the medical provision of the children had no positive knowledge. Novercy four of the children and the attention of them are one in T deat and dome of particles which were unknown as race of deat and dome of particles and these 27 families counts at receive and one that a large mather and the first and dome of seal and medical provisions and dome of seal and medical provisions and dom

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	have much	в		(6)	41	- 7	n.	(10)
-			9	$\odot$			- 40	421X
100		В	2 19	(0)	10.	- 8	- 100	(18)
- 1		и		031	31	- 6	- 0	1.60
		В		EП	- 10	10	100	6402
- 8		Δ		01	21	- 5	10	(44)
- 4	District Co.	23	-	Œ)	100		46	(0)
- 3	have made	В	9	(0)	- 11	0	100	(10)
	100	ш		Ø	-	A	100	1000
		В	- 0	107	-	- 6	110	1003
ш	Jane	Ø		93	-	. 4.	- 11	402
- 1	8	Ø,		(2)	-	-		(9)
-			-					140
27								103

This statement proceeds as with 27 families containing, 164, claidless, of which we am deaf sted diords. It has been mentioned that 25 of the 110 cases now update missistences are the effects of seadent or decase; 12 of these notiones may be semantial positively reacheded in he in families. The non-companies desiress, from the fact that these one the only instances known in the families. The other case of two children, making the 26, is that of a limiter and solar win are and to have become item attention and make who are and to have become item at two one of aperial in proper to remark that in this include both the fatter and the mother of the two phildren diad of coursemptions as an early age, and that both the children diad of remaining the pulmonary complaints and allow allocations indicates as adopted to pulmonary complaints and allow allocations indicates at discuss.

discuss.

'Out of the total number of clothers that have been reserved tors in Vichalite Institution 5 were subject to notice exchange headerman; 5 to first 2 to partial passifying 2 become imprise, and a were of other conduction passifications; three have district at inflammation of the longs, one of droper supervising on emplating, and one includes the regions; in several, patter is fiscal in the parents; in 15, one or best, the parents and make make the parents of the finality; in one case, where the latter is that unit doubt he has less children who can hear, and one who is that and doubt he has less children who can hear, and one who is that and doubt he has less children who can hear, and one who is also and district. In

are deaf and dumb, and twins. The number of families employed in agriculture in the district to which the operations of the institution extend is 62,377; employed in trade and manufactures 140,855; other families 73,333. Of

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tions of the institution extend is 62,377; employed in trade and manufactures 140,856; other families 73,333. Of the 110 pupils 63 were from mining and manufacturing districts, and chiefly from large towns, and 47 were from agri-cultural districts. Of these 110 pupils 20 were found to be of decidedly superior intellectual powers; 61 were of ordinary talents; 19 were inferior in mental endowments, and 10 were very low in intellect-compared even with those of the next grade, but not so low as to be considered idiots, for even these were able to connect simple ideas in writing, to comprchend all ordinary subjects connected with their daily exercises and wants, and were capable of moral improvement. In each of these ten instances it is remarkable that causes exist which partly account for this intellectual barrenness; in one instance the child and both the parents are unhealthy; in another there exists paralysis of one entire side of the body, and doubtless of one side of the brain, as the child is of a very active temperament; in the next case, there is a general feebleness of the constitution (in this case both the parents are healthy, and a very large family of children are remarkably so); in two instances the children are subject to fits, in another case the child is a species of dwarf, being physically and mentally undeveloped, remarkably good humoured, and the moral sense good, considering the unfavourable circumstances under which the child was brought up; in the ninth instance the pupil laboured under St. Vitus's dance, and scorbutic affections; and in the tenth, the mother has goître, the father is dwarfish, and one of the brothers is an idiot.

Such are some of the results which have been obtained at one institution, and we now submit the form in which the information is recorded. This form embodies particulars which, from the comparatively short existence of the institution, cannot yet be completed, and it is probably capable of improvements which in due course will present themselves. At the same time it is a document which, as far as it goes, is satisfactory, and which even in its precent form may serve as a model till something better is suggested. The book in which the details are kept is divided into columns varying in width according to the information to be written in them. The heads are as follows:—No. of Case, Name of Child, Description and Circumstances of Parents, Moral and Physical Habits of Parents and Family, Residence, Physical Character of the District, No. of Family, No. of Deaf and Dumb, Age of Pupil, When Admitted, Born Deaf or became so, and when, Under what Circumstances became Deaf, If otherwise Diseased and its Nature, No. of Years at School, Intellectual Character, Moral Character, Why left School, Deafness in Family, Cases of Consanguinity existing between Parents before Marriage, Business on leaving School, Additional Remarks.

The only statistical document which the publications of the London Asylum for Indigent Deaf and Dumb Children furnish is the following very important one, extracted from their Report for June, 1833, by which it is shown that 20 families, containing 159 children, number 90 deaf-

Names.	Parents' Description.	No.	υſ	Child	iren,	No	of	D.	ŁD.
Mary Martin	Father a labourer .			10				7	
James Wm, Kelly .	do. a porter	•		8				7	
Mary Aldum	do. a broadcloth w	CRYC	r	12				6	
William Coleman .	Mother a widow			11				5	
David Thompson .	l'ather a smath			10				5	
James Counens .	do. a bricki.'s labo	urer		8				5 5 <b>5</b>	
George Franklin .	Mother a widow			8				5	
Silas Vokius	Father a labourer .							5	
Thomas Barnes .	do. a cobbler			6				5	
Thomas Pounceby	dos adyer			12				4	
Henry Tatler	do. a working jewe	llor		10				4	
Abras Murgatroyd	do. a cloth weaver			9				4	
William Baynes .	do. a schoolmaster			8				4	
Mary Lovegrove .	do alabourer .			×				4	
Elizab th Cherry .	do a watch finishe	·r		7				4	
William Cockton .	Mothera wi ow							4	
Robert Mortimer .	Father a cloth weaver			7			. :	3	
Francis Hancock .	do. a small tarmer			Ġ					
Busannuh Rye	Mother a widow			3	-		all:		
Miss Fox	(An orphan)			3			11		
	· ·						_		

From a circular issued by the National Institution for the Deaf and Dumb of Ireland, we are enabled to extract some interesting statistical details which other institutions do not supply; they are stated as follows:—'We have kept accurate registry as to all the circumstances of 469 a belonged to families in which there were 2020 chil-

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dren, of whom 563 were deaf and dumb. Of the above 489 applicants, 279 were boys, and 210 girls: 423 were born so, and 66 became deaf after birth, from various discases and accidents, such as falls, blows, kicks of animals, colds, measles, fevers, worm-fevers, abscesses, palsy, &c. Ninety-seven were not wholly deaf, though so much so as to be quite incapable of learning in the common way; and all those born deaf, as well as almost every one of such as had lost their hearing in early childhood, as a consequence of surdity, were totally dumb. The following scale will show the number of cases of deaf-mutes in different families of from 1 to 12 children:—

Total Number of Children	Nu	mber of th	ese Child	iron Donf a	ad Dum	b.
in the Family	1	2	3	4	5	T
1	39					1,
2	39	6		1 1		11 Z
3	70	8	1	( I		=
4	53	8	2			11 2 -
5	61	14	8	!!		11 7 5
6	45	4	3	1		
7	30	7	7	lıl	1	11 50
8	17	7	1	1		N E :
9	5	1 1	1	1 1		1127
10	4	1		1 1		11 🗄
11	1			1 1		- يَا [
12	1	1		1 1		Number of Fancties in which then

'In one case twins were born deaf and dumb. Several had minor defects of sight in one or both eyes. Four (3 m one family) could not see during sun light; 3 had lot 1 eye, and 5 were blind of both; about a dozen had epileptic fits; very many were afflicted by scrofula (king's evil); and about 12 or 13 have been since ascertained to be mire of less idiotic. To show the poverty of the families the following classification is sufficient:—in 115 cases the parent's were labourers; in 79, small farmers; in 32, servants: in 28, weavers; (in 13 unknown;) in 11, shoemakers, blacksmiths; in 10, tailors, soldiers; in 9, carpenters; in 8, petts grocers; (7 were foundlings;) in 6, washerwomen; in 5, beggars, clerks, fishermen, masons, pensioners, policemen, seamen, shopkeepers, tradesmen; in 3, bakers, carriers, house-painters, schoolmasters, tide-waiters, woollen-drapers; in 2, butchers, confectioners, gardeners, inukee; er, hackney-ceachmen, hucksters, millers, publicans; in 1, bleacher, brass-founder, broker, brogue-maker, cap-maker, chandler, chimney-sweeper, constable, cooper, cork cutter, corn-merchant, currier, cordwainer, dairyman, dancing-master, dyer, flax-dresser, game-keeper, harness-maker, mate, millwright, navy-officer, oyster-seller, pediar, plasterer, postman, postmaster, sawyer, spinner, surveyor. Of these almost exactly one-half were residents in towns, and one-half in country places.'

The 'Thirteenth Report of the American Asylum at Hartford,' contains many interesting particulars on the statistics of deafness. Since the commencement of that insti-tution in 1819 to 1829, 279 pupils had been received, 157 males, and 122 females. Of these, 116 were born deaf, and 135 lost their hearing in infancy or childhood, by diseas. accident; with regard to 28, it is uncertain, or doubtful, what way this misfortune befel them. It appears from t that a somewhat greater proportion have become deaf, we consequently dumb, by some adventitious cause after ti birth, than by any constitutional defect. So far as accura e information has been obtained among those who have come deaf by disease or accident, 15 became so qui'e infancy; 27 before 1 year of age, 58 between the ages 1 and 4 years; 14 between 4 and 5 years, and 9 between 5 and 4 years; 14 between 4 and 5 years, and 9 between 5 and 6 and 6 years, and 9 between 6 and 6 years, and 6 years 5 and 7 years of age. Among the causes producing ti calamity, 25 cases are attributed to the scarlet fever. 16 to various kinds of fever not defined, 7 to the canker-rash. to the measles, 2 to an inflammation of the brain, 1 to the small-pox, 1 to the hooping-cough, 1 to palsy, 1 to the discharge of cannon at a military review, and 1 to sudden falls. In very many cases it has been found impossible to procure satisfactory information. The 279 pupils have come from 247 families, 47 of which have contained more than 1 deaf and dumb child; 20 families have each contained two; 4 families, three; 7, four; 4, five; 2, six; and

present. In our fends the father or shoul embelous, and though and of shouldedness. In condens, the tables and interpretation of shouldedness. In condens, the tables and interpretation of the father 
and the moral influence of those with whom he has to associate, but also on his own natural tendencies.

The performance of moral duties implies the exercise of intellectual faculties; and from his birth the deaf-mute makes use of his reasoning powers. He is subject to changes of purpose, to changes of feeling, to the pussions, the pleasures, and the infirmities common to his species. He is sensible of kindness; he gives proofs of affection. That such is the uneducated state of the deaf and dumb might be proved by the observations of their parents, friends, and instructors in hundreds of instances. That such must necessarily be the case, supposing them not to be idiots, it would be easy to show. We affirm, in contra-diction to those who contend that deaf-mutes are naturally more debased than other men in intellect and in morals. that there is not an individual deaf-mute now under instruction—improving, and thereby evincing rational faculties —who, previous to instruction, however disadvantageous the circumstances which attended his earlier years, did not evince moral sentiments and intellectual operations. have traced the history of many of this class in different ranks of society down to the period when the deprivation under which they have laboured was first ascertained; and we have found invariably that mixture of good and evil in their actions and tendencies which is seen amongst other children. We have also had sufficient proofs of the exercise of intellect even while they were in a state of child-hood. The parents of deaf and dumb children can sufficiently attest the truth of these observations.

At the same time, it must be acknowledged that the deaf and dumb are generally inferior in their moral and intellectual powers to those who do not labour under the same But this inferiority is only one of degree, and may be satisfactorily accounted for, in accordance with the opinions above expressed. Andral has described the state of an uneducated deaf and dumb person; and to a certain extent we can adopt his sentiments. Experience and observation among this class of persons would have induced this accomplished pathologist to have bestowed on them even a more liberal endowment. 'The deaf-mute exhibits in his intellect, in his character, and in the development of his passions, certain modifications which depend on his state of isolation in the midst of society. We find him re-main habitually in a sort of half-childishness, and he has great credulity: to balance this he is like the savage, exempt from many of the prejudices which we owe to our social education. In him the tender sentiments are not very deep; he appears not to be susceptible either of lasting attachments or of lively gratitude; pity touches him but feebly; he is an entire stranger to emulation; he has few enjoyments and few desires; and the impressions of sad-ness but slightly affect him. This is what is most commonly observed in deaf-mutes; but this picture is not universally applicable. Some, more happily endowed, are remarkable for the great development of their intellectual and moral nature; there are others, on the contrary, who continue in a state of complete idiocy.' (Dictionnaire de Médecine, article Surdi-Mutité.) This last remark of Andral's requires some qualification. Deaf and dumb pernone who possess intellectual faculties are no more liable to become altors than others whose organs perform their appointed functions. Their powers may remain undeveloped; they may be ignorant of every thing which depends on intercourse with mankind; their reasonings may be inconclusive, and their inferences erroneous from their confined observations; but still their mental powers will he called into action, and they will be, to a great extent, under the control of their reasoning faculties. This is not the case with ideats; in them there is a total want of selfgovernment, a total absence of intellectual control. There me, at the same time, numerous cases of idiots who are dumb ; not, however, in consequence of deafness, but from then meaparity to understand the meaning of language, to limitate it, and to apply it. These persons cannot be classed with the deaf and dumb. It may be this class to which Ambiel particularly alludes in the latter part of our quotathat; for he qualifies his remark in some measure by militing. 'The difference in the intellectual and moral naturn of mun is often prinative, and independent of all exturnal influences."

11f the same opinion with ourselves we find Degérando

present day in this country, and throughout Rurope and America. The empiricism and deceptions which dishonoured the earlier schools for the deaf are gone. The credulity and the delusions of which these were the effect are no longer a disgrace to our institutions. The craft is no longer confined to a few individuals, for whose benefit it is necessary that mankind should be ignorant of the nature and capabilities of those who are deaf and dumb To corroborate the views we have taken, the deaf may te allowed to speak for themselves. The beautiful account of the early life of Jean Massieu, which was written be himself for the author of 'La Corbeille des Fleurs,' exhi bits the intellectual and moral condition of Massieu, prot to the education which he received from Sucard. Many passages in that account will abundantly illustrate what we have advanced. Massieu is a metaphysician of 1. common cast, as will be seen from the following answers different times and places. He was asked, 'What gratitude?' 'Gratitude is the memory of the heart' 'What is a sense?' 'A sense is an idea-carrier.' 'What is the difference between things physical and mora. Things physical are the objects which fall under our senses; things moral are manners and active of mankind, the operations and qualities of the Things physical are material; things moral are immore rial. What is ambition? Ambition is the immode in desire of governing, gaining riches, or possessing any thin which we have not. Ambition is also an excessive and for honour, glory, places of distinction, exaltation. It the movement of a soul which hovers round an clowwhich it is covering or ardently pursuing.' 'What hope?' 'Hope is the flower of happiness.' 'What is et. nity? 'A day without a yesterday or to-morrow - a that has no end.' 'Does God reason?' 'Man reasons.' cause he doubts, he deliberates, he decides. God is niscient; he never doubts: therefore he never re-The account of Massieu's early life is printed at the of Sicard's 'Théorie des Signes.' Several translations Several translations of it have been published.

The first mention we meet with of the capacity of born deaf to receive instruction, is in the writings of I dolphus Agricola (born A. D. 1442) of Groningen. He! not inform us who was the parent of the art; but he .... tions in his posthumous work, 'De Inventione Dualestathat he had himself witnessed a person deaf from integrand consequently dumb, who had learned to understand writing, and, as if possessed of speech, was able to nedown his whole thoughts. The truth of this relation doubted by Louis Vives, of Valentia, who wrote in beginning of the sixteenth century; but there is as vives's disbelief. (See the treatise, De Anima, of Viv. L. ii. o. De Discendi Ratione.) Not long after the dearl. Agricola, and during the life of Vives, the theoretical section of the control of the c principles on which the art rests were discovered and 1. mulged by the learned Jerome Cardan, of the University of Pavia, his native place. He was born in 1501 and d... his native place. He was porn in the Cardan thus expresses himself:—'Writing with thought: ]. in 1576. associated with speech, and speech with thought; I written characters and ideas may be connected toge. without the intervention of sounds, as in hieroglyphic of racters.' (See Journal of Education, No. VI. p. 204) I first practitioner of the art of instructing the deaf v. Pedro de Ponce: this fact is authenticated by two of i. contemporaries, Franciscus Vallesius and Ambrosius M. rales. Ponce was a monk of the order of Spain, thus speaks Offia. Morales, in his 'Antiquities of Spain,' thus speaks of two brothers. Ponce was a monk of the order of St. Benedict, 12 Ponce:— He has already instructed two brothers .... sister of the constable, and he is now occupied in ... structing the son of the governor of Aragon, deaf and dia. in his art is, that his pupils speak, write, and reason we well. I have from one of them, Don Pedro de Velason brother of the constable, a written paper, in which he ic me that it is Father Ponce to whom he is indebted for knowledge of speech.

The register of deaths of the monastery of the Beneditines of San Salvador de Oña, informs us of the death Pedro de Ponce, in August, 1584: it records of hun he was distinguished by his eminent virtues, and that he the more successful teachers of the deaf and dumb of the deaf-mutes to speak.' John Paul Bonet, also a Spaniard.

sublished a week as the nutteen award; Grity, just's after the decimal Downe. Mr had publish there is the desimal Downe. Mr had publish there is the decimal of the process of the control 
vention on many points, and guarded with strict secrecy some of his proceedings. He was a man of great self-con-ceit, irritable, rude, and overbearing. He had adopted the philosophic system of Kant, and published some writings relating to it. He is said to have been a man of considerable talent in the instruction of the deaf and dumb, and of an active and indefatigable spirit. In his controversy with the Abbé de l'Epée, he certainly gained little credit either as a teacher of the deaf, or as a philosopher.

France commenced this art later than the other enlightened nations of Europe. Indeed she opposed its progress by those philosophic prejudices which in other countries had been refuted by actual experience. A deaf-mute from birth, named Guibal, had made his will in writing so early as 1679; and proofs of his knowledge and intelligence were produced in court, so that it was confirmed. It is unknown who had been his instructor. About the middle of the seventeenth century, several individuals in different parts of France turned their attention to the subject. Those of whom we know most are Father Vanin, a priest of the Christian doctrine, Rodrigue Péreire, a Portuguese, Ernaud, the Abbé Deschamps, and the Abbé de l'Epée. Father Vanin employed design both for giving information on sensible objects, and also in an allegorical way to illustrate abstract and intellectual ideas. Very crude and erroneous notions must have resulted from a system so imperfect, and so little capable of extensive application. The first person who excited general attention in Paris was Péreire; he obtained the approbation of the Academy of Sciences, to the members of which learned body he exhibited the progress of his pupils. His processes were made a secret even to the members of his family; he however offered to disclose them for a suitable consideration, which was withheld, and the nature of his system is only imperfectly known at the present day. His pupils were highly instructed, more highly perhaps than any of an earlier or a subsequent period. A judgment may be formed of the efficacy of his methods from the report of a committee of the Academy of Sciences, where it is stated that his pupils were able to understand what was said to them, whether by signs or by writing, and that they replied viva voce, or by writing; they could read and pronounce distinctly all sorts of French expressions; they gave very sensible replies to all questions proposed to them; they understood grammar and its applications; they knew the rules of arithmetic, and performed exercises in geography; and it appeared that M. Péreire had given them, with speech, the faculty of acquiring abstract ideas. The two best known of Péreire's numerous pupils were Saboreux de Fontenai, and D'Azy d'Etavigny. The could read and pronounce distinctly all sorts of French exwere Saboreux de Fontenai, and D'Azy d'Etavigny. The former of these two has written an account of the means pursued by his teacher, for which we must refer to the work of the baron Degerando before mentioned. It appears that Péreire employed articulation, reading from the lips, the manual alphabet, and a method of syllabic dactylology. By this latter instrument of instruction he was enabled to communicate very rapidly with his pupils, and by the fre-quent use of words in different combinations a knowledge of their value was imparted to them. Thus the frequent recurrence of words, through so rapid a mode of intercourse, assimilated the acquisition of language to the ordinary procoss with hearing and speaking persons. The channel of communication being established, and a copious knowledge of words acquired, the art of the instructor would be little more difficult than that of ordinary education. A few years after Péreire's methods had received the approbation of the Academy of Sciences, Ernaud presented to them a me-moir on what he had attempted for the deaf and dumb. The Society gave him encouragement, but it appears that the pupil brought under their notice was not far advanced in instruction. Ernaud's attempts were more particularly directed to measures of physical relief; he revived the sense of hearing in some cases where it had been partially lost, and he asserts that he had never met with an instance of total deafness. Articulation was the principal means he employed. In 1779 the Abbé Deschamps published his 'Cours Klémentaire d'Education des Sourds-Muets.' To the education of this class of persons he devoted his life and his fortune. He followed in the track of Amman, giving the preference to articulation, and the alphabet upon the lips, over the methodical signs of the Abbé de l'Epée. His anothishment was at Orleans, where he received paying pupils, and instructed the indigent gratuitously.

and dumb, we have attended more particularly to the working parts of the different methods by which such instruct: n was intended to be conveyed. We have passed over the various philosophic theories with which some of these methods are encumbered, because they are either forgotten, or rendered obsolete by recent discovery. Much learning was antiently wasted on subjects in themselves trivia, mysterious, or incomprehensible, yet to such researches are owe much valuable knowledge. It seems that no intro tigation into the laws of nature, however absurd or unattainable the immediate object of such investigation, is utterly without reward. The alchemists of olden times. though failing to discover the wonderful stone for which they sought, found out new properties, new substances and new combinations, which cheered their labours and conferred direct benefits on society. So, with many of writers we have noticed, their speculations, though with have not been in vain; the useful parts of their system. have been retained, and are now diffusing good among to class for whom they laboured.

The Abbé de l'Epée was one of the most active and levels.

volent labourers in this task of humanity. He brough into systematic operation the notions which had previously prevailed on the possibility of conveying intellectual kn . ledge to deaf-mutes, and added to these stores of ex-rience from the resources of his own highly-gifted and val-disciplined mind. He certainly succeeded to a grant extent than any of his predecessors in enlisting the feeling in his favour, and in drawing the attention of way. reigns to one of the most unquestionable works of cl.a. and of mercy; yet his name has not been suffered to .... scend to posterily unstained by obloquy, nor undimmediately malignant censure. It appears that accident first nath him acquainted with the deaf and dumb; benevolence and dumb; him to the consideration how their wants might be ... He remembered that his tutor had once prove ! him that there is no more natural connection between the taphysical ideas and the articulated sounds that strike : ear, than between the same ideas and the written character that strike the eye, and that his tutor drew this conclusion that it was as possible to instruct the deaf and dumb writing, always accompanied by visible signs, as to te other men by words delivered orally, along with gesture

indicative of their signification.

In the early part of de l'Epéc's career he met with the work of Bonet before mentioned, and the enlarged treatment by Amman, 'Dissertatio de Loquela.' With these gandes aided by the enthusiasm which formed a part of his creater, he pursued his task vigorously and with a certamount of success; not with the success of some of amount of success; not with the success of some of increasurances in the art who had devoted the mealing and the former who had devoted the mealing and the success. forerunners in the art, who had devoted themselves entire. and for years to individual pupils. The Abbe had a 1:2 number of pupils to whom he devoted his life and par mony. Every one who has been a teacher knows well :. degree of success which he may expect if his whole in . is concentrated upon the improvement of a few individual and the difficulties he may anticipate if his attention divided among a great number of pupils. The Abbe app. to have made use of articulation in one part of his carefor he wrote a treatise on the mode of teaching by this and illiary; this treatise was chiefly derived from the write. of Bonet and Annan. He employed dactylology, a-ever must be employed, so long as it is confined to to alphabet only, in a subordinate degree. Pictures he for an uncertain resource, and only useful in the earlier state of instruction. Methodical signs and writing were 1 means on which he chiefly depended for the conveyance intellectual knowledge. The employment of methods signs for words is only the substitution of one artificial 1: guage for another. He established a connection in a mind of the pupil between these signs and the language their country, but it is by no means satisfactory that he existing blished a connection between these signs and the alcowhich they were intended to represent.

The Abbé de l'Epée commenced his work by endeas ouing to perfect a language of methodized signs as copie and accurate as the spoken language of a highly civil; country. He seems to have believed that he had only: do this to reduce the process of teaching the deaf to a retranslation. He appears to have lost sight of the fact to he had minds to cultivate and to fill with knowledge, a that without this cultivation the mere knowledge of wir. in training these early steps in the instruction of the deaf the translation of words into gestures, and of gestures ag-

must writing, sends by the sharer test. When he gave the 
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Of the 'Theorie des Signes,' a work founded on the principles of the Abbé de l'Epée, we can only give a faint sketch. It is a kind of dictionary, in which the expressions of the face, and the attitudes of the body, for the communication of certain ideas, are described. The arrangement is not the ordinary alphabetical form of a dictionary, but a kind of logical order 'more conformable to the nature of things, and the growth and expansion of ideas.' The work is divided into tweive classes of things, adopting in each class an alphabetical order corresponding to the French language. These classes are arranged as follows:—

1. Signs of names of the most common objects, and such as come under observation during infantile years; these are the parts of the body, clothing, food, beverages, a town

and its parts.

2. Vegetables, comprising forest-trees, shrubs, fruit-trees culinary vegetables, medicinal herbs, wild plants, &c.

3. Minerals—gold, silver, copper, brass, lead, tin, iron,

&c.

4. Of man-ages of man, relationships, school, institution, college, officers, domestics and servants of a house, tradespeople, mechanics, merchants; the liberal arts; titles, dignities in towns, cities, and states, and their functions; terms of war; ecclesiastics, and monastic functionaries.

5. Of God, angels, saints.

- 6. Of the elements, of flery, luminous, and watery me teors; the firmament, earth, cardinal points, signs of the zodiac.
- 7. Parts of the world; names of nations, empires, kingdoms, republics, capitals, principal islands, &c.
- 8. Numbers, measures, weights, time, money, exchanges, commerce.
- 9. Organic qualities of man; abstract organic qualities of man; maladies of the body.
- 10. Qualities of matter; such as strike the senses of man, dimensions, shapes, surfaces, extent, quantity, lines, angles.

  11. Physical actions of man, such as are expressed by
- verbs.

12. Intellectual and moral actions of man, expressed by

verbs, nouns, adjectives, and adverbs.

These are the divisions Sicard adopted for his nomenclature, which occupies nearly the whole of the two volumes comprising the work, the latter portion of which is purely grammatical: in it the different parts of speech are considered not only under a general view, but under certain divisions which indicate their value, and assimilate those which bear a relationship to each other; thus adverbs of manner, of number, of place, of quantity, of quality, of interrogation, of affirmation and negation, of time, of doubt and inquiry, and of comparison, are distinctly and separately treated of. Without questioning whether the classification adopted in the twelve divisions of the 'Theory of Signs' be the best, we may see in such a classification the kind of gradations needful for supplying the deaf with an extensive nomenclature; and though few instructors would make the work a practical one, so far as to adopt the system of methodical signs there developed; yet, as a text-book, it unfolds a plan which any teacher may modify according to his own views. We think the work is less valued than it deserves to be, for as signs will, to a certain extent, be always in use among the deaf and dumb, especially in those institutions where they are educated, the theory of signs would be found of great use as a work of reference to all teachers. We need not panegyrize the Abbé Sicard; his exertions for the deaf and dumb are well known in this country, which he visited during the political troubles of France in 1815; his merits are acknowledged wherever the education of the deaf is pursued. We have sometimes been surprised that the 'Cours d'Instruction d'un Sourd-Muet' has not been translated into our language. pendent of its novelty and interest as connected with its more immediate design, its gradual unfolding of a great mind involved in moral and intellectual darkness, by a metaphysician of high endowments, presents some interesting psychological facts which would make it serviceable in general education; the illustrations of language and the development of ideas are just such as an accomplished and lively teacher would desire to place before his pupils to assist in conveying to their minds a just estimation of the value of words and the knowledge which they serve to

impart.
In England, after the time of Bulwer, Wallis, Sibscota, and Dalgarno, the art slumbered for many years. It was

revived by Henry Baker, the naturalist and microscopica! observer, who taught dumb persons to speak, and of whom it is recorded by Dr. Samuel Johnson, that he once 'gave him hopes of seeing his method published;' he however kept the plan he followed secret. Of the extent of his suc-cess we know nothing, but it is said that the names. some of the first families in the land are among those or his scholars. [BAKER, HENRY.] About the year 1750. Thomas Braidwood had an academy at Edinburgh, where he taught the dumb to speak, and cured impediment- 1: the speech. He professedly pursued the plan of Dr. Wall: as developed in the 'Philosophical Transactions.' Articulation was therefore the chief instrument of instruction and the principal medium of communication between the pupil and teacher. In 1783 Braidwood removed his school to Hackney, where he enjoyed for many years a deserved. reputation for his successful application of the discoveries of his predecessors. [Braidwood.] Under him the late. Dr. Watson became acquisinted with those principles which he brought to much greater perfection than his predecessor, and developed in his work on the 'Instruction of the Deaf and Dumb,' and which he practised during his long superintendence of the Asylum in Kent Road, London Indeed Dr. Watson was to Mr. Braidwood what Sicard was to De l'Epée; the disciples in each instance gave solidi. and permanence to the systems of their respective masters.

The primary instruments by which the deaf and dun. are now generally taught, are speech, including articulation and reading on the lips; and natural or imitative signs. By these a communication more or less direct may be established between the teacher and the pupil. subordinate auxiliaries are writing, pictures, methodic il signs, and dactylology; the last may be syllabic, as employed by M. Péreire, or stenographic, as employed by M. Recoing, of Troyes, in the education of his deaf and dun to son. By this gentleman, stenography, in its wider sense, was also made available with success. We have seen that artificial articulation was among the earliest means resorted: to as a medium of communication. Ponce, Bonet, Waller, Van Helmont, Amman, Arnoldi, Heinicke, Perrur. Ernaud, Deschamps, Baker, Braidwood, and Dr. Wat son, used their pupils to understand the speech of other and to speak themselves. The great advantage of speach is that it is the readiest method of intercourse he tween teacher and pupil. In teaching the deaf and dumb, the first object in view as to impart to him the limit guage of his country; the second is grounded on this till his mind with intellectual, moral, and religious truth These two objects are generally made to accompany each other; the communication of knowledge in easy language familiarizes him with the use of language, and the excesses in speech are made the vehicle of valuable knowledge. In teaching vocal sounds to the deaf, the eye and the sener of touch are chiefly employed; the letters of the alphabe: are classified; the sounds that are labial, dental, linguist. guttural, nasal, and those which are combinations of two ... more of these, are taken in such an order that the pure may discern differences in their similarities, and in some instances the organs of speech are shown, by means of drawings, in the required positions for the emission of certain sounds.

The open mouth, the widening lips, and part of the tongue, may be shown in the pronunciation of a, the near in closed lips, hiding both tongue and teeth in u; in b: compression of the lips can be accurately shown, and time labial-nasal sound m, may be said to be exhibited in the closed lips, and by a line of dots to show the emission of . . through the nostrils. It must be clearly understood the such drawings are chiefly useful in showing the position of the organs.

Accompanying the exercise, the pupil must be made to notice the external organs of speech in his teacher, to feethe vibration with his own hand which sound creates " the traches, and also to feel those emissions of breath where are caused by the production of certain sounds. He v.. be made to imitate such utterances; and by the exercise of patience and ingenuity on the part of the teacher, in nuity chiefly directed to those little arts which refer to the mechanism of speech, and patience that will not be it. couraged by repeated failures, the pupil will succeed initiating what he observes, and in time he will account.

what is required. In Wilkins's 'Essay towards a R. Character' there is a diagram of the positions of the organ-

Sign producing word would not have be consisted with a part of which not be consisted with a part of water in comparing the authorized scorpes. While a part of water in comparing the authorized scorpes in the potential is not part of the part of

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The purpose altowed or instruction in the public instituparamet. ion and drumo varies in different countries; en so stort is in England: in nearly all the inscriptions of celebrate it is considerably the ones in the constitution of the cons the education of papers who are whelly or par-Forest Switzerland, Wartemberg, Sweden, the pure's are permitted to continue six years. A the manufact Groungen and at those of Copen-

ma wearz the pupils remain seven or eight years; enna mm er to eight years; at Berlin they continue The means and at Leipzig for a like period. in ther medification of the institutions of Great The same with regard to the duration of a pupil's a them, it would be well if some provision -1. ...179.<del>--</del> manie nupils of superior talent, and these ner recial astruction, to qualify them for their future The state of the s From into may water; but it requires a peculiar on artists, engravers, clerks, carvers, modelarts in which there is nothing ------ e ear ind items from excelling.

n which instruction is imparted must and it a course of instruction cannot be The structure of the st are recommended in a division with regard to time. The second to enterty nearly what is actually ac-· a regard to a sixth year, were our insti-The list of treating is to enable the pupils to be kept for the line. It would generally be devoted to cona new previous acquirements, to a repe-- the last that according to the dispositions and en-TERMS to be more connected with their future desti-2 sairt it should in every way be made a retroar is regards their school acquirements, and The time is to their future interests.

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Le res pour would be generally devoted to instruction water means of natural signs, dactylology, or arramacione and writing. Instruction in numbers and in r empirications by sensible objects, by manual notation Dictionary, by figures, and by words. Occasional · mornations by sensible objects, by manual notation nstruction in moral and religious duties by signs.

same instruments as in the former year; in arithmetic. Geography commenced with ground-plans of school-room, touse, and neignoouring grounds, streets, roads, fields, &c. Lessons on form, introductory to geometry. Moral and victions duties. Composition, commenced by pupils writing iown their own observations on facts and occurrences in short seniences.

Third Year.-Language continued; the two former years are chiefly given to nomenclature; syntax will n w more especially demand attention. Lessons continued in geometry, geography, arithmetic, physics, and composite in

Sempture history and drawing commenced.

Fourth Year.—Language continued, and especially applied to composition. Direct instruction continued on all

the subjects named for the preceding year.

Fight Year.—In addition to bringing the branches of knowledge commenced to a close, abstract ideas and figurative language; doctrinal religion; the human body, i's parts and organs; the moral and social duties of man, his dispositions and faculties, should be brought under consideration during this year, and continued for as long a per ·i as the pupil remains under instruction. Those parents with can afford to continue their children as private pupils might

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hard seen in assistant of er criticisms, her Vitson it the Landon historica in The second matrix is it has contained work only or contest our to change had in a few years if or its other sendent many it and a tot consession vers include, reserved A held has sent subsection for the erection to commentants cuiting violing town progress. The tenth in fine bulghan consequence in 1944 his at its that ments into received holosim, as testimony in that town. The school has been lately reministed to the turn of Mr. Bougham, a teacher of much experience, it flor is in isosiant it the Birmanimum institution, and after-wards is the master of that it Exeter.

The Livery of school even in right to Mr. William Comer of harrievel it was benefit in all millioninenced is a lay-souble but its mighau plan has in term he sime m such another and to rupule are if the manel sugmerer of hearners, hiv-hearners, and hiv-our is. Several immers have taken hade in its mastersain, the present teacher is Mr Rinad, after in issistant if the Lindon is imm. This

school southants as pupils.

The West of England institution for the leaf in Hambwas estimatished in 1827. It is situated it England I. especial loveet is the instruction of the leaf and Limb rescient in Jevon, Cornwall. Dorset, and Scinerset. the acters the superfield by a compitions formed as legithe namber it present in he maintenance of the randerent the namber it present in the natural of there are also six names also may because for their pinears in. Since the removal of Mr. Brigman is Machester, the credit of this menta for the been analy steamed by its successor, Ma-Great in. The assessment are one made and the female. The agreem concret if the femission arrangements a confiled

the breeze was ance for the leaf and himb, stocked n Nucleon sine ales formed it has harplean. It was a mane read in \$20. Propagnous is while course it has been members as the finds burn gradually more seed. chechy a subsequence of an exercens at the Real W. C. Penion, is in promoter at his been enabled to admit every representation for several years a period of us facome has been see assis to rear's the escapes meant of a second test, their the increed across to me to source at more is a consistent of a second set of selections by the rear and refer case at the Sevents pup is partially of the second set of the second the mesh of th C Ricket, and feet assisting two of whom are deaf a Chamb. A worker street has the care of the girls out country house, and the democre arrangements are supermen ed by a may one

Vi these his true one me under the direction of committees chosen them the subsections reading in or near the towns where his no area ed, these committees appoint masters and other officers not obosen at the annual most nest they grand it the general reles of the institutions with hithey control, but they do not interfere with the course of in-. the term Wie or more examinations of the pupils take place in the contract each year, which the subscribers and

spatific generally are invited to attend.

and at these institutions instruction in trades is ht I I with multicitual instruction, such are those of produced bytes. In others, indistrial occupations are the ten of a function; exercise of a change of employyear on the other manufacts of Burningham and Yorkment to the chiefe. The schools it Paisley and Belfast are ment to the chiefe. In most of the institutions there are it pople the most numerous are the poor, at a me cate a mornisted gratimously, as at London and Man he are of who pay a small and, raising from 2s. 6d

atter case, it has often been found a difficulty to convince verseers if the policy of educating their indigent deaf and dumb, and these restoring them to society; but under the operation of the new poor law, section 56 (a clause who was introduced by the Earl of Harewood), the difficulty is in some measure provided for; permission being there gives for the aircance of sums for the 'deaf and dumb and bland' The second class of pupils received into our institutions are in the victor parants can afford to pay their expenses, w in 1. surfect is in such cases imposed on the funds so armited for maintable purposes. The payment is generally 200. The local about the average expense of pupils in the productions. The third class of pupils are the whose frea is can afford to pay a large sum for their which as no been look, and in some instances more, is the narment required from this class. The number of steel punils being very limited, the masters of institutions argenerally all well the privilege, or a proportion of the inome arang ir m this source is assigned to them.

There are \$500 dear-mutes in England; the institutions it present in a craim a are not capable of educating to be han in. It is calculated that at least one-eighth of the whole number are within the age and other qualification. generally prescribed for education. It therefore seems to be made to the same and the made to the seems of th neur assiruction. The densely populated country between the Trees and the Cheviot Hills appears to be an elicit here the the support of a public institution of this kind. and as there towns are in all respects preferable to should mess, forcing greater educational advantages and permanents nent settlements in after-life, the rapidly improving towal it News is suggests itself as a proper locality for such an establishment. Another institution should be established in the intelligent and populous city of Norwich, who a man include the counties on that portion of our coast. A third desirable point for an institution seems to be Carrmarthen, which would take in the whole of Wales, and te conveniently situated for the populous manufacturing countries of Glamorgan and Monmouth. Such is the feeling of interest with which the deaf and dumb are regarded, that it has frequently been only necessary to make known the r wants to procure for them that sympathy and aid who a

their circumstances require.

The adoption of a few simple measures would in the dutely tend to place the education of the deaf and dumo ... this country much higher, and make it more permated: than it has ever been. At present each teacher follows inown plan, for he has no means of learning those of other. teachers. The systems are all more or less modified to maeral principles which have been long known. matter of instruction and the processes vary in a greater . less extent in different schools, and take their complexificent their respective teachers. the ameliorations introduced into his practice are unk: deto all the others. A centre of union is wanted in which the successful expedients of all shall be accumulated. I. .: we do not see how it would be feasible to form such a cen: without exciting jealousy and distrust. We have therefore to consider how these institutions might mutually serve each other without endangering that unanimity which is is desirable to preserve among a number of individuals engaged in the same labour of benevolence and charity. Tr rourse we would suggest is, that each instructor show. draw up an outline, with sufficient detail to make it intergible, of the branches of study taught in his school; ti t he should explain generally those processes by which to obtains his results; state the average extent of progressions. made by pupils in half-yearly or yearly periods through ... the term of education; the portion of school discipline at 1 instruction under his own peculiar charge; and that jestion which is confided to the assistants; the arrangeme. for the management of the pupils when not in school cluding physical education and industrial employments. Such outlines would have a direct and immediate tenders to assimilate conflicting systems, and to lead to the adeptor processes which would produce the most satisfactory. sults. The expense of printing 200 copies of a pain of this nature would be under 5/.; it might be transmin to all institutions, and those left would be sold to visiter. and defray the cost of printing thus incurred. Nearly ...

the openionisms in this kingdom publish a separa monally.

These reports pring that at mathemist's baseling, and speak of the transfer there is no separate through the separate principles and state of the preseding year produced, and speak of the second of the preseding year produced and the second of the preseding year produced and the second of the first transfer of the preseding year produced and the second of the first transfer of the preseding year produced and the second of the first transfer of the preseding year produced and the second of the first transfer of the preseding year produced and the second of the first transfer of the preseding year produced and the second of the first transfer of the preseding of the second of the first transfer of the preseding of the second of the first transfer of the preseding of the preseding of the first transfer of the preseding of the first transfer of the preseding of the first transfer of the preseding of the presed

The provision for a store common admention with elements are provision for a store count of transfers of the dans is many Kamban very inadequate and transfers of the dans is many Kamban very inadequate and transfers of the constitutions that you are stored from the following transfers of principals in the gravinisti matinitions that you cannot be graved by the principals of the principal of the principals of the public tentum of white the board. The principals are principals of the public tentum of white or two perceptions, the principals of the public tentum of the averaged in their process are applied from the following the probability for the public tentum of the public tentum of the probability of the public tentum of the public t

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With respect to the expandition of the door and doubt no testeurism, and the means by which introction may be tenoured to them, the following prenciples are firmly esta-turisms;—

ion-find; —

1. That The deal and almost are naturally equal for either persons in their implies and faculties and manifestances.

2. That times faculties may be developed by means of actional-d knowneys, or by natural and descriptive agent, assembatical by writing.

3. That the toe important auxiliaries by the instruction of the deaf and dismissional discountry, and the

the deaf and dismb are disciplingly, writing, drawing, and the use of pictors.

4. There by these means the mother-tangens and its perfectly tample in the deaf and dumb; and,

5. That during trainestian unlanguage in the above anxitiaring they may also acquire the choosants of an ordinary obtention.

The supportunic afford in the course of this actiob, for trapeaug and extending the education of the deaf and dumb, are so folion. We don't not but the enspecialism of dumb, are so folion. We don't not but the enspecialism afford and dumb, are so folion. We don't not but the enspecialism a regime of the colors of the series are philanthropous, containing, and transless would, in a very live your, effect all those anneliceations.

1. That the solocule at present in operation in this resource are months in the university of the marginal of deaf and dumb; persons accurational to be within the usual ages of objection.

2. That the trans presents for the marginary visionation of

That the time necessary for the common vibration of a leaf and thirds person, according to the experience of those but informal on the subject, a not less than o'll years.
 That the education of the indepent deaf and dands should be usual importative on the persons to which they believe.

6. That some names, by the press or otherwise, see name.

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" talertest of the state of Nov mt...n at ... ork: The New Jorat other was at D Th frame of-H B Re Cameravia test ocal and here were n the E T HAS INSTITUTED IN IS ः । साम्यविकासस्य 😿 🗃 ः केलाः -THERE and which the L-MITTION DOWNER T I'le weed as anapie as me. A the entirection of are wen spared. in mune and manner 12 at stactory document .ii iiriird mentunor. a mer e maractum. The र अस् व्यक्त औं के स्टर्धायाव " - EGeral Seperintentcontemp of the 3 attitute f ne Deuf mit in fest. No. 53 ets uncer-= in minume one of the

To receipt Philadely. H. .... wit placed up ... - a com the Eartford institusaid the charge of this: 22....2 ir train det. ir int. Issummed the lean ably o ٦. ... There and as are wear. ancresso, arrentes. Mr. Hutt surveys, two of them being do f puss the definition. The direc-. :1. million and the superill in . carried the mean co 1000 Title of Change us d'experien of ----• -- 110 ansorania moreles for the so-I "To "P"I" I L-to provides !! e region of a roma and offer १ १ के व्याप्त करण दश तथा करोजाड were l saite, a v ne vid if Stephen Girt. .. NAME OF SPECIES

the state of the saturated in Danville, More than the saturated in J. A. Jacobs is a specific of the state of the state of Kentucky. The state of th

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and the state of t

At Prener, Lower Canada, there is an institution for the test in aumo, under the charge of Mr. M'Donald, with test in aumo, the charge of Mr. M'Donald, with the test in the system of instruction under the Hartford institu-

The series of the sense of hearing diminished or about the sense of hearing di

Event parts of the complex apparatus commented with the same of hashing. Muss parts of this apparatus are placed by more in fractions of the property of standards and the formation of the property of standards and the property of the property acts of the dassets will be the control of the control of the property of the property acts of the dassets will be the same of the control 
by an accumulation of pus, or of blood, the officed matter is often spentamentally referred by absorption, and the come of bearing gradually referred as the precess of shearption goes on.

One of the conditions essential to the same of heaving is a free passage of air to the classiber of the typeparamethrough the Eustachian tabe. But the diameter of the tube may be diminished or wholly oblitanted by an accumulation of the means which moisters in internal confect, by the thickering of its living membrane, and by the oddessor of this membrane at different points. The entrance of sic into the Eustachian tabe may also be observed by various diseases of the throat, as inflammation stacking the roft palate and the lossils, the comequent enlargement of the tousils, which may cover and completely class the opening of the Eustachian tabe. The inflammation may also spread from the throat into the Eustachian tabe. The inflammation may also spread from the throat into the Eustachian tabe. The inflammation may also spread from the throat into the Eustachian tabe. The inflammation may also spread from the throat into the Eustachian tabe; hence the pain in the sea and the desiress which as after accountance of the inflammation may also spread from the throat into the Eustachian tabe; he may severe sore throat.

The internal car, or that part of the abilitory apparatus in which the impression of second is received, the two and proper ear, z, without doubt, subject to its own discusses, and it is probable that a very slight change in this delicate structure is sufficient to norasion deafness. But the delicate structure is sufficient to norasion deafness. But the delicate structure is sufficient parts is so little orderstood, that the marked classification of its dependent of the brain, and of the discusse of the brain tool. We know that the same is true of the decision of the norm which the part of the amilitory nerve be sound, and that the portion of water, tymph, pass blood, or by the growth of tunnors in its substance, essen The diseases of the auditory passage may be communicated to the members tymph, pur, blood, or by the growth of the members tymphes which may be influenced tunious; in its substance, essue among general diseases, it most severe to which the body is subject, as phrontile, by making the other of transmitting second. It has been obtained to disease, applicable, optiopsy, apoplexy, be: Among the low marked phenomena graduated by these decrees decrease.

always one. Often also this malady immediately follows! repelled cutaneous eruptions and retrocedent gout, and it is the frequent cone imitant of fever. In all these cases deafness is the consequence either of disease of the brain, or of disordered secretions of the auditory apparatus, or of both conjoined; and the hearing always returns as these diseases diminish and disappear,

When deafness arises fr m inflammation of the auditory passage, the deafness can be cured into by the removal of the inflammation, which must be treated according to the principles proper for the fleatment of inflammation in any other part of the pody. When tenthess results from a disordered action of the follows which seemed the viri, it is often removed by introducing into the auditory bassage, night and morning, a loss lof often, containing some site molating unstance, as turn hir, anim nia, or alcohol, suspended in aim ord-on. When the inthory passare is loaded with hardoned way, the ear should be symmed aight and morning with varm milk and water, or wan and water, When polym grow from the lining membrane of the rassage. they must be removed by a surgical operation, and the oriper prevautions taken to prevent or the proper remeties employed to remove, inflammation. When there they from the passage in acrid or fetid fischarge, the ear should be cautiously syringed night and morning, and munterirritation sent up by repeated bilisters beautifule ear, or by a perpetual blister, caused by indiviressing the vesicated surface with unguentum letter. When the feedness urses from a diminished secretion of wax, 20 d effects have of enbeen experience i by the employment of gricumism, which is found not only to occasion a grateful warm him the meatus, but also considerably to augment the secretion of wax. When deathess arries from inflammation of the membrane, which lines the chamber of the temperatum, and from the consequent thicketting of the membrane, or the offsten of fluid into the cavity, the most effectual remedies are bit ters , behind the ears and retive nurge we molicoles. When closure of the Eustichian tube is the curse of leafness, the imperfection of hearing is often immediately removed by perforating the membrana termana, this operation tramediadely establishing a free comman, rather of his to and from the symmathm. When loofness is the consequence of his ease of the auditory heree, or of the bream, the nature of the nervous or cercical affect a most be discrimina ed and ascertained before any periody can be applied with the slightest chance of success; and even when his is accomphysical, it is too often only to a rely us that the discuse is beyond the reach of art.

(PRAL), a bosonsh, market town, and purely, in the hundreds of Corn b and Bowshowingh, in the country of Kon, and a member of the town in i part of Sandwich as a Compare Port. It is setting off since to the sent on a book open beauth, be were those to be and south Porelands, inchreen open weigh, where he is a trained in some income and seven is a seven below the first in length, and exceeding 34 more exceeding 4 more exceed

III., in 1229, and by letters patent of the sixteenth year of Henry IV., the town is shown to have been at that time annexed to the Cinque Ports. A charter was granted by the 11th of William III. constituting it a borough, with a corporation, consisting of a mayor, twelve jurats, 24 con:..... council men, a town clerk, and recorder. On the sorth side is a strong castle, erected in 1539 by Henry VIII, with a most and a drawbridge. There is no harbour, it he fine roadstead called the Downs, between the shore and the Goodwin Sands, is a usual place of anchorage for veof all dimensions, of which, occasionally, four or five him dred are riding windbound, and with safety, except dur a heavy gales from the north and east, when some put 10 o Ram-gate for greater security. The pilots of Deal h at a numerical character as intrepid and excellent seamen in affording Beistance to vessels in distress. The town is paved, light. and watched, and contains a custom-house, a naval so c house, a naval and military hospital, and a gaol. The i nabitan's are chiefly engaged in boat-building, sail-maket and other pursuits subservient to maritime business. Figures a church and chapel of ease, there are several 1) sen ing chapels, and a subscription school for ninety points and guils. Markets are held on Tuesday and Projection two small fairs in April and October. Deal is the nrth-place of Mrs. Elizabeth Carter, the learned translated Editeteus. [Ctwork Ports.] (Brayley and Brite): The Entreus. [Crayes Pours.] (Brayley and Britis: Pentres of England, vol. viii., p. 1018; Municipal Correction Revert, part ii., p. 931.)

DEALS German. dielen; Dutch, deelen; Danish, d. eler;

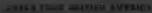
Swe isa. tiljar: French, planches minces; Italian, tar R issian, deski.) Deals are boards of fir above 7 inches width, and of various lengths exceeding 6 feet. If than 7 mehes wide they are called battens, and when we i into the United Kingdom are brought from Paissia, Sweet Norway, and Russia in Europe, and from our print North American colonies. The following statement, compiled with much care by the inspector-general of imp and exports from the entire importation of the year 1will show the average dimensions of deals, the production various countries, the cubical contents of the great had dred (120), and the rate of duty chargeable upon the importation of each class. The dimensions within which each scale of duty is chargeable, are

If of the growth of British possessions in America-

6 ft. and not above 16 ft. in length, not exceeding 3; in. thk., per 120, 12 on in le 21 21 cling II ft. in length, and exceeding 34 not exceeding 4 and exceeding 4

TE ALS FROM EUROPE.

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	Length.	Thickness.	Width	Russia.	Pressia	Sweden,	Norway.	Total from the preceding countries,
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to a two piece we that a few years? Hamilton, from his as a few years.  Second a Sec	15 13 15	3 3 8	11 10 9	1,837	1,314	1,548	4,136	8,897
has been been a see and Principal and the see and the	19 19 19	3 3	11 10 9	18,635	2,043	1,691	549	18,118
From Horoscand Princes.	40 40 40	3 3	11 10 9	6	413	_	_	481
that of importations in the Hundreds	::	::	::	15,534 158,268	3,772 41,320	3,439 29,574	4,667 38,695	27, 436 361,787
is the tree times.  A regulation of the types find not unity paid.	::	::	:	£3 2 6	10.48 9 2 8	8.30	6.48 <b>9 15</b> 7	9.27





The effect of this metiod of charging duties, vir., to similar the time and deals within given dimensions has been as invertee greatly with the interest neares of the time and time and the time and time and the time and the time and time and time and the time and the time and time and time and the time and time and time and time and the time and t

Went padt has been found with the grount scale of further duties, because an our apparent is given by it in the apparent of duals over that ethods to the investment at the funder our of which the doals over sit, but arrows all the went arrandom the present events of duties. The one is

one to be exclosed, moreonich as the moneintered of the emerican level veneralised by averaging their greater a new great to the importaneous of shall. To the matural hard the monet to do in the prompt in a state at the arrotant mature could not be brought in a state at the arrotant. It has dead be not set from the log as quantity as possible after this is falled, the grain of the wood will open, and it will be full of aphic, as about a could a source and it of order and out into their leastle view will be in it to mature. The apitie or theorem new natural are not at appoints to prove to the could be found in the leastle view and in the large contributes to be treated in the large and plants are a from the moneint to the large at an order.

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	From Brown of Front Scotterio		Trees Assessed		Harry Street College
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1800	\$5,010	100	120,022	9	ALCON.
YSAA.	94,898	14	76,673		765, 70%
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Too damend for nighter in the United States of America, has of late much increased, recong to mercessing population on the one heard, and the progressive diministrates of the factors in the certification of the factors in the certification of the factors in the certification of the Daired States, spectrument which will concerning the factors make the factors of the factors which is a factor which may materially interpress with the power of Camela in supply this country on the same scale as herefored.

touson of timber in all its forms corpess the river St. Lawnomes in a degree which may instartedly interpres with the
power of Camela in supply this country on the same calc
as improtecte.

DEAN, Fermis Doyen, and in Laun Descent, a word
which on a first view would be thought to be allied to
DEACON, but which has probably a different origin. Raymaloguis means not to be agreed remerining the styrama;
but the mass maint orbits assigned in it is the word decay,
ton, as if a door were a present who presided our collectic
matter of men or timeys, to number its. This we regard as
very uncertain.

Deac, herever, is a turn of collectedial presidency.
In Sectional it is used for the head of by mainteniles, but
its Kayland we inhave it is continued, continued to paractime or presidences spritting.

In England times are three classes of actalastical presidenties to which the rith them becomes it the noneity the
classical riter of the exclusional divisions of the country, the
discounter into deatheries, below which there is no other
actality and till exceed to paraches, the unmatter of the applications of the country. The whole
country of this deather, with the acception of outland inpresidents.

Those who contend for the derivation of the word dom,
whome deathers, from dream, suppose that ariginally there
were the churches or paraches forming such at their
deathers. The whole demonstrate forms on other
actality as the destroy, the destroy of the design with
the Moreover, the duties derived a superprised only
of the character of the paraches for the property of the country.

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deathers, the was annually a hermised viergyman with
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and the grant, not went of Thingay offered it trends very mentione produces. That was done has a beginning the remains produced to the control of the contro

tory of Ahmednuggur was subdued, and formed into a province of the Mogul empire. In the reign of the Mogul emperor Shah Jehan, his son, the celebrated Aurengzebe, was appointed to command the army on the southern frontier of the empire, and he was not long without a pretext for invading the Deccan, the sovereigns of which he soon reduced to a state of dependence. When he ascended the throne, this prince made war upon these dependent sovereigns, and reduced the whole under his immediate sway: these operations were not completed until the year 1700. In the subsequent reign of Ferokhsere, Nizam al Mulk was sent as viceroy into the Deccan, and soon became its virtual sovereign. The whole country was in fact, from 1717, independent of the Mogul empire, and so continued until the year 1818, when a great part of the

Deccan came under the dominion of the English. The Northern Circars were indeed acquired from the Nizam in November, 1766, but it was not until 1818 that the distri-known as the British Deccan came immediately into a possession. Candeish was then acquired from Mulhar R. Holkar; Poona, the Concan, and the Southern Mahana country was conquered from the Peishwah; and some li in the Southern Concan were acquired from the rajah. Sawuntwarree. The remaining parts of the Decean are possession of the rajah of Berar, the Nizam, and the rajof Sattara. The territory acquired by the English in 1 has been divided into four collectorates, viz., Poona, Ab. . .! nuggur, Darwar, and Candeish, the state of which in Icar's has been thus given by Colonel Sykes, statistical reperter to the government of Bombay.

Collectorates.	Area.	Number of Houses.	Number of Villages.	Number of Inhabitants.	Number of Cultivators.	Begalis of Cultivated Land.	Amount of Land Revenue.	Total Revenue.
Poons	Sq. Miles. 8,281 9,916 9,129 19,527	114,887 136,973 187,929 190,899	1,897 2,465 2,491 2,692	\$50,313 666,376 838,757 478,457	\$9,668 41,948 60,701 44,698	1,527,372 1,468,180 2,649,598 1,056,345	Rs. 15,16,398 18,15,837 19,45,323 16,64,905	Rs. 19,98,000 90,33,995 94,21,516 19,87,733
	39,840	559,204	9,535	2,533,903	199,925	6.701,495	69,42,388	81,35,914

The Deccan began is equal to three-fourths of a statute acre, so that the average assessment on the land is equal to 2s. 9 d. per acre, and constitutes more than four-fifths of the total revenue of the collectorates. All lands are comprised within the limits of some village, each of which has a constitution for its internal government, consisting of a patel or chief, assisted by a chaugula, the kulkami, or village accountant, and other officers called baráballi, the number of the latter depending on the population of the village. A few villages constitute a naikwari, over which an officer presides with the title of naik. Eighty-four villages constitute a pergunnah, or county. Over this number there was formerly placed a desmukh, or governor, assisted by a district accountant and registrar. The lands in this part of India were held under an hereditary tenure; the land-tax is said to have been fixed, but the former governments assumed the power of levying supplementary assessments. Many of the Maharatta families who were in possession of these hereditary estates are extinct, and their lands are now held by a class called upari, a word which signifies strangers, and who are rated each year to the land-tax by mutual agreement between them and the government, the rates being usually the same, or nearly so, as the permanent assessment. A third class hold their lands under leases for five, seven, or nine years, at a rent low at first, and inercasing every year till the expiration of the lease. This mode is resorted to in order to encourage men to undertake the cultivation of waste land. Two other tenures, those of Jaghire and Inam, are recognized in the Deccan. Lands so hold are free from any government tax. Jaghire is the term applied to lands given for personal or military service, and which must be considered in the light of a fief, implying the obligation on the part of the holder to support the gorormment either by personal service or by maintaining troops. but he four callectorates of the Decean more than 400 vil-lages have been thus granted by the government. Inám, a word signifying a gift or present, is applied to lands granted samily in small partions in return for some personal serware such as plating music or danoing in the temples: the lands thus given coldon exceed a few begahs in extent. In most villages of the Decean are to be found some Humans, who are thurses by birth, and who have lands atom to them in huma, that they may hold themselves in quantille for the author of property in the district where the profile. Victors witnesses who were examined before the themselves of the House of Commons in 1832 conentrol in senting that the condition of the cultivators and at the fulnditunits generally has been much improved since the the can entire into the possession of the English govern-

Itht EMBER. This month still retains the original hanne and the it in the Alban, and first Roman calendar adapted according to tradition by Romulus, in both of which it was the tenth, as the name signifies, or last of the year.

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It was the tenth, as the name signifies, or last of the year.

December was antiently consecrated to Saturn: Aigrander ab Alexandro, in his 'Genialium Dierum Libri ee'. says to Vesta, the daughter of Saturn. In the Alban calendar this month consisted of thirty-five days. Romalareduced it to thirty; and Numa to twenty-nine days. Julius Cassar restored the day of which Numa had deprived it: and Augustus added another day, which it still retain-Commodus, who attempted to change the names of several of the months, with the assistance of his tlatterers, gave that of Amazonius to this, in honour of his mistress, Maria, whom he delighted to see clothed in the Amazonian halit. (Pitisci, Lexicon, i. 633, in voce; Court de Gebelin, Am-gories Orientales; Brand's Popular Antiq., vol. i., p. 304 and Brady's Clavis Calendaria, i. 92.)
DECEMVIRI, or Ten Men, the title of various mag.

trates or functionaries in antient Rome.

1. Decemviri legibus scribendis, i.e. ten men for the purpose of making a new code of laws, were certain extraordinary magistrates, or rather a commission of ten men, invested with the power both of framing a new code and administering the republic. In the carly times of antent Rome the judicial power belonged to the kings, and, after their expulsion, to the consuls, who did not decide according to written laws, but only according to usages and ensume As such usages and customs were necessarily subject to doubt, and as the consuls were chosen only from the patrician order, the disputes between patricians and plebenans were probably often decided partially in favour of the former; and this would happen more especially in criminal cases for which no certain law was provided. These curcumstances led to the institution of the decemvire

After many violent struggles, the senate and the ple-beians, B.C. 453, agreed that certain written laws should be framed, to which every citizen, without any distinction, should be subject. A commission of three members was appointed to visit Athens for the purpose of getting a conof Solon's laws and making themselves acquainted w. 's the institutions of other Greek states. (Liv. iii., 31.) Th. commissioners having returned at the expiration of two years, the tribunes immediately called fur the new code. For this purpose another commission, consisting of ten members bers, was named by the comitia centuriata. Uncentrulied power, both administrative and judicial, without any apper !. and accompanied with the suspension of all other many terial offices, including the consuls and tribunes, was Conferred on them. The names of the ten commissioners are recorded in Livy (iii. 33) and Dionysius Halicamass. (Antiq. of Rom., 11, 56). Applus Claudius was the hachnemember of the ten; he was the soul of the commission, and directed all the business. The decemvirs conducted thereselves with great moderation and justice. On the expirate of their year of office, they had framed a body of laws, distributed into ten sections, which were approved by the senate and the comitia, and engraved on ten tables of me in

As the new laws seemed imperfect in some sespects, a new commission was named, at the head of which was the same Appius Claudius (Liv. iii., 25). But the deceasurs now began to behave in a very different manner: they

instant from tyrano and formed a most permission will grader. They branced, monthly appeared on two which were approach by the commission making areal on two which were approach by the commission; and the commission; and the contract to half their milian were now as a sud, they will would not see ga, but contributed to half their power in the year 147 a. . and to elevate it in a many arrangement of the following the despites in a many measuremental description, declared Virginia, the despites of Virginia, the arrangements of the finance of the distinct proposal for half various in the filangest event to have been violation, which is he falled, to see the decidition term to take responsible proposals. Yis mine, the falled, to see the decidition which has been a falled on the people to take composition which is he had, called on the people to take composition as allow oppositions. Both the continues continue at them were the self-to-decided and the arrangement of the decimal power of the decimal power of the decimal proposition. Appairs Plancing was purple from the laws of the two of the latter the continues was purple from the laws of the two of the latter the proposition of the continues of the former and the two of the latter the continues of the decimal power of the two of the latter the continues of the form the laws of the two of the latter the approach to the form the laws of the two of the latter the proposition of the proposit

the problem to get through the business of his court, to the personnel throught, we have no distinct of the life personnel through were sheeted for the. The tre of the Sciptime hooks belonged to their, and were models by them on important co-asimon.

4. Hermore arrive distinuation, were a commission for the appears of dividing hinds among the colonist form as we releasy was to be established.

5. HECHALISES CLAUDE PRANÇOIS MILLIET was a self-homology, the expend of Savey, in terr. He well-may are several branches of mathematical, mechanical, a surrounness of except of Savey, in terr. He well-may are except branches of mathematical, mechanical, a surrounness of except of Savey, in terr, the work is geometry toward branches of mathematical, mechanical, a surrounness of except of the only work by which be securedly toward in the control of Build, a high was true true as obstone great propolarity smooth out to the partial of the mitigant. It was also translated into English; her dish a obstone great propolarity smooth out commissions, there is no personnel continues. It has also translated into English; her dish a obstone great propolarity smooth out outside a few parts of the proposes which he breated, and thore are interspored to my personnel continues which he breated, and thore are interspored outside in dish and a mostly be work matry marks of considerable invention, so it as of a magnetic next marks of continues the forest on a mathematic of the continues of

same from tyrons and formed a ment permitted only the had given binnell up for the solety of the army, he notes. They from all the comments and any rated on the thick of the change, and was soot overpowing of the distribution of the comments and the part of their uffice were allowed in hereign countries a and the part of their uffice were allowed in hereign countries of any the foods, on as and, they still would not see my but continued to

DECIUS CATUS MESSIUS QUINTUS TRAJA-With, the Roman appears, encrossful Pinip, and churty distinguished farmout for his residual persentian of the Christones. He and his sen fell by an especialize against the Goth, should a p. 201.





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∵ ਦ .; i in district ताका पात ता अन्यादाः \_\_\_\_ un destruct in the destruction minement i de dat defance. \_\_\_\_\_\_ النتاب اختلف عناشا -----وطنعة محتث عمقة مشاه لاست THE STORY FOREST & SERVER I The entire termination manut i Printelier ale ini ---Sent and Test will have the Re Read of Frincis. containing to him among course that the effect minima to a mand and ring he sar hearer The same of the mark to sale of the control of the sale of the control of the con The rate of the trade of the property of the party of the one de minero e de all'ule E de mare mel de comunitat i de sant. Il de alseer le mande ann The second of the second secon ार भारत है है जार है जाते हैं कि से से स्टूर्ण है। the second of the me made which has be the . S Sue warer to 2.2 Line & De LIVE DE LEAST THE THEIR DIESES No. 1 1 22 destrolados de arrestadas en la composição de arrestadas de a WAGNETHO NEEDLE to be taken to be an artificate Belluich

THE PLANT AND ADMINISTRATION OF THE PROPERTY 15. Line and a design recom-. . .to the Company E STURY OF The second and the second second in the case of the magnetic but the entire example of the part and when the property of the well an instruthe second of the second of the discovered at the same the new tented on has coth in his the course of the control on are if Hiu-tehin, the section of the section of the section of the diand which will have been to the date a.m. 121. made to a man a Contract have ding to Duthe second the years and 253 and 419), the a vi a was meeted by the magnetized needle; next was govern a work composed in the it were to be one were we and the fortune-tellers which is a movie with the stone of love (the frewhere we are give south. (Portsh Annual,

the reason to believe that the Chinese

were sensionative with mir other method of making artificial motion, that it motion upon the natural one, yet as all it is a many the in week produced, have precisely the some sime accommens we can hardly conceive it possible and a reline to emacration to they are for observation co. ... . The same negation. Indeed (as Mr. Davies observes a its station of the Marmer's Compass before referred to, we introduce introduce, when we look at the lines of equal watum a ne liming seas, which is peculiarly the great was the second of our time, and which throws suspice in · . . ..... ar state then, we cannot think the Chinese an ent if it, whilst their commerce extended · e desait but un que Rei Seal' But we are not less in the later however probable, on this head, as are out said the nationary in the Chinese annals, which artistic and is some out by comments of a second with small points (hair) of the first of the second is rough. It at will ted ince that its varie surface is rough. the man and america to it; and is accordingly called the to be the first white min. The Hi-dan-chy, a dark blue stone, the measurement houseone. When an iron point is and the arrection of the south; nevertheless, it always the treat, and is not due south.' And, after deservice the mastriction of the compass, the passage prosee is a say that the instrument 'indicates the south, but Lease Fig. a seemnation towards the point ping, that is to :Av. .: .: - 'o 'Le -out.i.'

The arrivest mention of the magnetic declination amongst ther than changes writers, is in a manuscript known as the Assumer or Leyslen Manuscript. The first distinct notice it was taken by Senetier of Geneva; and ample extracts from it both in the original Latin and English translations, very given by Cavallo in a supplement to his Treatise on Magnetism, in 1795. This manuscript has been the subject to many assumption; but its authenticity is still greatly heartest.

it has been usual among European writers to refer the inscovery in the decimation of the needle to Columbus, on his first viviage of discovery in 1492. This opinion restantishing in the testimony of the son of that great navigator, who states the circumstance in the life of his father, with obscierative probability of its being a real case. It is however narrily to be conceived, that the compass should have seen in use amongst the enterprising sailors of Europe, from voyages so extensive as were then frequently undertaken, without the circumstance being not only observed by some, but known to all who were engaged in maritimatifiers. At all events, it appears from various printed works and manuscripts to have been familiarly known very soon anterwards to all the commercial nations of Europe.

When it was found that the needle declined from the mercian by different quantities in different places, it was said assumed that at each given place the declination was constantly the same. In 1581 Burrough published his Discourse on the Variation of the Compass, in which lessaies as the result of numerous observations, that the decimation at Limehouse was 11° 15′ E.; but in 1633, Gillebrand, the Gresham professor of geometry, found by careful poservations that it only amounted to 4° 5′ E. It has indeed been stated by Bond, that the variation of the decination was first discovered by Mair, and secondly by Gunter; but as he gives us no authority for this assertion, we are unable to judge of its truth or falsehood. Bond was addicted to paradox, and his statements should therefore be received with caution.

Careful observations (subject, however, to several sources of then unsuspected error) have been made from the period down to the present time; and they all concur in showing that this variation of the declination is continually going on, though not with a uniform angular motion. It was therefore inferred, that the needle would continue to revolve round the horizon by slow degrees, till at last it cause round again to any given position; and it appears to have been suspected by some, that the irregularity of its indicated motions was only apparent, and arising either from the imperfection of the instruments employed, or the inacturacy of the observations themselves. The scientific was consequently, not prepared to expect the results of Major Sabine's observations on the declination, and the truth which they unfolded; when in 1818 he determined it

and where there even seems to be a direct contrast between allows.

The daily variation of the declination was first choosed by Gesham in the early part of the last century. He found by very careful experiments upon excellent needles, that the declination was not uniform during the whole period of a day semestars being in the east; and constitues to the wor of the near of mean declination at the time and place of the eventual Caution, less than half a century later, made a memberable number of observations, and a great number of experiments on a subject, which in, like Grabian, supposed to be collideral with it.—the influence of frequentiars upon the meaning and the strength of the Royal Military Academy, and M. Kupbers (Lamin. Reparate parts, tes, of this impury have been attended with very consensus establish the hands of Mr. Bacton, likewise of Wealwich Academy, on the influence of Lamin. Reparate parts, tes, of this impury have been attended with very consensus results in the hands of Mr. Bacton, likewise of Wealwich Academy, on the influence of Lamin in the second daily variation for exercil years before the death.

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For father details on all these subjects, reference is made to bring a force of publication, or whall be considered and the collection of the popes in reclassical matters in home and the surface of the reader's understanding. One general stain of the reader's understanding the content of the publication, and the maximum to the reader's understanding. One general stain of the reader's understanding the publication, and the reader's understanding the publication of the

to be 11 Je W., and tour years attreverte to have return position to 22 (2) of London. Some point observations are considered in the constraint of the const

pared.

DECOMPOSITION, When a compound body undergoes an entire change of properties, either quantamentally or from channeal agency, it is said to be decomposed; thus, during formentation, whether the spiritions, scotton, or partoductive file substance fundergoing it suffers shomequation, and its elements recombine so is to form new compounds. This destinguishes it from more mentational division, to whatever extent that may be carried. [Analysis: Fan services.]

DECREE, DECRETA'LES: The term decree (decretion) denotes a decision or onler by a compound pome or magnitude, by which some doubtful or slapuled point of judicial inquiry is determined.

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and all the circumstances admit of complete explanation by it.

Kelly appears to have been one of those sordid and ser vile characters that look only at the immediate gain to be made of each single transaction, without having either principle or honour in his composition. Dee, on the contrary, was, as Lilly in his gossiping memoirs tells us, 'the most ambitious man living, and most desirous of fame and renown, and was never so well pleased as when he heard himself styled Most Excellent.' Lilly also gives a curious renown, and was never so well pleased as when he heard himself styled Most Excellent.' Lilly also gives a curious narrative of the means by which the servant Kelly obtained the art of transmutation from a poor friar, with whom Dee would have no intercourse; and that when the secret was obtained, the friar was made away with; and one reason given by this arch-knave of the Protectorate, Butler's 'Sidrophel,' why 'many weaknesses in the manage of that way of Mosaical learning ('conference with spirits,' in the book ascribed to Dee), was because Kelly was very vicious, unto whom the angels were not obedient, or willingly did declare the sweetiers responsed d' declare the questions propounded.

Dee and Kelly separated in Bohemia, the former r

turning to England, the latter remaining at Prague. Of the circumstances attending this rupture nothing is cer-tainly known; though the narrative given by Sidrophel is Characteristic enough of Kelly's character. See William Lilly's History of his Life and Times from 1602 to 1681,

p. 224. Baldwin's Edition.
In 1595 the queen appointed Dee warden of Manchester College, he being then sixty-eight years of age. He resided there nine years; but from some cause not exactly known he left it in 1604, and returned to his house at Mortlake, where he spent the remainder of his days. He died in 1608, aged 81, leaving a numerous family and a great number of works behind him. 'He died,' says Lilly, 'very poor, enforced many times to sell some book or other to buy his dinner with, as Dr. Napier of Linford in Buckinghamshire

oft related, who knew him very well.'

Had Dee lived in better times, his great talents, application, and ambition, would have won for him the highest honours; as it was, he was merely the spy of Elizabeth's base ministry, and to effect that purpose obliged to have recourse to stratagems which debase the moral as well as the intellectual character. We have seen his reward too,

penury in his old age.

Dee's writings are very numerous, several of which still remain in MS. A catalogue of his printed writings may be seen in his Compendious Rehearsal, or his letter to Whitgift; and from these it appears that he then had by him more than forty unpublished writings, the titles of which he

DEED (in law), an instrument in writing or print, upon paper or parchment, comprehending the terms of agreement between parties able to contract, duly sealed and delivered. Deeds are of two kinds, indented and poll: a deed indented is called an indenture, and has a waving line cut (in modum dentium) on one of the edges of the material upon which it is written, usually the top edge; and when the deed consists of more sheets than one, on the first sheet only. The term indenture implies that the deed is of two parts, and that they were divided by the line in order to afford additional means of authentication, but, except in the case of leases, marriage settlements, partnership deeds, and some few others, there are seldom more parts than one. In deeds effectuating modern transactions, indeed, the expense of stamps is so heavy, that frequently, where two or more parties are equally interested in a deed, it is deposited with some person for their joint use. Hence the term indenture, in common acceptation, now implies little more than that the deed is made by and between two or more parties. Antiently some word, as for instance 'chirographum' (whence chirograph'), was written in capital letters upon the part where the parchment or paper was to be divided, and after-wards cut in an indented or, in some cases, a straight line.

A deed poll is cut even, or polled at the edges, and is usually of one part only, i.e. the deed of one party, or of several parties of the same part. The form commences in the mode of a declaration, 'Know all men by these presents, that,' &c.; the form appropriated to an indenture or a deed among several parties is 'This indenture, made, &c between, &c. Witnesseth, &c. A deed inter parter is not necessarily indented, except in those cases where an indenture is required by statute, and except in the working

of an estoppel. [ESTOPPEL.] The indenting is not es tial, even though the instrument should commence 'This indenture,' &c. It has been said that the indenting may be supplied after the deed is executed, and even in court; but in all cases where the indenting is essential to the va-lidity of the deed, it seems clear that this must be a misake.

A deed, to be absolute and irrevocable, must be founded on a valuable or good consideration, untainted by anything immoral, illegal, or fraudulent, though a gift or voluntary conveyance will be effectual as between the parties, and s only liable to be questioned in certain cases by creditors ur subsequent purchasers; and a voluntary deed may become irrevocable by a subsequent sale by the grantee of the sub-

ject-matter conveyed by it

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Antient deeds were short, and suited to the simplicity of the times. When transactions became more complicated, it was customary to divide deeds into several formal parts; but it is not absolutely necessary that a deed should be so divided, provided there are sufficient words to show the meaning and intention of the parties. These formal parts are, 1. The premises: that is, the date, the parties names and description, the recitals, the consideration and receipt the great the description of the things greated and thereof, the grant, the description of the things granted, and the exception, if any; 2. The habendum, which defines the estate or interest to be granted; 3. The tenendum, which was formerly used to express the tenure by which the estate granted was to be held; but since freehold tenures have been converted into common socage, the tenendum has grown out of use; 4. The reddendum, the reservation of some new thing, as rent, to the granter; 5. The condition (if any) annexed to the grant; 6. The warranty; 7. The covenants: the office of these two last, in modern conveyances, is served by special covenants for the validity of the title, and to do or abstain from doing certain specified acts; 8. The conclusion, which mentions the execution, &c.

Previous to its execution, the deed should be read, if any of the parties require it; or, as to that party, it may be avoided. The modern mode of executing deeds is by signing, scaling, and delivering. Signing is not essential to the validity of a deed, though it is required as to less formal instruments by the statute of frauds, 29 Ch. II. c. 3; but sealing is abserlutely necessary, which is the most antient mode of authoutication, and has been in use from the earliest times. present the seal affords no real security against fraud, for any impression upon wax or other substance employed isufficient; indeed it is generally affixed by the stationer who engrosses the deed, and it is not even necessary that there should be a seal for each party; one is sufficient for all. In some of the American states the impression upon wax habeen disused, and a flourish with the pen at the end of the name, or a circle of ink, or a scroll, is allowed to be a valid substitute for a scal. The last essential to the due execution of a deed is delivery, except in the case of a corporation, where sealing by the common seal has the effect of delivery. The usual manner of delivering a decd is for the but any less formal mode by which the party signifies has intention to deliver it will be effectual. A deed may also be delivered as an escrow, r.e. to a third person to keep this something is done by the grantee: when the condition is performed the deed becomes effectual. A deed takes effect from the delivery, and not from the date, and therefore it it have no date, or a date impossible, the delivery ascertains the time from which it is to take effect. Evidence is admissible also of delivery on a day different from the date written. The execution is usually attested. Enrolment and registration are rendered necessary in some cases by statutory enactment, and the revenue laws have imposed certain stamps upon every description of deeds, the absence of

which prevents them from being admissible in evidence.

The principal rules for the interpretation of deeds are, that the effect be fair and reasonable, and as near as possible to the apparent intent of the parties as the rules of law will admit: that the construction be made upon the entire deed, and not upon disjointed parts: that where the intention is clear, too minute a stress be not laid on the strict and precise signification of the words, and that if there be two clauses totally repugnant to each other, the first shall be received, and the latter rejected. There are many other rules of construction, which are exactly the same in courts of law and equity. Courts of equity also rectify mistakes in deeds, and give relief in cases of fraud, and where instruments are lost, &c. [Equity.]

After execution, a deed may become void by erasure, interlineation, or other alteration in any material part; but, generally speaking, such alterations will be presumed to have been made before the execution, if nothing appear to the contrary, or there be no cause to suspect that it has been done in a clandestine manner. A grantee may also disclaim the grant or disagree thereto; and a deed may be destroyed or cancelled, but such destruction or cancellation will not revest the thing granted in the grantor, though all personal engagements established by the deed between the parties will be put an end to.

A confirmation is an assent to an estate or interest already created, by which act the person assenting confirms and gives validity to the estate or interest so far as he can. A confirmation can only have this effect with respect to estates voidable or defeasible: it has no operation upon

estates voltable of defeasible: It has no operation upon estates which are absolutely void. (Butl. n. Co. Litt., 295 b.) (Shep., Touchetone; Dixon; Co. Litt.; Cruise's Digest.) DEEMSTERS. [Man, Isle of.] DEER, CER'VID'A, a family of solid-horned ruminants, the horns caducous, and belonging, generally speaking, to the male only. the male only.

# Horns.

Before we enter upon the other details of the natural history of the species composing this noble natural group, it will be necessary to say a few words on the development of the horns, which form so remarkable a part of the organization of the animals, as weapons of attack and defence, and as being indicative of the presence or the absence of the power of continuing the species, and the more or

less vigorous degrees of that power.
In the Museum of the Royal College of Surgeons (Physiological Series, No. 179) will be found a section of part of the os frontis and of the base of a fullow deer's horn (Cer rus Dama), the growth of which is nearly completed. It shows the horn to be a continuation of bone from the outer table of the skull, and the velvet-like covering of the horn to be equally continuous with the integuments of the head. It shows also the burr or pearl which has been formed round the base of the horn, and illustrates the effects of

this part on the growth of the horn.

In the formation of the burr, which is the last part of the process, and takes place rapidly, the osseous tubercles of which it is composed are projected outwards, and by their pressure induce absorption of the vascular external evering, and increasing at the same time laterally, they enclose and compress the blood-vessels; thus, in a short space of time, the circulation is entirely obstructed, and consequently the whole of that once very vascular and sensible tegument loses its vitality, dries, shrinks, and peels off leaving the horn a naked insensible weapon. In one of the branches (the brow antler) in this preparation, the whole of the vessels appear to have been thus obliterated; in the other a slight degree of vascularity remains, and one of the large external arterial branches is still uncompressed (Catalogue, Physiol. Series, vol. i.) The beautiful preparations illustrative of the process are numbered 163 to 187, both inclusive.

The rapidity with which this firm mass of bone is secreted is worthy of note. The budding horns of a male wapiti were several inches high in ten days from their first appearance: a month afterwards there was an interval of two feet between them, measuring from branch to branch.

It is in the spring generally that the reproduction of the horn is begun. From the place whence the old horn had been separated and cast, and which at first is apt to bleed, but soon

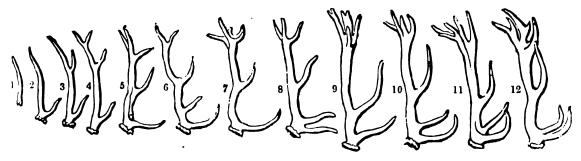
is skinned over with a fine film, the new horn sprouts. At this time there is a strong determination of blood to the head, great in proportion to the demand for such an enormous and ultimately solid secretion. The vessels from the roots swell, the vascular horn pushes up, protected by a delicate and soft covering. In this its early stage it is nearly cylindrical, and the quantity of animal heat which it contains may be in some degree imagined by gently grasping it with the hand. Gradually the antiers appear; the whole 'head,' firmest solidity; the animal feels its powers, and proceeds to rub off the drying and decaying 'velvet,' which may be seen at this period hanging from the horn in ragged strips, against trees and other resisting bodies, leaving at last the magnificent ornament and weapon with only the traces on its now hard surface of the blood-vessels which had produced it. Then it is that the deer, conscious of his strength, comes forth in all his grandeur, ready to do battle with any creature, even man himself, who may dare to invade his haunts. Fierce fights ensue, and the strongest male reigns paramount. The rutting season dies away, spring returns, the antiers are shed, again to be regenerated in time for the season of love.

In the common stag or red deer (Cervus Elaphus), the shedding of the horns takes place about the end of February or during March. The fallow deer sheds his horns from about the middle of April to the first weeks of May

For the production of these annually regenerated bony masses Nature has provided with her usual care. John Hunter, 'that every part increases in some degree according to the action required. Thus we find muscles increase in size when much exercised; vessels be come larger in proportion to the necessity of supply, as for instance in the gravid uterus. The external carotids in the stag, also, when his horns are growing, are much larger than at any other time; and I have observed that in inflammation the vessels become larger, more blood passes, and there appear to be more actions taking place; but the nerves do not seem to undergo any change. The nerves of the gravid uterus are the same as when it is in a natural state; neither do the branches of the fifth and seventh pair

of nerves in the stag become larger.' (Hunter on the Blood.)
But it must not be supposed that the antiers reach their full amplitude in the first years of the male deer's life. In the stag or red deer the horns of the male do not appear till its second year, and the first which is shed (fig. 1) is straight and single, like a small thrust-sword or dagger, whence the young male is termed by the French daguet. The next horn has generally but one antler, as in fig. 2; but it has sometimes two, and even three (figs. 3, 4, which are horns of stags in their third year). The third horn has three or four antlers, and sometimes as many as five or six, which are also the numbers of the fourth (figs. 5, 6). Up to this time the young male is called a young stag—jeunc cerf. The fifth horn bears five or six antlers of the degree of development indicated in figs. 6, 7, or 8; in this stage the animal is called by the French cerf de dix cors jeune-The sixth horn, which the stag sheds at about seven ears of age, is that which bestows upon the stag the appellation of cerf de dix cors.

The proportional length, direction, and curvature of the antlers vary; and it often happens that there is one more or less on the one side than on the other. Independently of the number of antlers, the horns become larger, the superficial furrows more marked, the burr is more projecting, and the prominences of the frontal sinus which support

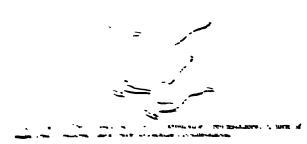


[Horns of Stag, Cervus Elaphus, Left Horns.]

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THE CONTRACT STEELS



Time fix Fasiow Deer that were not shed at the usual time in the limit is a marranon or the animal. From the Museum of the College

The same system if levelopment which we have observed The first confirmation of the fallow deer (Certaine) in example of the latter, we find the horn first confirmation of the fallow deer (Certaine). LET THE W The Duck at two years old, (when he is called a structure, a sample shark, slightly curved, the concas to urnest privaries (fig. 1); this curvature the horns retain arrognout. The second year there are two antiers directed arrows fig. 2, and the summit of the horn in some cases egins to spread into a paim (figs. 3, 4) which afterwards in reases, mrowing out a greater or less number of dentelations n is posterior and superior border (figs. 5, 6, 7, 8). Some-imes one if wo if these dentelations form true recurrent anters figs. 6, 9). Figs. 8 and 9 are horns of the fourth prowin, and it will be seen that they begin to be divided arranged. With self-energy and traces of the very frequently and arranged fixed the following years the palm is irregularly and arranged fixed the following the fixed f



"Steem of Whitow ber Corona Thinks Left Horns.]

to the holice Change has been supposed that the momentage and cold climates; but it has been supposed that the extraction of the product of the production of the proof the process of the wind of the process of the proce

The representative of the heavest at arminal on the deer of

the species inhabiting hot climates do not east there were of the species inhabiting hot climates do not east there has been so made to be seen to be seen to be more especies. given to those deer which inhabit the northern latitudes;

\* It is apparent from the specimen that these horns could never be sight they form one bony continuance with the os frontis. They are evidently they be to of highly disordered functions, and the bony excresomess from the beam seem to have the character of exostosis.

The state of the s

and it is a use, from the somewhat is a function of the relative days beginning in the several faction distribuys of the Scokery's Macro point.

As the more used at these multivalunis, as understant the child faction distribuys and the source used at these multivalunis, as understant the ago shown as the hadry goal since as a sample since the source of the source

Here sendle, more or loss subdivided, without either hashing or moved culters, but becomend by a past palmetion, digitated on its external border only.

in younger specimens, encumbered with a pendulous gland: these give altogether an uncouth character to this part of the animal. Its body, however, is round, compact, and short; the tail not more than four inches long; and the legs, though very long, are remarkably clean and firm; this length of limbs and the overhanging lips have caused the antients to fancy that it grazed walking backwards. The hair of the animal is coarse and angular, breaking if bent. Its movements are rather heavy, and the shoulders being higher than the croup, it does not gallop, but shuffles or ambles along, its joints cracking at every step, with a sound heard to some distance. Increasing its speed, the hind-feet straddle to avoid treading on its fore-heels, tossing the head and shoulders like a horse about to break from a trot to a gallop. It does not leap, but steps without effort over a fallen tree, a gate, or a split fence. During its progress, it holds the nose up, so as to lay the horns horizontally back. This attitude prevents its seeing the ground distinctly; and as the weight is carried very high upon the clevated legs, it is said sometimes to trip by treading on its fore-heels, or otherwise, and occasionally to give itself a heavy fall. It is probably owing to this occurrence that the clk was believed by the antients to have frequent attacks of cpilepsy, and to be obliged to smell its hoof before it could recover; hence the Teutonic name of *Elend* (miser-

able), and the reputation, especially of the fore-hoofs, as a specific against the disease.' (Smith.)

In 'A perfect Description of Virginia,' (small 4to, 1649.) we find it thus written: 'The elkes are as great as oxen, their horns six foot wide, and have two calves at a time.' Hearne remarks that the horns of the moose occasionally exceed 60 lbs., and that their texture is harder than that of any other deer-horns to be found in the fur countries. Lawson ('Nat. Hist. of Carolina') says, 'The elk is a monster of the venison sort. His skin is used almost in the same or the venison sort. His skin is used almost in the same nature as the buffelo's (bison's). Some take him for the red deer of America, but he is not; for if brought and kept in company with one of that sort, he will never couple.\*\*\*
His horns exceed (in weight) all creatures which the New World affords.' Dr. Richardson states that he has been informed that the males competings attain a weight of informed that the males sometimes attain a weight of

eleven or twelve hundred pounds.

Utility to Man.—'The flesh of the moose is very good, Utility to Man.—'The flesh of the moose is very good, though the grain is but coarse, and it is much tougher than any other kind of venison. The nose is most excellent, as is also the tongue, though by no means so fat and delicate as that of the common deer (rein-deer). The fat of the intestines is hard like suet; but all the external fat is soft like that of a breast of mutton, and, when put into a bladder, is as fine as marrow. In this they differ from all the other species of deer, of which the external fat is as hard as that of the kidnies.' (Hearne.) In the 'Perfect Description of Virginia' above quoted, it is stated that the 'skins make good buffe, and the flesh as good as beefe.' Lawson, though he speaks of the good qualities of the skin, does not seem to have so high an opinion of the flesh. skin, does not seem to have so high an opinion of the flesh. 'His flesh,' says Lawson, 'is not so sweet as the lesser doors.' Dr. Richardson remarks that the flesh of the moose is more relished by the Indians and residents in the fur countries than that of any other animal, and princi-pally, he believes, on account of the soft fat. In his opinion, corroborating the old book above quoted, the flesh hears a greater resemblance in its flavour to beef than to

The same author describes the dung of the animal as long in the form of brown oval pellets, and such were the droppings from the individuals kept at the garden of the Zoological Society in the Regent's Park. The skins, Dr. Richardson observes, when properly dressed, make a soft, thick, phable leather, excellently adapted for mocasins, or other articles of winter clothing. The Dog-ribs, he adds, excel in the art of dressing the skins, which is done in the following manner. They are first scraped to an equal thickness throughout, and the hair taken off by a scraper, made of the ship home of a deer, split leaving the start taken. made of the shin-bone of a deer, split longitudinally; they are then repeatedly moistened and rubbed, after being smeared with the brains of the animal, until they acquire a soft spongy feel; and lastly, they are suspended over a fire made of rotten-wood, until they are well impregnated with the smoke. This last-mentioned process imparts a peculiar odour to the leather, and has the effect of pre-

ing it from becoming so hard, after being wet, as it otherwise do. (Fauna Boreali-Americana.)

Locality.— Du Pratz, writes Dr. Richardson, 'informs us that, in his time, moose-deer were found as far south is the Ohio: and Denys says that they were once plenufai on the Island of Cape Breton, though at the time he wroce they had been extirpated. At present, according to 12. Godman, they are not known in the state of Maine, but they exist in considerable numbers in the neighbourhand. of the Bay of Fundy. They frequent the woody tracks the fur countries to their most northern limit. Seve were seen on Captain Franklin's last expedition at mouth of the Mackenzie, feeding on the willows, who owing to the rich alluvial deposits on that great river. tend to the shores of the Arctic Sca, in lat. 69°. Farther to the eastward, towards the Copper Mine river, they are not found in a higher latitude than 65°, on account of the searcity on the Barren Grounds of the aspen and willow, which constitute their food. I have not been able to ascertain whether they occupy the whole width of the ce: tinent or not. Mackenzie saw them high up on the eastern declivity of the rocky mountains, near the sources of the Elk river; but I suspect that they are rarely, if ever, for the to the westward of the mountains. Authors mention the moose generally form small herds in Canada. Hontan, who travelled in that country in 1683, says, tl : whilst he accompanied the Indians, they hunted the Iwith dogs when there was a crust on the snow; and that after a chase of a few leagues they generally found in fifteen, or twenty of them in a body: in three months 1, party killed fifty-six, and might have taken as many in-it is probable, however, that La Hontan in this pa-confounds the Canada-stag and moose-deer together. mentions the animal being able to run, in the sum or season, for three days and nights in succession, and the excellent flavour of its flesh,—facts which apply to the moose-deer, but not to the Canada-stag; on the other had the weight of the horns, which he says sometimes armone to four hundred weight, is true only of the stag. In manner the accounts of the other antient writers on Canare liable to suspicion.'

Habits, Chase, &c.-Lawson observes of the elks 11

'they will often resort and feed with the buffelo, delig; in the same range as they do.' Dr. Richardson gives to following succinct account of their habits and food, and f

the mode of hunting them.

In the more northern parts the moose-deer is quite a solitary animal, more than one being very seldom seen a . time, unless during the rutting season, or when the female is accompanied by her fawns. It has the sense of hear... in very great perfection, and is the most shy and wary of all the deer species, and on this account the art of mount and the deer species, and on this account the art of most hunting is looked upon as the greatest of an India acquirements, particularly by the Crees, who take to them selves the credit of being able to instruct the hunters every other tribe. The skill of a moose-hunter is most tried in the early part of the winter; for during the summer the moose, as well as other animals, are so much tormented by musquitoes, that they become regardless of the approach of man. In the winter the hunter traces the moose by its foot-marks in the snow, and it is necessary that he should keep constantly to leeward of the chase, a make his advances with the utmost caution, for the rustimof a withered leaf or the cracking of a rotten twig sufficient to alarm the watchful beast. The difficulty approach is increased by a habit which the moose-deer has of making daily a sharp turn in its route, and choosing a place of repose so near some part of its path that it can hear the least noise made by one that attempts to track ::
To avoid this, the judicious hunter, instead of walking m the animal's footsteps, forms his judgment from the pearance of the country, of the direction it is likely to have taken, and makes a circuit to leeward until he again finds the track. This manceuvre is repeated until he discovers by the softness of the snow in the foot-marks and other signs, that he is very near the chase. He then disencum-bers himself of everything that might embarrass his motions, and makes his approach in the most cautious manner. If he gets close to the animal's lair without being seen, it is usual for him to break a small twig, which alarming the moose, it instantly starts up; but, not fully aware of the danger, squats on its hams, and voids its urine, preparators to setting off. In this posture it presents the fairest manad the hunter's shot seldom fails to take effect in a mortal part. In the rutting season the bucks lay aside their

timidity, and attack every animal that comes in their way, and even conquer their fear of man himself. The hunters then bring them within gun-shot by scraping on the bladebone of a deer and by whistling, which, deceiving the male, he blindly hastens to the spot to assail his supposed rival. If the hunter fails in giving it a mortal wound as it approaches, he shelters himself from its fury behind a tree, and I have heard of several instances in which the enraged animal has completely stripped the bark from the trunk of a large tree by striking with its fore feet. In the spring-time, when the snow is very deep, the hunters frequently run down the moose on snow-shoes. An instance is recorded in the narrative of Captain Franklin's second
journey, where three hunters pursued a moose-deer for four
successive days, until the footsteps of the chase were
marked with blood, although they had not yet got a view
of it. At this period of the pursuit the principal hunter
had the misfortune to sprain his ankle, and the two others
were tired out: but one of them, having rested for twelve were tired out; but one of them, having rested for twelve hours, set out again, and succeeded in killing the animal after a further pursuit of two days' continuance. Notwithstanding the lengthened chase which the moose can sustain when pursued in the snow, Hearne remarks that it is both tender-footed and short-winded; and that, were it found in a country free from underwood, and dry under foot, it would become an easy prey to horsemen and dogs. The same author informs us that in the summer moose-deer are often killed in the water by the Indians who have the fortune to surprise them while they are crossing rivers or lakes, and that at such times they are the most inoffensive of animals, never making any resistance.

'The young ones in particular,' says he, ' are so simple, that I remember to have seen an Indian paddle his canoe up to one of them, and take it by the poll, without experiencing the least opposition, the poor harmless animal seeming at the same time as contented alongside the canoe seeming at the same time as contented alongside the canoe as if swimming by the side of its dam, and looking up in our faces with the same fearless innocence that a houselamb would, making use of its fore foot almost every instant to clear its eyes of mosquitoes, which at that time were remarkably numerous. The moose is the easiest to tame and domesticate of any of the deer kind.

With respect to the food of the moose, the same traveller suye, 'Their legs are so long, and their necks so short, that they cannot graze on the level ground like other animals, but are obliged to browse on the tops of large plants and the leaves of trees in the summer, and in winter they always feed on the tops of willows and the small branches of the birch-tree, on which account they are never found during that season but in such places as can afford them a plentiful supply of their favourite food; and although they have no fore-teeth in the upper jaw, yet I have often seen willows and small birch-trees cropped by them in the same manner as if they had been cut by a gardener's shears, though some of them were not smaller than a common pipe-stem; they seem particularly partial to red willows' (cornus alba). To the eastward of the Rocky Mountains the evergreen leaves of the gualtheria shallon form, according to Lewis and Clark, a favourite part of the food of the moose-deer.

The wooden pipe-stems above alluded to and used in Hudson's Bay, are, says Dr. Richardson, about the thick-

ness of a little finger.

It is generally held by zoologists that the American elk and the European or Scandinavian elk are specifically the same. It was the opinion of Buffon that the European elk was not known to the Greeks, nor does it appear to have been noticed by Aristotle. That it was the AARN (Alce) of Paus anias, Alce of Casar and Pliny, Elch of the Celts, and Elg or Elg of the northern Europeans, there can be little doublet. Pausanias describes it (ix. 21) as being ελάφου και καυ μεταξύ, 'between a stag and a camel;' and though the unts of Cæsar and Pliny are mingled with fable, and former states that his Alces are mutilæ cornibus (which ight arise from the accounts of those who had seen the mal at the period when the horns had exfoliated), the oral description and the localities given by both are but conclusive as to the animal meant to be designated. 'labrum superius prægrande,' 'huge upper lip,' of hy, is very expressive, and the extraordinary develop-Pin



[Alces Americanus.]

scribed by Aristotle (Hist., lib. ii. c. 1) as having a mane near the springing of the shoulder, but the upper part of the neck from that point to the head without that ornament, a beard under the front of the neck, and the head armed with horns approaching to those of the roe (δορκάς). Scaliger confesses that he knows not what this animal is; Caius, as quoted by Gesner, considered it to be the elk, and Gesner himself leans to this opinion, which is adopted by Klein and many others. Buffon relies upon two reasons for not confounding the elk with the hippelaphus; one is the size of the two animals, the other the climates which they inhabit. Aristotle makes the size of the hippelaphus nearly that of a stag, which is inferior in bulk to the elk, and he assigns as its locality, Arachosia, a country of Asia about the 83° of longitude, and the 33° of latitude, according to D'Anville's map; whereas the elk never quits the cold countries of the north. Upon the whole, Buffon thinks that the hippelaphus is no other than the stag of Ardennes (a variety of the common stag, Cervus Elaphus), which, he observes, is larger than the common stag, and differs from it only in the skin, which is of a deeper colour, being nearly black, but skin, which is of a deeper colour, being nearly black, but also in the long hair which it carries on the shoulders and under the neck. M. Camus considers that the difference of climate and locality, amounting to more than 15° of latitude and 50° of longitude, operates strongly against the identity of the stag of Ardennes with the hippelaphus. There can be but small doubt that the hippelaphus of Aristotle is not the elk, but some one of the Asiatic species. M. Frederick Cuvier is of opinion that the Rusa deer is the species meant. The probability is, that though the European elk will not turn out to be specifically different from the American, it will prove to be a variety when the wo animals are carefully compared with each other, which does not as yet appear to have been done. La Hontan hints at differences between them, and Colonel Smith remarks that the lower parts of the antiers of the American elk are more often separated into branches than those of the European.

Mr. Lloyd (Field Sports of the North of Europe, vol. ii.) observes that the elk was at one time numerous in most parts of Sweden and Norway; but owing to the increased population, and other causes, it is now only to be met with in particular districts. In Scania, he adds, the most southern province of Sweden, where elks once abounded, none are

now to be found. M. Nilsson states that the elk cannot endure so cold a climate as the stag, the 64° of latitude being the extreme limit at which it is met with in the Scandinavian penin-

Mr. Lloyd says that it is reported that the elk not unfrequently attains to the height of seven or eight feet. 'This,' he continues, 'I can readily believe, as Mr. Wise, the by, is very expressive, and the extraordinary developth of this part might well recall to a casual observer the
leval traits of the head of a camel. Whether it was the
leval traits of the head of Aristotle is a question which
ladder (hippelaphus) of Aristotle is a question which
ladder I once took the exact dimensions of a rather
large male elk that I shot, but unfortunately I lost the string with which I effected that purpose out of my pocket. Though this animal was not fully grown, it was thought he weighed near one thousand pounds.' The same author states the period of gestation to be about nine months, and that the female brings forth, about the middle of May, from one to three young ones; but it is seldom that she has more than two. At this period the mother retires alone to the wildest recesses of the forest. After a lapse of two or three days, the fawns, which are of a light brown colour,

three days, the nawns, which are or a light brown colour, have sufficient strength to follow their dam everywhere; they keep with her until they are in their third year, when she leaves them to shift for themselves.

Mr. Lloyd thus describes the habits and uses of the European elk. 'The elk is a long-lived animal; he does not a tain to his full growth until after his fourteenth year. At least we it is to he presumed as up to that region his horne. least so it is to be presumed, as up to that period his horns, which are of a flat form, are annually provided with an additional branch. He sheds his horns about the month of February in each year. The female elk, unlike the reindeer of that sex, has no horns. The horns of the young male elk are perceptible nine mouths after its birth: for the first year they are cylindrical and short; the second year they are about a foot in length, but not branched; the third year, two points are discernible; the fourth year, three; the fifth, they are full grown in length. From that time forward they yearly increase in breadth, and in the number of branches until there are as many as fourteen

'By nature the elk is timorous, and he usually flies at the sight of man. In the rutting season, however, like other animals of the deer kind, he is at times rather dangerous. His weapons are his horns and hoofs; he strikes so forcibly with the latter as to annihilate a wolf, or other large animal, at a single blow. It is said that when the elk is incensed, the hair on his neck bristles up like the mane of a lion,

which gives him a wild and frightful appearance.
'The usual pace of the elk is a high shambling trot, and his strides are immense, but I have known him, when frightened, to go at a tremendous gallop. In passing through thick woods he carries his horns horizontally, to prevent them from being entangled in the branches; from the formation of his hoofs he makes a great clattering, like the rein-deer when in rapid motion. In the summer season the elk usually resorts to morasses and low situations; for, like other animals of the deer kind, he frequently takes to the water in warm weather; he is an admirable swimmer. In the winter time he retires to the more sheltered parts of the forest, where willow, ash, &c., are to be found; as, from the small boughs of these trees he obtains his sustenance during that period of the year. In the summer and autumn the elk is often to be met with in small herds, but in the winter there are seldom more than two or three in company. At the latter season, indeed, he is frequently

'The flesh of the elk, whether fresh or smoked, is very excellent: the young are particularly delicious. According to Mr. Nilsson, it resembles in taste that of the stag. The tongue and the nose are thought to be great delicacies in Scandinavia as well as in America. Great virtue was once placed in the hoof of that animal, as parings of it were supposed to be a specific against the falling sickness and other disorders; but this idle notion must, by this time, I should think, be nearly exploded. The skin is convertible to many purposes, and is very valuable. Mr. Greiff says—"It is not long since that a regiment was clothed with waistcoats made from the hides of those animals, which were so thick that a ball could scarcely penetrate them." He adds farther, that "when made into breeches a pair of them among the that "when made into breeches, a pair of them, among the peasantry of former days, went as a legacy for several generations."

'The elk is easily domesticated: several instances have come to my knowledge. I had a fawn in my own posses-sion a year ago, but from want of proper nurture, it died. Formerly these animals were made use of in Sweden to draw sledges, but, owing, as it was said, to their speed frequently accelerating the escape of people who had been guilty of murders, or other crimes, the use of them was prohibited under great penalties. Though I apprehend those ordinances, if not abrogated, are obsolete, I am not aware that the elk is ever made use of in that kingdom at the present day, either to draw a sledge, or for other domestic

this particular time, to kill the elk at any season of the this is not the case in Norway; for in that country, as I have just shown, these animals may be destroyed, with certain limitations as to numbers, from the 1st of July to the 1st of November inclusive. The penalty however for killing an elk out of season, in Norway, is very much heave. than in Sweden; it amounts indeed, including legal expenses, &c., to about 20l., which is no inconsiderable sum in that kingdom.' (Lloyd, Northern Field Sports, vol... p. 329 et seq.)

Immediately following the passage above quoted there is a very interesting account of the mode of hunting the classical in Scandinavia, upon 'skidor,' or snow skates, interspersed. as most of such narratives are, with notices of the habits of the animal; but as our limits will not permit its insertion, we refer the reader to the work, which is well worthy of his

attention

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Sir William Jardine, in 'The Naturalist's Library,' vol. iii. (Ruminantia), speaking of the American elk, say, 'This is the only animal which will rank with the subgent. Alces, though to another animal, known only by the hor: the name of coronatus has been applied by Cuvier. The are in the Paris Museum, bear sixteen snags, but are scarcely a foot in length: they stand about three meter as under, and more on the forehead than in the common elk; and Mr. Smith thinks they must have been borne bean animal not larger than the fallow deer, and states have opinion that it may prove to be the Kistuke, or httle eis. .! the Rocky Mountain Indians.'

Horns sessile, more or less divided, provided with L. silary and median antlers.

# Antlers flattened.

### THE REIN-DEER.

Description. — The tame rhendeer, or reindeer, of the Laplanders, is, according to Hoffberg (Amæn. According to it.), at the end of his back, an ell and a half high, and his length, from horns to tail, is two ells, whilst from the navel to the back-bone he measures three-quarters of a ell. On casting his coat, his hair is at first brownish-yehov, but as the dog-days approach it becomes whiter, till it is at last almost entirely white. Round the eye the colour is always black. The longest hair is under the neck: mouth, tail, and parts near the latter are white, and the feet, at the insertion of the hoof, are surrounded with a white ring. The hair of the body is so thick that the sk. cannot be seen when it is put aside, for it stands erect as in other animals of the same genus, but is much thicker When the hair is cast it does not come away with the room, but breaks at the base.

The horns are cylindrical, with a short branch behind, compressed at the top and palmated with many segments. beginning to curve back in the middle, and an ell and a quarter long. A single branch, sometimes but seld in two, springs from each horn in front, very near the base frequently equalling the length of the head, compressed at the top and branched. The distance between the in-

equals the length.

The horns of the female are like those of the male, int less, more slender, and not so much branched: she has i -

less, more slender, and not so much branched: she has a true paps and two false ones.

The horns grow in the usual manner, and during the horns grow in the usual manner, and during the early part of their growth are extremely sensible, and start from the clouds of gnats (Culex pipiens) that form on the persecutions of both deer and owner. About autilities before rutting-time, they are become hard, and the velve rubbed off. Towards the end of November the male 1, his horns, but the female retains hers till she brings for if barren, she drops them in the beginning of November When castrated, the rein-deer seldom sheds his horns to the new year: the strongest shed them soonest, and

the new year; the strongest shed them soonest, and it. longer thoy keep them the worse they are. If Hoffbers correct, Scheffer and Hulden, whose assertion he more are in error when they state that the castrated reinit never loses his horns, and as the female, as well as male, is furnished with them, this species may differ that respect from others where the possession of all weapons is confined to the male,

purposes.

'In e nostriis are oblique and oblige, then have observed, it is contrary to law at in proportion, and the cleft is hollowed internally, so the

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the parts may touch accurately at the dividing line at the bottom; the tail is about a quarter of an ell, hardly so much.

The wild rein-deer grows to a much larger size than those which are tamed.\*

It must be remembered by soologists, that the horns of different individuals vary so much, that it has been asserted that no two, even of the same age and sex, have those weapons shaped exactly alike. Cuvier in his 'Ossemens Fossiles' has figured a series of the almost endless modifications of these horns for a president in the Decision. cations of these horns from specimens in the Paris Museum; and the conclusion to which he came from these data is, that there is no character common to the whole species, but that of having the horns smooth and compressed in every part, except in the short portion immediately connected with the burr: that great zoologist has thus furnished the information that enables us to strike out several so-called species founded on this variety in the development of the rein-deer's horn.

The rein-deer is also subject to great variety of colour, particularly in a domesticated state, as is the case with most other animals; and spotted or mottled individuals are by no means uncommon in Lapland, and are of still more

frequent occurrence in Siberia.



[Hearls of two old book Caribon of the Berren Grounds. From Dr. Richard ou's cuts taken from Captain Back's drawings.]

It has been a question with some whether the Lapland Rein-deer, and The Caribou, or Rein-deer of America, and its varieties, are distinct species. Colonel Smith remarks, that a probable distinction, by which some, if not all, the varieties of Caribou may be distinguished from the reindeer of the Old Continent is, that their horns are always shorter, less concave, more robust, the palm narrower, and with fewer processes than those of the former. This is anof the instance of the danger of relying on the form of the

horns in this sub-genus as a distinguishing character. 'I have had but little opportunity,' says Dr. Richardson, in his Fauna Boreali-Americana, 'of ascertaining how far these remarks apply to the woodland variety of Caribou; but I can with confidence say, after having seen many thousands of the Barren Ground kind, that the horns of the old males are as much, if not more palmated than any antiers of the European rein-deer to be found in the British museums.' The annexed cuts were made from drawings Captain Back, of the antlers of two old buck Caribou, killed on the Barren Grounds, in the neighbourhood of Fort Enterprise. It is to be recollected, however, that the antlers of the rein-deer assume an almost infinite number of forms, no two individuals having them alike.

It is, then, the general opinion among zoologists, that the American, European, and Asiatic races of rein-deer, are varieties of one species, of which the following appear to

Synonyms.—Rangifer, Reinthier, and Tharandthier, of Gesner and others; Tarandus, of Aldrovandus and others; Cervus mirubilis, Cervus palmatus, Rangifer, Reinthier, Cerrus mirabits, Cervus palmatus, Rangier, Reinthier, Tarandus, Tarandhihier, of Jonston; Caribou, ou Asne Sauvage, of Sagard-Theodat, La Hontan and Charlevoix; Carré-bœuf, or Caribou, of the French Canadians; Cervus Tarandus, of Linnœus, Sabine, Richardson, Ross, Harlan, and James Clark Ross; Rein-deer or Rain-deer, of Drage, Dobbs, Pennant, Cartwright, Franklin, Godman, and James Clark Ross; Rein-deer, or Caribous, of Richardson; Atteht, of the Chippen Edition of the Chippensers and other Clark Ross; Rein-deer, or Cartook, of Richardson; Attent, of the Cree Indians; Etthin, of the Chippeways and other Northern Indians; Tooktoo, of the Esquimaux (Richardson); Tukta, of the Greenlanders (Fabricius); Rhen, of the Swedes; Rhenne, of the French; Boetsoi, of the Laplanders; Common Deer, of Hearne, Parry, and Lyon (Richardson); Rhen-deer and Rein-deer, of the English.

Var. a. Arctica. Barren Ground Caribou (Richardson). Common Deer, of Hearne; Bedsee-awsch, of the Copper Indians and Dog-Ribs; Bedsee-choh (male), Tsootai (female), Tampeh (female with a fawn), of the same; Took-too, of the Esquimaux, Took-Took dual, Took-Toot plural (Richardson); Tukta, of the Greenlanders (Pangnek, male; Kollowak, female; Norak, young. Fabricius).

ar. B. Sylvestris. Woodland Caribou (Richardson).

Caribou, of Theodat, La Hontan, Charlevoix, &c.; Rein-

deer, of Drage, Dobbs, &c.; Attehk, of the Cree Indians; Tanteseah, of the Copper Indians (Richardson).

Geographical Distribution.—Northern Europe, Asia, and America. Captain James Clark Ross, in the Appendix to Sir John Ross's last voyage says, that although this animal was seen in great numbers on the Isthmus of Boothia, only one individual was killed in the course of their late voyage. It was a fine buck, of larger size than ordinary, and weighed 250 lbs.; the average of those killed at Spitzbergen and Melville Island did not exceed half that weight. The does arrive about the middle of April, the bucks nearly a month later; and herds of several hundreds were seen about the isthmus towards the end of May. Although they migrate towards the middle of September to milder climes, yet stragglers are occasionally seen in the winter. They are, indeed, spread, as Mr. Bennett observes, abundantly through all the habitable parts of the Arctic regions and the neighbouring countries, extending in the New Continent to a much lower latitude than in the old, and passing still farther south on all the principal mountain chains. In America, the southern limit of the rein-deer across nearly the whole continent appears to be about the parallel of Quebec; but the animal is most numerous be-tween 63° and 66°. Passing westwards, it is said to be unknown in the islands interposed between America and Asia, but is again abundant in Kamtschatka, throughout nearly the whole of Siberia, in Northern Russia, Sweden, and Norway, and more especially in Finmark and Lapland. In these latter countries the numbers of the few wild berds that still exist are suffering a constant diminution, every art being put in practice by the hardy natives to reclaim and domesticate an animal which constitutes their sole property, the source of all their comforts, and the very means of their existence; without which their land would actually be, as at a first glance it seems, a bleak and uninhabitable desert. According to M. Cuvier, the Baltic forms in Europe its southern limit; in Asia, however, it extends along the Ural chain to the foot of the Caucasus; and we 2 Z Z 2

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DEE

have the authority of a passage in Cassar's Commentaries, which can scarcely apply to any other animal, for its having existed in his day in the Hercynian Forest. The boundaries of this immense tract of woodland are certainly not very well defined; but this location would imply, at all events, a more southern European habitat than any that is at present known. Again, crossing the ocean, we find the tein-deer at Spitzbergen in Greenland, and in Newfoundland; but it has been said by Pennant, and this has been lately repeated by Dr. Richardson, in his valuable zoology of the fur countries of North America, not to be known in Iceland. This statement, which was scarcely true at the time when Pennant wrote, is not by any means correct, as refers to the present day. About sixty years since, as we learn from Van Troil's Letters on Iceland, thirteen of these animals were imported from Norway, ten of which dying on the passage, only three were landed. These were turned out into the mountains, and have since multiplied to such an extent, in the interior and unfrequented parts of the country, that their progeny was estimated by Count Trampe, the governor, in 1809, the period of Dr. Hooker's visit, at no less than five thousand head. Herds of forty, sixty, or even a hundred individuals are said, both by Dr. Hooker and by Sir George Mackenzie, who visited the island in the following summer, to be not uncommon in the mountains. They are, however, of little use to the inhabitants, who have made no attempts to domesticate them, and are too poor to purchase powder and ball for their destruction. It does not appear indeed that they are much sought after, the cow and the sheep thriving extremely well upon the island, and supplying the place of the deer in almost every respect. We may add that, according to Mr., (now Sir Arthur) Brooke, an importation of six bucks and twentyfour does took place in 1777, about seven years after the period of the first introduction of the animal into Iceland.' (Gardens and Menagerie of the Zoological Society, vol. i.)

The size of the rein-deer, widely spread as it is, varies very much according to the accidents of climate; and if authors are to be credited, their weight ranges from 60 to 400 lbs. The latter is probably an exaggeration, but it is evident that the weight increases in proportion to the proximity of the animal to the Pole. According to Dr. Richardson, the bucks of the variety called The Barren-Ground Caribou weigh, exclusive of the offal, when in good condition, from 90 to 130 lbs., whilst he describes the Woodland Caribou as much larger; and Captain, now Sir John Franklin, makes the weight of the latter from 200 to 240lbs. The buck killed on the Isthmus of Boothia was, as we have seen, 250 lbs.; while the average of three killed at Spitzbergen and Melville Island did not exceed half that weight. The rein-deer of Norway and Sweden are diminutive when compared with those of Finmark and Lapland, which in their turn yield to those of Spitzbergen; and these again fall short of the more Polar races. The sledge-deer of the Laplanders is small, when compared with those reared by the Tungusians of the north of Asia, who ride upon them.

With the seasons and the climate. Lapland, says Hoffberg, in the memoir above quoted, is divided into two tracks, called the alpine and woodland country. Those immense mountains, called in Sweden Fjellen, divide that country from Norway, extending towards the White Sea as far as Russia, and are frequently more than twelve miles in breadth. The other, called the woodland division, lies to the east of this, and differs from the neighbouring provinces of Norway by its soil, which is exceedingly stony and barren, being covered with one continued tract of wood, of old pine-trees. This tract has a very singular appearance. The trees above are covered over with great quantities of a black hanging lichen, growing in filaments resembling locks of hair, while the ground beneath appears like snow, being totally covered with white lichens. Between this wood and the Alps lies a region called the Woodland, or Desert Lapmare, of thirty or forty miles in breadth, of the most savage and horrid appearance, consisting of scattered uncultivated woods, and continued plains of dry barren sand, mixed with vast lakes and mountains. When the mosses on part of this desert tract have been burnt, either by lightning or any accidental fire, the barren soil immediately produces the white lichen which covers the lower parts of the Alps. The rein-deer in summer seek their highest parts, and there dwell amidst their storms and anows, not to fly the heat of the lower regions, but to avoid

the gnat and gad-fly. In winter these intensely cold mountains, whose tops reach high into the atmosphere, can no longer support them, and they are obliged to return to the desert and subsist upon the lichens. Of these its principal food is the rein-deer lichen. There are, says Hoffberg, two varieties of this; the first is called sylvestris, which is extremely common in the barren deserts of Lapland, and more particularly in its sandy and gravelly fields, which it whiters over like snow; its vast marshes, full of tussocks of turf, a. .! its dry rocks are quite grown over by it. The second varactoof this plant, which is less frequent than the former, is named the Alpine; this grows to a greater height, with its branches matted together: it has this name, because when the mountains are cleared of their wood the whole surface of the earth is covered with it; yet it is seldom to be found on their tops. When the woods become too luxuriant the Laplander sets fire to them, as experience has taught hom that when the vegetables are thus destroyed, the liel on takes root in the barren soil and multiplies with facility, though it requires an interval of eight or ten years before it comes to a proper height. The Laplander esteems him self opulent who has extensive deserts producing this plant exuberantly: when it whitens over his fields, he is under no necessity of gathering in a crop of hay against the ajproach of winter, as the rein-deer eats no dried vegetable unless perhaps the river horsetail (Equisetum fluviatil) They root for this lichen under the snow like swine ma pasture; their foreheads, nose, and feet are guarded with a hard skin closely attached to those parts, that they may not be hurt by the key crust which covers the surface of the The very strong shoes which the Laplander esteems so much are made of these parts of the hide. It sometimes happens (but very rarely) that the winter sets in with great rains, which the frost immediately congeals; the surface of the earth is covered with a coat of ice before the snow fall and the lichen is entirely encrusted and buried in it: 'h ... the rein-deer is sometimes starved, and a famine attack. In such an exigence they have no other resource but felling old fir-trees grown over with the line a liverworts. These afford but a very inadequate supply even for a small herd, but the greater part of a large one, in such a case, is sure to perish with hunger. In the summer when the rein-deer ranges upon the Alps, a number of plant. afford it food. Hagstrom states that it refuses to eat forth six species, the names of which he gives. Dr. Richardstates that the Barren-ground Caribou, which resort to the coast of the Arctic sea in summer, retire in winter to the woods lying between the 63° and the 66° lat., where the feed on the *Usneæ*, Alectoriæ, and other lichens which have from the trees, and on the long grass of the swamps. Alor the end of April, when the partial melting of the snow last softened the Cetrariæ, Corniculariæ and Cenomyces, which clothe the Barren Grounds like a carpet, they make she: excursions from the woods, but return to them when weather is frosty. In May the females proceed towards the sea-coast, and towards the end of June the males are full march in the same direction. At that period the such has dried up the lichens on the Barren Grounds, and to caribou frequent the moist pastures which cover the bot'on. of the narrow valleys on the coasts and islands of the Arct sea, where they graze on the sprouting carices and on the withered grass or hay of the preceding year, which is at that period still standing and retaining part of its Their spring journey is performed partly on the snow, and partly, after the snow has disappeared, on the ice coverthe rivers and lakes, which have in general a norther, direction. Soon after their arrival on the coast the fen.a. drop their young; they commence their return to south in September, and reach the vicinity of the works towards the end of October, where they are joined by the males. This journey takes place after the snow has fallen. and they scrape it away with their feet to procure the lichens, which are then tender and pulpy, being preserved moist and unfrozen by the heat still remaining at the earth. Except in the rutting season, the bulk of the reales and females him seasons that the former retired have males and females live separately; the former retire declarinto the woods in the winter, whilst herds of the pregnant does stay on the skirts of the Barren Grounds, and proceed to the coast very early in the spring. Captain (now S. William) Parry saw deer on Melville peninsula as late the 23rd of September, and the females with their fau made their first appearance on the 22nd of April. The males in general do not go so far north as the females. On

The limits will not allow to to detail the different modes of function, the response to the series intermed in the surface of function, the response, has one intermed in the surface of my less affler it is not that the surface travel in heads strong in number door eight or ten to two or three hundred, then dolly accurations being goternally towards the gurrer from which the wind blows, and that the Irelians will them with howe and strongs or guns, amentions operating by prease of a discrete, sometimes toking advantage of residence the section, and always greatly accurate a time revealer and anterpreting nature of the sleer themselves. They also takes the remodert in strates, or wear faces. They also takes the remodert in strates, or wear faces. They also takes the remodert in strates, or wear faces. They also takes the remodert in strates, or wear faces. They also takes the remodert in strates, or wear faces. They also takes the remodert in strates, or wear faces. They also takes the remodert in strates, or wear faces. They also takes the remoder the strates of their target account at his and and the surface. Another contains of the face they are the face to the product translated reliant the many and the face to the face to the face to the face the ingenious and that have formed in one among the Elice wayses (Chipments), in Heaven Leptair Franklyn relates the ingenious and the particles of the the to the principal and the automatical account of the the toppe Irodians and Dau-Rither, and the account of part translates in the particle of the face and the matter of the account of part translates the ingenious and the account of part translates to the face and the matter of the account of part translates to the face and the matter of the account of the account of the surface of the account of the face and the account of the account of the face and the account of the

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Highly excellent or an article of final, and uneful dome-brally is this authoral is, we do not thank that it can ever be attractioned with involves one into two British islands. Not fait there would be more sufficiently down the first for the results of the first state of the f

nerations would be required before the migratory habits of the rein-deer could be got rid of, and possessing as we do the best venison, and the finest breed of horned cattle and horses, there seems no very good reason for repeating the experiments which have already been tried and have failed.

# Upper antlers alone compressed.

# THE FALLOW-DEER. (Daims, of the French.)

Example.—The common Fallow-deer. This well-known ornament of our parks is the Hydd (Buck), Hyddes (Doe), Elain (Fawn), of the antient British: Le Daim (Buck), La Daime (Doe), Faon (Fawn), of the French; Daino (Buck), Damma (Doe), Cerbietto, Cerbietta (Fawn), of the Italians; Gama, Corza (Buck), Venadito (Fawn), of the Spanish; Corza (Buck), Veado (Fawn), of the Portuguese; Damhirsch, of the Germans; Dof, Dof Hjort, of the Swedes; Daae, Diff, of the Danes; Dama vulgaris, of Gesner; Cervus palmatus, of Klein; Cervus platyceros, of Ray; and Cervus Dama, of Linnewus.

It is not certain whether the common fallow-deer is the  $\pi\rho\delta\xi$  of Aristotle. Buffon and others are of that opinion; but M. Camus, who seems very well disposed to coincide with such opinion if he could, gives good reasons for doubt. Pennant considers the *Platycerata* of Pliny (book xi., c. 37), and the *Eurycerata* of Oppian (*Cyneg*. lib. ii., lin. 293) to have been our fallow-deer.

Pennant, speaking of the two varieties, the spotted and the deep brown, says, on the authority of Collinson, that they were introduced into this country by James I. from Norway, where he passed some time when he visited his intended bride, Anne of Denmark, and he remarks (citing Llywd) that one of the Welsh names of the animal, Geiff Danys, or Danish goat, implies that it was brought from some of the Danish dominions. James, who observed their hardiness, brought them first into Scotland and thence to Enfield Chace and Epping, to be near his favourite palace, Theobalds. When Pennant wrote, they were, according to him, scarcely known in France, but were sometimes found in the North of Europe. In Spain, he observes, they are ex-tremely large, and that they are met with in Greece, the Holy Land, and in China. For the two latter localities he quotes Hasselquist, who says he saw it in Mount Thabor, and Du Pennant goes on to state that, in every country except our own, these deer are in a state of nature unconfined by man; but they are, and for some time have been confined in parks on the continent as they are in England. In Moldavia and Lithuania they are said to be found wild. Cuvier observes that they have become common in all the countries of Europe, and that they appear to have come originally from Barbary. In a note to his last edition of the

'Règne Animal' he states that since the publication of the second edition of his 'Ossemens Fossiles' he had received a wild fallow-deer (Daim) which had been killed in the woods to the south of Tunis.

The species is so well known that a lengthened description of the animal, its habits, &c., would be needlessly overapying space in a work of general reference. Besides the varieties above mentioned, there are many others, as is generally the case with reclaimed or half reclaimed animals: one variety is milk-white. Pennant remarks that in the old Welsh laws a fallow-deer was valued at the price of a cow, or, as some say, a he-goat.



[Dama vulgaris.]

Horns sessile, with the antiers, both basilary and median,

## THE TRUE STAGS\*

## Old continent and its islands.

Example.—The Common Stag, or Red Deer; Care (Stag), Evig (Hind), Elain (Young or Calf), of the antical British; Le Cerf (Stag), La Biche (Hind), Flore (Young or Calf), of the French; Cervio, Cervia, of the Italians, Ciervo, Cierva, of the Spanish; Cervo, Cerca, of the Pattuguese; Hirtz, Hirsch (Stag), Hind (Hind), Hinde A. M. (Calf), of the Germans; Hart (Stag) and Hinde, of the Dutch; Hjort, Kronhjort (Stag) and Hind, of the Swedie; Kronhjort, Hind, Kid or Hind kalv, of the Danes.



[Cervus Elaphus.]

N.B. Mr. Smith makes a subgenus of the True Stage under the name of Elaphua

This noble species is doubtless the Napos of Aristotle, and was well known to the antients generally. It is a native of the forests of the whole of Europe and Asia, where tive of the forests of the whole of Europe and Asia, where the climate is temperate. In England it is intimately blended with the old oppressive forest laws which valued the life of a man at less than that of a stag, and with some of our legends of deadly feud: Chevy Chace for instance. Of the hunting we could say much, and of the old southern and stag-hounds that were employed in the more dilatory pursuit, and of the gallant grey-hounds, especially those of the north, that were wont to pull it down, nor do we forget the tinchel, identified with rebellion. But we must not indulge in a treatise on the forest-laws or on wood-craft here, and shall only observe that in the south of England his Majesty's pack now stands alone. The stag-hounds that formerly roused the deer on the moors of the west of England, are at roused the deer on the moors of the west of England, are at present dispersed: and if this noble sport is to be again enjoyed in Somerset and Devon, we fear some time must elapse before a pack can be got up. In Scotland it is the rifle of the deer-stalker principally that now brings the stag

The red-deer is so well known that we need not repeat here the description of the animal and its habits, which will be found in most books of natural history. It has canine teeth in the upper jaw. Of the size to which the species sometimes grow the following record will serve as an example: 'When I was at Invercauld,' says Pennant, 'Mr. Farquharson assured me that he knew an instance of one that weighed eighteen stone Scots, or three hundred and four-teen pounds, exclusive of the entrails, head, and skin.' The same author states that in the old Welsh laws a stag was valued at the price of an ox.

# New Continent.

New Continent.

Example.—The Wapiti Stag, of Pennant, Arctic Zool.;
Wewaskiss, of Hearne; Waskeesews, or Red-deer, of Hutchins; Red-Deer, of Umfreville; the Elk, of Lewis and Clark; the American Elk, of Bewick; Wapiti, of Barton and Warden; Le Wapiti, of F. Cuvier; the Wapiti (C. Strongyloceros), of Smith; Red-deer, of the Hudson's Bay Traders; La Biche, of the Canadian Voyagers; Wavaskeesho, Awaskees, and Moostosh, of the Cre Indians (Richardson). It is also Le Cerf du Canada, of Cuvier, who makes it the Cermus Canadensis of Gmehin (Buffon), and makes it the Cervus Canadensis, of Gmehm (Buffon), and C. Strongyloceros, of Schreber; and Cerf Wapiti, of Lesson, who states it to be Cervus Wapiti, of Mitchell, and Cervus major, of Ord. It may be also the Stag of Carolina, of Lawson, but he describes it as 'not so large as in Europe, but much larger than any fallow-deer,' and he says they are always fat with some delicate herbage that grows on the hills, whereas the modern travellers describe the Wapiti as hills, whereas the modern travellers describe the Wapiti as frequenting the savannahs or the clumps of wood that skirt the plains. There is hardly any doubt that it is the Stag of America (Cervus major Americanus) of Catesby. 'This beast,' says the author last named, 'nearest resembles the European red-deer, in colour, shape, and form of the horns, though it is a much larger animal, and of stronger make. Their horns are not palmated, but round, a pair of which weighs upwards of thirty pounds. They usually accompany buffaloes (Bisons), with whom they range in droves in the upper and remote parts of Carolina, where, as well as in our upper and remote parts of Carolina, where, as well as in our other colonies, they are improperly called elks. The French in America call this beast the Canoda Stag. In New England it is known by the name of the Grey Moose, to distinguish it from the preceding beast (the true Elk), which they call the Black Moose. Dr. Richardson states that it is without doubt the Canada Stag, of various authors, but, as M. F. Cuvier has observed, the want of a pale mark on the rump in Perrault's figure is sufficient to excite a doubt of its being the Cervus Canadensis, of that author. Indeed he does not think it at all improbable that this figure is that of the Cerrus Macrotis, which may hereafter prove to be an inhabitant of Upper Canada.

Geographical Distribution.—Dr. Richardson says that this arisimal does not extend its range farther to the north than the 56th or 57th parallel of latitude, nor is it found to the eas tward of a line drawn from the south end of Lake Wimpe ig to the Saskatchewan in the 103rd degree of longitude, and from thence till it strikes the Elk River in the 111th degree. To the south of Lake Winipeg he thinks it may perhaps exist farther to the eastward. He adds that the says are pretty numerous amongst the clumps of word that are pretty numerous amongst the clumps of wood that

skirt the plains of the Saskatchewan, where they live in small families of six or seven individuals, and that they feed on grass, on the young shoots of willows and poplars, and are very fond of the hips of the rosa blanda, which forms

much of the underwood in the districts which they frequent.

Description.—Height at the shoulders 4½ feet, more than a foot exceeding that of the common stag. All the upper parts and the lower jaw of a somewhat lively yellowish-brown; a black mark from the angle of the mouth along the side of the lower jaw; a brown circle round the eye. The first antlers depressed in the direction of the facial line. Neck, mixed red and black, with coarse black hairs descending from it like a dewlap, deeper in colour than the sides. From the shoulders to the hips French grey; a pale yellow-ish patch on the buttocks, bounded on the thighs by a black line; tail yellowish, 21 inches long, whereas it is nearly seven in the European stag. The hair of a mean length on the shoulders, the back, the flanks, the thighs, and the under part of the head; that on the sides and limbs shorter, but the hair is very long on the sides of the head posteriorly and on the neck, particularly below, where they form the kind of dewlap above alluded to. On the posterior and outer aspect of the hind leg there is a brush of tawny hair which surrounds a narrow long horny substance. For which surrounds a narrow long horny substance. Ears white within and clothed with tufted hair, externally of the white within and clothed with tuited hair, externally of the same colour as the neighbouring parts. A naked triangular space round the larger lachrymal sinus near the inner angle of the orbit. Hoofs small. Like the common stag, the wapiti has a muzzle, upper canine teeth, and a soft tongue. The quality of the hair is brittle, and there is a short wool beneath it. Dr. Richardson thinks that the Crees give it the name of 'Stinking Head' on account of the level subschild energing.

the large suborbital opening.

Habits.—Hearne gives them a character for stupidity surpassing that of all the deer kind. He says that they frequently make a shrill whistling and quivering noise, not very unlike the braying of an ass. Mr. Drummond, who saw many in his journeys through the plains of the Saskatchewan, informed Dr. Richardson that it does not bell like the English deer. F. Cuvier describes the cry as pro-longed and acute, consisting of the successive sounds a, o, u, (French), uttered with so much strength as to offend the ear.

Utility to Man.-Dr. Richardson describes the flesh of the wapiti as coarse, and little prized by the natives, principally on account of the fat being hard like suet. It seemed to Dr. Richardson to want the juiciness of venison, and to resemble dry but small grained beef. Its hide, when made into leather after the Indian fashion, is said not to turn hard in drying after being wet, and in that respect to excel moose or rein-doer leather.

The velvety covering of the horns, according to the same author, shrivels and is rubbed off in the month of October, at the commencement of the rutting season, but the horns

themselves do not fall until the month of March or April.

The pair shed by 'Monkey,' (one of the wapiti kept by the Zoological Society of London in the Regent's Park) on the 4th March, 1837, weighed 264lbs.



(Wapiti.)

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Herein morning branched with a morning business with willowed medicates, and the upper wines waters. carright.

# THE AX. & DEEK KININ Spores.

Reservation. The grated Asia, " here is the server of Can-Biory: Vernus Asia A autono: Asia mercal state of See . Treamptone have and general time wanty reason in that of the community have seen. The exist was an other ed a run town consurages and with white; to it, as Mr. Bennot observed, it is only during the summer that my sim a rity exists in the colours of the two sprines, for the fairedeer changes in winter to a uniform orden, while the area retains its spotted livery throughout the year. Hegat at the shoulder two feet aix or seven in new. The distribution of the spots years in different individuals. The ground colour changes to nearly black along the back; the under parts are enow white. Flanks, sides, shoulders, hind quarters, and part of the neck, spotted as above mentioned. There is a broad dusky apot on the forchead, and a line of the same rolour extends along the middle of the nose. The male has no canine tooth, nor has the female any horns; she is generally loss in size than the male, and resembles him much in colour, but may be distinguished, it is said, by a white boundfuldind line on the flanks. The young resemble the enterta

troom aphical Distribution. India and the larger islands of the Indian Archipelago; very abundant in Bongal and on the lambs of the Changes

Thibits, &c. The axis bounts the thick jungles in the vicinity of water, and the British sportsmen bunt it under the name of the Spotted Hog Deer. It feeds in the night, and is finite, incloser, and mild, excepting when the females have young, and then the male is bold and floree.



[Cervus (Axis) Maculatus.]

The axis is easily domesticated, and in England has propagated freely in captivity. The species has been kept with success both in menageries and open parks, to both of which its form and colour make it an elegant ornament.

# Spotless species.

Example. — Cervus Hippelaphus, of Cuvier; Cerf noir du Bengule, ou Hippelaphe, of F. Cuvier; Cerf d'eau, ou Mejanganbanjoe. of the Malays of Java, according to Duvaucel; Rusa or Roussaitan (Black Stag), of the Javanese and Sumatrans; Rusa Hippelaphus, The Great Rusa, of 8mith

Description.—Size and proportions about those of the common stag, but its hair is rougher and harder, and when adult, that of the upper part of the neck, of the cheeks and It sure is entre e a's pre es brown more a lecte returned for the state of the more guiden by a what his pur ben von To mile the and a brown tent.

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[Cervus (Rusa) Hippelaphus.]



[Skull of Cervus Hippelaphus.]

Horns sessile, branched, with a median but no be-

antler.
N. B. A white line bordered with black cating the of the muzzle obliquely.

# Of the Old Continent.

Example.—The Roe, or Roebuck, probably the Aristotle; Iorcas and Dorcas, of Oppian; Capra (Book xi. c. 37); Caprea, Capreolus, Dorcas, Grapeolus, of Ray and of Sibbald; Cervus Capreolus, Of Klein; Iwrch (male), (female) of the antient Reitich. In Characteristics, in Character Linneus; Cervus minimus, of Kieff, imren (Hale), (female), of the antient British; Le Chevreuil, of the I Capriolo, of the Italians; Zorlito, Cabronzillo mo: the Spanish; Cabra montes, of the Portuguese;

the Spanish; Caora monics, of the Fortuguese; (male) Rehgees, of the Germans; Radiur, Rabock! Swedes; Raaedijr Raaebuk, of the Danes.

Description.—Length about 3 feet 9 inches; before, about 2 feet 3 inches; behind, 2 feet 7 inches; behind, 2 fe Weight from about 50 to 60lbs. Length of horns fr to 9 inches; they are erect, round, and divided into by inches; they are erect, round, and divided into branches above; their lower part is deeply furrowed long anally. Those of a young buck in its second year are so in the third year a branch appears; the head is compact the fourth year. In the winter the hair on the body it the lower part of each hair is ash-coloured, there is some long of block poor the and and the tim is will be a some long of block poor the and and the tim is will be a some long of block poor the and and the tim is will be a some long of block poor the and and the tim is will be a some long of block poor the and and the tim is will be a some long of block poor the and and the tim is will be a some the and and the time is will be a some the and and the time is will be a some the and and the time is will be a some the analysis of block poor the analysis of the some the sound t the throat is long, and forms a sort of beard and mane.

or, all a pide yellow or the reside, and covered with large are. In submare the water a short and amount, and are expected by the country of the first and amount, and are expected by the country of the first and amount, and the provision of the first and amount of the first and an expected by the standard of the first and 


Therefore and tender absolute to underwood in the steems in he thin first who united it. The deficient They are said to be your fond of the pulmary are said to be your fond of the pulmary. In the state of the stat



The Ganza-kirg, torrest authorities of Lensenaron, Birth Roy of Scottle, is another example of the born. 19.2 access seems in he, the first who maked it. The delimin little

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deer is only twenty-six inches in length, and its aspect is said to approach that of the sheep, and to be less deer-like than that of the Pila Brochet. The ears are not so pointed at the extremity as those of the latter, and the lacrymal sinus is said to be nearly imperceptible.

Description. Lower part of head and lips whitish. Space round the eyes, inside of fo.e-legs, and from lower part of breast to buttocks, whitish-cumamon. Neck and all the other parts brownish, approaching to gravish each hair

other parts brownish, approaching to greyish, each hair being tipped with white. Horns short. Locality the same as that of the Guazu-pita.



Horns supported on a long osseous pedicle rising from the os frontis.

HE CERVULES (Cervules of the French, Stylocerus of Smith.)



[Skull of Muntjak.]

-The Munijak, Chevreuil des Indes of Alla-Example.-

and. (Buffon, Dutch edition.)
Dr. Horsfield gives the following as the synonyms of his species. Cervus Muntjak, der Muntjak, Zimmerman, this species. Cervus Munitan, aer munitan, Zimmerman, Geographische Geschichte des Menschen und der vier-Sies gen Thiere, Leipzig, 1780. (From the communication of Pennant). Cervus Munitan, Cervus vaginalis, Boddaert, Elen. Anim.' Rotterdam, 1785. Cervus Munitac, Schreb., Saugthiere., Gmel., Fischer, Zoognos., Shaw, Gen. Zool., Cervus moschatus, Cervus subcormutus, Blainv., 1816, 1822; Cervus Munijak ? Raffles's Cat. Linn. Trans.; Cervus Munijac, Cervus Moschus, Desm.

Description.—About one fifth larger than the roebuck. Height at shoulders about two feet two inches; head pointed; eyes large, with lacrymal sinuses; ears rather large; tail short and flattened.

In the living animal there are on the face two rough

folds of the skin, considerably distended and elevated, about an inch and a half apart above; and, following the direction of the prominent part of the forehead, they unite below, so so to mark the face with the letter V. In the dried subject the folds are contracted, and three distinct ribs appear.

which, observes Dr. Horsfield, suggested to Pennant the name of rib-faced deer. General colour reddish-brown above; belly and front of the thighs pure white. The male has large canines in the upper jaw; the female has

none, nor has she horns.

Locality, Habits, Chase, &c. - Dr. Horsfield states that the Munitak selects for its retreat certain districts, o which it forms a peculiar attachment, and which it never voluntarily deserts. Many of these are known as the 'a vourite resort of our animal for several generations. The consist of moderately-elevated grounds, diversified by relief and valleys, tending towards the acclivities of the new considerable mountains, or approaching the confines of retensive forests. Such districts are by no means uncommin Java: they are covered with long grass, and shrubs . trees of moderate size, growing in groups or small thickets and they generally intervene between cultivated tracts. It the deep forests. Their vegetation is peculiarly adapted afford to our animal a very abundant supply of nourselment their surface is covered with long grass, Succharams, text well known to persons who have visited the interior of J. by the name of Allung-Allang, and the groves and thick abound with Phyllanthus Emblica, Linn.: these two planting of Hibiscus. Grewia, Urena, and other malvaceties of Hibiscus. Grewia, Urena, and other malvaceties. plants, all which are greedily eaten by the Aidang. At the middle of the day season, in the Javanese win'c, j. before the foliage is renewed, the shrubs and herbace s plants covering the plains and small woods are, account an old and universal custom in Java, set on fire; and limited these tracts are prepared for a new vegetation, which are pears shortly before the annual rains, in a period that many be compared with an European spring. After the lapse of few weeks, the ground and shrubs are covered with fix verdure, and a most abundant supply of food is ready the Kidang. These districts, being in most cases spar n. sup; lied with water, do not invite an extensive popula i the Kidang is not molested by a few solitary hamlets, the leaves of the Convolvulus Balatus, and of many least minous and cucurbitaceous plants, which slways surrice the dwellings of the natives, afford it an occasional re-Many of these hamlets might be enumerated, which we afford a pleasant recollection to those persons who is visited the native courts, or the eastern capitals. Jet. Wayu-urib, and Pring-ombo near Surskarta, and K. wungu near Samarang, are among the most favourite. I native inhabitants of the hamlets dispersed through districts in which the Kidang is found, do not posses me to undertake the chase; but it affords amusement both. Europeans and natives of rank, who engage in it in different modes with great ardour. The Cervus Munijak has a strong scent, and is easily tracked by dogs. When pursued, it does not go off, like the stag, in any accident direction: its flight indeed is very swift at first, but it seems relaxes, and taking a circular course, returns to the from which it was started. The natives, acquainted with the character of our animal, describe it as possessing a graphortion of craftiness, combined with much indolence. A: several circular returns, if the pursuit be continued, this kidang thrusts its head into a thicket, and in this situal. remains fixed and motionless, as in a place of security, a regardless of the approach of the sportsmen. If it remains unobserved, it is still unwilling to quit its haunts; and experienced hunters, acquainted with its natural disposition after an unsuccessful pursuit, return the following day, as: in many cases find the kidang near the same spot. 1. chase of the kidang, by means of dogs, affords occasion. favourite amusement to the natives of rank in Ja-Many of these, especially in the more distant province keep large packs for this purpose, which are regular trained. The dogs, vulgarly denominated panals, are indigenous breed of the island, in a state of imperfect distance. mestication: there are several varieties: one of these gree resembles the Sumatran dog, of which a description, accu-panied by a figure, is given by General Hardwicke, in 13th volume of the Transactions of the Linnean Socie the body is lank, and the ears erect: they are ferocious their disposition, and rarely show any attachment to the masters. The natives of Java, like other Mahommedar, entertain prejudices unfavourable to dogs: they rarely in them with kindness, or allow them to approach their passons; and it is only in extraordinary instances, or who they contribute to their amusement, that they feed or are

the thorn, generally they are ill fronted, and left to provide the formal regular apply of first shounds, and generally they are illed fronted as of the first and the provided the thermoders, as that that templating confinence to the plating of Lagranian, More of those design and the protection of the kelling continuers to the plating of Lagranian to the protection of the kelling of the history of the hi



# France, Deau.

the Indite of the females, they have an average to them on head.

From Dake.

The remains of does are sufficiently comerous in bells of the third period of the testary sorres, and in experies. Thus is the rave at Krikania Dr. Ruckinal fitual availables of the other of a Tallaw-door, the integer syrpeoutly of the size and form of a Tallaw-door, the integer syrpeoutly of the size and form of a Tallaw-door, the integer syrpeoutly of the size and form of a Tallaw-door, the integer syrpeoutly of the size and form of a Tallaw-door, the integer say may be distributed as a consequently given the test of integers of the size and form of a factorized size area, approaching that of be tree over a shall mark at Scatland, arcarding given to the count shall mark at Scatland, arcarding given to the count shall mark at Scatland, arcarding given to the size and consequently shall make an extensive being procured within the last creative from five a six small sixes in Profugshous, where shall mark to have been deep of their relative shamkour, they will tallaw, some sorr, raws than it has been found at the shall mark at Land Marke in Perthadrage, and in the shall mark at Land Marke in Perthadrage, and in the shall mark at Land Marke in Perthadrage, and in the shall mark at Land Marke in Perthadrage, and in the shall mark at Land Marke in Perthadrage, and in the shall mark at the boundary cates in the scattered for the size of Glovine, the Consequent seasons for easy of Glovine, Canada, as well as in the scattered for the size of Glovine in Branchiston.

Remains of deer never up allow out the banks of does the Consequent seasons for easy of Glovine, Canada, and the Marke in Perthadrage and Consequent seasons for easy of Glovine, Canada, and the Marke in Perthadrage and Consequent seasons for easy of Glovine, Canada, and the Marke in the same factor of Glovine, and the Marke in a consequent seasons of Glovine, and the Canada, and the Can

[Skull and horns of the same.]

a, front view of the whole head; b, the skull seen from below; c, profile of the same; d, horn, on a less scale, seen perpendicularly to its pasterier surface

The remains of the extent united have been found in a set, early in various part of Kapland and Lesland, in some continuations of the following the set of Kapland and Lesland, in some continuations to a more ordine of the investigation of the formation of the following the state of the set of the following of t

Jackson (Authorities Liberry). Manimalia, vol. ii., 1830a, where much valuable information ality disableated, will be front.

DEFAMAZION: the spectrum standards would of smooth. Phy import party may being at action to recover dime, or, but to enable type between dimes at seventhely to some service. It is according to the construction of mineral abundate carbon on express impelation of mineral in the world abundate carbon on express impelation of mineral in the plantific term of the plantific throughout the plantific. There are certain tensor, however, who as words are spoods of a trademant or professional from their in the plantific. There are certain tensor, however, who as words are spoods of a trademant or professional present in the world in the plantific by resonant the struck of the role in which the plantific by resonant the struck of the role in which the plantific by resonant the characters is affected at the characters. A character must be affected at the characters. A character what as most of the character is affected at the characters. A character what as mend by the defendant of factory sometimes as a few to be proporty of the belief incompared the characters. A character which a discompared that is the other should not involutional. It was been that, or the proporty of the belief incompared that the other could not is mountained. It is more time, artisms in signific world has was pure and though a the heavy fragmentity said these orders of without dotties attempt to a support of the proporty that the outlon could not is mountained. It is more time, artisms in signific was attempt to a world lead to promote the plantific for a support of the proporty that the compared to the form that the proporty of the contracted by the proporty of the contracted by the proporty of the contracted by the proporty of the contracted of the proportion of the proporty of the proporty

solvent of the process of the formation, 5, 95 (Wight) and the process of the control of the process of the pro

posed to be drawn from the commanding eminence, or rather from a point about eight feet above it, through another point which represents the crest or summit of the intended parapet at the given place, and to be continued till it intersects the natural ground in rear of that part of the line of parapet. This crest is considered as the vertex of a cone whose base is a circle, on the ground, having for its radius a line equal to the distance from the parapet to the rear extremity of the ground to be protected (which distance, however, must always be less than that of the intersection above mentioned). Then a line being drawn on the plan, from the point vertically under the given crest, parallel to a line drawn from the said intersection and rampart or parapet, whose height must be everywhere equal to that which was given. By this construction all the lines of fire from the commanding eminence, and passing closely over the crest of the parapet, will be in a plane meeting the ground on that eminence, and touching the convex surface of the cone.

Again, if it be required, when the plan of the work is determined, to ascertain the heights of a rampart or parapet in different places, so that the interior may be protected from the fire of the enemy on a commanding eminence beyond, the relative heights of the principal inequalities of the ground with respect to some horizontal plane, technically called the plane of comparison, (which generally passes through the highest or the lowest point) must be found by the spirit level. An oblique plane, technically called the plane of site, must be imagined to touch the summit of the eminence in front, to pass above all the inter-mediate ground, and to meet that in rear of the work; then the relative heights, with respect to the plane of compa-rison, of the several points in the plane of site which are vertically above the inequalities before mentioned of the natural ground, must be computed, and the differences (which express the heights of the plane of site above the natural ground in such places) being added to the given height which the rampart or parapet is to have above the plane of site, the sums will express the heights to which the works are to be raised above the natural ground at the same places.

When the work is of small importance, the elevations of the parapets above the ground are generally determined by the eye—thus:—Pickets are planted in convenient places, chiefly at the angles of the intended work (the plan of which has been already traced on the ground,) and on the summit of the commanding eminence, the picket in this place being about eight feet high. The visual rays being supposed to proceed from the top of this picket to two or more points, which must be also eight feet above the ground, in rear of the work, the intersections of these rays with the pickets planted on the magistral or ground line of the work, will show the heights to which the parapet is to be raised at those places in order that the interior may

be effectually protected.

A similar process is employed when it is required to protect the defenders of any parapet from the fire of the enemy on a commanding eminence in their rear; in which case it is frequently necessary to raise, i.1 the interior of the work, a mass of earth, which is called a traverse or a

parados, according to its situation.

DEFILE, in military writings, is a name given to any Every piece of ground which, in consequence narrow way. of local impediments, can be passed by a column only on a narrow front, is called a defile. Such are roads along valleys, between walls or hedges, or over dykes raised across marshes. Sometimes also the term is applied to a street in

a village, and to the path over a small bridge.

DEFINITION (definire, to mark out a boundary,) is the process of stating the exact meaning of a word, by means of other words. From so boundless a subject, we can only select a very few points, such as have reference to the most common uses of the term. In the first place, it is evident that all definition contains a species of fallacy, if considered as an absolute determination of the meaning of words. Quis custodiet ipsos custodes? who shall determine the meaning of the words which make up shall determine the meaning of the words which make up the definition? The process of definition can never appear satisfactory unless it be considered as a transition from many words to the single term which it is agreed shall stand for their meaning, be that what it may. All attempts at absolute definition must end in confusion of ideas.

But at least, perhaps it may be said, the matnematica. sciences are founded upon exactness of definition. Nothing is more common than this assertion coupled with another, namely, that these sciences depend entirely upon definitions. In a certain sense both are true, but that sense is not the most frequent meaning of them. The exactness of mathemost frequent meaning of them. matical definition is not of arbitrary construction, but a consequence of the exactness of the notions which all men have, or may be made to have, upon the things which the words represent. There is no exactness in the fundamental definitions of mathematics, verbally considered, but only much confusion arising from the attempt to introduce conventional accuracy. The words 'straight line' carry with them their own meaning, and even explain the attempt which is made to explain them; for no one would easily guess what sort of line it is which 'lies evenly between it's extreme points,' unless he were aware that it is a 'straignt' line which these words attempt to describe.

Definition may be purely nominal, or it may be such a description of the thing defined as amounts to a statement of some one of its fundamental properties. The first we see in the words 'isosceles triangle,' the definition of which is a simple annunciation that we intend to use a Greek term The second may be seen in the article CONCAVE AND CONVEX, in which the definition is made by means of an absolute mathematical property of the thing defined: : he relative position of the speciator, the curve in question, and a straight line, do not enter into the notion which the word. immediately suggest. The method of Euclid is to supply a rough and descriptive definition addressed to the common notion of the word, followed by an assumption of a ma he-matical property under the shape of an axiom. Thus a straight line is 'that which lies evenly between its extreme points;' while the real definition, or distinction between straightness and the contrary is contained in the axiom 'two straight lines cannot enclose a space.' Every attempt at mathematical definition, which does not rest upon the selection of a substantive property of the thing defined, to be the test of its existence, is either the mere sub-t-tution of words for words, or an attempt to make that mere substitution effect something more than lies in it to perform.

The conditions of a good definition are, 1, perfect axio matic evidence that the property which is made the dis-tinguishing test belongs to the object intended to be defined, and to nothing else; 2, entire separation of the part of the property, if any, which admits of being demonstrably connected with the notion defined, from that which contains the assumption; 3, the introduction of the definition in the proper place, namely, when the necessity for a new verbal representation has begun to appear.

DEFLAGRATION is a term employed to denote the sparkling combustion of substances without violent explosion: thus when nitre and sulphuret of antimony are mixel and ignited or thrown into a hot crucible, the combustion which occurs is of the kind termed deflagration.

DEFLECTION. A term applied to the distance by which a curve departs from another curve, or from a straight line; and also to any effect either of curvature or of disc tinuous change of direction. It is used where any ' bending off' takes place, which is in fact the etymological meaning

of the word.

DE FOE, DANIEL, the son of James Foe, a butcher in London, in 166. in the parish of St. Giles, was born in London, in 165. Of his youthful years we have nothing particular to relater this father, who was a dissenter, sent him to a dissenter. academy at Newington Green, where he remained four years. As the only education he received was at this time. we may conclude that he applied with considerable ad vantage. Different reasons have been assigned for 1... prefixing 'De' to the family name of Foe: the true canof his doing so was probably a desire to conceal the lowners of his origin, and a belief that this addition would effect the object. De Foe first appeared as an author in 10-1 when he published a political pamphlet on the wer that was then carried on between the Austrians and the Tur ... Two years afterwards, his aversion to James the Second at ! his government and his zeal for the maintenance of Pictestantism induced him to enlist under the duke of Momouth, whose rash and ill-concerted conspirary uses the cause of so many executions. Our author had the go fortune to escape the fate that numbers of his exempation suffered. De Foe had for some years been engaged in

trade, first as a hose-factor and wool-dealer (in the prosecution of which latter branch of his business he is said by Wilson, in his 'Life and Times of De Foe,' to have made more than one voyage to Spain); he afterwards established, on the banks of the Thames, in the neighbourhood of Tilbury Fort, a manufactory of brick and pan-tiles, which, until then, had always been imported from Holland. The introduction of this manufacture was doubtless a considerable benefit to this country. De Foe, however, did not profit by it: his lively imagination, his ardent temper, his eager interest in politics, and fondness for literature, dis-qualified him for commercial matters. His circumstances became involved, and a commission of bankruptcy was taken out against him: his creditors, however, for whose payment he made the most honourable exertions, were all

ultimately satisfied. In January, 1687-8, he was admitted a freeman of the city of London; and in 1695 was appointed accountant to city of London; and in 1695 was appointed accountant to the commissioners for managing the duties on glass; a short-lived occupation, which he unfortunately lost in 1699, when the tax was suppressed. In the beginning of 1700 he published the 'True-born Englishman,' a pamphlet in answer to a libel on King William, which had been written by Tutchin. This defence pleased the king, who not only admitted the author to an audience, but bestowed on him the more substantial reward of a present of money. Error admitted the author to an audience, but bestowed on him the more substantial reward of a present of money. From the good-will that the king appeared to bear him, he had hopes of again obtaining some public employment; but these expectations were soon destroyed by the death of the king and the accession of Queen Anne. In the new reign he could expect no favours from the government; he had always been obnoxious to the house of Stuart and its adherents. This source of profit then being dried up, without much chance of its re-opening, he betook himself diligently to his pen, to which alone he could safely trust for his sub-sistence. He wrote with unwearied assiduity; but the loss of his patron, the king, was soon severely felt. By an nonical pamphlet, called 'The shortest Way with the Dissenters,' he gave bitter offence to many powerful bodies in the state. The high-church party resented it as a libel, and offered a reward for the apprehension of the author. The House of Commons (February 25, 1702-3) angrily resolved that this scandalous book should be burnt by the common hangman; and the secretary of state issued the following proclamation:— Whereas Daniel De Foe, alias De Fooe, is charged with writing a scandalous and seditious pamphlet, entitled "The shortest Way with the Dissenters." He is a middle-sized spare man, about forty years old, of a brown complexion, and dark-brown coloured hair, but wears a wig: a hooked nose, a sharp chin, grey eyes, and a large mole near his mouth. Whoever shall discover the said Daniel De Foe to one of her Majesty's principal secretaries of state, or any of her Majesty's justices of peace, so as he may be apprehended, shall have a reward of 50ll: to be paid upon such discovery.' He was shortly after caught, fined, pilloried, and imprisoned. 'Thus,' says he, 'was I a second time ruined; for by this affair I lost above 3500ll' (Ballantyne's Mem. of De Foe, in Sir W. Scott's Prose Works, vol. iv.) During the time that he was confined in Newgate he wrote an ode to the pillory and matured a scheme for 'The an ode to the pillory, and matured a scheme for 'The Review,' a paper exclusively written by himself, which for more than nine years he continued to publish twice or three times a week. After he had been a prisoner for more than a publish that the property of state into the publish that the property of state into the publish that the publish th than a year, Harley, who was then secretary of state, inter-ceded with the queen for his release, who at once sent money to his wire, who was in great distress, and, after some delay, paid his fine and set him at liberty. De Foe, once more free, took a house at Bury St. Edmunds, whither he removed with his wife and children, and recommenced his literary labours. The renewal of his former pursuits was attentically metabad by his numerous anomies. It is stated attentively watched by his numerous enemies. It is stated that fictitious suits were now commenced against him, and that a scheme was projected to apprehend him as a vagabond while he was on a journey to Exeter, and to kidnap him for a soldier. In 1706 De Foe was recommended by Lord Godolphin to the queen as a fit and proper person to send to Scotland to promote the Union. This business send to Scotland to promote the Union. This business being entrusted to him, he resided in Edinburgh until the

writing. The attacks in his political pamphlets now, a second time, got him into difficulties; for two papers, one entitled 'What if the Queen should die?' the other called 'What if the Pretender should come?' he was fined 800l.

What if the Pretender should come?' he was fined 8001, and, in default of payment, again committed to Newgate. His second was not so long as his first imprisonment; he was liberated by the queen in November, 1713.

After the death of Anne in 1714, his enemies so assailed him from every quarter, that he was compelled in self-defence to draw up an account of his political conduct, and of the sufferings he had endured. The continual attacks of his opponents so weighed upon his mind and depressed his spirits, that his health gave way, and an illness was brought on which terminated in an apoplectic fit. When he recovered, he continued to write, but shought it prudent he recovered, he continued to write, but shought it prudent to desert his old field of political satire nd invective, and to enter upon a new one. To afford entertainment by tales of fiction was his present task, and he now put forth the first part of his inimitable 'Adventures of Robinson Crusoe,' which no story has ever exceeded in popularity. The merits of this work have been disparaged on account of its want of originality: but really the story of Selkirk, which had been published a few years before, appears to have furnished our author with so little beyond the bare idea of a man living on an uninhabited island, that it seems quite immaterial whether he took his hint from that or any other similar story.' (Walter Scott, Prose Works, vol. iv., p. 245.) The great success and profits arising from the first induced him to write a second and third part, each of which had less merit than its predecessor, the last being a mere book-making job. We have not space to enumerate the multitude of pamphlets and books which our author published. 'The Adventures of Captain Singleton,' 'The Fortunes of Moll Flanders,' 'The History of Colonel Jack,' 'The Fortunate Mistress,' 'The Memoirs of a Cavalier,' and 'The History of the Planus,' which were a mount the most of the Planus,' History of the Plague,' which were among the most popular of his works that succeeded 'Robinson Crusoe,' form only a small portion of his writings. His biographers, Chalmers and Wilson, have published catalogues of the writings of De Foe, but it is very probable that they are incomplete, and that many of his works which were only of a temporary and that many of his works which were only of a temporary interest have been lost.

De Foe died at the age of seventy, on the 24th of April, 1731 in the parish of St. Giles's, Cripplegate. He left a widow and several children, among whom was Norton De Foe, the author of 'Memoirs of the Princes of the House of Orange,' who is thus satirised in Pope's Dunciad:-

# Norton from Daniel and Ostrea sprung. Bless'd with his father's front and mother's tongu

Sophis, the youngest daughter of Daniel De Foe, published two treatises on the Microscope. She married Henry

Baker, a man of considerable learning.

De Foe's powers as a writer are of no ordinary stamp
we speak of his prose works; for his poetry, which scarcely

deserves the name, is as such of no value whatsoever.

If he had been in affluent circumstances we have every reason to suppose that he would have written less, and that necessity alone made him a book-maker, and drove him continually to the printing-press. The disputes of the time afforded an inexhaustible fund of topics, and the violence of party spirit was displayed by all factions in pamphlets, which were the weapons of political warfare. To this style of writing De Foe had two reasons for applying himself; first, because it was the surest to meet with a ready sale, and to bring him in a pecuniary return; and secondly, be-cause he was himself an eager politician. As a Whig, he opposed the House of Stuart; as a Protestant, he wrote against Catholicism; and as a dissenter, against the church. His attention, however, was not confined to the hackneyed topics of the succession and the church: he treated finance, trade, and bankruptcy, as well as of the union with nance, trade, and bankruptey, as well as of the union with Scotland; and all this, independently of his Review, which contained articles on foreign and domestic intelligence, politics, and commerce. 'The fertility of De Foe,' says Sir Walter Scott, 'was astonishing. He wrote on all occasions, and on all subjects, and seemingly had little time for preparation on the subject in hand, but treated it from the stores which his memory retained of early reading, and such end of 1707, when, returning to London, he wrote an account of the subject with which he had been engaged. For his services during this mission the queen granted him a pension, which political changes not long permitting him a pension, which political changes not long permitting him to enjoy, he was again compelled to gain his livelihood by

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author. But it is not for the class of writings that we have been speaking of, although they were of undoubted ability, that De Foe chiefly is and will continue to be celebrated; it is by his popular narratives that his great fame has been obtained. Of these we may reckon three kinds:— 1st. The account of remarkable occurrences, as the Journal of the Plague Year, and the Memoirs of a Cavalier; 2nd. The account of mariners, privateers, thieves, swindlers, and robbers, as Robinson Crusoe, the piracies of Captain Singleton, the histories of Colonel Jack, Moll Flanders, and Roxana; 3rd. The descriptions of supernatural appearances, as the Life of Duncan Campbell, a Treatise on Spirits and Apparitions, the very degenerate third part of Robinson Crusoe, and the Apparition of Mrs. Veal.\* The accuracy of De Foe's nautical knowledge may be attributed both to his residence in Limehouse, a district frequented by sailors, and to his intimacy with Dampier. His acquaintance with low life and the tricks of swindlers and prostitutes must have been gained during his imprisonments. His style is inclegant, but simple and expressive. The remarkable quality of his writings is, the appearance of reality that is given to fiction. By a particularity and minuteness of description which his skill prevents from being tedious, he increases the probability of his story, adds to its interest, and carries forward his reader. No author of imaginary tales has impressed so many persons with the belief that they

have been reading a true rather than a fictitious narrative.
DEGREE OF LATITUDE, LONGITUDE, &c., and
DEGREE OF THE MERIDIAN. [GEODESY.]
DEGREE OF ANGULAR MEASURE. [ANGLE.]
DEGREE OF AN EQUATION. The degree of an algebraical term is the number of letters which enter into it as factors. Thus  $x^3y^3$  is absolutely of the fifth degree, but of the second degree with respect to x, and of the third with respect to y. The degree of an equation is the degree

of its highest term.

DEGREE. [ARTS; UNIVERSITY.]

DEIFICATION. [APOTHEOSIS; CONSECRATION.]

DEIOTARUS, a tetrarch or prince of Galatia, or Gallo-Græcia, was the ally of Rome in the wars against Mithridates, for which he was rewarded by the grant of part of Pontus and Little Armenia, with the title of king given to him by the Roman senate. Cicero, during his government of Cilicia, became acquainted with him, and received assistance from him against the Parthians. In the civil war between Cresar and Pompey, Deiotarus took part with the latter, and was in consequence deprived by Cresar of part of his dominions. After Casar's return from Spain, Deioor his dominions. After Cassar's return from Spain, Deiotarus was accused by his own grandson, Castor, of having attempted to assassinate Cassar, while the latter was in Asia. Cicero pleaded before Cassar in favour of his old friend ('Oratio pro Rege Deiotaro.') After Cassar's death, Deiotarus recovered possession of his territories; he took part with Brutus against the triumvirs, but afterwards made his peace with the latter, and subsequently favoured Octavius against Anthony in his final struggle for the empire. De-iotarus was then very old, but the precise time of his death is not known. According to Dion (lib. 48), his grandson, Castor, succeeded to his dominions in Gallo-Græcia; according to others, he was succeeded by Amyutas.



[Coin of Deiotarus.]

British Museum, Actual Size, Copper, Weight, 170 grains. DEIRA, one of the two kingdoms into which that of Northumberland was divided in the infancy of the Saxon overnment. Deira, whose capital was York, comprehended the country between the Humber and the Tyne. Bernicia. the other division of the kingdom of Northumberland, had its capital at Bamburgh, and comprehended the territory between the Tyne and the Forth. But historians differ grea ly in their accounts of the precise limits of these two

divisions. Archbishop Usher, in his Britannicarum Ecclesiarum Antiquitates, fol., Lond., 1687, p. 212, discusses the different statements of Alured of Beverley, Malmesbury. and other writers, concerning them. The kings of Det: a were Alla, or Ælla, 559; Osric, 633; Oswin, 644; Adelwalt or Ethelwald, 652; Alfred, about 660. The two kingdom of Deira and Bernicia were united and separated severa. times during the period comprehended within these day -Under Edfrid, in 670, they were again and finally un :--! as the kingdom of Northumberland, and so continued t Andred, or Eanred, in 810, submitted to the domaining Egbert, king of Wessex, by whom the Saxon heptare by .. Gough, 1789, iii., 1, 68, 75; Henry, Hist. Brit., 4to., Edui 1774, ii., 221; Rapin, Hist. Eng., fol., 1732, i., 47 and Series DEISM properly means belief in the existence of a Go.

but is generally applied to all such belief as goes no farth. that is to say, to disbelief of revelation. It is always at print dyslogistically, and frequently merely as a term of reproach But the identical word, in its Greek form, theist, is not a word of disapprobation, and, consistently with established usage, may be appropriately applied as opposed to a he. r. when the latter term is correctly used. For it must be served that the term atheist has been not unfrequently employed in the sense of an unbeliever in Christianity

though at the same time professing theism.

DELAMBRE, JEAN BAPTISTE JOSEPH, was bereat Amiens, Sept. 19, 1749. His course of study was at 112 gymnasium of his native town. His excellent disposition great perseverance, and extraordinary memory, early a tracted the notice of his teacher in the college, the pet l'Abbé Delisle; and the friendship commenced between Delisle and Delambre, while they stood in the relation preceptor and pupil, was continued unabated during remaining part of the poet's life; and Delambre used to express his obligations to that eminent man with great

feeling to the latest period of his life.

Delambre was desirous of pursuing his studies in Parabut his pecuniary means were inadequate to the expen-in which he would be necessarily involved by such a cour-The influence of Delisle however procured for him an conbition to one of the colleges which was in the guft of ! .native town, and which it has been commonly said was ! . .: founded by one of Delambre's own family. The till during which he was entitled to hold it having expired, as his family being unable to furnish him the requisite as-: . ance to prolong the period of his studies, he was course . to adopt some means of supporting himself. After in : than a year of disappointment, indecision, and privation. undertook the occupation of translating foreign works i. French; and many such translations from the La.m. Gre. a Italian, and English writers were executed by him dum. the first fifteen years after he left college. In addition i this employment, he gave lessons in languages to private pupils; and, by the combined emoluments of these laining. he was not only able to supply his small personal wan but to make an excellent collection of the best authors... the several languages which he studied.

The parsimonious views of parents on the subject of contion have been witnessed by every one whose life. been devoted to instruction, under circumstances similar those of Delambre. Their continual importunity to men en ... nent in some one pursuit, whom they have employed, to the dertake others with which they have little or no acquaintain and this for the sake of diminishing the expense of education is proverbial. It was this continual application to Delainb. who was distinguished both in the philological and philiphical departments of language, to teach mathematics, wh. ... induced him, at the age of twenty-five, to enter upon the wearred of a pursuit so undertaken; and this would have been the case with Delambre, had his mental discreption been me, ely that of exercising the memory, which is unit tunately too much the tendency of the exclusive stide languages. Order and perseverance were distinguish characters of Delambre's mind; and having, from prosional motives, entered on the study of mathematics, thereby become attached to their pursuit, he determined pursue a regular course of study in these sciences. He: tered the astronomical class of the College of France und-Lalande, but not till he had carefully read the works of n. master, and made many notes upon them, amounting almer!

to a commentary.

For an account of this very ingenious composition and its complete success, we refer our readers to Sir Walter Scott's interesting biography of De Foe, with which the whole history of the Apparition has been reprinted.

the one occurates, showthy after he journal this plane, a goar-e from Arathe was required, which Delandar districtly spired from minimum. Laborates were shown to the impost-ing alternational laborates was immediately interested in

the are comeaning absorbly after his joined the phase, a passor from Archive van specialist, which Declarates a passor from the Archive van completed home because of the follows from the control of the formulae which are taken to the control of the formulae which, are taked as the particle of the control of the formulae which of the control of

and soil, isomeret, mentionily oversions all abstacles, and after uptil progred force samp labbac and anxiety, he abstacle and the measurement of he three values of the three values (10, of the obsidence and measured with these or exploins distingue Dietrod. The Institute of Tennes, who had weatend user the progress, decread him this point for the most valuation work, an physical expressed within the proceding for years and it is difficult to somewer that a single algorithm would promise the like progress of which the proceding for years and it is difficult to somewer that a single algorithm would promise the like progress of the force of the continuation of Dokember's see by like and Aragen from Barcelona to force active the continuation of Dokember's see by like and Aragen from Barcelona to force active to the Intro or lave based at compile but it may be nessurely to the or the macretiponosis oxide in at long bean obsorted to the low and corresponding on the lowest of the light of the lowest of particles of the lowest of

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13. Histoire de l'Astronomie Moderne, 2 vols., 4to., 1821. 14. Histoire de l'Astronomie au Dix-huitième Siècle, I vol. 4to., 1827, published under the care of Matthieu, and another promised, but not yet, that we are aware, published.

Besides these separate works, Delambre published a considerable number of memoirs in the collections of Petersburg, Turin, Stockholm, and Berlin, independently of those which appeared in the Mémoirs de l'Institut de France. Also twenty-eight memoirs on different subjects, astronomy, geodesy, and astronomical history, in the Connaissance des Temps from 1788 to 1820. A list of these may be seen in Coste's indexes to that work for 1807 and 1822

Any attempt to analyze the writings of Delambre would far exceed the limits which can be allowed in this Cyclopædia. It is sufficient to say they are well worthy of the praise which has been bestowed upon them, as they are not only all excellent in their kind, but throughout marked with an original mind, indicate the most devoted enthusiasm to their several subjects, and prove that their author combined the spirit of scientific inquiry with the feelings and habits of literature in a degree that the history of a single individual has hardly ever before or since exhibited.

DELAWARE, a river in the United States, rises in the State of New York, between 42° and 42° 30′ N. lat., and afterwards forms the boundary-line between New York and New Jersey on one side, and Pennsylvania and Delaware on the other side. It terminates its course of 305 miles about five miles below Newcastle in Delaware, about 39° 30′ N. lat., and 75° 40′ W. long.

The Delaware is formed by two branches, the northern,

called the Oquago, the southern, the Papachton, both rising on the western declivity of the Catskill Mountains, at an elevation of at least 1500 feet above the sea, and hardly 30 miles from the tide-water in the Hudson river. Both branches flow in a west-south-west direction for about 50 miles, and unite on the boundary of Pennsylvania, the Oquago turning suddenly to the south-east. In the same direction the river, which is now called Delaware, continues about 60 miles to the junction of the Neversink river. Hence it runs in a south-western and southern direction to the junction of the Lehigh at Easton, 65 miles, where it again turns to the south-east. After a course of 35 miles in that direction to Bordentown, it resumes its south-western course to the place where it enters Delaware Bay, five miles below Newcastle. The tide ascends in this river 120 miles from its mouth to the rapids at Trenton. The frequent changes in its course are caused by four ridges of the Appalachian Mountains, through which the river breaks in an oblique line. Though in its course above Trenton it forms numerous rapids, no cataracts, in the true sense of that term, interrupt the navigation of this river, which at seasons of high water extends by both branches into the State of New York. Ships of the line may ascend to Philadelphia, where the tide rises five or six feet, and sloops as far as Trenton.

The importance of this river has of late been greatly increased by the discovery of extensive coal-beds near the sources of its two largest tributaries, the Lehigh and Schuylkill. The Lehigh joins the Delaware at Easton, and the Schuylkill five miles below Philadelphia. Though both these rivers, whose sources are between 1400 and 1500 feet above the sea, and whose course does not exceed 100 miles, are extremely rapid, a great portion of their course has been rendered navigable by dams and locks, so that the produce of the coal-mines can be brought down to

Philadelphia.

The navigation of the Delaware river is united to that of Chesapeake Bay by the Chesapeake and Delaware Canal, which traverses the north-castern angle of Maryland and the northern district of Delaware, and connects the Elk river with the Delaware, 45 miles below Philadelphia. This canal, which is fourteen miles long, is navigable for small sea vessels. Its profits have never been sufficient to repay the heavy expense of its construction, and have been further diminished by the rail-road from Newcastle in the State of Delaware to Frenchtown in Maryland. By the Union Canal the Schuylkill navigation is connected with that of the Susquelauna. On the east a canal unites the Delaware at Trenton with Amboy Bay, and consequently with the city of New York; another canal is to begin opposite the thof the Lehigh, to waverse the northern districts of

Jersey, and to terminate near the city of New York;

and the Lehigh canal connects the Delaware with the coa! mines of Mauch Chunk on the Lehigh. (Darby; May . of the Society for promoting Useful Knowledge.)

DELAWARE BAY extends in a north-west direction, between 39° and 39° 30′ N. lat., and 74° 59′ and 75° 40′ W. long. Its entrance between Cape May in New Jersey and Cape Henlopen in Delaware is from 15 to 16 miles when the act of wide open bay bay between Cape May and Egg Island: it then gradualty narrows, and is considered to terminate ave miles below Newcastle, at the embouchure of the river Delaware. 1. whole length is about 56 miles. Its low and sandy abores are without harbours even for small ves-els.

DELAWARE, the second smallest state of the United States of North America, extends from 35° 27' to 39° N. lat., between 75° 10' and 75° 40' W. long. It comp. hends the north-eastern portion of the penimula which 1 to the east of Chesapeak Bay, and more than one-third of its surface, having an area of 2100 square miles, or some-

what more than the county of Norfolk.

The watershed of the peninsula runs nearly through is middle, along the western boundary-line of Delaware, but rather within it. In its northern portion Delaware is a redulating, but perhaps it nowhere rises more than 100 f.et above high-water mark; it gradually becomes more that is wards the Atlantic Ocean. Farther south it is an extensive flat, from which the small rivers ooze rather than flow to ... Chesapoak Bay and the Atlantic. Some districts of the country towards the sea are marshy, and subject to inundations. At the southern extremity is the Cypre-s Swam, six miles from east to west, and twelve miles from north to south, covered with trees, and containing about 50,000 acres: a part of it belongs to Maryland. The coast to it wand sandy, and has no harbour except at the northern except at the nor tremity along the banks of the river Delaware. Rehol-Bay, formed by a long and narrow strip of sand, is constallow to admit even small vessels. A breakwater as reconstructing by the general government within Cape 11: n-lopen, which is expected to form a good harbour. It is true thirds of a mile in length, and twenty-two feet wide at i e top. A dike half the length of the breakwater, and pura! :: to it, will protect it against the ice brought down the rave.

The soil is in some places excellent, especially in the northern districts, but it is generally thin and saidly, there is everywhere carefully cultivated. The principal article of export are corn and flour. The forests are not extense. but the Cypress Swamp and those in the northern distri produce lumber. Bug-iron is found not fur from the an air river Brandywine. Fruits are produced in abundance.

The climate is in general healthy and mild, but min a severer in the northern than in the southern district, the visa the two are hardly more than a degree from one another.

The population amounted according to the census of

1820 to 73,000, and in 1830 to 76,739, of whom 3345 me : slaves. On Christiana Creek, towards the northern by -dary, and on Brandywine Creek, are several mills for grateing corn, and on the latter river also iron founderies. Vesser are built at Wilmington.

Dover, the capital of the state, has hardly more than 800 inhabitants. Wilmington, at the junction of Christiania Creek and the Brandywine, has a ropulation of 6625. 2. . carries on a considerable trade in corn, thour, and am. ...

Newcustle has a hurbour and 2463 inhabitants

Dehaware is divided into three counties, and sends 've senators and one representative to Congress. The Same legislature consists of a senate of nine, and of a house .: representatives of twenty-one members; the members the former are chosen for three years, and those of latter annually, by those inhabitants who pay state tax The executive power is in the hands of a Lovernor, w. . . chosen by the people for three years, but can hold the off...

There is a college recently established at Newark: : .. State has also a school-fund, which produces an unnual :.

ne of 9000 dollars.

This country was first settled by the Swedea, whom Gartavus Adolphus sent there in 1627. In 1655 it purced in the hands of the Dutch, who ceded it in 1564 to the Eng. ... Its mame is derived from Lord Delaware, the governor-Virginia. (Darby; Warden, &c.)

DELEGATES, COURT OF, was the great court appeal in seclesiastical causes, and from the decisions of the Admiralty Court. It was so called because the judges were

distingly or movemed by the plays of growth of the court 
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sury was plantered to varie sinks in money and gewens, the vice-roys of the different provinces revolted, and gained their independence one after the other, so that the successors of Mahomed Shah possessed only the actual sovereignty of the city of Delhi and a small district around it. Between 1749 and 1760 three monarchs were successively dethroned: in the latter year Shah Allum II. commenced his reign by an attack upon the English in Bengal, but, being defeated, surrendered himself unconditionally. Upon this, Meer Caussim, a creature of the English was invested by the Mogul with the government, as Soubahdar of Bengal, Bahar, and Orissa, and engaged to pay out of the revenues of those provinces twenty-four lacs of rupees (240,000%) annually to the mogul. This payment was allowed to fall into arrear, and in 1765 the Mogul was induced by his necessities, and in order to secure payment of the annuity in future, to issue a phirmaun granting to the East India Company what is known in history as the Dewannee, empowering them to collect and appropriate the revenues of Bengal, Bahar, and Orissa. In the following year, under a little gentle compulsion, the Mogul was induced, 'by way of inaum, or free gift,' to assign to the English the Northern Circars. From this time the Mogul retained only a nominal sovereignty; he was attacked first by the Maharattas, and next by the Rohillas, who became masters of the imperial city in 1788, and put out his eyes. After this Shah Allum transferred the small remains of his territory to some French officers in the service of the Maha Rajah, and became a prisoner in the hands of the Maharattas. This state of things continued until 1803, when Lord Lake, after defeating Dowlut Rao Scindiah, took posse-sion of the city and territory of Delhi, and assigned lands for the support of the Mogul, thenceforth entitled King of Delhi. These lands are managed by British of the support of the managed by British of the support of the support of the managed by British of the support of the suppo lands are managed by British officers, and out of the revenue which they yield provision is made for the support of the numerous members of the royal family. These payments, including the sum appropriated for the expenses of the king, amount to upwards of thirteen lacs of rupees (130,000l.)

a year.

The consequences of the immediate administration of the government by the British have been highly favourable to the inhabitants. Owing to the weakness of the former rulers, many of the villages had found it necessary to unite for their mutual protection, and by this means the more powerful were able to set the government at defiance as regarded the payment of taxes, while the burthen fell the more heavily upon the small and less powerful villages. When the English first took possession of the territory there were about 600 villages that had been deserted, the greater part of which were speedily re-peopled, and chiefly by the old inhabitants or their descendants. The restora-The restoration of some of the antient canals, as already mentioned, has been of signal benefit to the people. When, in consequence of the clearing out of Ali Merdan Khan's canal, the water was known to be approaching the city of Delhi, the people went out in swarms to hail it, calling down blessings upon those by whose exertions they were thus benefited. The appearance of the inhabitants indicates that their circumstances are easy; the whole population is well clad, which, in a climate where clothing is not of prime necessity as a protection from the elements, is alone evidence of prosperity. The tenure of the land has never been interfered with by the English, as in other provinces of India. Settlements are made with the village proprietors according to immemorial usage, and no sales of land have been rendered necessary by the possessors falling into arrears. The holders of land are divided into five classes, viz. 1. biswadars, or freeholders, generally descendants of the original settlers of villages; 2. hereditary occupants not liable to ejectment, answering to copyholders in England—this class pays certain fixed dues to the biswadar; 3. tenants at will be to the biswadar be to the bisw residing in the villages; 4. tenants at will not residing in any village; 5. mortgagees. The rates paid by each of the other classes to the biswadar have not been ascertained, but it is understood that they are not liable to fluctuation. The land-revenue of the province collected by the Company's government in 1829-30 amounted to 70,54,948 rupees (705,495l.).

DELHI, the capital of the province, is situated on the west bank of the Jumus, in 28° 41′ N. lat., and 77° 5′ E.

According to tradition this city was founded 300

3 the Christian æra by Delu. It formerly stood or eastern bank of the Jumus, and is said to black and red carnelians.

sury was plundered of vast sums in money and jewels; the | have covered a space of twenty square miles. whose account was written in 1663, four years after the accession of Aurengrobe, estimated the circumference at no more than three leagues; but this included only the part within the fortifications, and there were several suburtee. which probably were not very thickly covered with bundings. It is known that this capital was greatly extended in the course of the reign of Aurengzebs, and Major Renness than the course of the reign of Aurengzebs. mentions two millions as the number of inhabitants wha is it was said to contain at the end of the seventeenth century. The extent of the ruins seems to justify in a great degree this estimate. The Emperor Shah Jehan built a new city in 1631 on the right bank of the Jumna, and gave to it lie name of Shahjehanabad, which it has not retained. This is the modern Della, which is about seven miles in circumference, and surrounded by walls constructed of large blucks of grey granite: several towers and bastions occur in the walls at intervals. The city has seven gates of freestorand contains the remains of several fine palaces, the former dwellings of the chief omrahs of the empire. These palaces are each of considerable extent, and surrounded by because walls, containing baths, stabling, and numerous out-buildings. There are several beautiful morques in good preservation; the largest of these, the Jumma Musiced, was built by Shah Jehan, and completed in six years. It is built of white marble and red sandstone. There are two fine streets, one 90 feet broad and 1500 yards long, the of the first of these streets is an aqueduct, supplied with water from Ali Merdan Khan's canal. The other streets are narrow, but contain many good brick houses. The Mogul's palace, built by Shah Jehan, on the west bank of the Jumna, is surrounded on three sides by a wall thur; feet high, and more than a mile in circumference. It is now used as a bazaar. The chief hall of audience 10 un open quadrangular terrace of white marble, richly orasmented with mosaic work and sculptures in relievo; and the chapel of Aurengzebe, also of white marble, althou. u small, is of beautiful workmanship; altogether the building. even in its present neglected state, attests the magnificence of its former occupants. The gardens, which were formed by Shah Jehan, are said to have cost a crore of rupees—one million sterling. Their original character has long been completely lost, and they now present the appearance of a small neat park, with some charming groves of orange-Among the ruins of the antient city on the eastern side of the river are some splendid mausoleums in god preservation: those of the Emperors Humaioun and Mahomed Shah, and of Jehanara Begum, daughter of Shan Jehan, are the most remarkable. One of the most generally useful works of the Emperor Shah Jehan in this cary is the well, excavated by great labour out of the solid rous upon which the Jumma Musjeed is built. The water is succession of reservoirs, and fills a pond, from which tire inhabitants obtain a supply. The principal wheels have been broken, and the whole machinery out of repair, it was restored by the English a few years after they obtained possession of the city.

This city has at various times undergone great viciss tudes, having frequently been taken by hostile powers, at once, as already mentioned, wholly depopulated through to whim of the Sultan Mahomed, who removed the whole the inhabitants forcibly to Dowlatebad, near the middle the innabitants forcibly to Dowlatebad, hear the middle—the fourteenth century. At the close of the same century. Delhi was captured and plundered by Timur, during the reign of Nassir Ed Din, whence it would appear that its pullation had returned. In 1739 the city was again take and plundered, and part of the suburbs burned, by Nassis Shah. Between that period and the occupation by the B. itish, Delhi was taken by the Abdallees, by the Vizir Garas

Ed Din, and twice by the Maharattas.

No census of the inhabitants has been taken, but it estimated that the city cortains a population of 200,000 This place is well situated for carrying forward the trabetween the peninsula of India and the countries to :. north and west; the inhabitants consequently exhibit considerable degree of industry and commercial activ Cotton-cloths and shawls, for which last the wool is broug. from Cashmere, are manufactured in the city, and man. indigo is produced in the surrounding country. A conside able trade is also carried on in precious stones, and un lar-

From time to time many endowments had been made by benevolent natives for providing instruction for poor child-ren; these endowments had nearly all been diverted from their intended object, and nothing could be more unsatisfactory than the state of education among the poorer, and indeed among all except the most wealthy, inhabitants of Delhi, at the time of the appointment by the English government in India of a General Committee of Public Instruction, which was planned and brought into operation between 1823 and 1825. A college or madrissa was established by this committee, and funds were assigned for its support by the contral government, in addition to which a sum equal to 17,000*l*. was presented to the college by Nawaub Islamaid-cod-Dowlah, late minister of the king of Oude. In addition to this establishment, it appears that in June, 1827, there had been opened 247 schools in Delhi and its immediate vicinity for the instruction of poor children. The number of pupils at the college, which in 1829 was 152, had increased in the following year to 257. More recently another school has been instituted, at which the children of the native gentry are taught the English lan-guage, and as many as 68 scholars attended in the first year of its establishment.

Delhi is distant from Calcutta, by the Birbhoom road, 956 miles; from Bombay, by Ahmedabad and Ajmeer, 880 miles; from Madras, by Ellichpore, 1275 miles; from Agra, 117 miles; from Benares, 496 miles; from Lahore, 386 miles; from Oude, 364 miles; and from Seringapatam, 1321 miles; all travelling distances.

(Rennell's Memoir of a Map of Hindustan; Mill's History of British India; Reports of Committees of Lords and

Commons on the Affuirs of India, 1830, 1831, and 1832.)
DELIAN PROBLEM. [DUPLICATION.]
DELILLE, JACQUES, was born at Auvergne in the year 1738, and educated at Paris at the College de Lisieux.
Poverty compelled him to accept the office of subordinate teacher at the Collège de Beauvais; but he was soon raised to the rank of professor of humanity in the college of Amiens. While holding this office he commenced a trans-Amiens. While nothing this office he commenced a maintain of Virgil's Georgies. On his return to Paris he was appointed professor at the Collège de la Marche. He now began to be known as a poet, and several of his pieces attained celebrity, particularly an epistle to M. Laurent. But it was the publication of his Georgies that raised him to distinct a most to which he was urred by Racine. him to distinction, a work to which he was urged by Racine.

The public read this translation with enthusiasm, and thought that the French language was capable of representing all the beauties of antiquity. Envy, notwithstandsenuing all the beauties of antiquity. Envy, notwithstanding, appeared here and there; and old forgotten poets were dragged from oblivion, that their works might be lauded at the expense of M. Delille's reputation. In 1774 the author was elected a member of the Académie, and soon after published his celebrated poem 'Les Jardina.' The popularity of this work does not seem to have been equal to that of the Georgies.

Delille accompanied M. de Choiseul Gouffier on his embassy to Constantinople, and took the opportunity of visiting Athens. It was on this tour that he composed his poem 'L'Imagination.' On his return to Paris he became professor of Belles-lettres at the university, and of Latin protessor of Belies-lettres at the university, and of Latin poetry at the Collège de France. He was unfortunate enough to lose all his property by the Revolution. At the celebration of the Fête de l'Etre Suprême, which took place during the Reign of Terror, Robespierre demanded of Delille an ode for the occasion. The poet, finding re-fusal was of no use, astonished Robespierre by writing a dithyrambic poem on the immortality of the soul, wherein he warmly supported that doctrine. The troubles of the capital induced him, in 1794, to leave Paris for St. Diez, and subsequently to retire to Switzerland, where the government of Berne made him a citizen. Here he finished his 'Homme des Champs' and 'Les Trois Règnes de la Nature.' He afterwards visited London, where he translated Milton's 'Paradise Lost.' In 1801 he returned to Paris, and died, universally regretted, in 1813.

Delille is one of those poets who will always be honoured by posterity; he reformed the language, and wrote verse with an ease and elegance before unknown. Those who feel pleasure in hearing the Alexandrine verse must be feel pleasure in nearing the Alexandrine verse must be pleased (as far as structure goes) with the didactic poems of Delille. Nothing can be conceived more smooth and easy than the flowing of his lines; and even when he writes in a measure more irregular, as in 'La Conversa-

tion,' the same correctness is so carefully attended to, that a person of the slightest ear may read him aloud without once hesitating as to the place where the cessura lies. To say he was a poet of great imagination would be going too far; but he is entitled to higher praise than that of a mere verse-maker. His images, as well as his lines, are often exceedingly elegant: we may instance an expression in 'Les Jardins,' where, after observing that the beauty of his subject ought to inspire him, he says—

Comme un rayon pur colore un beau image. Des couleurs du sujet je teindrai mon langage.

His 'Conversation' is an amusing poem; it is a kind of Theophrastus in verse, portraying the different sorts of persons who figure in conversation. It has, however, the fault of most works that treat of characteristics—the persons who appear in it are personified abstractions, instead of individuals as they appear in nature.

DELIQUESCENCE, the change of form which certain bodies undergo from solid to fluid by exposure to the air,

and absorbing moisture from it.

There are many substances which partake of this property: among the more remarkable are potash, calbonate of potash, chloride of calcium, and nitrate of copper; all these will in a short time attract sufficient water from the air to become fluid in it. Other saline bodies are deli-quescent only in moist air, such as common salt and nitrate of ammonia

of ammonia.

Certain deliquescent salts, and more especially chloride of calcium, are employed for the purpose of drying gaseous bodies which are the subject of experiment.

DELISLE, WILLIAM, a French geographer of great celebrity in his own day, was born at Paris, in 1675. His inclination for the pursuit in which he afterwards became so eminent, was displayed at an early age, and he made considerable proficiency in the art of constructing maps before he was nine years old. This taste was induced and carefully cultivated by his father, who appears to have been also much devoted to geographical and astronomical pursuits. pursuits.

In 1699 he published a map of the world, which, with other maps and dissertations on geography, led to his election as a member of the Academy of Sciences in 1702; and a little afterwards he was appointed geographer to the king, with a pension. Indeed several of his works were written for the use of his royal pupil, in the course of instruction which he condescended to receive from Delisle.

Delisle's celebrity was not only so great in his own country that no work of history or travel was considered complete without his maps, but it extended all over Europe. He had several flattering invitations from the monarchs of other countries to remove to their capitals; and Peter the Great paid him a personal visit at Paris, to attempt to induce him to go to Russia. All these offers he rejected, but he gave Peter an excellent series of maps of his immense dominions. Fontenelle, in his 'Eloge,' says that the geographer knew their limits better than their owner did himself; and it was probably the respect entertained for him by the Czar that led to his brother Joseph being appointed to take charge of the observatory at Personal Control of the cont

with a very considerable salary.

In 1726, Delisle died of apoplexy, aged 51. The uncit valuable of his writings may be seen in the Memoirs of the

valuable of his writings may be seen in the memoirs of the French Academy; but any list of them is unnecessary here. DELISLE, JOSEPH NICOLAS, a younger brother of the preceding geographer, was trained in the same school, and became very eminent in the same pursuits. He was born in 1688.

His published labours commenced with an excellent observation of the great total eclipse of the sun in 1706, when he was only 18 years of age; and in 1714 he was admitted a member of the Academy, in the section of astronomy. In 1724 he visited England, and at the recommendation of Newton and Halley, by both of whom he was greatly esteemed, he was elected a Fellow of the Royal Society, on the foreign list. In 1726, the year in which his brother died, he was appointed astronomer to the Czar Peter, a situation which he retained 21 years, when he returned to Paris on account of his health. He was then appointed professor of astronomy in the Royal College of France, which he held many years. Amongst his pupils were Lalande and Messier.

He died in 1768, at the age of 80; having published, besides his 'History of Astronomy' (2 vols. 4to., 1738), no

less than 44 papers in the 'Memoirs of the Academy,' and several other dissertations elsewhere.

DELOS (Δῆλος), a small island of the Archipelago, one of the group called Cyclades, lies in the strait between Mycone and Rhenea. According to the poetic tradition, it was originally a floating i-land. (Strabo, p. 485.) It had several antient names, as Ortygia, Cynthia, and Asteria. It was celebrated from the earliest times as a seat of the worship of Apollo, who was said to have been born there. His temple and that of his mother, Latona, were in the town, which was built on a little plain on the west side of the island, at the foot of a lofty mountain, called Cynthus. (Strabo, p. 485.) The river Inopus ran into the sea to the south of the town; and in the sacred inclosure was a diminutive circular lake, called the τροχοιιδής λίμνη. (Herod. ii., 170; Tournefort, Voyage du Levant, tom. i., p. 290, fol.) Delos was a place of meeting for the Ionians in the time of Homer; and athletic sports, with dancing and singing, were carried on there in honour of Apollo. (Thucydid. iii., 104.) Polycrates, of Samos, consecrated the adjoining island, Rhenea, to the Delian God, and joined it Athenians in the time of Peisistratus, and then a partial purification of the island took place by the removal of the tombs which were within sight of the temple. In the year 426 B. C. a complete purification of Delos was made by the Athenians; all the tombs there were removed, and it was proclaimed that no one should thenceforth die or be born in the island, but that all persons likely to die or bring forth should be sent over to Rhonea. (Thucyd. i. 8, iii. 104.) The Athenians instituted at Delos a festival, which returned at the beginning of every fifth year, called the Delia, and sent thither annually a sacred vossel, called the Theoris, in commemoration of the delivery of Athens by Theseus from the Cretan tribute. (Plat. Phædo, p. 58, A.) The Persians regarded Delos with so much veneration, that when they were sailing to Eubæa, in 490 B.C., they would not land there, but sent to offer a most sumptuous sacrifice to the Delian Apollo. (Herod. vi., 97.) It was probably on account of the respect which all parties paid to this temple that the Athenians selected it as the depository of the tribute which they collected from their allies after the Persian war. (Thucyd. i., 96.) In 422 B. c. the Athenians removed the whole population of Delos to Adramyttium, where they were allowed to settle by the satrap Pharnaces (Thueyd. v., 1), and where many of them were afterwards treacherously massacred by the Persians. (Thucyd. viii., When Corinth was destroyed by Mummius, Delos 108.) When Corinti was destroyed by Mullillius, Delos succeeded to the commerce of that city, and was for a time very flourishing; but the generals of Mithridates having landed there in the war between that monarch and the Romans, the island was laid waste by them, and remained in a state of great desolation. (Strabo, p. 486.) In the days of their prosperity the Delians carried on a very extensive slave-trade with Cilicia, and thousands of slaves were lauded and sold in a single day. (Strabo, p. 668.) The modern names of this little island are Delo, Deli, Dili, and Sdilli. It is little more than a mass of bare rock.



[Coin of Deloa.] Brit'sh Museum. Actual size. Copper. Weight, 55 graus.

DELPHI, now called CASTRI, the name of a people and a town of Phocis, celebrated for the oracle of Apollo. Its original name was Pytho: and Homer does not call it by its more modern appellation, which seems to have been derived from the cavern whence the prophetic vapour issued, or from the serpent which Apollo slew there. (Hesych, Δελφός-μήτρα, καὶ ὁ ἐν Δελφοῖς ἔρακών.) From the description which Strabo gives of the cavern (p. 419, ἄντρον κοίλον κατὰ βαθον, οὐ μαλὰ εὐρύστομον), and from the fact that Delphi was called the navel of the earth, it should seem that the former derivation is preferable. There was a legend that two calles, sent by Jupiter from the east and wesi, met at Delphi; and in the temple was a stone adorned with two golden eagles, and other devices, which was called the navel-stone: representations of this may be seen on many antient monuments; as, for instance, in the

has relief representing the combat between Apollo at Hercules for the Deli hic tripod. (Bekker's dayust a. i., pl. 5.) The oracles were delivered by a price see. who, having exhals the vapour, pronounced some popin in verse or prose: if in prose, it was afterwards set to be by the poets attached to the temple. The oracle is seen have been suggested by the effects produced by the vulupon some goats and the man who attended them. (P. san. Phoc. 5.) The great reputation of the Delphian . . was satisfied with the response he obtained made a p...
offering some costly donation to the temple. Tue: medes: this having been destroyed by fire s. c. 54. 3...
one was built by the Amphictions from the precee 5... Rgypt, largely contributed. The Alemannian to be tracted to build it, very liberally substituted Parian manifest in the front of the building for the common stone of ways. they had undertaken to construct the edifice. (Herod. 180, v. 62.) The wealth of Delphi naturally attra-The Persians under Xerxes made an unplunderers. cesful attempt to get possession of the treasures accum i. there. (Herod. viii., 37.) The Phocian headers in sacred war did not hesitate to appropriate them as a 1-Brennus, the Gallic king, subsequently carried of greater part of the offerings which remained. (St., p. 188.) [Brennus.] There were however still some c for the rapacity of Nero, who carried of 500 hrenzes. at once. (Pausan. Pluc. 5.) The city of Delphi, was the largest in Phocis (Pausan. Phoe. 94), was it. on an elevation, sixteen stadia in circumference, a: .i ... of the south side of Parnassus (Strabo, p. 415); a ... the focus of the Dorian religion, and the seat of the is celebrated oracle in Greece, it naturally became pop... and wealthy. The population consisted of Dorman, formed the privileged class, and of the descendants of the temple. The constitution was one... bondsmen of the temple. The constitution was one in monarchical (Müller, Dor. iii., 6, § 10); the kings were called Prytanes. (Müller, iii., 8, § 3.) The Dorsan tax... made an oligarchy, from which the priests, the Procourt of justice, and a limited senate, were chosen. (Min., 7); iii., 9, § 17.) Delphi was, from very early times, the redevous of an important federal union, or amphictyony, incorganization of which is attributed by Strate, p. 420, iv Acrisius. (Thirlwall, Hiet. Greece, vol. i., p. 876.)



[Coin of Delphi.] British Museum. Actual Size. Silver. Weight, 23} grains.

DELPHIA, a vegetable alkali, which exists comb to distribute and forming malate of delphia in the seed. It the delphinnum staphisagria, or stavesacre.

The properties of delphia are that it is a crystalline power which becomes opaque by drying. It is nearly insolube it water, but communicates its peculiar taste to it. It desolves readily in alcohol and ather, and, on the cooling of the solutions, the delphia is deposited in flocks. It is soluble also in the volatile and fixed oils.

With acids it forms neutral salts, which are crystallization and have a bitter and acid taste; they are however but in the known, and delphia itself has not been analysed. Live to other alkalis of this class, there can however be no doubted its being composed of hydrogen, carbon, oxygen, and azote DELPHINA'P I ERUS. [WHALES.]

DELPHI'NIUM, an extensive genus of the Ramunc. inceous order, consisting of annual or perennial herbace. In plants, with irregular spurred flowers, the colours of who are often of the most vivid blue. They are very nearly at the Aconites, from which they differ merely at their against the back into a helmest, and in the petals having no spur at all, but being deformed stalked hodies altogether and ferent in form, and often in colour, from the sepals.

The species abound in the temperate parts of the nor line hemisphere, and are often cultivated in gardens under it name of Larkspura. Among the most showy kinds at

DELPHINORHYNCHUM [Washer] and make, and make, but apply the property of the opt of the opt of the opt of all of Armed to the opt of Amphirite and to at at Armed places on the method of the opt of the opt of a target of the opt of the opt of a target of the opt of

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illumentaries multiple seed by two or more obscured a greateries, though the spaces common relocated to those examples and the section made, in many cases, ever little at the recognition.

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form and nature of its bed in the neighbourhood of the mouths of rivers, the prevalent winds and tides, &c. In almost all cases these circumstances greatly modify their form and extent and nature. Some deltas are very extensive; some are sterile, while others are highly fertile, such as the delta of the Nile; some are thickly wooded, such as the delta of the Ganges; some are swampy, as the delta of the Ganges; some are swampy, as the delta of the Ganges; some are swampy, as the delta of the Ganges; some are swampy, as the delta of the Ganges; some are swampy as the delta of the Ganges; s the delta of the Ganges; some are swampy, as the delta of the Mississipi, &c. With regard to the branches which the Mississipi, &c. With regard to the branches which inclose or intersect them, there is also much variety, both as to their total number, and the number and situation of such among them as are navigable. Sometimes the two outer or deltoid branches of the river are the largest; sometimes one only is navigable, and that may be in the middle or on either side, and sometimes many are navigable; thus the delta of the Wolga has sixty-five channels, eight of which are navigable; the Orinoco fifty, of which seven are navigable. The Danube has five navigable mouths, and the Nile at present only two.

Deltas are formed not only at the mouths of rivers which disembogue into the sea, but sometimes at the confluence of tributary streams, with their recipients, as is seen in many rivers of America; such as the Rio Branco and the Rio Jupura, which respectively enter by a great number of branches into the Rio Negro and the Marañon, or river of Amazons. Rivers entering lakes also, as we have already

hinted, form deltas at their mouths.

Some deltas are still in progress of formation; others have been obliterated by various causes, and all are, more

or less, undergoing different modifications.

The principal deltas of Europe are those of the Rhone, the Danube, and the Po. Many other rivers, however, form deltas, such as the Ebro, the Vistula, the Neva, the Dwina, the Don, &c. The delta of the Rhine has been, as it were, obliterated by the irruption of the Zuydersee, though the whole of Holland is a formation of deltoid islands, created by the anastomosing branches of the Rhine, the Meuse, and the Scheldt. The deltoid form of the mouths of the Petchora is no longer recognizable in the group of islands at its embouchure.

In Asia, the principal deltas are those of the Ganges, the Indus, the Irrawaddy, the Cavery, the Euphrates, the Oural, the Lena, and the Kolima.

The Wolga, before entering the Caspian, is split, as we have said, into innumerable branches; but the space which they inclose, in strictness, bears little resemblance to a delta

In Africa, the Nile and the Niger; and In America, the Mississipi and the Orinoco form the

principal deltas.

DELU'C, JEAN ANDRE', was born at Geneva, 1727.

His father, François Deluc, was a watch manufacturer, not only skilful in his trade but conversant with other branches of knowledge, and a writer upon religious and political mat-ters. His son also took part in the disputes between the négatifs and the représentant, or aristocratic and democratic parties, of his native republic, to the latter of which he belonged, and he was sent, in 1768, by his fellow representatives to Paris to plead their cause with the Duke of Choiseul, the prime minister in France. On his return in 1770 he was made a member of the legislative council, but not long afterwards he left Geneva and its politics for England, to devote himself entirely to scientific pursuits. He had from an early age, applied to the study of geology, and had made excursions in the Alps, while his brother investigated the mountains of Italy for the same object. His own words best explain his purpose: 'My brother and I entered together upon our geological career, while I yet lived at Geneva, and after a certain period we came to a first conclusion, which from that time has been our guide, namely, that an essential distinction was to be made among the various phenomena which the surface of the earth exhibits, with respect to their causes, by determining as to each of them whether the causes which have produced it are still in action, or have, at some epoch, ceased to act. . . . Continuing our observations, we came at length to a conviction that the formation of our continents, with regard both to their composition and general form, as well as their existence above the level of the sea, should be ascribed to causes no longer in action on our globe, and that the whole of the effects of the still-existing causes have been limited to a modification of that original state. After having quitted Geneva, I continued my observations in various countries, and more particularly on the sea coast; my brother like-

These letters were addressed to Queen Charlotte, consert ( George III., who appointed Deluc her reader; they reine only to the Alps of Switzerland; but in the following year appeared a continuation of the work, under the same ties, including Deluc's travels through Rhenish Germany, H. nover, Friesland, Holland, Belgium, &c., in 5 thick ... These letters are not merely scientific treatises, the are also descriptive of scenery, of the inhabitants, and their manners; they contain statistical and moral observations. and many of them are full of interest even to the general One great conclusion which Deluc came to f: :: reader. all his observations was, that the present continents were left dry by a great and sudden revolution of compa:: tively recent occurrence, not more than four or five thouse: . years since, which revolution buried under the sea to countries previously inhabited. This opinion has been also maintained by Saussure, Dolomieu, and Cuvier. Do agreed with Saussure in considering that the materials with form our mountains were first deposited in horizontal at 1 continuous strata, and that their present broken and dis cated state is the effect of subsequent catastrophes, wh. however were previous to that which left them dry. Delivable system concerning the various epochs of the creation corresponding to the six days or rather periods of G nesis, appears in several of his numerous works, and e-1. cially in his 'Lettres Géologiques sur l'Histoire de la Te:: taire de Géologie, 1808, which was also published in Flish; and in his 'Geological Travels in the North of Frope and in England,' 3 vols. 8vo., London, 1810. made also many observations on the atmosphere, and i... phenomena of air, heat, and light. He wrote 'Recherches sur les Modifications de l'Atmosphere, contenant l'Hist. :: critique du Baromètre et du Thermomètre, un traité sur . construction de ces instrumens, des expériences relatives leurs usages, et principalement à la mesure des hauteurs, et à a correction des réfractions moyennes ; avec figures, 2 vol. 4 Geneva, 1772. It is perhaps in this branch of experime philosophy that Deluc rendered the most positive servicephilosophy that Detuc rendered the most positive service science. He made great improvements in the barometric especially as applied to the measurement of heights. Prometree. He also wrote 'Mémoire sur un Hygron. to comparable presenté à la Societé Royale de London Among his other works may be mentioned, 'Idres sur la Mandalacia' trace a traduction à la Detuine de la Mandalacia' trace a traduction à la Detuine de la Mandalacia. Metéorologie, 1786; 'Introduction à la Physique Terrestie par les Fluides expansibles,' 1803; 'Traité Elémentaire s.r le Fluide Electro-Galvanique,' 1804.

Deluc's earnestness in availing himself of his geological observations to prove the veracity of the Mosaic harrai :involved him in controversial correspondence with seven of his contemporaries, and particularly with Dr. Tell... Berlin: 'Lettres sur le Christianisme, addressées au Dr. I ler, 1801; 'Correspondance particulière entre le Docteur I ler et J. A. Deluc, in French and German, 1803-4; and . with Professor Reimarus of Hamburg, 'Annonce d'un C rage de M. J. A. Reimarus sur la Formation du Globe, par J. A. Deluc, Hanover, 1803. But though Deluc was carnes: his religious conviction, and in supporting it by argument his spirit was far from being intolerant, as he shows in the merous passages of his works, and especially in his 'l'-cours sur la Tolérance,' in the 1st vol. of the 'Histoire de Terre et de l'Homme.' He was a great admirer of Especially. Terre et de l'Homme.' He was a great admirer of Estand wrote 'Précis de la Philosophie de Bacon, et des l' grès qu'ont fait les Sciences Naturelles par ses Preceptes : son Example, 2 vol. 8vo., Paris, 1802. He wrote ais education: Lettres sur l'Education Religieuse de l'I peared in the Journal des Scavans, Transactions Phi phiques, and other scientific journals, French, English and German. He was a member of the Royal Societies of London Dublin, and Göttingen, and correspondent of the acader. of Paris, Montpellier, &c. He was appointed in 1795 Pr. fessor of philosophy and geology in the University of Garagen. He passed several years in Germany, at Berlin, Hanover, Brunswick, &c. After the battle of Jena he reterred to England, where he period the remander of his life chieffy at Windows, where he simultantal reader to the query gave has a free seems in the mysh family, by the numbers of which on our arrob respected. He died of Windows, November, 1917, in his bird year. His brother and follow absence Guidanne Antoine Dalue died as Gremes in 1819, and infra rapheallection of mineral agreement has been increased by his sum. Andre Dalue, who is the hus of an 'Histoire do Passage des Alpeu par Annilat,'

serve in 1819, and in the analysalization of mineral egg, which has been measured by fine som. Andre Datine, who is the suddine of and 'Histories du Passago des Alpse per Annihar', Ganava, 1912.

DELEVINO, a bleas, or intrine pushalith, of European Europe, section, from the Kinnatan mountaines on the mouth east. It there are a subject of Chaesia and Theory, exclusing the greater part of the seast of Annihar Tamble, the first of the control of the contr

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In the Openial counsidered all regulations are the efficient of the Openial counsidered all regulations. The the Openial counsidered all regulations are the efficient of the Lournities of Mandylas in Digmann's Applications, and it is a principal counsiler. The manner of these has principles, from which all the other delibes agraing me, is an invention of the larer philosophica. The triest remain in Greek mythology is her intinsian counceme with Baselines, the principal country of the council of the principal council of the council of the principal council of the tries of the council of the guessians agritted with respect to the critic occuration of the Baseline ritus. It may be us will to offer here, a brain exploration of this council on all the olderent medifications of the tree worships. In the fleet phase, we may remark, that, in the Rosean mythology, as well as in the Greek, we construct that deptised deviations, under set female, and arrantimes desities of a doubtful sex. (Neubolat's Rose, vol. 6.), a found of Egg. The count Philosophy Man, vol. 1, p. 110-111.) Thus, the striped and the monotophydical sex also the more (Crostrey, Special Man, vol. 1, p. 110-111.) Thus, the striped and the more predeser (for the council of Man, vol. 1, p. 110-111.) Thus, the striped and the more predeser (for the forms worsh may remark which forms alone and movely the guiddrand the will in which forms alone and movely the guiddrand the will be will be formed to make a few alones and the will be formed which forms alone and movely the guiddrand the will be will be formed to under Baccurrs and company Company of Vergal Control of under Baccurrs and company of the postular set of the form worsh as a backer of the form of the surface of the control of the surface of the more of the control of the surface of the surface of the surface of the surface of

Phonostribus, and a scholar of Theophrostus. His confer Phonostratus, and a scholar of The ophrastus. His united years were devailed in the study of picturephy: he first he gets to take a part in militie affairs about ave n.c. (Dieg-

Last., v. 5-75.) He was condemned to death at the same time with Phocion (317 B. C.) for espousing the Macedonian party, but had the good fortune to escape by flight (Plut. Phoc. cxxxv.), and was shortly after made governor of Athena by Cassander. He maintained his authority for ten years, and, according to Strabo (p. 398), Athens was never more happy than under his government. In his administration of affairs he was so popular that 360 statues were erected in his honour; but when Demetrius Poliorcetes came to Athens (307 B. C.) and proclaimed the old democracy, he was obliged to fly a second time, and would hardly have escaped had not his enemy ensured him a safe retreat to Thebes. (Diodor. Sic. xx., 45, 46.) After the death of Cassander (296 B.C.) Demetrius retired to the court of Ptolemy Soter, king of Egypt, where he was received with great distinction, and where he probably wrote most of the numerous works attributed to him by Diogenes. (v. 5-80.) Unfortunately, however, he made an unsuccessful attempt to dissuade his patron from altering the succession to his crown in favour of his children by Berenice. When Prolemy Philadelphus came to the throne in 283 B.C. he had not forgotten the counsel which would, had it been listened to, have deprived him of his father's preference, and banished the author of it to Busiris, where he soon after died from the bite of an asp. A treatise on rhetoric, ascribed to him, has come down to us, and has been edited separately by Schneider, Altenburg, 1779.
DEMETRIUS POLIORCETES (the city-taker) was

the son of Antigonus (one of the successors of Alexander the Great) and Stratonice. He appears to have been born about the year 334, for Plutarch tells us (*Dem.* v.) he was 22 when he was defeated by Ptolemy and Seleucus at Gaza (312 B. C.). Demetrius soon wiped out the disgrace which had attended his first feat of arms by a brilliant victory which he gained over Cilles, one of the generals of Ptolemy. (Plut., Dem. vi.) In the division of Alexander's empire, which shortly followed, it was determined that Greece should be freed from the dominion of Cassander, and this duty Demetrius willingly took upon himself. Demetrius Phalereus then governed Athens as Cassander's deputy, and had obtained great popularity; but when Demetrius Poliorcetes took Munychia and offered a democratical form of government to the Athenians (307 B.C.), the disciple of Theophrastus was glad to owe a safe retreat to Thebes to the generosity of his namesake. In the following year Demetrius gained a great naval victory over Ptolemy, and conquered the isle of Cyprus, in consequence of which his father Antigonus assumed the title of king. (Plut. Dem. xvii.. xviii.) In 304 Demetrius laid siege to Rhodes, but, although he showed all the resources of his genius in inventing new and extraordinary machines for taking the city, he was unable to make himself master of it, and, after a year's siege, he formed an alliance with the Rhodians against all persons, with the exception of Ptolemy. (Plut. Dem. xxi.) Demetrius then returned to Greece, forced Cassander to raise the siege of Athens, and pursued him to Thermopylae: after this he took Sicyon by surprise, and then Corinth and Argos, where he married Deidamia, sister of Pyrrhus, king of Epirus. Cassander was willing to make peace, but Antigonus showed so little moderation that the other successors of Alexander were induced, through fear of the consequences of his ambition, to form a coalition against him. Antigonus met his enemies at Ipsus, in Phrygia, and fell in the battle. (Diod. xxi.; Plut. Dem. xxviii—xxx.) Demetrius escaped from the defeat with 9600 men to Ephesus, whence he passed over to the Cyclades, and, being excluded from Athens, sailed for the Cher-Winle he was there engaged in laying waste the lands of Lysimachus, Seleucus sent to him to demand his daughter Stratonice in marriage, a proposal to which he readily agreed. In 299 B.c. he laid siege to Athens, which was under the dominion of the tyrant Lachares. The city soon surrendered, and was treated with great kindness by the conqueror. (Plut. Dem. xxxiv.) The quarrel of Alex-ander and Antipater, the two sons of Cassander, gave him an opportunity of getting possession of Macedon, which he easily accomplished after having put to death Alexander, who had called him in to assist him against his brother. (294 B.C.) Although master of the greater part of Greece, he was eager to get possession of the whole, and attacked and took Thebes. But his popularity was now on the wane, and he was easily driven from the throne of Macedon by Pyrrhus the Epirote, in 287 B.C., whose good qualities had

become known to the subjects of Demetrius. (Plat. Demetrius.) Shortly afterwards he fell into the hands of Selencus, whose kingdom he had invaded, and was detained by him in honourable confinement till his death in 283 s.c. This celebrated man was so eminently handsome in his person that sculptors and painters always fell short of his beauty. He was much given to debauchery, and is said to have shortened his life by his excesses.



[Coin of Demetrius Poliorcetes.]

British Museum. Actual Size. Silver, Weight 900fk grains.

DEMETRIUS SOTER, king of Syria, the son of Selecticus Philopater, passed his youth at Rome as a hostage. He effected his escape, partly through the assistance afford d him by the historian Polybius, and mounted the through his ancestors about 161 s.c. He contended in value with the Maccabees, who then ruled over Judea, and died valiantly fighting against Alexander Balas about 2s.c. 150.



[Coin of Demetrius Seter.] British Museum. Actual Size. Silver. Weight 356. grains

DEMETRIUS NICATOR was the son of Soter. Having been sent to Cnidos, towards the end of his father a reign, he did not fall into the hands of the successful usurper Bala, and with the assistance of the king of Egypt, whose daughter Cleopatra he had married, soon possessed himself of his father's throne. As, however, he gave himself up, after a while, to luxury and indolence, and did not atterit to the duties of his station, his numerous enemies contrived to expel him from his kingdom, and he remained for some time in the hands of the Parthians, upon whom he had



[Coin of Demetrius Nicator.]

British Museum, Actual Size, Silver, Weight 250 grains.

ventured to make war. While still in captivity be married a daughter of Mithridates, the Parthian king; and his former wife Cleopatra formed a union with his brother Antiochus, who became king of Syria in his absence, and fell in battle with the Parthians. Phraates, before this event happened, had released Demetrius, in order that he might divide his brother's party, and he consequently regained his kingdom after the death of Antiochus. But Demetrius governed Syria no better than before his captivity. He was again expelled by another usurper, and was assassinated by the orders of his wife Cleopatra in a temple at Tyre, where he had taken refuge, R. C. 126.

DEMETRIUS of Bactria. [Bactria.]

DEMINISTRY, (Traverses) a word taken from the soft language. Her economics, disputality, remainder, and

Grank language, like aroscorney, elegoreity, researchy, and other pointed octor.

The third back of Floredotine token, 80—42) contains what we may expender as the rower of the ablest extain Grank historist on the moute and detects of the three respective forms of government as they are called denoted, almost and detects of the chromosopy, aligneday, and mouseful. It would be difficult to twinst from the observe televal to an exact deficultion of decompacy, but still we four from them and expect deficition of decompacy, but still we four from them had expected to twinstally first, complete political equality (foreign); aroundly. The observa of magnitudes by int (addy) twhich, coupled with the lipst condition, angles that public offices much be accomplished to attly thirdly responsibility as accountability as public furnitions as ideal, accounting a politic furnition and landilly to be opered from it; flurilly, the desicion by the community at large of all public matters (of fluritions where it; a second experience).

them it : Surrilly, the desicion by the community at large of all public matters (vi. Backequera waves it was accessed by public matters (vi. Backequera waves it was accessed by public matters (vi. Backequera waves) it was accessed by public to the county of the merita material extraint selectings incident in a dominant like a merita material material public public to the county of the merital material public of a democracy.

In forming a univers of a democracy as conscient by the Greeks, and public in forming any exact notion of a given democracy. It is necessary to consulter a small community such as a single town with a lattle terrinory, and to seem seeds a controurity as an independent sourcepaty. The institutions which in modern times have approached most meanly in the form of a pure democracy are some of the Swiss content. The borough of England, as existing to their supposed continuit purity by the late Monocracy, the approach of the form of a pure democracy are some of the supposed continuity purity by the late Monocracy and a pre-casion for, may being to explain the notion of a democracy, bough they are contains to the remembered that the single terms of the democracy of a later accessing successignty. Exciter, in contains an independent of the South American Union, if most be remembered that the single terms of the democracy and of a me of for democracy is a silver for the single community in analy Katina constant and constant of two great deviations, foremers and slaves, of whom the latter form no port of the political system.

It ament three communities we find two marked high-single deviations of the "many" (at weaks, 5 fapor) or "not real" foregoes, and the "many" (at weaks, 5 fapor) or "not real" foregoes, and the "many" (at weaks, 6 fapor) are not real" foregoes, and the "many" (at weaks, 6 fapor) are not real" foregoes, and the contrain world of the account of the contrains of the real of the contrains of the

Amounte felt the difficulty of deliving what a deposition, the observe a Northead, is, it that meather are dispersive a former and the selection temply with reference to a number of these composing the respective bodies; if a selectionable majority, he ways are given, and acclants the maining body of fraction, wher are passy from political has this is not a democracy. Not, or the contrary, it the set, being best should exclude the rich, being more number, much all political power, would think as a dispersity, as a supposition at the latter is improvibe in a several number of an approximation as the latter is improvibed in a several number of the rich is a supposition of the rich latter a some of the latter is a several of several to a several to a several of a several to the contract of the rich latter a some of the latter is the power of the several to be a several to the contract of the rich latter as a some of the latter and the several powers. In

the borough of Mijmsbury (Resport on Montried Corporations, vol. in p. 17), at the time of the Report, a very until standard of the paperson in time out market, was tree-possible to the interburate, may enterly composed of like any transfer without standard and at the lead marketed view of trush test-source. The their siderman, was not provided to the town, was a par-killer, and solved hills to write his paints. Each an anamakan political containing registres a new soil appropriate below.

Aviously, after source Pealintray seconds, consides by defining a thermoracy in tax, when the treatment these of milke hills, after some pealintray seconds, consides by defining a thermoracy in tax, when the treatment these of milke hills, being days, are in presenting in the according power. This definition of a disperient necessarily tradles therefore majority are excluded from participating in the according power. In might be interest, on the where hand, this is not the source of 
gelitic.

It this detines are consistent a constitution (Conserver proxity) to be useful for entrying tore effect the coli of the covereign, and constitution, when useful by the expressed cell of the majority, whatever may be the array of another constitution, when useful by the expressed cell of the majority, whatever may be the array of another consequence, but he constitution can be altered as destroyed by the consequence for the consequence for the consequence of the consequence

however a rule or law of that class, the tendency of which, where the sovereign power is possessed by the many, is to undermine and ultimately destroy the power that made it.

Experience has shown that even where the universal people are sovereign, if the political community is large and spread over a great surface, every delegation of power, however necessary, is accompanied with danger to the existence of the sovereign power. The more complicated the machinery of administration becomes, and the more numerous are the administering bodies interposed between the sovereign and the accomplishment of the object for which the sovereign delegates part of his power, the greater is the risk of those who have had power delegated to them making themselves the masters of those who have conferred the power. In a democracy the great problem must be to preserve unimpaired and undisputed the vital principle of the sovereign power being in all and in every individual, and to combine with this such a system of delegated powers as shall in their operation always recognize that principle to which they owe their existence.

Of all the forms of government only two seem capable of exact definition, monarchy and democracy, and those two only seem to rest on any clear and intelligible principle. Forms of government which lie between these two have received the various names of aristocracies, oligarchies, &c., but no one has yet succeeded in explaining what an aristocracy is, or to what portion of a community political

power must be limited in order to constitute an oligarchy. DEMO'CRITUS was born at Abdera in Thrace, or, according to some, as we learn from Diogenes Laertius (ix. 34), at Miletus, in the year 460 B.C. He was thus 40 years younger than Anaxagoras, and eight years younger than Socrates. He received his first lessons in astrology and theology from some Magi, who had been left with his father by Xerxes when passing through Abdera to the invasion of Greece; and he is said to have been afterwards a hearer of Leucippus and Anaxagoras. That he heard Anaxagoras is doubtful, but, if he did, it must have been while Anaxagoras was at Lampsacus; for when this philosopher was banished from Athens (450 B.c.) Democritus was only ten years old. Democritus appears to have been a great traveller. He is said to have visited Egypt, that he might learn geometry from the Egyptian priests; to have been in Persis, and with the Gymnosophists in India, and to have penetrated into Ethiopia. He sojourned for some time at Athens; but from contempt of notoriety, as it is said, was known to nobody in that city. It is for this reason that Demetrius Phalereus, as cited by Diogenes Laertius (ix. 37), contended that Democritus had never visited Athens. One result of his extensive travels was, that he expended all his patrimony, which is said to have exceeded 100 talents. Now, it was a law of his country, that any one who spent his whole patrimony should be refused burial in his native land; but Democritus, having read his chief work aloud to his fellowcitizens, so impressed them with an admiration of his learning, that he not merely obtained a special exemption from the above law, but was presented with 500 talents, and was, on his death, buried at the public expense. (Diog. Laert. IX. 39.) A story substantially the same, though varying somewhat in detail, is given in Athæneus (iv. p. 198). He is said to have continued travelling till he was 80 years old. He died in the year 357 B.C. at the age of 104. There is a story of his having protected his life for these others. story of his having protracted his life for three days after death seemed inevitable, by means of the smell of either bread or honey, and in order to gratify his sister, who, had he died when first he seemed likely to die, would have been prevented from attending a festival of Ceres. (Diog. Laert. ix. 43; Athen. ii. 7.)

Democritus loved solitude, and was wholly wrapt up in study. There are several anecdotes illustrative of his devotion to knowledge, and his disregard of everything else. They conflict somewhat with one another in their details; but accuracy of detail is not to be looked for, and, tending all to the same point, they prove, which is all that we can expect to know, what character was traditionally assigned to Democritus. Cicero (de Fin. v. 29) speaks of him as, like Anaxagoras, leaving his lands uncultivated, in his undivided care for learning; while, as an instance of how these stories conflict, Diogenes Lacrtius represents him as having, on the division of the paternal estate with his two brothers, taken his own share entirely in money, as being more convenient

being only a rule or law fixed by the sovereign. It is | than land for a traveller. Valerius Maximus (viii. 7) makes him show his contempt for worldly things by giving almost the whole of his patrimony to his country. He is said too to have put out his eyes, that he might not be diverted from thought; but Plutarch (de Curiositate, p. 521, C) rejects this story, and explains how it might have arisen. It Democritus who, struck with the ingenuity displayed by Protagoras in the tying up of a bundle, raised him from the humble condition of a porter, and gained him for philosophy.

Democritus followed Leucippus at a very short distance of time, and preceded Epicurus by somewhat less than a century, as an expounder of the atomic or corpuscular philosophy. [Atom.] He viewed all matter as reducible to particles, which are themselves indivisible (hence called atoms). and which are similar in form. He included mind under the head of matter, recognizing only matter and empty space as composing the universe, and viewed mind as consisting of round atoms of fire. (Aristot. de Anim. 1, 2.) Arguing that nothing could arise out of nothing, and also that nothing could utterly perish and become nothing, he contended for the eternity of the universe, and thus dispensed with a creator. He further explained the difference in material substances (mind, as has been said, being one of them) by a difference in the nature and arrangement of their component atoms, and all material (including mental) phenomena by different motions, progressive or regressive. straight or circular, taking place among these atoms and taking place of necessity. Thus the cosmology of Demotaking place of necessity. The critus was essentially atheistic.

In psychology he explained sensation, as did Epicurus after him, by supposing particles, είδωλα, as he called them, or sensible images, to issue from bodies. He also thought to explain men's belief in gods by the supposed existence of large images of human form in the air. In moral pholosophy he announced nothing more than that a cheerful state of mind (εὐεστώ, εὐθυμία) was the one thing to be sought after. The manner in which the follies of men affected him, and from which he derived his name of the laughing philosopher, is well known. (Juv. x. 33—55.)

A list of the very numerous writings of Democratus as

contained in Diogenes Laertius (ix. 46-49). They are arranged under the five principal heads of ethics, physics. mathematics, general literature, and arts; and there are besides a few of miscellaneous character. The list, classified in the same manner, and enriched with critical remark. is given in Fabricius (Bibliotheca Græca, ed. Harles, vol. ii. p. 634-641). The reader will see in this work a list of the writings wrongly attributed to Democritus, and state-ments of the grounds on which they are severally pro-nounced spurious; among them are the writings on ma-gic which are spoken of by Pliny (*Hist. Nat.* xxx. 1), and

gic which are spoken of by Pliny (Hist. Nat. xxx. 1), and considered by him as genuine.

For an account of the philosophy of Democritus the reader is referred to Hill, 'De Philosophia Epicurea, Democritea et Theophrastea,' Genev., 1669; Ploucquet, 'De Placitis Democriti Abderitæ,' Tübing. 1767; Cudworth', 'Intellectual System,' chap. i.; and to the common histories of philosophy; and for general information concerning hilife to Bayle's 'Dictionary,' and Fabricius' 'Bibliotheca Græca,' ed. Harles. vol. ii. p. 628.

DEMOISELLE. (Zoology.) [GRUIDÆ.]

DEMOIVRE, ABRAHAM, was born at Vitry in Champagne, on the 26th of May, 1667, and was descended of an antient and honourable family of the French Protestant church. The revocation of the edict of Nantes in 1685

church. The revocation of the edict of Nantes in 1683 compelled him to leave his native country, and, like a great number of the refugees created by that revocation, he settled in England, choosing for the field of his efforts the metropolis.

He appears at the earliest period to which any account of him reaches to have devoted himself to teaching mathematics, as the surest means of obtaining a subsistence. He also, though he was not the first who adopted that plan. read lectures on natural philosophy: but it does not ap pear that his attempts in this way were very successful. he being neither fluent in the use of the English language, nor a good experimental manipulator.

The popularity, as a book to be talked about, of Newton's great work, compelled Demoivre to enter upon the study of it; and there is no doubt that he was one of the few who at that time were able to follow the illustrious Newton in the course of his investigations. Demoivre's

memorant and impostibility, se precedity his being nermonant and 10 pares in checke on the tried clause of Boliniii and Newton 6. He invasion of the inclined and influence.

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power, however, for in pure mathematics of the kind now added anxiety in it pure mathematics is the same of the willings there is assembly a trace within all places of parameters of investigation to be investigated at geometrical investigation to be investigated at parameters of investigation and then it is a normal matter of tragonometrical example by danging for whole character of tragonometrical example by danging for whole distributions which have reached our own lime. The original forms which have reached our own lime. The original forms which have reached our own lime. The original forms which have reached our own lime. The original forms which have reached our own lime. The original forms which have reached our own lime. The original forms which have reached our own lime. The original specific parametric in parametri

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Demonstration now means only that process by which a result is shown to be a necessary consequence of the pre-mises from which it is asserted to follow, on the supposition that those premises are admitted, either as matter of fact, or of intuitive evidence, or of previous demonstration. Thus the 47th proposition of the first book of Euclid demonstrates a certain property of a right-angled triangle, on the supposition—1, that all the preceding propositions are true; 2, that the axioms used in geometry, whether expressed or implied, are true also. It makes the consequence as certain as the premises, by means of the indubitable character of the connecting process. This strict use of the term demonstration belongs to the science of logic, which is the art of demonstrating from premises, without reference to the truth or falsehood of the premises themselves. But in common life the word demonstration means any

sort of reasoning which the party using the term chooses to call proof. 'I consider it as demonstrated,' means the same thing as 'evidence has been offered which makes it so probable to me that I am willing to act upon that evidence.'
Most minds have no idea of a middle state; they either
absolutely receive or absolutely reject: so that in fact demonstration comes with any degree of balance of evidence on one side or the other. It is easy to admit that in com-mon life high probability is the ground of assent, and that it never can be otherwise: but there is mischief in the use of the same term both for logical inference and for its mixture with matters of guess or feeling, or unassisted perception. The logician might consent to abandon the word demonstration for popular use, and to adopt another: but it would result, that the new word, whatever it might be, would immediately be seized by those who confound what is commonly called argument with what is actually de-Whatever may be the strongest term in use, it will be adopted by strong assertors: nor will he who has shown probable reason, however great, for the adoption of a result of argument, be satisfied unless his conclusion be received as *certain*. What we have here said refers enreceived as certain. What we have here said refers entirely to the use of the word demonstration: the fallacy to be feared is the placing in the result of it, in one sense, the degree of confidence which is only obtained by confounding that sense with another. Two parties, both convinced that a conclusion has a high degree of evidence, dispute whether the evidence amounts to demonstration. To settle this point, they sift the evidence most minutely, and perhaps entirely forget to inquire whether they mean the same

thing by the word demonstration.

DEMONSTRATIONS, in military affairs, are operations of any kind which may be performed for the purpose of deceiving the enemy respecting the measures which it is

intended to employ against him.

They consist in displaying an apparent activity in forming or repairing a road, or in sending provisions or stores to a particular place, as if preparatory to a march of troops in that direction; in marking out ground as if for an encampment; and in detaching bodies of troops to make false attacks. Such demonstrations are made chiefly with a view of inducing an enemy to divide his forces, and thus weeken his line at points against which the real waveyears.

weaken his line at points against which the real movement or attack is intended to be directed.

In order to succeed, however, in these demonstrations, they should be made with great precaution, that they may have every appearance of indicating a serious enterprise: even the troops who are to execute them should be un-acquainted with the object in view, lest a deficiency of energy should betray the secret to the enemy, who must be supposed to be on his guard against such attempts, and who may consequently take measures to render them

DEMO'SI riENES was born probably about B.C. 384, Ol 99. 1. He was the son of Demosthenes, an Athenian citizen of the demus Pæania, who carried on the trades of cutler and cabinet-maker, and of Cleobule, the daughter of Gylon. This Gylon, who had been governor of Nymphæun, an Athenian settlement in the Tauric Chersonesus, betrayed it to the Scythians, and, afterwards taking refuge with their chief, married a Scythian woman, who was the maternal grandmother of Demosthenes. This impurity of blood and the misconduct of Gylon, his maternal grandfather, formed a theme for the taunts of Aschines. (Oration against Clesiphon.) There is a well-known allusion in Juvenal to the trade of Demosthenes the elder (x. 130):

Quem pater ardentis mesas fuligine lippu A carbone et forcipibus gladiosque parasi fucude et luteo Vulcano ad rhetora misit."

The point of the satirist is however somewhat lost, when we remember that Plutarch applies to the father a term (καλοκο'γάθος) which expresses all that can be said to the advantage of a man, and that he had two manufactora-(lργαστήρια) containing on the whole more than 50 ala... (Creuzer, View of Slavery in Rome, note 40, and the Or.

tions of Demosthenes against Aphobus.)
Demosthenes the elder died when his son was seven jerr-Demosthenes the elder died when his son was seven yearold, leaving him and a sister, younger than himself, to it
care of three guardians, Aphobus and Demophon, his fircousins, and Therippides, a friend. The property left by his
amounted to 15 talents, above 3000l. in specie, taking with
as the standard. The guardians, however, as we learn from
Demosthenes himself, disregarded all his father's injunctions, and, while they neglected to improve the property
which they were trustees, embezzled nearly the whole of
(Orations against Aphobus.) Plutarch states that they aldenrived Demosthenes of proper masters. He himself, hudeprived Demosthenes of proper masters. He himself, hidever, in a passage where it is his object to magnify all the concerns his own history, boasts of the fitting education which he had received. (Orat. on the Crown, p. 312.) His said to have studied philosophy under Plato, and to have been a pupil of Kubulides of Miletus.

Having heard Callistratus plead on one occasion, he wifired by that orator's success with ambition to become as orator himself, and he accordingly received instructions :: the rhetorical art from Isseus. Cicero (De Oratore ii. 1mentions Demosthenes as one of those who came forth fre !. the school of Isocrates: Plutarch, on the other hand, evpressly states that he was not a pupil of Isocrates, and gueout of his way to invent reasons why Demosthenes should have preferred the instructions of Isseus. We assume how ever that Isseus was his principal instructor, in accordance with the testimony of the various biographers. (Libenius, Zosimus.) We are told that many suspected the speeches against his guardians to have been written, while others said that they were corrected, by Isseus, partly because Demosthenes was so young when they were delivered, and partly because they bore marks of the style of Issus. Ilis said to have taken lessons in action from Aristonicus, a

player.

The physical disadvantages under which Demosthenes L. boured are well known, and the manner in which he surmounted them is often quoted as an example to encourage others to persevere. It should be observed, however, that the authority for some of these stories is but small, and that they rest on the assertions of writers of late date. II. was naturally of a weak constitution: he had a feeble vote. an indistinct articulation, and a shortness of breath. Firding that these defects impaired the effect of his speeches, he set resolutely to work to overcome them. The meanwhich he is said to have taken to remedy these defects he very like the inventions of some writer of the rheton .. school, though Plutarch (Demosth. z.) quotes Demetrics the Phalerian as saying that he had from the orator's own mouth what Plutarch has stated in the chapter just referre. to. Among these means we hear of climbing up hills with pebbles in his mouth, declaiming on the sea shore, or with sword hung so as to strike his shoulder when he made as uncouth gesture. He is also said to have shut himself ::at times in a cave under ground for study's sake. and ti: . for months together.

Having been emancipated from his guardians, after a minority of ten years, he commenced a prosecution against them to recover his property. Estimating his lowers at 30 talents (inclusive of ten years' interest), he sucd Aphobus for one-third part, and gained his cause, without however succeeding in obtaining more than a small part of he money. This took place B.C. 364, when he was in his ever, or, as he says himself (Mid. 539, § 23), when he was quite a boy; but the extantorations against his guardians a-evidently not the work of a youth of that age, as a caret. perusal of these orations will clearly show. He sub-equently adopted the profession of writing and delivering. a hired advocate, speeches for persons engaged in private and public causes—a practice which was now generalic adopted by the Greek orators, and was attended with siderable profit. His first speech on a public occasion was made in 355 B.C., in which year he wrote the speech

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Of his agreement relating to public temesons, there are bree which horses direct heaving in his personnic history; he special against Mullie, that consecution Matteriorism is the Embreony, and that in habital of Clesciplians or as it is minimally called, the 'Dynama and the Embre.' The worsest are briefly not set and at the exterior is before 1/Estational. White reference is the next at the initial he presented that, in the resemble of Dioregue, and that, drings the posterioraneous at the Dioregue, and that, drings the posterioraneous at the Dioregue, after that, drings the posterioraneous at the Dioregue, and in a Dioregue is three to be not a realizable of the constant and arrange to be not for a security the posterioraneous of what one respected as a religious at the performance of what one resourced as a religious time, and thus Mullian was unvalved in a presentation for sometime. However, then the performance of what one resourced as a religious strategy and them. Mullian was unvalved in a presentation for sometime, and presentation as all presentation as all presents and presents of the secondary that remains, and presents of the top the dynamerous, which is was delibered as a 194. A the world the precent of the presents of the secondary to applicate that state of pattern as the size.

Affinish ten years provious to this cristian the power of parts had been broken by Tholias, who in her turn sank to montrolly after the death of her great grooted Epameraka in the hattle of Maintines, a.c. 32 (three years after to their Philip of Maccolin began his reign. His first step, by depositing two other chainsants to the throne and complising the Passinana and Hlyrians to submission, was to so himself of accord Greek edeates to the south of the bonds, and to interfece in a var of succession then guing in Thomas, and to interfece in a var of succession then guing in Thomas. Attanta, not yet recovered from the effects the Polaporinesian war, had been engaged from 357 to be not in a correctly her allies. Rhodes, Chies, Cos, and yearnam, which ended had held thom, about a year before the descript of the oration on the Symmonium. There were, a such two party was not antisyourable to his design, either maint want of success, or from believing that they would be greatly was not antisyourable to his design, either county was not antisyourable to his design either remain want of success, or from believing that they would be weather that to which by a proflight penetral named there and was that to which Demonstrates was afterwards to be a succession of the standard was that to which Demonstrates was afterwards to be a success and was that to which Demonstrates was afterwards to be a success to the standard was that to which Demonstrates was afterwards to be a succession of the standard was that to which Demonstrates was afterwards to be a succession of the standard was that to which Demonstrates was afterwards to be a success to the success of the standard was that to which Demonstrates was afterwards to be a success of the success o

Pathops the most important event of the time was the remainment by the selecter and been a dispute as to be the first temple of Apollo at light by the Physicana. There had been a dispute as to correct and, which had borg belonged to Phoch, and the sphintyness sourced asserting their claim, Philometry of the temple, and its treasures were freely at in the war, which continued this 3-ac. It was through a war that Philip contrived to identify he interest with a of the Amphicityon at large, and at last to be giveted at leaser, and house on most potentify consider the along parties in the strungle between Philip and Dometries to have been the Amphicityoner states and Maconic in the one acto, against Athense and occasionally Provide the along paths we must remember that in Theles, the many of Amphicityoner was a strong party sund Philip, as to Athense there was one equally strong late.

The street of the second street was the squary street on a like Symmetric, clock in part rate as to a question a house, but more particularly is a scheme then on feet or colony Circles with an arrangent substantial a page of the Personal a page of allerly propositions, as Athana had been sential the remarks of Athana had been ground against the reflectory scheme and subject stans, without argaining in allow anisotrations and subject stans, without argaining in allow anisotrations with success, and thus many be considered the contract of the strength with Philips for the Macrolinana area would have spaced be any loss which Athana might posterio. At our a year after, Philips becaute that in Philips of the Sacral War, as that in Philips in the affiness of the Sacral War, as that in Philips in the school of the Sacral War, as that in Philips in the school of the Sacral War, as that in Philips in the school of the Sacral War, as that in Philips of the sacral war, as that in Philips in the school of the Sacral War, as that in Philips in the school of the Sacral War, as that in Philips in the school of the Sacral War, as that in Philips in the sacral war, as the sacral war, and sacral war, as the sacral war, as the sacral war, as the sacral war, and sacral war, as the sacral war, princed Charles, and saltered the form painting the sacral war, princed Charles, and saltered the form painting the sacral war, princed Charles, and saltered the form painting the sacral war.

The nestive of this superent shangs of opinion is evident; on the former or second, he now that nor would have been the dispersion of strength which was needled for a money alreagie; may, he saw that the time for that strenggle was come, and know that, to be effectual, Athens must direct it. (Corolless on the Process, p. 240.) But Atlants, however powerful when custed, had but much of that survit of individual insver; when observed had but much of the loss thank of the little of individual tower, when observed after the produced had been never to the little of the survit of the former when it was a fill Pullip had defented for excitingues the Thursen, when it was to individual to producing the desired after the Treat, that they considered the machines to support as his treat the following them.

Then we are had done by sensing successive expeditions in Olyethes, a marking town uses the atlants of Pallium, and by an invasi into flucture, and treat the interest of his former step was however the more important as Olyethus was a place of arough, and was looked in that plaint. The former step was however the more important as Olyethus was a place of arough, and was looked in with fact make although will among a supplied with arms and trem, it required the descention of the range, apparent with Philip, and although will among a supplied with arms and trem, it required the secondaries of Athensity soldiers. To provide for those expeditions, Demasthenes, in his Olyethiae contines, advised the application of the range, apparent by Philip, and although will among a supplied with a substance, and the discrimination which make a major proposed by Philip.

The split because of the public festively, and in so doing was appared by Philips, in a difficult and growth made in a split second. And the discrimination which mide him that the time and operation is the spring of all a c., and we may be retempt to be accounted for by the fact, which Mainer analogues and eight or nice others, went on an onlocacy to Pallipp, in

only to be accounted for by the fact, which Munical nations, of the decline in personal bravery in a nation long used to conquest.

Early in the successful year Demontherous, with Alechines, and eight or nine others, with on an embrasy to Philipy in treat of peace. According to Alechines, he calabored great want of self-possession on this occasion. If this were the case, it is carely not too much to attribute it to a consciousness that he had departed through four of present danger from his one great object of uppartion to Philipy, who, even during the settlement of productions in Philipy, who, even during the settlement of productions, mixed on several. Threaten towns. The motive which upper Demosthopes to agree to a peace is probably that sudmed by Schaumanin tose also Demosth. Oral. on the Powers, that the means of resistance were too small to allow any hope that Athana above rould use them offsetually. Be that as it may, Demostheness never also handless in affects, and in All as c. we find him account Machines in malversation in the farmer embress, and actual to counterest Philip's influence in Ambraua and Pelaponnesus. Since the consistent of the Phorian wer in Jan a.c., this influence appears in laye uncreased, as well by the weakening of Sparin and Tholes, as by his acquisition of two roles in the Amphiciposic council; heards the renewal castrey of Demosthenes and the graphs of protecting the Athenian countrade. (Oral on the Cream)

About this time too Demonthanes because in a sure decided against the leader of the party, in the room of Charres, and for the party two years amplayed hunself in supporting and afforagthening the anti-Massadenian party in Greene. His principal invasiones were in emboury to the Perstans; the attempthening of the alliance with Byzantrum and Portitions for the purpose of forming alkaness; and the reliangualment by Athena of all alian on Robors, in which Placeson concurred.

The strongle new bagun. Philip laid sugge to Perinthus, in Molymbras, and after words to Byzantrum, and fitted out a thest. At this juncture, Demonthanes delivered his fourth Philippie, to which, armong attest things, he resummended the restoration of the feativelymance is its

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original use, alleging the scruples felt by some concerning its application to military purposes, and the increase in revenue which rendered that application no longer necessary. In 339 s. c. the siege of Byzantium and Perinthus was raised, and a short peace ensued; but in the succeeding spring Philip was chosen Amphictyonic general. The object of Demosthenes was now somewhat changed. Before, he had to oppose a foreign influence which sought to insinuate itself into the affairs of the Grecian States; now that wish had been gained, and his business became that of arranging party against party in the different sections of the same nation.

From this time to the battle of Chæronea he was engaged in negotiations to detach different states from the Amphictyonic alliance. At Thebes he was completely successful: a strict alliance was concluded between Thebes and Athens, and Demosthenes became almost as much the minister of the one state as of the other. He defeated all the counter efforts of Python, Philip's agent, and procured the preparation of an army and fleet to act against Philip, who had seized and fortified Elatea, a principal town in Phocis. But his hopes were again destroyed at the battle of Cheronea, in the summer of 338 B.C., and Philip remained apparently master of the destinies of Greece; perhaps not unaided in the conflict by a superstition which considered his cause as in some sort identified with that of Apollo, the Delphian god. Under these circumstances, the party of Phocion made some faint attempt at action; but Philip, with his usual remarkable policy, forestalled them by releasing his Athenian prisoners and using his victory with the greatest moderation.

Demosthenes joined in the flight from Chæronea, not without some disgrace, and does not again appear till the funeral ceremony for those who fell, when he pronounced the customary oration (which, however, has been decided not to be that which goes under this name), and resumed his place at the head of the government. He became victual-provider for the city, superintended the repairs of the fortifications, and was proceeding with his usual vigour in prosecuting his political schemes, when news came that Philip had been assassinated, July, 336 B. c. The conduct of Demosthenes on this occasion, as reported by Plutarch and Rischines, has sometimes furnished a subject for strong animadversion. He is said to have appeared in a white robe, although his daughter was just dead; and he or his friends proposed honours to the memory of the assassin of Philip. As to the first of these charges, it may be said in his defence, that it only indicates how completely devoted he was to the cause of his country, even to the exclusion, in

a great degree, of private affections.

Mitford has devoted a section to anecdotes of his favourite character, Philip, whose merits no admirer of De-mosthenes would wish to depreciate, the chief glory of the great Athenian orator and statesman being, that he made head so successfully against such an opponent. It is the habit of party writers to ascribe unbounded virtues or to withhold all kind of praise, with equal want of reason. The history of the times of Philip and Demosthenes, by Mitford is one of the strongest examples of this habit that

we can refer to.

On the accession of Alexander, Demosthenes persevered in his decided opposition to Macedon. Alexander's first employment, after his election as stateholder by the Amphictyonic league, was to quell an insurrection in the northern and western provinces of Macedonia. While he was absent, a report of his death was spread at Thebes, which revolted from the confederacy. Demosthenes (Plutarch) fanned the flame of this insurrection, and, on Alexander's sudden appearance before Thebes, Demosthenes was appointed to confer with him; but he went only to the borders of Attica. As Alexander demanded his person immediately after the destruction of Thebes, together with nine other Athenians, on the pretext of trying them as traitors, it is most probable that, when he was sent on the mission to Thebes, he had reason to fear some act of violence if he put himself in the power of Macedon. Demades, a man as high in point of intellect as he was debased in morals, was the negotiator in his place,

not seem to implicate Demosthenes in any such charge >= meanness as Mitford has made against him. (xliv., § 3.)

During Alexander's Persian expedition, Demostheres had to sustain an attack from his old rival Æschines. Holdefended himself from the charges brought against hold [Æschines] in the oration called that 'On the Crown. But we hear little of him as a public man. He probationsidered that, at a time when the chief enemy of the liberties of Greece was employed in schemes most like'; conduce to her welfare, from the ruinous effect they pr mised to produce on the strength of Macedonia, any msures likely to recall Alexander from Asia would only: the means of binding still faster those chains which at t\_

been his own constant aim to loosen.

The only affair of moment in which Demosthenes was this time engaged was occasioned by the treachery Harpalus, one of Alexander's generals, who had been be governor of Babylon when Alexander proceeded on lindian expedition. Harpalus, having grossly abused trust, fled to Europe on the return of Alexander, accidents panied by 6000 Greek soldiers. He came to Athens 2- 4 suppliant, and engaged the orators to support him but Demosthenes espoused his cause with readiness, he at last concurred, not without suspicion of brite. (Plutarch.) The Athenians, however, refused to listen his proposal of organizing a movement against Alexand :. and prosecuted Demosthenes for recommending measure not for the good of the state. He was fined 50 tabus by the Areopagus, and, being unable or unwilling to this sum, retired to Ægina and Træzene, where he remains from 324 B.C. till the death of Alexander, which occur in the following year. Immediately on the news of the event, he renewed his opposition to Macedon, even before his recall, which Plutarch says was owing to this conduct

During the Lamian war he presided at Athens, and w. Antipater defeated the confederate Greeks, and marcupon the city, Demosthenes, as the prime mover of the err federacy, judged it prudent to withdraw to Calauria, a hisisland opposite Træzene, where he took refuge in a tempir oscidon. Macedonian messengers were sent to persua him to accompany them to Antipater, but he resisted a their entreaties. Plutarch, from whom this account taken, says, that he retired into the inner part of the tenunder pretence of writing a letter, and while there to poison, and died before he could get out of the temple. Another and much more probable account, which Plumer and much more probable account, which Plumer are the part of the part o also gives as coming from one of Demosthenes' friends.
that 'by the singular favour and providence of the god's
was thus rescued from the barbarous cruelty of the M:donians;' in other words, that he died of some sudden tack brought on by the anxiety and disappointments of the

last few weeks of his life.

Demosthenes seems to have been actuated all through his political life by the strongest passion to promote the terests of his native state; and if he only delayed the fare terests of his native state; and if he only delayed the fair his country, he did what no one else seems to have tempted. It is the highest praise of his prudence and firsight that all his political predictions were verified: a. distinctly foresaw, it was the influence of Macedon, and reinternal dissension, which destroyed the sovereign and dependent political communities of Greece. Those we expect to find in his style of oratory the fervid and impairing of a man carried away he his feeling. sioned language of a man carried away by his feeling the prejudice of his judgment, will be disappointed. Iisaid not to have been a ready speaker, and to have require preparation. All his orations bear the marks of an cf to convince the understanding rather than to work on the passions of his hearers. And this is the highest preparation may be persuaded by splendid imagery, well-characteristics. words, and appeals to their passions; but to convince a calm and clear address, when the speaker has no un: advantages of person or of manner, and calls to his a none of the tricks of rhetoric,—this is what Circero calls oratory of Demosthenes, the ideal model of true eloque a (Orat. c. 7.) Most of the speeches of Demosthenes political affairs, as we now possess them, are laboured conpositions, which have evidently been frequently correcte by the author before he brought them into that state as he was deceased in morals, was the negotiator in his place, and by some means or other contrived to save Demosthenes. If, as Plutarch relates (Life of Phocion), a bribe was given to Demades to persuade him to exertion in behalf of Demosthenes, it only reflects shame on the receiver, and does

issued very personal produces the select, and in the wells of the values of the presence to a selection of the large and presence to a selection of the selection of Beamestherson of the selection of Beamestherson of the selection of Beamestherson of the selection of the selecti

the first every period product is office, and in the well of institute of the five course and five courses and five course and



DEMOUSTIER. CHARLES ALIGHT, a French writer, born at Villers-Cotterns in they are 1700. He reasons moved on he father's side with the family of Ravine. The work which shielly beought him into unites was his Lotton a Emilies sur la Mythalogie. These letters are written in a pleasing style, and attained that popularity which a mouthy awarded to warris on learned subjects, when written in a pleasing style, and attained that popularity which is mouthly awarded to warris on learned subjects, when written in a pleasing style, and attained that popularity which is mouthly awarded to warris on learned subjects, when written in a pleasing style more of applause, and the consequence was, that when this had subsoled, a re-action inch place, and the work was consured with too much severity. He other works are chiefly theatrical; of these 'Le Concellation,' a commely in verse, was one of the best and mean successful; there is not much humour in it, and servedly only deligous tion of character, but the plot is excellently constructed, the incidents are arching and uncommon, and the author has acquired himself well of the difficult took of expressing menal sentiments, without being reawhord. An anecdote is rold at Demonster which proves his excellently qualitation, and the author has acquired the gentlement beside him to loud him a helicer and of the author's connection, fell by no means actioned, and requested the gentlement beside him to loud him a helicer way the allow of the author's connection, fell by no means actioned and requested the gentlement beside him to loud him a helicer way the place of his lattle in 1901.

DEMOULENT'S are made and agents which have the property of protection of order to make a fine lattle in the first and have a content of the first took of the heart have to which we are shell writed as distance, or from its vaccing the hand actual in a chiefe by which of an heart work is unable of the actual results of the contents are with a content of the chief benefit results from the bland actual or whic

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stances mechanically diffused through water or milk, such as wax, spermaceti, or suct. Their beneficial effects are preatest over the mucous surfaces with which they come into immediate contact, such as the throat, stomach, and intestinal canal, but by sympathy their soothing action intestinal canal, but by sympathy their soothing action would appear to be extended to the mucous surfaces of the lungs, and of the urino-genital organs. Mucilaginous substances, such as gum, are not easily digested, unless some bitter or astringent principle be taken along with them; so hat demulcents pass along the intestinal canal, shielding it from irritating substances throughout its entire length, though less effectually as they proceed, and become mingled with they various secretions in their passage. They thus with the various secretions in their passage. They thus afford considerable protection to the inner coat of the stomach and intestinal canal against poisonous agents, and for this purpose, milk, gruel, or oil, are frequently employed, though devoid of any power to disarm the substance che-

mically of its virulence.

DEMURRAGE, the term used in commerce to denote the money payable to the owner of a ship on the part of the shippers or consignees of goods, as compensation for deten-tion beyond the time stipulated for her loading or discharge, as the same is expressed in the charter-party or bills of lading. It is usual to insert in all charter-parties the number of working days allowed for the loading of the ship, and also for her unloading, and likewise the sum *per diem* which may be claimed for delay beyond those periods in either case, in addition to the stipulated freight. Sometimes the number of working days for loading and unloading are stated together, so that any delay in the one case may be compensated by greater speed in the other. When the owners of the ship enter her outwards for any port, to receive such goods as may offer, and consequently where no charter-party exists, there is no stipulation for demurrage in the part of loading, but in this case it is common to in-sert on the face of the bill of lading a statement of the num-ber of days after her arrival at her destined port in which time the goods must be taken from on board the ship, and also the rate of demurrage chargeable daily for any exceed that time. No claim for demurrage can be set up where a ship is detained by contrary winds or stress of weather, nor where the government interferes to lay an embargo, nor where the port is blockaded by a hostile force, but the claim on the part of the ship ceases so soon as the goods are shipped and the clearances are passed at the Custom-house.

DEMURRER (demorari, to stay) is that pleading by which a question of law is raised between the parties to a suit; the party demurring refuses to proceed with the pleadings towards an issue, and requires the judgment of the court whether, upon his opponent's own showing, sufficient statement has been made to sustain the suit. A demurrer therefore admits the truth of the opponent's allega-

nus Magnus

tions. (Stephen; Co. Litt.)

DEMUS. [ATTICA.]

DENA'RIUS, a Roman com of silver, so called from containing ten asses. It answered to the Attic drachma. After the first Punic war, the denarius became the representative of sixteen asses, and though Augustus reduced it as low as the time of Gallienus. Pinkerton says it was worth eight-pence of our money. It was the chief silver coin in Rome for 600 years, down to the time of Constantine I.

The earliest denarii are those which have the helmeted head of Rome, the Dioscuri, or the head of Jupiter, upon their obverse. Many of them had chariots, bigæ, or quadrigæ, represented on their reverses; such coins were called bigati and quadrigati. The half of the denarius was called quinarius, as containing five asses; the quarter, sestertius as money semistertius, containing two asses and a half.

Many of the family Denarii, as those of the Ælian, Æmilian, Calpurnian, Didian, Fulvian, Papinian, Tullian, and numerous other families, were marked on the obverse with the numeral x; others of the same and other family coins have the x crossed by an upright or horizontal bar, sometimes taken for a star or asterisk, but clearly intended to designate the value. The denarii which went for sixteen asses sometimes continued to be marked with x, and sometimes had the numerals xvi. Akerman, in his Descriptive Catalogue of rare and unedited Roman Coins, 8vo., Lond., 1834, vol. i., p. 15-19, has given the actual weight of the narii in Troy grains, from Pompeius Magnus to

The denarti æris or ærsi, of copper, began with the Emperor Valerian, and were at first washed with silter Pinkerton thinks they came in the place of the sestering and that six of them went to the silver denarius, as ax the later sestertii did.

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The word denarius was also applied to the ordinary g coin of Rome, the aureus, in the same manner as English writers speak of the gold penny of Henry III.

Aurei denarii are mentioned by Petronius. The denar aureus was equivalent to 30 silver denarii. The half-aure in the same manner, was termed quinarius. (Mor-Thesaur. Famil. Roman.; Greave's Disc. of the Rom. : Foot and Denarius, 8vo. Lond., 1647; Pitisci Lexi-Antiq. Gr. et Rom., tom. i., pp. 646, 647; Rasche's Lexi-Universe Rei Numariæ, vol. ii., p. i., p. 138; Pinkerte. Essay on Medals, vol. i.)

man Denarii





Weight 60 fa grains. British Museum. Actual Size.





British Museum. Actual Size. Silver. Weight 504 grame.

DENBIGH. [DENBIGHSHIRE.]
DENBIGHSHIRE, a county of North Wales, of circular form. It is bounded on the north by the I Sea; on the north-east by the county of Flint; on the Sea; on the north-east by the county of finit; on the by that of Chester, from which it is separated by the I con the south-east by a detached part of Flintshire, and Shropshire, from both which it is also separated by Dee; on the south by Montgomeryshire; on the south who Merionethshire; and on the west by Caernaryonshire makes the county is included between Salop and Mentgomeryshire. Its greatest length is from north is Montgomeryshire. Its greatest length is from north-n. (Llan Drillo Rhôs, near Little Orme's Head) to south-(Llan Gedwyn, on the river Tanat), 41 miles; its gre-breadth from the extremity of the county near Eaton H (which is in Cheshire), to the source of the Rhaiadr, w flows into the Tanat, about 29 miles. The area of the comis about 633 square miles, and the population in 1831 = \_ 83,629, giving 132 persons to a square mile. Denbugh, t. county town, is on a stream which flows into the Clayd is about 180 miles from London, in a direct line north203 miles by the road through Birmingham, Walsall. N port, Whitchurch, Wrexham, and from thence to Dente. either by Ruthin or Mold; 205 miles by the parliament Holyhead road to Llan Gollen, and from thence by Ru:

to Denbigh; or 209 miles by Shrewsbury, Ellesn. Wrexham, and Mold. Surface, Hydrography, and Communications.—The H raethog hills, which occupy the western side of the contowards Caernarvonshire, extend from the north-weektremity of Denbighsbire, near Little Orme's Head. SSE. direction, skirting the valley of the Conwy, to w they present their steepest side; on the east side so ridges of hills varying in length from five to nine or miles, run out laterally from the principal range. Thiraethog hills, with these lateral branches, form one the most extensive and dreary wastes in the principal.to Wales, stretching in length from 25 to 30 miles, from neighbourhood of Little Orme's head to near the town Corwen (Merionethshire), on the Dee; and in bread according to the extent of the lateral ridges. The generovering of these hills is heath or ling; the hollows flats abound with excellent peat for fuel, which is so clargrained as to exhibit a polished surface when dry and with a sharp-edged tool. The principal summits of :. Hiraethog range, in the order in which they occur, from NNW. to SSE., are, Llan Elian mountain, 1110 feet; Mor.

\* Moal' signifies hald, crop-eared, or wanting home: it is applied to fly bill home of wood.

DEEN

Comes, Abried Rilling the lightest gains of the unique, the fact this Dassel, and Cadde Dinner. In a long to the fact this Dassel, and Cadde Dinner. In a long to the company of the complete of the company o

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slure this base rises to the surface, and occupies a narrow strip of the country extending from Flintshire south-east to Wrexham, and from that town south by west to Chirk; after which it continues into Shropshire, skirting the Flintshire and Ruabon coal-fields. The shale is succeeded by carboniferous limestone or mountain limestone, which extends from the coast, in the neighbourhood of Great and Little Orme's Head (both these promontories consist of this rock), and forms part of the mass of the hills that extend from the Hiraethog hills to the vale of Clwyd. A considerable part of that vale, and the upper part of the valley of the Alen, separated from it by the Clwydian hills, are also occupied by this limestone, which extends south-east from the vale of Clwyd across the vale of Llan Gollen into Shropshire. The older red sandstone, which underlies the mountain limestone, occupies a narrow belt of the surface, skirting the district which has just been described as occupied by the limestone. The Hiraethog hills are formed principally of transition limestone. The rest of the county is occupied by the clay slates and greywacké slates, which are so abundant in Wales. (Conybeare and Phillips's Outlines of the Geology of England and Wales; Greenough's Geological Map of England and Wales; Walkor's do.)

The coal-innes of Wrexham and Ruabon have been already mentioned. There are some old lead misses

already mentioned. There are some old lead-mines near Abergely, on the coast: others in the range of limestone hills which run parallel to the Clwydian Hills on the east, and others again in the neighbourhood of Ruabon. Iron ore is dug at Ruabon and in the neighbourhood of Wrexham. Slate is quarried near Chirk; millstones are pro-cured in the hills which bound the valley of the Ceiriog, and freestone for building in various places, especially near the coal-field.

Divisions, Towns, &c.—Denbighshire, as well as the neighbouring coun y of Flint, appears to have been comprehended in Y. Perfeddwlad (i.e. the middle or inland country), one of the four divisions into which Grandwlad North Wales was divided. This district of Y. Perfeddwlad contained five cantrefs or larger divisions, which again were subdivided into cwmwds or smaller divisions, as follows :-

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Cantrefs I., Rhyfonioc.
                                    Cwmwds
                                                 i., Uwchaled.
                                                  ii., Isaled.
            II., Ystrad
                                                 iii., Hiraethoc.
                                                 iv., Cynmeirch.
v., Uwchdulas.
vi., Isdulas.
           III., Rhôs
                                         ,,
                                                 vii., Creuddyn.
                                     (This cwmwd is included
                                        n the present Caernar-
                                        vonshire.)
           IV., Dyffryn Clwyd
                                                viii., Coleigionn.
     "
                                                 ix., Llannarch.
                                         ,,
                                                  x., Dogfeilyn.
                                         ,,
             V., Teygengle "," ::
(This last cantref forms
                                                  xi., Cynsyllt.
                    part of the present county
                    of Flint.)
                                                xii., Prestatyn.
xiii., Rhuddlan.
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These districts and subdivisions have been superseded by the modern counties and hundreds, which divisions were introduced as late as the reign of Henry VIII. From the time of its coming into the hands of the English until the reign of that monarch, Denbighland was comprised in districts, governed by their own antient laws and usages, and exempt from the laws of England, because all the ordinary administrators of the English laws were the officers of particular counties. By statute however in the 27th year of Henry's reign, four new shires were formed in Wales, of which Denbigh was one: these were subdivided into hundreds; and it was enacted that the English laws should from thenceforth be in force through Wales, all laws, customs, and tenures, inconsistent therewith being for ever abolished. Denbighshire is included in the North Wales circuit

The present hundreds are six, viz.—Bromfield, compre-

Isaled, comprehending the south-west part and extending into the centre; Isdulas, extending along the north coast and along the lower part of the valley of the Conwy; Rushing accomplished the most part of the Conwy; Rushing the most part and extending into the contract of the Conwy; Rushing the most part and extending into the contract of the Conwy; Rushing the Conwy; Rus and along the lower part of the valley of the Conwy; Rothen, comprehending the north-east parts and extending into the centre; and Yale, occupying a narrow strip tentween the hundreds of Ruthen and Bromfield, and between Ruthin hundred and the county of Flint. The countrol contains one principal borough and market-town, value of the market-towns, which are contributary throughs to Denbigh, viz., Wrexham and Ruthen; of the property which the property Holt, and two markets. borough which has no market, Holt; and two market towns, Llan Gollen and Llan Rwst.

Denbigh, from which the county takes its name, is situated near a stream which flows into the Clwyd. Its same atton on a rocky eminence, the summit of which is crownby the ruins of the antient castle, gives it a striking appearance. It consists chiefly of one long street, well-particular and lighted, with a few good houses, leading into a space. market-place. The market-house and assembly-room in the market-place. The castle is said to have been erectly the best of Lincoln, upon whom Edward conferred the lordship of this place upon the overthrough David, the brother of the last prince of Wales, Llewer The castle walls were of peculiar structure and extranary strength: the outer and inner faces were built in a usual way, and the interval was filled with rough stones all sizes and with a grouting of hot mortar, which, cooling, formed a mass as hard as stone. The castlenever quite finished: it is said that Earl Lacy's son got death by falling into the castle well, and that the eari be called away on military service, never afterwards came finish the structure. In Leland's time it was a large tress with many towers, wards, and portcullises: over ; gate was an effigy of the founder. The grand entrance: the castle, a magnificent pointed archway, with the state of the founder in a niche over it, in tolerably good provation, still remains: it was formerly flanked by two octagonal towers, one of which is nearly demolished. the other is in a very ruinous state. Earl Lacy is said some to have walled in a village which previously conhere: by others it has been doubted whether there wany habitations on the hill before he made this incluwhich was not exactly on the site of the modern town, is higher up the castle hill. The walls, which run round: brow of the hill, inclose a considerable area, partly 12for pasture, partly as a bowling-green, and partly cupied by cottages. One of the town gates (the Burger Gate), defended by two towers, is tolerably perfect I original parish church of Denbigh is at Whitchurch, no a mile east of the town; it is very antient, and now not dilapidated. The townspeople use as their place of work. a chapel near the castle gate, within the old town we. once belonging to the garrison of the castle, and dedict to St. Hilary. There was antiently a priory of the Car. to St. Hilary. There was antiently a priory of the Car. lites or White Friars in the town, some remains of who yet exist.

The population of the borough of Denbigh, which . tends far beyond the town, and includes most of the vi... of Henllan, nearly two miles off, was in 1831, 3786. are some tanneries, and many shoes are made, which sent to Liverpool and to the surrounding fairs and mark. but Denbigh is less a place of business than of go retirement. The markets are on Wednesday and Saturand there are five fairs in the year. There are second dissenting places of worship; two schools partly endown two national schools, and one other day school; two boards schools for girls, four infant schools, and four Sanday schools contain in all 1780 children schools: the Sunday schools contain in all 1780 child: (Educat. Returns for 1833.)

The borough council under the Municipal Reform A consists of four aldermen and twelve councillors. A L... is chosen yearly from among the aldermen or council Denbigh, with its contributary boroughs, Ruthen, Hol: Wrexham, returns one member to parliament. The num of 101. houses within the borough (the boundaries of w! were not altered in the Boundary Act) was, in 1831. of which 96 had land attached. Denbigh is the chief position, and one of the polling stations for the court The Epiphany and Trinity quarter sessions are held here the other sessions and the assizes, at Ruthen. The later is a rectory in the diocese of St. Asaph, of the annual val ing all that part of the country south of the Dee; is in the patronage of the bishop of St. Asaph.

Dentalization of the court district the second declaration of the court district of the court of

mention of Dome VI. In the again was of the accommendate mentions of Dome VI. In the surface for a threat trans. The static was taken in the particure may keep upon Verma, A.A., Parts.

Wreather is in the humbled of Brounfield, upon a small stream Hat these into the Dee, a few males from the west of left body of that types, and good a read to thing from London Ur. Breamgasta, Walsall, and Whitehards, to Mayamai. It a 122 miles grown breath and the monarchie types of Beenlaghshare, and the season to grant of the long of that types, and the season in general coldinary. Worthour is advantageously ellowheld in the monarchie types of Beenlaghshare, and is one of the men invariant sewas to Novik Walson. The bosses are in general coldinary at Alphanettes, are parted and hard to the Alphanettes, are parted and the strength in a storollar of the set of the holding. It consists of a new, how notes, and a observed, and is advantage with many leads, and a storollar of the product of the parted of the story in a storollar of the product of the parted of the story in a speamful of the consist of earth of the story of the parted of the control of the story in a speamful of the control, and is a clarific the story in an apparture of holdings in the control, the story of the story of the parted of the control, the story of the story of the parted of the control, the story of the story of the parted of the control, the story of the story of the parted of the control, the story of me instruction by the min of filte-smit control, it is now as invalued and only in the structure; the many are not invalued and only in the structure. The town has been been been been and the problem of the control instead of the control of the c

parliamentary borough, and comprehends a large rural and in spring tides brings up boats of twelve tons. (Personant found the town. There were in it only about 36 nant.) The parish extends into Caernarvonshire; at a horsess of the annual value of inf. or upwards. The population is chiefly engaged in agriculture. There is no maris in all a population of 3601, chiefly agricultural. There is no maris in operation of 3601, chiefly agricultural. ket, but there are two eattle fairs in the year. The living is a perpetual curacy ta dependency upon the vicarage of Grestor 1. in the discesse and arendescenry of Chester, and in the 2:ft of the dean and chapter of Winchester. It is of the annual value of 1911, with a glebe house. There is a Bar 'est meer ing-house. There were, in 1831, a free school, and three other day achools, in one of which most of the condren attended on Sunday also, and a Sunday school connected with the Bantist congression; there was a building for another Sunfay and daily 97 (3/3)1-5/JUSE school

Lan Gollen stands on the right or south bank of the river Dee, and on the parliamentary mail med from London to Huyhead, 194 miles from London. The town does not s any particular claims to notice, but the vale of Lan Grilen is interesting from its picturesque beauty and its antiquarian remains, and is much resorted to by tourists. The streets are narrow, and the houses are built of a dark shary stone. The bridge was built by Juhn Trevor, buship of St. Asaph, who ched in 1357; it consists of five arches, the widest not having more than 25 feet span. The river usually runs under only one arch, under which it has worn a deep channel in the hard rock which forms the bed of the river. The view through the arches upwards or downwards is extremely pleasing.

The extensive parish of Llan Gollen contains a population of 4499. Of these a considerable part are engaged in agri-culture, and another considerable portion in stone quarries and lime works. Some manufactures are carried on in the parish, as of flannel, cotton goods, and earthenware; there are also iron works and collieries; the town derives considerable advantages from the influx of visiters. The market is on Saturday, and there are five fairs in the year. The Elles-mere canal passes through the parish. Llan Gollen is one

of the polling places for the county.

The living is a vicarage in the diocese and archdeaconry of St. Asaph, of the yearly value of 350l, with a glebe-house. It is in the gift of the bishop of St. Asaph. There are places of worship for Independents, Baptists, Calvinistic and of worship for Independents, Baptists, Calvinistic and Wesleyan Methodists, and Wesleyan Methodists Reformers. There were in 1833, in the parish, one boarding and day school, and eight day schools; one of these was partly supported by three small endowments. In these schools, 105 boys and 112 girls (together 217) were taught; there were besides eleven Sunday schools, in which were nearly 1000 scholars. scholars

In the neighbourhood of Llan Gollen are several interesting remains of antiquity. Castell Dinas Bran, whose remains nearly cover the summit of the conical hill on which it is placed, is on the north bank of the Dee just opposite to the town. It was a Welsh castle, built of the coarse stone of the country, with here and there a few free-

stone mouldings.

Lian Egwest, or Valle Crucis Abbey, is just within the parish of Llan Tysika, and on the border of that of Llan Gollen. It was founded by Madog ap Gryffydd Maelor, purpos of Powes, for monks of the Cistercian order. It had of the suppression a result revenue of 214. 3r. 3d. grains of the Science Beautiful remains of the church and of a part of the abbey, the latter new converted into a tanii house. A short distance from the when is the neuronder of a round pillar, called the pillar of blood probable the most anient British inscribed pillar.

I too know to at the bonder of the county, and on the on that the Kink of the Conwy, and to the right of the parliamentary read from London to Holyhead, 218 miles from London. It is situated in a pleasant vale surrounded It is situated in a pleasant vale surrounded with well would hills. The houses are irregularly built, and the streets, with the exception of that in which the town hall stands, are narrow. The church has little archito turn! beauty, but the interior has some curious carving, and to have been brought from the neighbouring abbey of M moon, and there is a lateral chapel, 'the Gwydir Chapel,' hadt in 1011, from a design by Inigo Jones; but it is saidh no boted. (Ponnant.) The bridge over the Conwy h the middle one has a span of 59 feet. The about a mile and a half from the bridge,

is no particular manufacture carried on; some Welsh in were formerly and perhaps are still made here; the eartrade is considerable. The market is on Tuesday, and the are five fairs in the year. Llan Rwst is one of the populaces for the county. The living is a rectory in the cese and archdeaconry of St. Asaph, and in the gift of the bishop of that see. The annual value is 720% and the sa wiebe-house. There is a chapel of ease at Llan Garu. There were, in 1933, in the whole parish three day scho in which above 50 children were educated, and were Sanday schools, in which above 1000 scholars are tau. There are several dissenting places of worship, and a raof amshouses erected in 1610 by Sir John Wynne.

Maenan or Maynan Abbey near Llan Rwst was four. by King Edward L in 1283; the Cistertian monks of an abbey at Aberconwy were transferred hither. At the dissolution, the yearly revenue of the abbey was 17.1

lue lud gross, or 1621, 15s. clear.

Ruabon or Rhuabon (or to give the Welsh orthogra-Rhiw Abon) is a village at the junction of the roads in ... Oswestry and Llan Gollen to Wrexham. The church spacious, and is adorned by some elegant monuments: the Wynne family, especially one by Rysbrach, to the interpretation of the first Sir Watkin Williams Wynn, who do in 1747. Wynnstay, the seat of the present Sir W. W. Wynn, is at Ruabon, the entrance to the park being itindiately from the village. In the parish is an antient Brit. fortified post: the area is about four acres, and it is defeon the top of which is a carriage drive. In ::. vicinity of this post, in 1161 or 62, Owain Cyfeiliog, pr. of Powys, defeated the English, and commemorated victory in a poem called *Hirlas Owain*, 'the drinking be of Owain.' The population of the whole parish of Rushing beautiful and the standard of the whole parish of Rushing beautiful and the standard of the whole parish of Rushing and the standard of the whole parish of Rushing and the standard of the whole parish of Rushing and the standard of the whole parish of Rushing and the standard of th which is divided into four townships, was, in 1831, 54: whom above 600 were employed in the collieries and ir works: the iron ore is partly dug in the adjacent hills, partly brought from Lancashire. The Ellesmere c passes through the parish; and there is a railway to Russel. brook. Although the place does not commonly rank ... market-town, a market is held every Monday. There w in the parish in 1933 four day schools (one endowed, a two partly supported by donations), affording instruct: about 200 children; and five Sunday schools, in wwwere about 460 or 470 scholars. There are several disc. twere about 460 or 470 scholars. There are several dissecting meeting-houses in the parish, and two sets of a houses. There are three fairs in the year. The living Ruabon is a vicarage in the diocese and archdeacourses. St. Asaph, of the annual value of 5881., with a glebe-house it is in the gift of the bishop of St. Asaph.

Chirk is a village near the north bank of the Ceiriog. The road from Oswestry to Ruabon and Wrexham, and the road from Oswestry to Ruabon and a half north-vector of the village is Chirk Castle, the seat of Mrs. Myddling Biddulph, built by Roger Mortimer in the thirteenth car-

Biddulph, built by Roger Mortimer in the thirteenth car tury. It is a large oblong square, built round a quarter gular court, and inclosed by massive walls strengthene: round towers at the corners: there is a fifth tower cl the entrance. The interior is handsomely fitted up. contains, among other apartments, a gallery 100 feet los adorned with the portraits of many public characters of time of Charles II. From the castle grounds, which very extensive, it is said that seventeen counties had seen. Chirk Castle is on the site of a former one. Castell Crogen. The population of Chirk parish in 1 was 1598: a considerable number of men are employed coal-pits, stone-quarries, and lime-works. There are seven paper-mills in the neighbourhood. There are three fairments are the Ellesmere canal runs by Chirk. There are in the parish two boarding schools and one day school, carries in all 70 to 80 children; two day and Sunta schools, supported by Mrs. Biddulph, containing from 14. to 130 children; and one Sunday school, containing 30 . of the same lady. The living of Chirk is a vicarage in the diocese and archdeaconry of St. Asaph, and in the gift of the highest of the same lady. the bishop of that see: the annual value is 4661, with a glebe-house.

Divisions for Ecclestastical and Legal Purposes.—The county of Denbigh is for the most part comprehended in

the discous and architectury of the Asopic, a small part is a major those and continuously of themps, and several particle in the tenths are production at the failure of the failure of the failure of the several particle in the tenths are production at the failure of the failure of the several particle in the several particle in the several particle in the several particle in the control of Charter. The number of particle phieth gire partitly to read that the several particle is the particle fort, the individual, and because the failure is state-five, or which however five, yes, the failure of the particle is the particle in the particle particle principle of the failure. Of the remaining of active, the particle p

When the Strong equation of thorosches in Britain, Solid father, we being not the Brancher invested Marcia, may it the an plane of the hoptorchy, or rather actorchy, esta
of the Angelous of the hoptorchy, or rather actorchy, esta
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ovining morniments, as the piller of Tibes, astimal above in our account of Lion Gallers; and the farmers styles of finesh, callest Mark these mans by true, housed Marriag as a better against the produter, increases of the Walsh the ditch is attemptioned at interests by anoth form or artificial anomals, which maintain yet true. The disch term of artificial anomals, which maintain yet the anoth form of artificial anomals, which maintain yet the remain. The disch term the Walsh shin of them. The dyth appeals into the test the Walsh shin of them. The disch test the Walsh shin of the county clock in contained in the part of the county clock in contained in the part of the county clock in containing hour the county which a contract of the follows. It can it fought with a contract of the valler of the Colines. It can it fought with a contract of the colines, the fall of the part of the colines, and on once Printshire, that tackong the contract period in cultivative the Marcher frontier. Although inculticant are at the faller work to keep at all reveges from the contract besidency of Kondani and Walsh, and heavy possitive were demonsted that the Marchard Walsh, and heavy possitive were demonsted assumed all Walshman who should Walsh w Wart's dyke, equal to the total COs in depth, though not in catent, one parallel to it through the cannot, it course Daninghainer reverse three miles to the Karl of Colla's Ayke, account the Collage and the Theo, and tone through Walshman the Collage and the Theo, and tone through Walshman in its course by farts, the star of one of those of Erdeling, between Rambina and Walshman, as marked by earth works and some remains of memory.

About the year \$22, Daninghabite weaveverun by Righest.

Plinishire. It was preserve strengthened in the course by forts, the size of one of those at Enddig, introver Raminal and Wischam, is marked by earth works and some remains of messacry.

About the year \$28, Demingbehire was overrun by Righert, king of Wessac, who had acquired for that hingdom the permanent supremacy of its Anglis Kasan hingdom. The impression of the Danes prevented the Science form entirely subdomg the antism Britons; and milesof lines seem in flavor memorred by the aid of the Northern Britons, we seem there are memorred by the aid of the Northern Britons, we seem, milesoft part of Bentagandare. The country than reserved in the arithmet. The country than reserved in the prevented special pentagonalize. The country than reserved in the prevented special quality in the prevented strengthen of the prevent of England under the Norman primus again subjected the Welkh to be prevent of August 19 Provis or Portulated, one of the subdivisions of Wales. The committee of the prevent they struggled gallanity, and the vertex which Down Lyfedied, who llemanded in the toethit contary, sile power; they struggled gallanity, and the vertex which Down Lyfedied, who llemanded in the toethit contary, sile Lineal Part Russian, finations already makes. Deshis history of Lionedyn, the had prime of South Wales, or the close of Lineal Russian, finations already makes the Deshis history and the research of the Stripe and the breaker faxed, to 1292, it recorded to the heart of the Bartie, or Liones Mydelend, in the had prime of South Wales, or the close of the Russian to the prevent of the Russian and public king of Bartie dominion.

In the mantenstan of the Strong and signing the research of the Stripe and the Russian and the Russian to the Russian to the Stripe and the Russian to the Russian to the Country to the Armina to the Russian to the Country to the Russian to the second of the Russian to the second of the Russian to the Russian to the Russian to the second of the Russian to the Russian to the second of the Russi

(Authorstone Decasties of England and Wales; House days Reports; Eigenhalou Rations and Participation References to those relating in Education; Correct transfer Participation of Tourist Participation of Pattern Distribution of Wales, See See; Magg's Edition of Pattern Resident Orientary of Transfer Greenwall a Greenwall Major Haybour, Wallang the Physical and Pattern Greenwall of the British Lyles, in

Party and the second se

Outlines of the Geology of England.)

It is well to observe that the account of Denbighshire in the Beauties of England and Wales is a very hasty and confused compilation, especially in the historical part.

STATISTICS OF DENBIGHSHIRE.—Population. Denbigh-shire is principally an agricultural county. Of 20,120 last census (1831), shows the number of inhabit males, twenty years of age and upwards, residing in 1831 their occupation in each hundred of the county.

the Library of Useful Knowledge; Conybeare and Phillips's | in Deubighshire, 10,353 were engaged in agricultural pursuits, and only 235 in manufactures or in making manufacturing machinery; about 200 of these latter were weavers of woollen goods, half of whom lived at Llangolin and Llan-Saintffraid-Glynn-Ceiriog, the rest were scattere! throughout the county.

The following summary of the population, taken at the last census (1831), shows the number of inhabitants and

		HOUSES			occ	UPATIO	NS.		Persons.		
HUNDREDS, &c.	Jahabited.	Families.	Building.	Uninhabited.	Families chiefly employed in agriculture.	Families chiefly employed in trade, manufactures, and handicraft.	All other families not comprised in the two preceding classes.	Males.	Females.	Total.	Malra twenty years of age.
Bromfield	5,281 2,221 2,702 2,485 2,193 744 742	5,527 2,356 2,779 2,590 2,345 767 786	48 3 16 15 17 1 6	427 55 118 82 61 37 52	1,807 1,079 1,919 1,499 1,179 393 259	1,793 581 443 599 535 127 400	1,927 696 417 492 631 247 127	13,162 6,148 6,887 6,084 5,379 2,013 1,558	13,297 5,900 6,920 6,079 5,750 1,837 2,228	26,459 12,048 13,807 12,163 11,129 3,850 3,786	6,246 2,942 3,373 3,004 2,681 993 772
Militia under training	16,368	17,150	106	832	8,135	4,478	4,537	387	42,011	387 83,629	20,120

The population of Denbighshire at each of the four enumerations was as follows -

	Males.	Females.	Total.	L	nc. per Cent.
1801	• •		60,352		•
1811		• •	64,240		6.44
1821	37,785	38,726	76,511		19.10
1831	41.618	42.011	83,629	•	8.69

An increase is here seen between the first and last periods of 23,277 persons, or more than 38½ per cent., which is 18½ per cent. below the general rate of increase throughout England.

County Expenses, Crime, &c.—The sums expended for the relief of the poor at the three dates of—

```
1811 were £32,427, which was 10s. 1d. 1821 ,, 32,658 ,, ,, 8s. 6d. for each 1831 ,, 35,126 ,, ,, 8s. 5d. inhabitant.
1821 ,, 32,658
1831 ,, 35,126
```

The sum expended for the same purpose in the year ending March, 1836, was 30,204.; and assuming that the population has increased at the same rate of per-centage since 1831 as in the ten years preceding that period, the above sum gives an average of 6s. 104d for each inhabitant. All these averages are below those for the whole of England and Wales.

The aum raised in Denbighshire for poor's-rate, county-rate, and other local purposes, in the year ending 25th March, 1833, was 44,668/. 4s., and was levied upon the various descriptions of property as follows:-

On land ,, dwelling-houses ,, mills, factories, &c. ,, manorial profits, nay	rigation, &cc.	39,163 4,553 367 583	4
-		44,668	4
The amount expended was:-	-		
For the relief of the poor		36,815	5
In suits of law, removal of	paupers, &c.	1,108	9
For other purposes		6.689	1

In the returns made up for the subsequent years, the descriptions of property assessed for local purposes are not distinguished. The sums raised in the respective years ending March, 1834, 1835, and 1836, were 41,531*l*. 16s., 8s., and 39,461*l*. 19s. The expenditure was as

Total

£44,612 15

For the relief of the poor	1834. £33,135 15	1835. 31,668 0	1:36. 39.203 .1
In suits of law, removal } of paupers, &c.,	1,440 5	832 4	837 1.:
For other purposes	7,139 0	8,946 15	8,1;3 ¢
	£41,715 0	41,446 19	39,184 4

The saving effected in the sums expended for the rel. of the poor in 1836, as compared with the expanditure of 1834, is therefore 2,9321. 4s., or nearly 19 per cent.; cluding the other two items the whole amount of saving is reduced to 2,5311., or rather more than 6 per cent.

The number of turnpike trusts in Denbighshire, as ascertained in 1834, was six; the number of miles of road unite their charge was 165; the annual income arising from the tolls and parish composition was 4,034l. 5s. 4d., and the expenditure was 3,906l. 1s.

The county expenditure in 1834, exclusive of the relactions.

for the poor, was 5,253l. 17s. 11d., disbursed as follows:-

	£.	8.	d.
Bridges, buildings, and repairs, &c.	887	16	3
Gauls, houses of correction, &c., and maintaining prisoners, &c.	677	5	2
Shire halls and courts of justice—} building, repairing, &c.	292	15	U
Prosecutions	1,153	1	11
Clerk of the peace	347	5	5
Conveyance of prisoners before trial.	80	19	2
,, of transports .	111	19	3
Constables—high and special	18	2	ō
Coroner	92	12	ō
Debt, payment of, principal and in-	1,219	12	1
Miscellaneous	372	9	5
Total .	5,253	17	11

The number of persons charged with criminal offences and The number of persons charged with criminal offences in the three septennial periods ending with 1820, 1827, and 1834, were 141, 150, and 270; making an average of 20 arranually in the first period, of 21 in the second period, and 38 in the third period. The number of persons tried at quarter-sessions in each of the years 1831, 1632, and 1833; in respect to which any costs were paid out of the countries, were 13, 10, and 12 respectively. Among the persons charged with offences there were committed for charged with offences there were committed for-

			1831.	1832.	1833
Felonies .	•		12	9	11
Misdemeanors		•	1	1	1

The total number of committals in each of the same years was 14, 18, and 13, respectively; of whom

		100	15 Mary
The must recovered was	1.6	1.0	
mapaginal	- 1	2	- 3
Distinuzged by pre-launction	0	T.	- 2

At the solve and response in 1815, 30 persons were interest with arrange in Herizgheider; and of which number is both committed afference against the person, it of which were common souths, a more charged with offences sound respons, a manifest with values, and 12 for affects gainst property, committed without violence. Of the remaining a factor were 1 committed for peaching, it for standards is there were 1 committed for peaching, if for standard is not peach and peach affects, and I for southing a threatent peach of a sol peach affects, and I for southing a threatent peach of a sol peach affect, and I for southing a threatent peach of a core transportant, 25 owns improved and it counted as mentals or mobile found against these I'll those consists, it counters under I'll those consists, it counters under I'll the angle of an appearance of the affective, if was peak and I the harped on appearance of the affective, if was not described and roots in a south result and roots in saving the number, if could read and roots in solid result and now were, the degree of instruction of I was not described for the proparation of the offenciers to the population in 1832, results in 1873.

The number of persons qualified to rote for the county members in Hombigheidire to 1905, being about I in 24 of the reliable population and rather here than I in 6 of the many of 1911. The expenses of the less than I in 6 or the many of 1911, the 1914, and were to the inhabitions of the many 1974, the 1914, and were paid out of the general member to be accurate the sounds. The number

e are two savings banks in this county. The number

		1000		1800
Witnesser of depositions	. 341	945	1013	
Amount of deposits	£9432	25,019	20,952	22,000

in the strings-tonks in 1884

	Alchilia				
		180	M.	1	IOG.
		Daymanuca.		In the second	
Not extending	A'XO	010	23,425	THE	£4,389
	80	318	9,420	7117	9,330.
	100	115	7,924	126	8,744
	100	16	5,720	97	4.341
200	200	15	5,510	28	4.298
Above	200	6	1/551	16	7,598
				100	-

Education. The following particulars are obtained from an parliamentary anguary on education mode in the session #1005

Sunnaer of infants at such schools; ages tong 2 to 7 years Doly Solveds
Number of phildren of on it echools, upon
from A to 14 years —
Makes
Pennios
See and specified umbay Schools
symbol of children and others at sur-lisymbols, again from a to 111 years —
Midden.

recently four foundary exhants are at places where no where remains are associated, and the refers the solution are associated, and the refers the solution are associated, and the refers the solution attend, any other solution. But at all other places the pupils of the Nanday solution likewise this opportunity of resorting to the daily solution of the Nanday solution to be supported by a resorting to the daily solution; of what another deplicate every is thus enode connect the societalized. Of functions which the solution of the solutions of the solution in this country.

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all the walls, columns, architraves, and ceiling, there is no where a space of two feet that is not covered with some figures in basso-relievo of human beings, animals, plants, emblems of agriculture, or of religious ceremonies. The interior chambers of the temple are likewise covered with sculptures, among which the figure of Isis is repeated in numberless instances, as she appears to have been the pre-siding deity of the place. The light in the chambers comes in through small holes in the wall; the sanctuary itself is quite dark. The ceiling of the portico is occupied by a number of mythological figures, among which the French savans thought they recognised the signs of the zodiac; but Dr. Richardson observes that the number is incomplete, as the Crab is wanting, and he, with other recent travellers and archæologists, is of opinion that it is no zodiac, but a collection of mythological emblems, without any reference to astronomy. On the east side of the temple there are some apartments, both on the ground floor and upper story. On the ceiling of one of the latter, under the roof of the temple, there was another assemblage of mythological figures resembling those on the ceiling of the portico, though fewer in number and differently arranged. This was called a plants here or zodiac, because in the middle of it figures similar to the signs usually adopted to represent the 12 constellations were observed. 'The ceiling is encompassed with three broad circular lines, and it is only the central space that is occupied with this mythological table, which appears as if supported by twelve figures, four females, one above each angle of the room, and the other eight distributed in pairs between, and having hawks' heads. In the middle of this assemblage of emblems are certain figures, which have been taken for the signs of the zodiac, ranged in a sort of circular order, but without any regularity of distance. The lion, the bull, and the vase-carrier are exactly above three of the female figures that extend from three of the corners of the room to support the tablet with their heads; Scorpio, for the sake of regularity, should have been above the head of the fourth female figure, but it is not, neither is Libra. Capricornus, Sagittarius, Scorpio, and Libra are all crowded without any regularity into one division, and instead of the Crab we have a broad-backed spider.' Richardson (Travels along the Mediterrunean and parts adjucent, in 1816-17, from which we have just quoted) observes that he compared the figures of the temple of Denderah with the engravings in the French work on Egypt, and found the latter a very incorrect representation. His opinion, with respect to this pretended zodiac, is the same as that concerning the one in the portice, namely, that it is not meant for a zodiac, but is a congregation of gods and goddesses and religious pro-

These zodiacs of Denderah have given rise to a warm discussion connected with the truth of the Mosaic history of the world. Dupuy and other French writers have assumed, from the relative position of these zodiacal signs and their connexion with the precession of the equinoxes, that the astronomical observations upon which these zodiacs were constructed must refer to a date far more antient than that recorded for the Deluge, or even the creation of man; not less, indeed, than 15,000 years, according to some cal-culations. According to Littrow and others, however, the da e would only be 3228 years old. But there is, as we have observed, another opinion, strongly supported by Le-tronne, Halma, Champollion, and others, discarding altogether the notion of these ceilings of Denderah being in-tended as representations of the zodiac, or being in any way connected with astronomical observations. Those who may wish to examine the grounds of this controversy may consult the writers already quoted, and especially Letronne, Observations sur l'Objet des Représentations Zodiacales qui nous restent de l'Antiquité, 8vo. Paris, 1824; N. Halma, Examen et Explications des Zodiaques Egyptiennes, 8vo. 1822; and Supplement to do., concerning the Zodiac of Denderah; and also Visconti, Hamilton, Champollion, &c. It is now generally believed that the temple of Denderah, with its zodiacs, is not older than the period of the Ptolemies.

The so-called circular zodiac in the upper chamber of the temple of Denderah, which was sculptured on a kind of sandstone, was cut out of the ceiling by a Fronchman of the name of Lelorrain, with the permission of Mchemet Ali Pasha, and shipped for France in 1821, when it was purchased by the French government, and is now in the Museum at Paris.

DENDERMONDE, a town in East Flanders, the chief place of an arrondissement of the same name, is built at the confluence of the Dender and the Scheldt, about 14 English miles east from Ghent, and the same distant e 14 English miles east from Ghent, and the same distant enorthquest from Brussels. The town contains 7,235 inhabitants: there are 1,014 houses, 4 churches, 5 chapels, a town-house, an hospital, a lunstic saylum, an orphin house, two convents, 14 schools, and a college. The town which is fortified and defended by a citadel built in 1554 by the Duke of Parma, is said to have been founded in the eighth century. It was besieged by Louis XIV. in 16-17, which 16,000 men who make the same but the construction of the content of the co with 50,000 men, who were obliged to retire by the opening of the sluices on the part of the besieged, whereby the rounding country was laid under water. In 1745 it feninto the hands of the French.

Dendermonde is the sext of many branches of manufacture, the most important of which are woollen cloth, bate, soap, cordage, and pottery. The surrounding country is fertile and well cultivated, and considerable business in transacted at the weekly market in grain, linseed, hemp, and oil. Many Roman antiquities have been dug up in

the nighbourhood.

(Van der Maelen's Dictionnaire Géographique de la Pr.

vince de la Flandre Orientale.)

DENDRO'BIUM, an extensive genus of East Indian epiphytes, found in the whole of the damp tropical parts of Asia, and a little beyond the tropics in Japan and New Holland, but unknown in the rest of the world. About a hundred species are enumerated by systematic writers; 1) Pierardi, cucullatum, chrysanthum, aureum, fimbria: 1111. moschatum, densifiorum, pulchellum, nobile, and a fer more, are known in the collections of this country; be a

more, are known in the collections of this country; by a large proportion of the remainder requires to be better the scribed and more carefully examined.

DENDROCITTA. [CORVIDE, vol. viii., p. 69.]

DENDROCOLAPTES. [CREEPER, vol. viii., p. 14x.]

DENDRO'COPUS. [CREEPER, vol. viii., p. 14x.]

DENDRO'DOA (Zool.), Mr. W. S. Mac Leay's that of a subgenus of Ascidians belonging to the aberrange group, or those which have a branchial pouch with one eight folds, the tentacula simple, and no liver.

Subgeneric Character.—(External). Body subcylindrical

Subgeneric Character.—(External). Body subcylindring with both orifices exceedingly minute, and situated on the apex. (Anatomical). Branchial pouch marked with market with ma eight folds, and having the reticulation continuous. Orrice terminal. Tentacula simple. Liver none. Orary unique branched, situated beneath the mantle and the brancis...

pouch. (W. S. Mac Leay.) Example.—Dendrodoa glundaria. The following is Mr. Mac Leay's description. Body subcylindrical, with a round summit. Envelope whitish, subpellucid, coriscous, and smooth, having its base rough with agglutinated pebbles internally it has a pearly lustre, and is thickest towards the base. Orifices so little prominent as to be scarcely percylindrical and a suppression of the tible without a lens; separate from each other, and ope ing with four indistinct rays. Mantle muscular, but .: uniform substance

Tentacula about twenty-six, simple, subulate, alternately long and short.

Anterior nervous tubercle with many spirals.

Branchial cavity occupying the whole length of the animal.

Pharynx situated at the bottom of the cavity of the body. Esophagus descending, and turning short round near the cardia into a cylindrical horizontal stomach, which is stri ated internally, and occupies with the pylorus (which turn round and lies parallel to it) the whole of the bottom of the cavity. Intestine very long. Rectum ascending, almost vertical, terminated by an anus margined.

Ovary one, situated on the left side, between the branch.

pouch and the tunic. It consists of a trifurcated cylindrical stem, having at the base on one side a forked braining on the other a simple one, all of the same thickness. Mr Mac Leay remarks that the organs of digestion have guardaffinity in external structure and position to those of Cynthic pantex of Savigny, except that the stomach and intestinate horizontal, and the anus simply margined, and that different as this species is in external appearance from a state of the stomach and that the stomach and that the stomach are the stomach and that the stomach are the stomach and the stomach are the stomach as the species is in external appearance from a stomach and the stomach are the stomach as the stomach are the stomach and the stomach and the stomach are the stomach are the stomach are the stomach and the stomach are the stomach are the stomach are the stomach and the stomach are the stomach are the stomach and the stomach are the stomach are the stomach are the stomach are the stomach and the stomach are the stomach are the stomach are the stomach and the stomach are the stomach are the stomach are the stomach and the stomach are the stomach are the stomach are the stomach and the stomach are the stomach ar other Arcidia, internally it agrees with the Pandaria almost every easential respect but the overy. He observe that this singular animal completes the circle of the gent Ascidia in the most beautiful manner. It agrees with the first subgenus, Cynthia, in the nature of its branched reside on their system of respica-



PENDROMUS (Zoology), a genus of redent quad-peds, established by Dr. A. Smith in his 'Contributions the Natural History of South Africa,' with the following

Dental formula, 
$$\frac{3}{2}$$
; malara,  $\frac{3-3}{5-3}=16$ .

Dental formula, \( \frac{2}{3} \) molars, \( \frac{3}{3-3} \) = 16.

The opportanties with a longitudinal forms on their roteron tree, the lower long, elember, with the entaing rive committed.

The opportant molar with its rubercles in a double row, and for including tone boards, of what are is at the arcter part of the mover of the both, the other pass another thioseho of the internal surjey, behind the transverse anti-many, the second molar with two or three ton-judical distribution of the internal surjey, behind the transverse anti-many the second molar with two or three ton-judical distribution of the external market of the cross of internal faration by the external market of the cross of internal faration with his three or four obtains two transverse disposed in a row. He than the two transverse the second four extense to be set the cold in double series; the stilled is very small, with some transverse the second faration and of the cross of the colors. Restroin another, the distribution of the colors, the stilled is very small, with some transverse and another room the other three obtains. Heatron another the small, with the transverse membranances of the small, who has removered method and, internally, non-small, with sentence had, and, internally, non-small, with the transverse the external analysis processes. Total along the town becomes the external analysis processes. Total along the transverse between the still provide another three the same; the pointed, causeing the terror market line. Easy to from point of most and withing singlify sowered with a line single which is another, and of a failure another, the source of the sent of the pointed of the course of the source 


1. Descripts Also pile, one made after sured size. 1. a. look.
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DENDROPHY'LLIA. [Managereticous]
DENDROPLEX, a genue of breds established by Mr. Swainson, and placed by him in the family Certificate (Cereporal, and sub-family Certificana, which have the tail graduated and right.

Generic Character.—Bill very sarately. Hanga maderate, randed; third, fourth, and fifth quills longers.

Mr. Subsector observes that he knows not whether the type of this genue has been described, and slates that the type of this genue has been described, and slates that the type of this genue has been described, and slates that the protocity strength bill, he adds, it differs not from Decoles enlarges. (2001, Journ., vol. ils. p. 321.)

INEXEB, so Arabic word, agreefing the tail if generally means the orests east from the too I ben't be not been at the form the year DENHAM, NIR JOHN, have at Dubton in the year little, was son of Sir John Decham, who was more time start bases of the Court of Excharges in technol. Hu. England, he was known as larger of the Exchapor in England, he was known and a bases of the Exchapor in England, he was known and a bases of the Recharge of the larger and the received fire generalized education. In the year 1671 for larger, error studying for three years, he took the degree of backeds of site. He subsequently offered biasself at Lincoln's Irin, resulted the law pretty closely, and night have done well, had not an animoderate passing to games gradena well, had not an animoderate passing to games gradena well, had not an animoderate passing to games gradena.

hausted his money, and drawn on him the displeasure of his father. He however abandoned the mischievous pursuit, and wrote an essay against gaming, by which he re-gained his father's favour, though his reformation appears to have been somewhat feigned, as immediately after his father's death his fondness for play returned. In 1641 he gained great celebrity by his tragedy of 'The Sophy,' which was acted at Blackfriars with much applause; and his fame was increased by his 'Cooper's Hill,' written in 1643, almost the only one of his poems that is now read. In the year 1647 he performed many secret and important services for Charles I., when prisoner in the hands of the army, which being discovered, he was forced to escape to France. In 1652 he returned to England, and resided at the earl of Pembroke's; and at the restoration of Charles II. he was appointed surveyor-general of his Majesty's buildings, and created knight of the Bath. He died in the year 1688, his understanding having been for some time impaired by domestic grievances.

The admirers of Denham usually limit their praises to 'Cooper's Hill,' and some lines on the earl of Strafford; while others confine their commendations to two lines in the former poem, wherein he describes the Thames:

Tho' deep, yet clear; the' guntle, yet not dull, Strong without rage, without o'erflowing full.'

This is a most happy combination of words; the bringing into contrast expressions which only vary in shades of meaning is highly ingenious. The whole passage relating to the Thames is written with much spirit, and striking lines might be selected from other parts; yet, taken as a whole, the poem is heavy and purposeless, and though short,

is very tedious. Readers of the present day, on perusing the poems of Denham, will doubtless wonder what could be the cause of the high commendations bestowed on him by his contemporaries; but to look at him from a fair point of view, and to assign him his due portion of merit, it will be necessary to consider him as one of the reformers of English verse. At the beginning of the seventeenth century the art of versification was in a very imperfect state, as may be seen from reading the prologues to our early dramas; and hence a poem of the length of 'Cooper's Hill,' written with tolerable smoothness, was something remarkable. At the present day, even the versification of Denham appears faulty, as he frequently allows a sentence to run from one line into another, a practice which, though effective in blank verse, is intolerable in rhyming couplets; and indeed he has made some words rhyme in a manner that we wonder was endured by any age; for example, in one instance he makes 'sprung' rhyme with 'Rome.' Those who wish to observe the progress of their own language will find the reading of such authors as Denham not unprofitable; and Johnson's Lives of the Poets form a good running commentary.

DENHAM, [AFRICA.]
DENIER, from the Latin denarius, a French coin, originally of silver. It continued in use, through different modifications, as long as the old system of coinage in France lasted; that is, till 1795. Up to that time, accounts were kept in France in livres of 20 sous or 240 deniers: they have been since kept in francs of 10 decimes, or 100

Under the kings of the first race the denier weighed twenty-one grains; under the second race, and in the time of Charlemagne, twenty-eight, and sometimes thirty grains; and under Charles the Bald thirty-two. At the commencement of the third race of French kings the denier weighed twenty-three or twenty-four grains of fine silver. Philip I. began the practice of mixing copper with the silver; and it is in his time that we find the distinction first made between deniers Tournois and deniers Parisis, the latter being worth a fourth part more than the former. By the time of St. Louis, 1226, the denier had become so debased as to contain not more than six grains and a half of silver; which was probably the occasion of that monarch's issuing a larger class of coins called gros deniers d'argent. The term denier was likewise afterwards applied to the gold money of France, in the same manner as the gold first

issued by our Henry III. was termed the gold penny.

There were formerly current in France several little copper pieces, which, having no proper name, were distinguished only by their value in deniers; such were the pieces of 36, 30, 24, 18, 12, 6, 4, and 2 deniers. The pieces of 4 and 2 deniers were coined at Strasburg, for currency in the province of Alsace, pursuant to a declaration of the 6th September, 1695. Those of 6 deniers were coined in the mints of Aix, Montpelier, Rochelle, Bourdeaux, a: d Nantes, by an edict issued in the month of October 1709

The deniers coined toward the end of Louis XIII. waste the work of the famous Varin, and are much admired to: their execution.

(Le Blanc, Traité Historique des Monnoyes de France, 4to. Paris, 1690; Furetière, Diction. Universel, v. Denie: Postlethwayt's Dict. of Commerce, fol. Lond. edit. 1774.)

DENIS, SAINT, a town in France, in the department of Seine, in a plain not far from the right bank of the Seine, and on the streamlets the Cloud and the Roudlon, which flow into that river: it is about 5 miles from Para.

in 48° 56' N. lat., and 2' 21' or 22' E. long.

This town dates its rise from the foundation of a church erected over the tomb of the saint and martyr whose name it bears. The church of St. Denis (Dionysius) was founded. or perhaps only enriched, by King Dagobert, in the sevent century. It had been preceded by a chapel built over the tomb of St. Denis, and rendered celebrated by reported in racles. Crowds of pilgrims resorted to the chapel, and afterwards to the church, and in the course of time a village now round the sacred edifice, which increased to a considerable town. Dagobert founded also an abboy, which he rickly endowed, and on which he conferred great immunities. Upon his death he was buried in the church of St. Denis: his successors in many instances followed his example, and the church became in time the customary burial-place of the kings of France. In 832 the monks had become so corru; that the Abbot Hilduin had to introduce a thorough reform The abbacy was soon after put in commendam by Charles le Chauve (who reigned from A.D. 840 to AD. 877), and was subsequently held by many laymen; but Hugues Capet (who reigned A.D. 987 to A.D. 996) restored to the monks the right of choosing their abbot. During this interval the abbey was pillaged by the Northmen. One of the subsequent abbots, Suger, served the kings Louis VI. le Gree (who reigned from A.D. 1108 to A.D. 1137) and Louis VII. le Jeune (who reigned A.D. 1137 to A.D. 1180), both as a warrior and a statesman; and the oriflamme, previously the standard borne by the abbots in their private wars, became the standard of the royal forces. Suger vastly improved the possessions of the abbey, founded many priories, which he filled with monks of St. Denis, and rebuilt almost the whole of the church in a more magnificent style than heretofore. Part of the present edifice dates from this epoch. Mathieu de Vendôme, a subsequent abbot, administered the affairs of state during the second absence of Louis IX. (St. Louis) beyond sea: the rebuilding of a portion of the church which some of his predecessors had begun, was finished by him. The first monks of S: Denis were Benedictines; but they had so many privileges and prerogatives peculiar to themselves, that they may almost be regarded as the heads of a distinct order. having many subordinate priories in different parts of France: they were besides subject to no other superior than the pope himself. They have sometimes been called Dionysians. They had the keeping of the crown. sceptre, and other ornaments used at the consecration and coronation of the kings of France. About the time of Louis XIV. the grandeur of this establishment was much impaired. It was reduced to the ordinary rank of a Benedictine abbey, its revenues were partly applied to the support of the establishment of St. Cyr [Cyr. Sr.], and the ecclesiastical jurisdiction which the abbot had exercised over the territory of St. Denis was replaced, except as to the abbey itself, by that of the archbishop of Paris. The abbey was finally suppressed in 1792.

The present abbey-church, built at various epochs, presents great variety of style. The western front is divided by buttresses into three compartments, which are crowned by a range of battlements. In each compartment is a wide semicircular arched doorway, the ascent to which is by a flight of steps running along the whole front. Over the centre doorway are three pointed arches as though designed for windows, but only one is used for that purpose: over the side doors two tiers of arches, chiefly pointed, but of smaller dimensions; some of them are used as windows, or have in them smaller openings for windows. The upper part of the centre compartment is occupied by the clock.

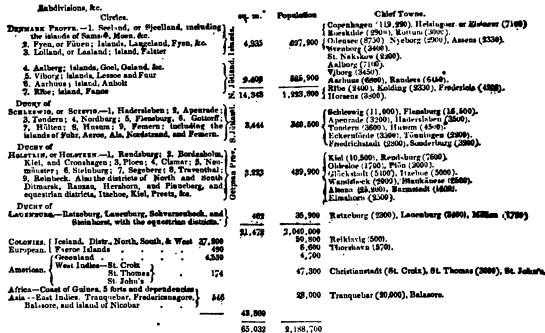
The two outer compartments are surmounted by towers which differ in their architecture; both however have

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surfaces, with parties precise, and that the northern estimately precise and extending the word of the dispersal process in the second of the chip process and a copy religious of the country of the process in the second of the chip process and a copy of the country of the second of the chip process in the second of the chip process and a covered of the finite of mean of the same of meaning of Frances, and of covered of the finite of mean of the same of meaning of Frances, and of covered of the finite of meaning of the same of th

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Next to the ables, the mast interesting object at \$6. Danie it is remarked to the Lagran of Human, established in the continues of the Lagran of Human, established in the continues of the best of the statue of Actor the uppersons of immensional and the statue of Actor the uppersons of immensional and the statue of Actor the uppersons of immensional and the statue of Actor the uppersons of immensional and the statue of Actor the uppersons of immensional and the statue of Actor the uppersons of immensional and the statue of Actor the uppersons of immensional and the statue of Actor the uppersons of immensional and the statue of Actor the uppersons of immensional and the statue of Actor the uppersons of immensional and the statue of Actor the uppersons of immensional and the statue of Actor the uppersons of immensional and the statue of Actor the uppersons of its actor that its next the Statue and the statue of Actor the uppersons the statue of Actor the uppersons the uppersons to that of \$1. Denie, and placed them and the statue of the Actor the uppersons it for the statue of Actor the upper statue and the statue of the statue of Actor the upper statue and the statue of the statue of Actor the uppersons the statue and the statue of the statue of Actor the uppersons the statue and the statue of the statue of Actor the uppersons the statue and the statue of the statue of Actor the uppersons the statue and the statue of the Actor the uppersons and the statue of the Actor the uppersons the statue of the Actor the uppersons the statue of the Actor the uppersons th



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in general near to the eastern coasts, and terminating with Cape Skagen (Skagens-Odde), the extreme point of North Jütland. Its loftiest points are the Himmelsberg, in the bailiwick of Skanderburg, North Jütland, which is 1200 feet high according to some, and 1800 feet according to others; the Dagbierg-Daas, 700 feet, in the bailiwick of Viborg, and the Askehoy, 690 feet. There is also a range of hills, called the Fyen Alps, in the island of Fyen, or Fünen, which runs from the north-easternmost point to the south easternmost at Svenborg, bending always towards the south-western coast: its highest summit does not exceed 400 feet. The chief mass of the Seeland hills in-clines towards the eastern coast, and extends from the northern mouth of the Sound to the southernmost ex-tremity of the island: the most elevated point is the Mangelberg, near Hirschholm, to the north-west of Copenhagen, which is 560 feet in height.

The western coasts of Jütland and Holstein are quite flat, and protected from the North Sea, or West Sea as it is termed by the Danes, in contradistinction to the Ost-See (East Sea, or Baltic), by sand-hills and dykes in South Jütland, or Schleswig. The eastern The eastern coasts of Jülland, as well as the island-coasts, are abrupt and precipitous, formed of chalk or limestone, and called Klinte by the natives: the Moens-klint, on the eastern side of the island of Moens, which stretches above ten miles out into the sea, is remarkable for its fossils and numerous waterfalls. The north-eastern shores of Seeland are separated from Sweden by the Sound, or Ear-Sound, (Ore-Sund, so denominated from the resemblance of its form to the human ear), the well-known entrance into the Baltic, which is about 70 miles in length from the Swedish point of Kullen-Cattegat to Falsterboe, and 11 mile (7986 feet) in breadth between Helsingör (Elseneur) and Helsingborg, where it is narrowest: in mid-channel it varies from 10 to 19 fathoms in depth. Between the western side of Seeland and the north-eastern side of the island of Fünen lies a second entrance into the Baltic, called The Great Belt, which is about 9 miles wide at its narrowest point between Nyeborg and Korsoer, and varies from five to twenty-five fathoms in depth, but, on account of sandbanks and rocks, is difficult of navigation for large ships. Between the western coast of Fünen and eastern coast of Jütland and the island of Alsen, or Als, is a third entrance, called The Little Belt, which is not more than three quarters of a mile, or 4100 feet wide, next Middelfahrt, where it is most confined; it is about 46 miles in length, is hazardous to navigate, and just above Middelfahrt is commanded by the fortress of Fredericia, in North Jutland.

The coast of Denmark is indented in several parts with pays and inlets, here called Fiords, or Vügen, the latter name being applied to the smaller bays. The largest of these flords are the Ise-Fiord, on the northern side of mity of Lake Flembude, there crosses the range of the island of Seeland, which is connected with the Roeskil- which traverse the peninsula of Jütland and Schies.

der-Fiord on the east, and the Lim-Fiord on the w it is about 74 miles in its greatest length, and con-several islands. The Lim-Fiord, which intersects N Jütland, occupies nearly 252 square miles; the K kiöpings Fiord is to the south of the last mentioned t and the Apenrade, Flensburg, and Eckenford Fioristhe eastern coast of South Jütland.

Denmark abounds in small lakes, the most consider of which are—the Mos See (about 5 miles long and broad), the Viborg Skanderborg, Garboel, and Language in Jutland; the Arresee, Esrumsee (colebrated for 11- :. and united by a canal with the Great Belt), the Tuand Loroesee, in Seeland; the Arreskoesee in Funen: Marienboersee in Laaland; the Ploener and Selenters. Holstein; and the Ratzeburgersee in Lauenburg.

As no inland point in Denmark is more than 35 miles from the sea, the country has no large rivers. 7 Elbe forms the southern boundary of Lauenburg, from town of Lauenburg to the Hamburgese district of the V lande, and the south-western boundary of Holstein. f. Altona to the Mas-Queller, where it discharges itself; the North Sea. The Danish streams which flow into a the Delvenau, Bille, Alster, and Stoer. The largest of navigable rivers of Denmark is the Eyder, which considered the north-western boundary of the empire the Franks in the days of Charlemagne, and of the Geempire in after-times; it flows out of an inland show. water near Bördeshiolm in Holstein, passes west-through Rendsburg, and skirts Friedrichstadt, d., Whole of its course of about 105 miles, and enters the N Sea at Tönningen, at the south-western extremes Schleswig, where it is 800 feet in width. The Tree Holstein river also, rises near Giselrade, flows south through the Lauenburg and Lübeck territories, is nave throughout the greater portion of its course of ale a miles, receives the Steckenitz, and winding north of Liffalls into the Baltic at Travemunde. The other stra which water Denmark and the adjacent island, and which the Danes give the name of Aae, scarcely does the name of rivers; the largest of them are the Guide in North Jütland, which rises in the Tyrrild Heil: North Jütland, flows through several lakes, and enters Cattegat near Raoders; the Nipsaae, in Schleswig, we enters the North Sea at Ribe; the Schol, Wid, and Bane, in the same duchy; and the Susaae, in Secland, w flows into the sea at Nestwed.

Denmark contains four large canals. The Sch. and Holstein or Eyder Canal, which connects the N Sea with the Baltic, was formed by rendering the E navigable from Rendsburg to Kluvensik, whence the takes an easterly direction through the northern ex

from north to south, and terminates in the Kieler Föhrde, a buy of the Baltie between Kiel and Friedrichsort. Its greatest elevation above the level of the Baltic is 27 feet; its length from Rendsburg to its termination is about 27 miles; it has seven bridges and as many sluices; is 100 feet broad at the surface, and 24 at the bottom; it is 10 feet deep, and capable of receiving vessels of 130 tons burthen. Its supply of water is derived from the Flembude lake. The Steckenitz Canal in Lauenburg, which unites the Fibe with the Baltie by connecting the Delvenau with the Möllner-See, Steckenitz, and Trave, was constructed in 1390, and establishes a communication between Lauenburg on the Eibe and Lubeck on the Trave. The Dane-kield Canal, on the island of Sceland, which was constructed by Count Daneskiold Samsoe, between the years 1810 and 1812, gives access from the south-eastern waters of the Great Belt to that quarter of the island which is richest in grain and timber; it begins at Noesdybroe, near Ringstedt, and is carried for about 23 miles to Nestwed, near the Baltic shore. The Odensee Canal connects Odensee, the capital of Funen, with the sea.

Mineral waters have been brought into use at Glücksburg in Schleswig, and at Bramstede in Holstein; and there are saline springs near Oldeslohe, in the same duchy.

The proximity of the sea renders the climate of Denmark temperate, considering its latitude. The cold is greatest in North Jülland, and least in the adjoining islands. The weather is in general very variable; rains and fogs are of constant occurrence; storms are frequent; the winter cold is not severe, but the summer heats are at times over-powering. The humidity of the atmosphere is a great advanuage to a country whose soil is of so sandy a mature. The thermometer seldom ranges above 20° Reaumur (77° Fahrenheit). The barometer varies from 281° to 28° 6'

The people of Denmark, with the exception of a few thousand Jews, resident in Copenhagen, Altona, and other towns, are of German descent, but of four distinct ruces.
The Danes, who inhabit Seeland and the circumjacent islands, North Jütland, and a small portion of Schleswig, were the Normans of former times: they use a dialect of the German, and are estimated at 1,350,000: the pure Gormans, who inhabit the duchies of Holstein and Lauenburg a... I the greater part of Schleswig, and whose numbers are computed at 650,000: the Frieslanders, who dwell along the vestern coasts of Schleswig and on the small islands in North Sea: the Angles, who live between the Bight of Flensburg and the Schley on the Baltic, whose united numbers are estimated at about 70,000; and the Normans, who people Iceland and the Faeroe islands. The present population of Denmark, its duchies, and the religious in the present islands. adjacent islands, is about 2,040,000. In 1820, it was 1,662,000; in 1827, 1,932,153; and in 1833, about 2,000,000. The earliest census we possess is that of the year 1769 for Denmark Proper, which includes Jütland and the neighbouring islands: the then population was 786,000; in neignbouring islands: the then population was 786,000; in 1787 it had increased to 840,000; in 1801, to 926,000; in 1830, to 1,190,512; and in 1834 to 1,223,800. The duchy of Schleswig, at the beginning of 1803, contained 325,743 inliabitants, and, at the beginning of 1835, 430,258. In the same years, and at the same periods, the duchy of Holstein contained 278,341, and 332,866 respectively.

contained 278,341, and 332,866 respectively.

The Dane is of a strong, well-knit, muscular make; his features regular, eyes blue, and hair commonly light. 'The gift of the Dane,' says Rothe, a native writer, 'is strength, where others have inherited liberty. He is susceptible of high, strong, and enduring feelings, but he is not easily roused; he has more common sense than wit, and, being of a national discounter discounter than the same of a national discounter than the same of a patient disposition, looks at every side of a question, and requires much time for deliberation.

The population of Denmark is collected in 98 towns, 45 market-towns (all in the three duchies), and 4985 villages, besides isolated farms and dwellings. It was thus classified in the year 1834—the number assigned to each class includes children, servants, and others dependent on the principals—clergymen, schoolmasters, and other teachers, 25,549; civil officers and clerks in public offices, 30,018; scientific and literary men, artists, and students, 5,029; officers in the army and military departments, 3,783; naval officers, 937; under-officers and soldiers, 10,075; sailors in the navy, 6,036; seamen otherwise employed, 34,103; employed in agriculture, 598,558; manufacturers and handiployed in agriculture, 598,558; manufacturers and handi-richsburg and Jägerpreiss; and numerous establishments craftsmen, 221,957; traders, 43,342; capitalists and per-of this kind are kept up by individuals, particularly in osus living on their property, 47,568; day-labourers, 139,957; Funen. The whole stock in Denmark and the duchies is professors, 43,576; criminals, 1,470; persons whose occu-

pations are not described, 11,742 total, 1,225,806. This return applies to Denmark and the duchies of Schleswig and Holstein only; and it is estimated that 1,100,000 of the whole of their then population were more or less de-pendent upon agriculture for their subsistence. The proportion of births to living individuals is 1 in 32; and of deaths to living individuals 1 in 40. The proportion of marriages to the population in the 10 years ending in 1834 was I to 123. On an average the issue of each marriage was 2 th children. In the same year the town population consisted of 295,212, and the rural population of 1,234,983.

Denmark is pre-eminently an agricultural state. The most fertile parts are the islands of Lauland and Falster, and next to them Seeland and Funen; but agriculture is not so skilfully or actively pursued in these parts as in Holstein and Lauenburg, particularly in the Nor.hern and Southern Ditmarshes of Holstein on the Baltic coast, where the most perfect tillage in Denmark prevails. Jülland has the least productive soil of any part of the kingdom, a considerable portion of its western districts, as well as those of Schleswig and Holstein, from the Eyder to the Limford, being wholly unavailable for agricultural purpo: es. The Danes, as agriculturists, are deficient in energy, intelli-gence, and thriftiness. Their backwardness in this respect arises from a variety of causes, of which the chief are, as Olussen, one of their countrymen, remarks, that the cultivator is rarely proprietor of the soil, that he is overburthened with dues and services, that there is too great an extent of common lands, that his capital is too small, and that property is too much subdivided.

Denmark and the adjacent islands contain an area of

Denmark and the adjacent islands contain an area of about 21,472 square miles, or 13,742,080 acres. Of this area there have been applied to useful purposes about 16,266 square miles, or 10,410,240 acres; being nearly 76 in every 100 acres. This quantity is composed of about 8,633,600 acres of arable land; 604,800 of meadows; 470,400 of pastures, &c.; and 537,600 in woods and forests; besides about 107,520 of arable and meadow or pasture land, and 56,320 of woods, forests, &c., in the duchy of Lauenburg The average yearly produce of the cultivated soil is estimated at 300,000 quarters of wheat, 1,400,000 of rye, 4,450,000 of oats, 2,000,000 of barley, 115,000 of buckwheat, 245,000 of peas and beans, 250,000 of rapeseed, 2,200,000 tons of potatoes, 2500 cwts. of hops, and 448,000 2,200,000 tons of potatoes, 2500 cwts. of hops, and 448,000 pounds of tobacco. It is stated by Nathanson that the pounds of tobacco. It is stated by Nathanson that the yearly exports of this produce, on an average of ten years (1821 to 1830), were from 900,000 to 950,000 quarters; namely, wheat, 130,000 quarters; rye, 185,000; barley, 315,000; oats, 200,000; buckwheat, 17,000; peas and beans, 14,000; and rapeseed, 70,000; besides 20,000 quarters of malt and 16,500 of meal and flour. By a return laid before parliament, the average exports of corn for the four years 1831-1834 were—wheat, 103,302 quarters; rye, 100,829; barley, 366,969; and oats, 171,954. Of the grain exported, above four-sevenths, and of the rapeseed more than four-fiths, are from the Danish duchies. As a proof than four-fifths, are from the Danish duchies. that agriculture, though comparatively backward, has made considerable advances, not only in the latter provinces, but in the northern parts and islands, it may be observed that Jütland and the islands did not probe observed that Jütland and the islands did not produce sufficient grain for their own consumption in the last century, whereas they now afford a surplus of at least 50,000 quarters for foreign markets. Much flax and hemp is also raised, but little of superior quality, and in the whole scarcely enough for domestic purposes. Denmark produces the usual kinds of vegetables; but horticulture is not carried to any extent, excepting in the viginity of the toware especially Comenhagen. Altons the vicinity of the towns, especially Copenhagen, Altona, and Glückstadt. With respect to fruit, large crops of the commoner descriptions are produced; but attention is paid rather to quantity than quality. The value of landed property in Denmark Proper (Jütland and the islands) is estimated at 316,000,000 of banco dollars (about 25,675,0001.)

The rearing of horses and cattle is an object of great attention. The light Danish and heavy Holstein breeds of horses are equally valuable in their way, the one for cavalry purposes and the other for draught. The Jütland breed is similar in figure and extraction to the Holstein, but has not so fine a head. The king has two large studs at Fried-

average, are about 7600 annually. In 1831, as many as 12,350 were sent abroad. The rearing of horned cattle is on an extensive scale, chiefly with a view to the making of butter and choese and salted beef. The stock of all ages is estimated at 1,607,000; and the number exported averages yearly about 23,800 oxen, 6800 cows, and 5760 calves. Of butter alone upwards of eleven millions of pounds' weight have been the annual average export of the last ten years. Cheese (about 9200 cwt. exported), lard, salt meat, hides, and skins are likewise exported in great quantities. flocks of sheep are kept: the best native breeds are the Kyderstedt and Frisian in Schleswig, and the Jutland race; but they are reared rather for the sake of their flesh and milk, from which last cheese is made, than for their wool. The stock is estimated at about 1,900,000, of which about 20,000 have been improved by crossing with the Merino The quantity of wool annually obtained is said to be about 4,880,000 pounds' weight, and the quantity exported is about 1,080,000. Of swine, Denmark possesses three species, the best of which is the Jütland sort; their numbers are about 450,000; the annual consumption about 250,000; and the yearly export about 20,000. Poultry of all kinds are raised, particularly geese, of which about two millions are annually killed. Much honey and wax is made in Fünen, Falster, and Bornholm, and also from the bees on the heaths in the duchies of Schleswig and Holstein; but neither the one nor the other is adequate to the domestic consumption.

The fisheries form a very essential branch of national industry the bays and inlets, and the mouths of the Danish rivers being well stocked with fish, afford abundant and profitable employment to the inhabitants in almost every part of the long line of coast. The fishing grounds of the Limford, and indeed of the whole northeastern coast of Jütland, are the most important with regard not only to the herring trade, but other descriptions of fish, such as mackerel, cod, salmon, eels, flat-fish, shell-fish, &c.: they employ upwards of 250 boats, and 1000 men belonging to the adjacent coast, besides a great number of vessels from other parts, among which are above 100 large barks, here called Quasen, which resort here from Sec-land, Fünen, and Bornholm. The average annual produce of salted herrings in this quarter alone is from 40,000 to 50,000 tons, of which between 15,000 and 20,000 are exported; in some years, indeed, the catch has proved so abundant, that the export has amounted to 40,000. The herring fishery in the Great Belt gives occupation to more than 100 vessels. Oysters are in Holstein a crown monopoly, which is let for about 1200l. per annum. Seals are taken on the Jütland coast about Eyderstedt, and their fat is converted into oil. There is an association for the herring fishery at Altona, who are the proprietors of twenty or thirty vessels. The Danes also take an active part in the shores of Greenland.

The fine forests which once enriched the Danish soil have gone to decay from want of care and from wasteful consumption. This has especially been the case in Denmark Proper and the duchy of Schleswig; and Olufsen himself does not estimate their present area at more than about 840 square miles. One fourth of them is crown property. The woods stretch northward from the Schley, along the eastern coast of Jütland to the Limford; there are long tracts of them also in the south-western parts of Fünen, from Bogense to Svenborg. The woods of Seeland, Falster, and Laaland are of low growth. The pine is the prevalent tree, intermixed with the beech, oak, and birch. Denmark is dependent for her supplies of timber on Norway, Prussia, Russia, and other countries, and the inhabitants are compelled, in many parts, from the positive absence of wood, to resort to any substitute, such as manure, straw, haulm, &c. for fuel. There is little inland game but what is found in the groyal and other forests; but great numbers of wild waterfowl are killed on the islands along the Schleswig coasts and in other parts.

Denmark possesses no mines or metals whatever; nor any minerals of importance, except coals, freestone, and salt: the coal-pits in Bornholm have been abandoned, and there is but one saltwork, that at Oldeslobe in Holstein, which yields about 5000 tons annually. The supply of salt is drawn from Portugal, Lüneburg, &c. Amber is collected on the Hitze, a sandbank on the western coast of Jülland; it is both of the white and deep yellow kinds. Potters and porcelain earths are also obtained.

Peat is got wherever there are swamps, and every villa; e in those parts has bog-land assigned for its supply.

In a country where agricultural pursuits create a greater demand for labour than what the population is competent to furnish, any great development of manufacturing industry cannot reasonably be looked for. In fact, out in population of upwards of two millions, we are told in there are not above 85,000 hands engaged in large mar. factures, and in mechanical employments altogether acres: The Danish capital is the chief seat of i... nufacture, and we refer to the article COPENHAGEN I C the details. Altona is next in importance: its principal productions are silk, woollen, and cotton goods, leather, sucrefined sugar, and tobacco. Lace is made on a verextensive scale in and about Tondern; and some so fine as to be worth thirty or forty shillings a year There are large tobacco manufactures, but they a said not to produce more than one-eighth of the quantum or the production of the quantum or the tity consumed. The woollen manufactures, which estimated to produce about 350,000 yards of coarse amiddling cloths, are chiefly in Copenhagen, Freder and other parts of Denmark Proper, and the cotton in and other parts of Denmark Proper, and the cotton in same capital, Altona, Roskilde, Christianfelde, and Honerau. There are 24 paper mills in the kingdom. who annual produce is about 1,200,000 reams; Randers principal seat of the glove manufacture; and Friedrich värk, Lyngby, and Haraldskjaer, of the manufacture ironwares, next to the metropolis. Linens are made with the condition of the condit Kiong and Holsteinborg, and in most parts constitute a occasional employment of the cottagers for the purpose supplying their own wants. Straw hats, sailcloth, glass, so leather, saltpetre, gunpowder, and arms, plated goods, charand earthenware, beer and spirits, thread, refined source. soda, and potashes, are among the productions of Danierindustry. The brandy distilleries exceed 3000 in number and there are upwards of 4000 hands employed in mass wooden shoes in various parts of Jütland. The peasure families make their own woollen clothing in general, with is composed of a coarse stuff termed wadmel, and nel-there are few articles of domestic use, whether utensile or

for apparel, which are not made by their own hands.

There is probably no country in Europe better adapted. more favourably situated in many respects for commonthan Denmark. It is the key of the Baltic, and possible peculiar advantages for a ready and cheap intercourse w. all the maritime nations of Europe. Copenhagen at the central point of the Danish foreign trade, which has be. greatly favoured by the neutral policy which the government has endeavoured to pursue during the last hundred years and more. Navigation, in which above 50,000 hands are employed, is a great source of profit to the country, for t Danes navigate their vessels on cheaper terms than m of their competitors, and are excellent mariners, on wh. account they are the carriers for other countries, particularly to the Mediterranean and Levant. This branch commerce is on the increase: in 1825, Denmark had .s. vessels of the total burthen of 118,393 tons; in 1829, .t. burthen 128,084 tons; and at present their number is mated at upwards of 3700, in burthen 143,800 tons. In .... first three years of the present century the average arriva. of Danish and Norwegian ships in foreign ports were arrally 3933, of the total burthen of 401,351 tons, of wh the Norwegian constituted one half at least; in 1-: they had increased to 4029 of 236,650 tons burthen, f: Denmark alone. This increase will appear the greater. when it is recollected that between the years 1807.
1810, as many as 900 vessels were lost or captured. which the trading ships of Denmark were in 1814 reduto so small a number, that their united burthen did : : exceed 74,520 tons. In 1831, the tonnage of the Br.t:-vessels which arrived in the Danish ports was 16.: (vessels 96); and in 1835, 22,249 (vessels 120). The the between the mother country and the West and East 1: colonies is quite free; the busiest traffic is carried on with island of St. Thomas; and the value of the native product and manufactures annually exported to all parts to al. 15,000,000 dollars or 2,340,000. The trade with Norway which takes much grain, tallow, soap, &c. from Denma employs 200 or 300 Danish ships, and that with Icelar Greenland, and the Faeroe Islands is of some importance. a preceding page we have given some account of the axper: grain; among the other articles of exportation are but cheese, brandy (about 3800 pipes), salted and smoked to ... (about 3,400,000lbs.), horned cattle (about 31,000 hear).

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1714, and a seminary for approved candidates in divinity in the same city. Out of a population of 2,040,000 souls there are about 1300 Reformed Lutherans, 2100 Roman Cathol.cs. 800 Mennonites, 1500 Herrnhuthers, and 1700 Jews; the remainder are Lutherans. The number of parishes is 1907.

Much has been done for the education of all classes in

Denmark. There are thirteen seminaries for educating teachers, upwards of 2500 primary schools, and 2000 others on the Lancasterian plan; thirty gymnasia or grammar-schools, of which eighteen are in Denmark Proper, four in Schleswig, six in Holstein, one in Lauenburg, and one in Iceland; and two universities, one in Copenhagen, and the other in Kiel; the first founded in 1479, and attended by about 600 students, and the other, founded in 1665, and attended by about 300. (For the Schools for the Deaf and Dumb, see that article, vol. viii., p. 335.) Among the public libraries are three in Copenhagen and one in Kiel. The designations of the eleven societies for scientific and national purposes which are established in Denmark are given under the head of COPENHAGEN. The number of new publications varies from 200 to 250 annually; but the number of periodical journals, &c., which amounts to between seventy and eighty, is large indeed, when compared with the population. No work which does not contain more than twenty-four pages can be published without the previous sanction of the director of police; and any offensive reflections or libels upon foreign potentates, whether original or extracted from other publications, are punishable as misdemeanours. In Iceland there prevails so ardent a thirst for knowledge, that manuscript copies supply the want of printed books, and there is scarcely one in a hundred individuals, above the ages of 12 or 14, who cannot read and write.

The numerical strength of the Danish army does not exceed 6000 men at present, independently of the troops employed in the colonies; but on the peace footing it nominally consists of-the engineers, nineteen officers and thirteen privates; the artillery, 4498 officers and privates; the cavalry, 3302 officers and privates; and the infantry, 31.026 officers and privates; besides a corps of 110 cadets, and a rocket-corps, 132, the total numbers being 39,099. A sufficient number of officers and others always remain at the disposal of the crown to call a force of 25,000 men at any time into active service. The heads of the army in 1836 consisted of a field-marshal, two generals, three lieutenant-generals, twelve major-generals, and seven brevet major-generals, together with an adjutant-general and a quartermaster-general, &c. Every soldier's engagement is for eight years, of which he is not at present required to pass more than two in active service. The militia, when called out, musters 59,000 rank and file.

On the 1st of January, 1836, the navy was composed of seven ships of the line, mounting 544 guns; eight frigates, 350 guns; and five sloops, five brigs, three schooners, and three cutters, mounting 200 guns: in all thirty-onc vessels and 1094 guns. To these must be added fifty-six gun-boats and six bomb-vessels, &c. The chief officers consisted of one admiral, two vice-admirals, two rear-admirals, six commanders, eleven lieutenant-commanders, two captains, twenty-five lieutenant-captains, forty-one first-lieutenants,

and thirty-three second-lieutenants.

The fortresses and fortified ports of Denmark are Copenhagen, Cronburg Castle, Korsoer, Fredericia, Friedrichsort, Friedrichshaven, Rendsburg, Christiansoe near Bornholm, Nyborg, and Glückstudt. The chief military and naval establishments are the Cadet Academy, Copenhagen; the Arsenal and Archive of Charts, in the same sity; a cannon and ball foundry at Friedrichsvaerk; an invalid hospital at

Eckernförde; and arsenals at Rendsburg and Randers.

History.—The oldest history of Denmark is pure tradition, derived from the suspicious source of the Icelandic Legends or Saga. The first fact of which we can speak is that the Cimbri, a branch of the Normans or Scandinavians, were the earliest known inhabitants of the peninsula of Jütland and Schleswig, which was thence called The Cimbrian Chersonesus. They first became known to the Romans from their taking part with the Teutones, about 100 years before the Christian zera, in the invasion of Gaul and Italy, in the times of Marius. About A.D. 250, the Goths overran the Scandinavian territories under Odin or Wodun, and imposed rulers of their own on Sweden, Denmark, and Skiold, Odin's son, is the first name which has

ments. Denmark appears kowever to have been divided into a variety of petty states, of which Skiold's descendants assumed the lordship for many centuries, and to have been inhabited by a warlike race of men, whose principal occupa-tion was piracy. The Normans, or Angles, under which designation the Swede and Norwegian as well as the Dane were included, during the eighth and ninth centuries. entablished their dominion in parts of England, which they distracted by their inroads until the middle of the eleventh century: they also made themselves masters of Normands under Rollo, colonised the Orkneys and Hebrides, the Isle of Man, Iceland, and part of Ireland, and pushed their settlements as far south as Spain, Italy, and Sicily. The first Danish monarch with respect to whom we are enabled to speak with certainty was Gorm, or Worm, the Old, a Skyldinger who brought lighted under his stray in \$250.00 dinger, who brought Jütland under his sway in 863, and succeeded between that date and the year 900 in unit. 2 every state in Denmark to his dominion. His son, Harold II. the Blue-Tooth, introduced Christianity about the Norway, and in 1014 the greater part of England, wherehe soon after died; in 1016, his grandson, knud the Secondard or Canute the Great, possessed himself of the whole of England and part of Scotland; and in 1030, of the remainder of Norway. To this monarch Denmark was debted for her greatness, laws, and internal organizate and the establishment of Christianity as the religion of the country. His successors, however, were not endowed with capacity enough to preserve his dominion in its integrit England threw off their yoke in 1034, and Norway years afterwards. A new dynasty out of the female time of Canute's descendants mounted the throne in 1047, in the person of Sven Magnus Estritson the Third, and held it. sceptre for four hundred years afterwards; but the fear. system erected by Sven and Canute stripped the sovereof his authority, rendered the Danish king dependent the the voice of the prelates and nobles, levelled the peasant the condition of a serf, reduced agriculture to the lovest ebb, and surrendered commerce into the hands of the Green man Hanse Towns. The sovereigns were forced, by to: assembly called the Handfaestningar, to recognise the states of the kingdom as their own electors, and to constitute to the controll of a council. The male descendants of Magnus Sven became extinct with Waldemar the Third in 1375; and Olaf the Fourth, of the female line, Waldemar's grandson, dying in 1387, his mother, Margaretta, styled to Northern Semiramis, ascended the throne of Denmark She acquired Norway by inheritance, and having substact Sweden by force of arms, united the three northern Landoms under one crown by the Calmar union in 1397. Swedes, however, could never be brought to endure it lengue, and after a long series of contests, ultimately concerned the union in 1523. These contests undermand the prosperity of the Danish monarchy no less than . . perpetual broils between the sovereign and his nobles the one hand, and the nobility and clergy on the other; the population decreased greatly, and the adjacent server as warmed with Danish pirates, while trade and navigate dwindled to insignificance. Margaretta's line having frequently the fetted the throne in 1439, and Brick the Seventh have been deposed, the Danish States elected Christian Court of Oldenburg king. Christian founded the university of Copenhagen in 1478. The sway of his descendants was however but of brief duration, for his grandson Cleris the Second, surnamed the Wicked, having become anoxious to all parties, the crown was transferred to the university due of Schleswig and Hols perpetual broils between the sovereign and his nobles of uncle Frederic the First, duke of Schleswig and Hols who received the crown of Denmark and Norway in i This monarch was the mere slave of the aristocracy. established abject servitude among the labouring clas-part of the law of the land. His son Christian the 71 united the duchies of Schleswig and Holstein in perpetuato the crown of Denmark in 133, and brought the turillent Norwegians to recognise the Danish kings as the sovereigns 'for ever.' In his reign the Referention to established throughout the united kingdoms, and a e de ! laws, entitled the 'Recess of Kolding,' was promuigned. The struggles arising out of his partition of the great part of Schleswig and Holstein between his brothers, as a source of much subsequent mischief to Denmark. and was not terminated until 1779, when the alienated terdescended to us as sovereign of Denmark; but we possess ritory was recovered by the cession of Oldenburg and Del-no record of his time beyond numerous legendary fragDue for strong the contraction of Foundation and Strong St

to fourteen long folio pages. He has also furnished the subject of an amusing paper in Mr. D'Israeli's 'Calamities of Authors,' entitled 'Influence of a Bad Temper in Criticism.'

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DENOMINATOR, the number of parts into which a unit is divided in any fraction; thus, in 7-10ths of a unit,

10 is the denominator. [FRACTION.]
DENS CANIS. [ERYTHONIUM.]
DENSITY. This term is absolutely of the same practical meaning as its measure, Specific Gravity, implying that relation of one mass of matter to another, which is suggested by our knowing that a given bulk of the first weighs more than the same of the second. The term has no absolute meaning: gold is more dense than air, but neither is absolutely dense, nor can we assign any meaning to the latter term. It were perhaps to be wished that the shorter term, density, should be employed instead of the longer one, specific gravity; but as custom has referred to the latter term all mathematical considerations connected with the former, we do not here pursue the subject fur-ther. [Specific Gravity.] DENTA'LIUM, a genus of testaceous mollusks, whose

place in the animal series was first satisfactorily determined by Mr. G. P. Deshayes. Rondelet considered the Dentalia as marine shell-worms (vermisseaux de mer), though he noticed them as worthy of particular attention; Lister introduced them at the end of the limpets (Patellæ); Lang followed in nearly the same steps, separating, after the Patellæ a section wherein he arranged, together with the Dentalia, all the calcareous tubes of Annelids then known. Breyne placed his genus Tubulus, containing the Dentalia, &c., at the head of his Monothalamous shells, the first of the two grand orders, the Monothulamous and the Polythalamous, into which he divided the testaceans. In this position Dentalium was separated from the Patella by all the other univalve shells comprised in the Cochlidia, as well as by the Polythalamous series; in short, by the entire interval of the univalve testaceans, Breyne, as M. Deshayes observes, having probably considered the Patellss as the passage from the univalves to the bivalves; for he places them mmediately before the latter. Tournefort gave the Patellæ a position at the head of the univalve shells, and at the end, pefore the bivalves, he placed the *Dentalia*, Entalia, and the other marine testaceous tubes. D'Argenville, in his 'Zoomorphose,' appears to be the first who attempted to give any notion at all approaching to reality of the animal, the result of a note and drawing which had been sent to him from India. Though the materials were too incomplete to furnish secure data for fixing its position, they gave informa-tion which former authors had not enjoyed, and there was certainly enough to prevent D'Argenville from placing it in the heterogeneous third division of his system, denominated by him the Multivalves. Linnaus arranged it immediately after Patella, and before Serpula, stating the animal to be a Terebella, and the shell to be univalve, tubular, straight (recta), monothalamous, and pervious at each extremity. Bruguière gave it nearly the same position: but if both these zoologists were right in making Dentalium follow Patella, they were as far wrong in placing it by the side of Serpula, Teredo, Sabella, and above all, Aspergillum. Lamarck, in his 'Système des Animaux sans Vertèbres,' (1801,) arranged Dentalium with Terebella, and other genera analogous in appearance. In the 'Philosophie Zoologique' he separated the class of worms of the Système into two other classes, and formed the 'annelida, with the section of external worms (vers extérieurs). He elevated, observes M. Deshayes, this division sufficiently in the series of Invertebrata, the presence of a heart and a the 'series' of Noerteevata, the presence of a heart and a circulation making it approximate to the mollusks; whilst the 'worms,' very inferior in organization, remained between the soft Radiata and the Insects. In this new class, adds M. Deshayes, we find the Dentalia in the same section with Serpula, Spirorbis, and Siliquaria. This arrangement was not altered in 'L'Extrait du Cours,' published in 1811. But, in the great work of the 'Animaux sans Vertèbres,' Lamarck, assisted by the labours of Savigny, and deceived, moreover, by the communications of M. Fleuriau de Bellevue, considered Dentalium as approximated to Clymene, and placed it in the family of Maldanians of M. Savigny. Systematic authors, generally,

Savigny, in his 'Système des Annélides,' gave a summary description of the animal, but it was too incomplete to decide the question finally, though sufficient to overthrow the observations of M. Fleuriau de Bellevue. The Den talium Entalis, which was sent to Savigny by our country man Leach, gave sufficient information to that celebrated zoologist to enable him to say that the animal had no trace of rings, that it had no hairs (soies) on the lateral parts of the body, that it was essentially muscular, and that it could no longer remain among the Chatopods.

Dentalium Entalis was the species on which M. D. claborate paper read before the Society of Natural Hist resolvents, on the 18th of March, 1825, he gave the fact which led him to the conclusion stated at the comment of this article. The following is a summary of the description: but we must premise that M. Deshayer's specimens were forwarded to him in article and mare controlled. cimens were forwarded to him in spirit, and were, couse

quently, a good deal contracted.

External Parts. Animal conical and elongated, like the shelly investing tube; (dorsal surface corresponding with the convexity of the shell; ventral surface corresponding with the concavity;) smooth and truncated obliquely at the anterior end, the centre of the truncation with a small pramidal process, which is the extremity of the foot. The posterior parts are less muscular, and the termination is usually a funnel-shaped expansion, variously developed in different individuals; for in some it is firm and well loped, and in others it is scarcely perceptible. This expansion is separated from the rest of the body by a strongly defined contraction. There is a muscular ring, broader in the ventral than on the dorsal surface, above this contract tion, and by that ring the animal is attached to the si c.i. which on its inner surface presents, at about one-fifth of its length from the posterior extremity, a corresponding in pression in the shape of a horseshoe, the interrupted pertion being on the concave side. On the dorsal surface a small elevation is perceptible, at about one-third of its length from the anterior end, indicating the place of the head. The whole extent below this is occupied by two muscles on each side, distinctly observable through the abdominal parietes. These muscles are symmetrical, that tened, and directed obliquely from the sides of the foot wards the dorsal surface and the posterior extremity of animal, giving rise to, and becoming commingled with. it muscle of attachment. On the abdominal surface, I. . . . wise, there are on each side, at about one-third of its leng ... from the anterior end, two symmetrical organs decreasing jagged, and of a dark brown colour: these form the live. Below this point, nearly the whole of the abdomen is vis-through its transparent parietes filled by granulations c tained in the very large ovary, and by the straight desce. ing intestine which terminates at the expanded extrem in a mesial vent. The whole of the anterior part of in a mesial vent. The whole of the anterior part of the animal is invested by a fine membrane, which is fixed the teriorly to the origin of the foot, and is free in front, when its circumference is thickened. It is perforated in its centre, and M. Deshayes considers this to be the mantle. thickered portion is produced by a circular sphincter. which, when contracted, wrinkles the skin, closely embracein its opening the extremity of the foot, and thus cuts of any external communication. M. D'Orbigny, jun, who fur nished a drawing of the living animal in an expanded state. makes the dilated lobes of the foot resemble a flower, where undulated and small corolla supports in its centre a pist. thickened towards the middle, and pointed at its free end

On slitting the mantle down the middle of its dor-al surface, separating it from its insertion to the right and left, and turning it downwards and to the right, the fact, the head, and the branchise appear.

The foot is elongated, subcylindrical, slightly conical, and flattened from above downwards, fleshy throughout, and situated at the interior and anterior part of the head. having its upper and under surfaces slightly grooved in the middle. The anterior extremity is largest, and its centre is occupied by a sort of conical nipple, broader at its base. being there partly covered by two small notched later. I lobes, the notches corresponding with the grooves of the foot. The posterior extremity has a bifurcated appearance, owing to the attachment there of the retractor muscles . !! not knowing more than Lamarck did, that knowledge being confined to the tube, followed Lamarck's opinion. Cuvier, in the first edition, placed it among the Annélides Tubicoles, and the first edition, placed it among the Annélides Tubicoles, appearables. (Penicillus, Lam.) and Siliquaria. middle portion projects a little into the abdominal cavity.

DEN

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They are found sometimes in deep water, frequently near

The species are numerous. M. Deshayes in the monograph which follows the anatomical part of his memoir above abridged, gives forty-two recent and fossil. Mr. G. B. Sowerby in his 'Observations on Mr. Deshayes's Monograph' (Zool. Journ. vol. iv. p. 195), proposes some corrections with regard to several of the species given in the monograph, and adds two to those recorded by Deshayes, and in the Proceedings of the Zoological Society (1832) describes four new species brought home from America by Mr. Cuming.

M. Deshayes separates his forty-two species into four groups, one of which is rejected by M. Rang, because it is occupied by Dentalium coarctatum of Lamarck, which M. Rang regards as belonging to his (M. Rang's) subgenus

Cresis belonging to the genus Clendora.

1. Shell not slit at its posterior extremity. a. Longitudinal striæ.

Example, Dentalium Elephantinum.
b. No longitudinal striæ.

Example. Dentalium Entalis.

2. Shell slit at its posterior extremity.

a. Longitudinal striæ.

Example. Dentalium striatum. No longitudinal strise. Example. Dentalium eburneum.

Shell having a marginal rim; not slit at its posterior extremity.

Example. Dentalium strangulatum.

## FOSSIL DENTÁLIA

'Of fossil species,' says Mr. G. B. Sowerby, 'there are many, particularly in the marine beds of the tertiary for-mations; the London clay and the Calcaire Grossier swarm with several sorts not easily distinguishable from the recent species, among which we may particularly remark the fossil species from Piacenza, which so nearly resembles D. elephantinum that Brocchi has not hesitated to refer if to that species, and the eburneum of Lamarck, which he says inhabits India, and is found fossil at Grignon. Deshayes, in his tables gives the number of living species as twenty-three, of the fossil (tertiary) thirty-four, and the following, Dentalia elephantinum, dentalis, novem costatum, entalis, eburneum, fissura, and strangulatum as both living and fossil. Mr. Mantell in his tabular arrangement of the organic remains of the county of Sussex (Geol. Trans. vol. iii. second series, 1829), notes a species, which he does not mame, in the blue clay of Bracklesham; Dentalium planum, in the arenaceous limestone or sandstone of Bognor; Denta-lium cylindricum, in the sand on Emsworth Common; Dentalia striatum, ellipticum and decussatum, in the Gault or Folkstone marl; and one or more, unmamed, in the Shanklin sand (Lower Green sand). Dr. Fitton figures one species, Dentalium medium, from the green sand of Blackdown in his interesting 'Observations on some of the strata between the chalk and Oxford Oolife, in the south-east of England. (Geol. Trans. vol. iv. second series, 1836.) And he notes D. ellipticum in the Gault at Copt Point, on the authority of the Rev. G. E. Smith. In his 'Systematic and Stratigraphical List of Fossils' (Appendix B. to the same memoir) four named species, including D. ellipticum and D. medium, and an uncertain species, are noted from the Gault of Kent, South Wilts, and Cambridge, and the sands of Blackdown. Mr. Lea in his 'Contributions to Geology,' (1833,) describes two new species, Dentalium alternatum and D. turritum from the tertiary beds of Claiborne, Alabama, and gives the following summary. 'In Great Britain fourteen species have been obtained from the Lias to the Crag. M. Deshayes's tables give thirty-four, of which thirteen are from the Paris basin, the Eccene period. In this country (America) Dr. Morton has observed casts in the upper green sand of New Jersey and Delaware, and Mr. Say, one species, the attenuatum, in the tertiary of Maryland. Mr. Murchison informs us that he knows of no

Dentalia in the Silurian or underlying systems of rock.
DENTATUS, the surname of the Roman consul Curius,

the name Dentatus from this circumstance. He gained several victories over the Samnites, Sabines, and other, and was remarkable for his great frugality. When the ambassadors of the Samnites went with a quantity of g to attempt to bribe him, they found him cooking and vegetables on his fire, and were dismissed with the ich. that he preferred ruling the rich to being rich, and that he was could not be conquered in battle was not to be corrupted by gold. (Horat. Od. i. 12, 41; Florus. i. 15.)

DENTATUS, LUCIUS SICI'NIUS, a Roman time.

bune, who distinguished himself in battle chiefly aga -- t the Equi and the Sabines. Livy calls him Lucius Siccisiii. 43). According to Valerius Maximus (iii. 2), he has been in 120 engagements, had forty-five wounds in the breast, and had received an accumulation of honours also claudius he was murdered by the soldiers whom be a appointed to command. He no sooner perceived their sign than he stood with his back to a rock, and drawn his sword, killed fifteen of his assailants, and woun. thirty more: at length they ascended the rock, and over whelmed him with stones from above. On their return their camp they gave out that they had engaged with t enemy, and that Sicinius had fallen in the battle. (Diony.

DENTILS. [COLUMN.]
DENTIPORA. (MADREPHYLLŒA.]
DENTIROSTRES. [BIRDS, vol. iv., p. 431; LANIAI.4
DENTITION, the formation and evolution of the text. The varied processes by which the teeth are formed, a veloped, and arranged, are among the most curious accomplicated operations of the animal economy. The ferent stages of dentition, in the human being, mark distinct epochs of human life, in which many important charge occur in the physical frame, simultaneously with with

new mental powers are developed.

The teeth differ in their organization in several in portant respects from all other organs of the body. The are of a bony structure, and are placed in the archethe upper and lower maxillary or jaw-bones. They con-of two sets, of which the one is intended to last only for short time, while the other is destined to last during it whole term of life. The first are called the temperary is the second the permanent teeth. The temperary terms the second the permanent teeth. the permanent, have a less firm and solid texture, and t characteristic forms and prominences are much less stre marked. The permanent teeth, thirty-two in number, arranged in perfect uniformity, eight on each side of enjaw, those of the one side exactly corresponding with the of the opposite. They are divided into four distinct climaters. which present specific differences in size, form, development. articulation, and use; namely, on each side of each j.... two incisores, one cuspidatus, two bicuspides, and ti... molares. There are no phenomena in the human econ : more wonderful than those by which these teeth assess. their ultimate form, position, and relations.

Preparation is made for the production of the teeth! : before the period of birth. If the jaws be carefully comined about two months after conception, an extrement jelly-like substance is found lying along the colored maxillary arch. At the third month this has assisted. a somewhat firmer consistence, and is contained with shallow groove of bone, which constitutes the first step wards the formation of the osseous plates between with the teeth are to be ultimately included. The pulpy stance now begins to be partially divided into distinct tions. At the same time filaments of bone shoot ac from one side of the groove of bone to the other, and define the divisions of the alveoli or sockets, in which teeth are to be contained. The separate pulps formed the division of the pulps substance constitute the rudam or bases upon which the teeth are formed. As yet they upon the vessels and nerves which run along the bottom the bony groove. They are extremely soft, gelatinous, a semitransparent. Each is partially enclosed in a membro

or sac.

If this sac be opened at the fourth month, a small r of essification may be distinctly seen deposited upon coof the pulps. This is the commencement of the fature. of the bony substance of the touth. The ossilic matri who defeated king Pyrrnus near Tarentum. He is said formed not by the pulp itself, but is secreted from the is by Pliny to have been born with teeth, and to have received and deposited upon the pulp by an extremely delicate, thus,

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resolutions when provey by soffices, and which are considered to the process of the provided of the resolution of the re

of the first permanent molares; but the latter are not yet very distinct. At the fifth month, or rather earlier, may be distinguished the pulps of the permanent central incisores, though extremely small, and still closely attached to the parent sacs.

At birth the alveoli of the temporary incisores and cuspidati are formed with some distinctness; and partially also the alveoli of the molares. Ossification has advanced on all the temporary pulps, so as to form shells of bone, reaching some way over their crowns. It has also commenced in a minute point on the first permanent molares. The sacs of the permanent incisores and cuspidati may also be distinctly perceived lying in contact with the temporary ones, immediately behind them, and exhibiting in a very beautiful manner the peculiar connexion between them which has been described.

As ossification proceeds, the roots of the teeth continue to elongate, until first those of the incisores, and subsequently the others, can no longer be retained within the alveoli; preparation is now made to facilitate their passage through

the gums by absorption of the containing parts.

When the tooth has arrived at this stage it presses upon the gum, a portion of the sac being still interposed. As this membrane has already secreted the enamel, it becomes absorbed at the point where pressure is first made, and the gradual removal of the sac and gum is the consequence. It is not improbable that when the membrane has fulfilled its office, it becomes removed by the spontaneous action of the

absorbents, independent of pressure.

The age at which the teeth first make their appearance varies considerably; frequently without any apparent reference to the constitutional powers of the child. Instances are not wanting in which children have been born with two or more teeth. In many other cases the teeth have not come through the gum until fourteen or sixteen months, or even as late as two or three years. In general however dentition may be said to commence at the age of from five to eight months. It usually proceeds in the following order, the teeth of the inferior jaw almost always preceding those of the superior for a longer or shorter time.

From 5 to 8 months, the four central incisores.

,, 7 to 10 ,, ,, lateral incisores.

,, 12 to 16 ,, ,, anterior molares.

,, 14 to 20 ,, ,, cuspidati.

,, 18 to 36 ,, ,, posterior molares.

These periods are however only given as a general rule, liable to continual exceptions, not only in the time at which the different teeth appear, but also in the relative order of

their precedence.

According to Dr. Ashburner, who has paid great attention to this subject, and who has had ample opportunities of observation, the teeth of the first dentition commonly cut in couples; the two anterior incisores of the lower-jaw appear first; then, in perhaps from fifteen to twenty days, the two anterior incisores of the upper-jaw come through; to these succeed the lateral couple of incisores of the lower-jaw; then come those of the upper-jaw. After these the two molar teeth nearest to the lateral incisors of the lower-jaw appear; then the first molars of the upper-jaw; after which come the lower two canine; then the upper canine; then the two second molar of the lower-jaw, and afterwards the corresponding molar of the upper-jaw. The period occupied in the process is about two years from the appearance of the first tooth.

The first formed of the permanent teeth are the anterior molares, on which the first point of ossification may be seen at birth. At about the age of twelve months the ossification on these teeth has proceeded to a considerable extent; also on the permanent incisors, and it has commenced on the lower cuspidati, the upper ones being generally two or three months later. About the time when all the temporary teeth have made their appearance, ossification is found on the points of the bicuspides, and the bony shells of the teeth before mentioned have acquired considerable size.

Most of the permanent teeth are larger than those which precede them. They are placed during their progress a little behind them; hence they are confined within the segment of a smaller circle; consequently, as they approach more and more nearly to their ultimate size, they must become very much crowded in the jaw. 'The examination of the maxillary bone of a child of about five years old,' obtves Mr. Bell. 'will show this fact in a very striking man-

ner. At this period the jaws being considerably decrements by the development of the alveolar processes, the sockers which the permanent teeth are lodged will be found yield beneath those of the temporary, some higher than of and the bony shells are closely packed in such a manifest occupy the least possible space. Thus, in the upper the central incisors are situated immediately beneath nose, the lateral incisores thrown back behind the positive cuspidati, and the bases of the latter scarcely a quitof an inch below the orbit: in the lower jaw the cuspidate at the very base of the bone, with only a layer beneath them; but the crowding is much less siderable than in the upper jaw, from the smaller computive size of the incisores.

'At from six to seven years of age the whole of the manent teeth are more or less ossified, excepting the d sapientiæ; so that, previously to the shedding of any of temporary teeth, there are at this time no less than 'eight teeth in the two jaws; namely, twenty deciduous whole of which are perfected, and twenty-eight permitted in different degrees of development, within the houses.

in different degrees of development, within the bone. At a particular epoch of human life, the temporary are exchanged for a more numerous set, of a stronger more durable structure, and of increased power of mitton. The original teeth become loose in their so their roots are eaten away; their crown crumbles a cedes from the gums, and at last they fall out. This cakes place in the temporary teeth exactly in the control they were originally formed, and in which through the gums. Thus the central incisores of the jaw fall away first, then those of the upper jaw, then zeinterior lateral incisores, and so on.

The mode in which this change is effected, which catutes the shedding of the teeth, is by a process of absorbed the anterior parietes of the cavities in which the permiteeth are contained are removed by the absorbent residual consequence of which the teeth are allowed to advance the sockets, then the roots, and lastly the crow the temporary teeth are absorbed. This absorption cobe solely the effect of pressure produced by the advance permanent teeth; for the process goes on when such some cannot possibly have existed; it is, in part at like the preparation of the cell for the reception of the manent pulp, a true process of anticipation. Next the advancing permanent teeth displace the receding addoust teeth; but the jaw grows and enlarges consequences with the increasing bulk and number of the which it is destined to receive.

The change of the temporary for the permanent to commences, in the majority of instances, at about to years of age, 'though,' says Mr. Bell, 'I have occussed known it to occur as early as five, and as late as eight a and a half. The first permanent molares usually picture gum before the loss of the temporary central incisores, their appearance may be considered as indicative of the proaching change. The following are about the me periods at which the different permanent teeth are grally cut, but so irregular are they in this respect, comparatively little dependence can be placed on a statement. Those of the lower are here indicated, 21, 1 mooths.

 Anterior molares
 6½ yea:

 Central incisores
 7

 Lateral incisores
 8

 Anterior bicuspides
 9

 Posterior bicuspides
 10

 Cuspidati
 11-12

 Second molares
 12-13

 Third molares, or dentes sapientize
 17-19

Such are the main phenomena which relate to the cess of dentition when this operation is performed in feetly natural and healthy manner. But this producing exceedingly apt to become deranged, producing evilar system often most serious, and even fatal, and the predaction of the natural process will enable us readily to derstand the nature, extent, and causes of the diseases was often result from the morbid progress of the functions.

(Bell on the Anatomy, Physiology, and Diseases Teeth; Ashburner on Dentition, and some co-incident orders; Meckel, Man. d Anat.; Serres, Nouvelle Time de la Dentition; De la Barre, Seconde Dentition.

DENTITIOS. AND CARLAGE. DIFFICULT. DIV.

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The external skin sympathizing with the irritation set up in the internal mucous surface, is constantly affected with eruptions of various names and natures, sometimes attacking the scalp, sometimes surrounding the lips and extending over the face, and at other times covering the whole body.

The irritation is propagated from the mucous membrane of the mouth and fauces to that of the air passages and air vesicles, inducing hurried, difficult, and painful respiration, frequent cough, and all the symptoms of inflammation of the lungs, ending frequently in the development of tubercles, and the production of other organic and fatal

diseases of the lungs.

There is the closest possible connexion between the skin, the digestive surface, the respiratory surface, and the great nervous centres, the spinal cord and brain. Any irritation excited in the former is readily propagated to the latter. There is a direct route by which the intercourse is established. The nerves proceeding from all these surfaces take a direct course to the spinal cord and brain, where they communicate the irritation which they receive, and excite, among other diseases, more especially that which constitutes hydrocephalus acutus, or water in the head. This disease, among the most formidable to which infancy is subject, and the most common cause of which is anormal dentition, is preceded by the start in sleep, the slight chill, hardly amounting to rigor; the flushed face; the sudden, darting, transient pain in the head; the unusual drowsiness; and then come the sudden start from that deep sleep, with a loud scream; the injected eye, the dilated pupil, followed by the constant rolling of the head upon the pillow, the loss of sight, and the progressively increasing insensibility, and coma. The irritation thus produced in the spinal cord and brain is quickly reflected back upon those muscles the action of which depends upon an influence derived from these great nervous centres—the muscles of volition, which are affected with twitchings, spasms, convulsions, sometimes passing into chorea, epilepsy, catalepsy, and tetanus.

when the acute symptoms induced by inflammation of the brain, followed by effusion, pass away without immediately destroying life, it is often only to leave a state of

permanent idiotcy far worse than death.

Besides all these evils produced by anormal dentition, there is one specific disease that results from it of a most formidable nature, and often fatal. This affection may be termed the disease of development; it is commonly called infantile remittent fever. The accession of this disease is denoted by languor, lassitude, chilliness, shivering, succeeded by heat of skin, perspiration, and accelerated pulse. The little patient is spiritless, discontented, and fretful. Yawning, sighing, marked increase of irritability, unusual mutability of temper, loss of appetite, perhaps alternating with importunate desire for food, which when given often cannot be eaten, some peculiarity of respiration, and at last impatience of light and sound, accompany or quickly follow a distinct febrile attack. The feverish symptoms disappear or remit soon to recur or exacerbate; and these remissions and exacerbations are characteristic marks of the disease. The colour of health is gone, and the colour often changes. A flush of the countenance, preceding slight rigor and paleness of face, is succeeded by slight headache. There is a remarkable desire to pick, principally the nose, sometimes the lips and fingers, often other objects; frequently the breath is offensive, and cough, headache, and griping pains in the bowels are present, with more or less of sickness, faintness, sighing, starting, more particularly in sleep, moaning in sleep, grating the teeth, sleeping with the eyes half open, and a relaxed or on the contrary an exceedingly constipated state of the bowels. Occasionally the pupils suddenly dilate, perhaps only one pupil, and then as suddenly contract. 'Perspiration is a part of fever, and this is sometimes observed night after night succeeding to no very remarkable heat of skin, but to a great drowsiness, which in itself is a proof of exacerbation, though the ac-celerated pulse of fever may be wanting. The moaning, picking, or starting, with any of these conditions, constitutes part and parcel of this disorder. Sometimes the ailment is slight in degree, or it may assume an acute form with all the fire and anger of a hot fever. Sometimes it is typhoid in its type. Whatever character may be assumed by this disorder, it is coincident with an irregular course of the development of some organ of the body; and commonly the irregular development is in the nutrient organs, and of these most commonly the teeth and jaws."

Fatal disease may arise from anormal dentition lover before the usual period of cutting the teeth. A turze condition of the vessels about the soft and delicate period in the membrane that envelops the whole rudimer. In tooth, may compress the dental and even the maximizeneries; and pressure on these nervous tendrils may, we certain conditions, be tantamount to pressure applied rectly to certain parts of the brain; hence irregularity the course of growth, at the earlier period of teething, in produce a sufficient degree of pressure to excite a headegree of irritation in the brain, producing even fatal vulsions. Many striking cases of this kind are on record of which the following brief history may serve as an ample. A fine healthy-looking child, of a strong headed the mother, by a careful examination of the body after death. The internal organs, for the most part, we healthy; the stomach contained only a little milk; the mucous surfaces of the intestines were free from discretion that envelop the brain, and more especially the brain itself was healthy. In the head the brain itself was healthy. The jaws were carefully amined. The capsules of the incisor teeth were large a very vascular, much more advanced than usual. With lancet, the cartilaginous rim of the lower jaw was attempted to be removed, with a view of exposing the capsules of the fluid, that the instrument cut into them and let it it. This was an example of development proceeding too hast.

This was an example of development proceeding too hast...

It is common for the symptoms of irritation which attention the evolution of the teeth to appear about the third of fourth month; they usually precede the appearance of the teeth by several weeks, and they occasionally subside then re-appear a short time before the tooth makes its with

through the gum.

Disease arising from anormal dentition is not confined to the period of infancy. In children of irritable constitutions in whom the maxillas are imperfectly developed, the irruption of the second or permanent teeth is something attended with serious and even fatal disorders. Nay, even the period of adolescence is by no means free from severe diseases produced by this same cause: for in consequence of the development of some of the teeth having been preternaturally delayed, or in consequence of an imperitational even for the jaws, at the period when the development of the jaws, at the period when the development are about to appear, delicate, nervous, and irrustional even for the parotid and submaxillary glands, painful and sometime periodical affections of the ear and face, slight or recurring ophthalmia, irregular convulsions, epilepsy, and observation of the teeth or the removal of the local irritation.

Animals are not afflicted with these or any analog. evils from the evolution of their teeth, and they are; duced in the human species altogether by the unnature circumstances in which the infant is placed in the proartificial state of society. The chief causes of these grave. evils are-1. Food, unnatural in quality and too great in quantity. It is seldom that an infant lives solely upon renatural food (human milk) during the early months of existence. If it take other food, that food is either dure: or it is not. If it be not digested numerous ailments produced; if it be digested the system is too highly r rished, and becomes too full of blood, from which it is care to see that any one or any number of the diseases whehave been described may result. 2. The practice too common in this country of keeping the heads of infants and young children very warm by clothing, by their wear flannel caps, and by having their heads almost const wrapped in a warm woollen shawl, from the dread of ti. .. catching cold. The naturally great determination of busit to the head is too much favoured by this practice, who co-operates more powerfully than may at first view be parent with the other circumstances that conspire to poduce disordered dentition.

3. The confinement of infa: in close and heated apartments, in the impure air of lurtowns and cities without exercise. Such children in whall the evils of dentition are most frequently produced the severest forms, are deprived of the natural stimu afforded to the varied processes of growth by pure air at. active exercise.

The twestment of the various and contribute conserved by the state of the described period, and the property of the described her may be an applied to plant the described by the described period. Without a proper regulation of the described her may be a special to plant the described by the described period, and the state of the howelf multiling are to charactery, and the state of the howelf multiling are to charactery on the property of the most of the market multiling are to charactery of the most the most of the second of the most of the

directing the edge rather towards the construction.

"The prejudies of former times against this steads and most efficients operating to fast visiting to the frequent experience and utility. It is unpossible for the most prepulited is witness the effects which continually result from it without becoming a convert to its use. In the most of the most manners danger, when them it is almost been antispected as tim only retire? Iron forms are and hopping ambiguity in a start of the lattle surfaces and hopping ambiguity in a start of most tenther to appear the lattle surfaces. It is almost a start of the lattle surfaces to the lattle surface

desired to their parents in a state of same and early, and is at abort a space of time as would accreate large approach createles.

There are lew cases in the management of discuss which require more prompt decision in the application of canadias in more prospected and remedial specification of canadias in the application of canadias in the application of canadias in the application of the privacy of the Life will often depend on the clocks at the removed of the Life will often depend on the clocks at the removed of the Life will often depend on the clocks at the removed of the Life will often depend on the clocks at the removed of the life will often and the cantinus lightness with which it is aliminatures. If it was present in morelly to add that the bowels phought be remainfuly kept in a summittee statistical action of the states of discretions by materials at the states of a slight degree of discretions by materials at the states of a slight degree of discretions by materials at the states of the state of the contynations, and a slight degree of discretions in modulies, with an exception analysis of, and slightly and that the more extreme continuous about the extrement in modulies, with an exception of the pripage becomes remainstrated or an extreme of the Discretion of the discretio

DEO

DEOGHIUM, a diaron in the province of Consistent, forming part of the dominions of the Rajan of Nasquere, and typing principally between 40° and 31° North learneds. It is separated into two divisions, designated Designor shares the Gloria and Designar below the Gloria. The division above the Gloria in the Narhados to the mostly and the plane of Nasquere to the Society, it is notice as middletting, with and dates measuring to regular measures of the principal dates measuring to regular measures. The displace the Gloria facts the south; it is crossed by according to the dates of the Windle with the Windle dates. The dates of the south; it is crossed by according to the country the Windle and the Windle Gloria. The southers is a specially see open and undulating, and asserted by manuscular streams.

satisfied interest the Wirth and the Write Ginget. The country is open and analyting, and estated by manuscus streams.

In the time of Aircongrade, the country was in a way wild and anostiled condition; the Rajah was little more than the acculied lead of numerous petrywhele, and was tromney to just through of Delph. Shortle other than the part of the Bhoopele tamby counted the chort power in the part of India, and Decelor became the central part of the receipts, the libraries tamby counted the chort power in the part of India, and Decelor became the central part of the receipts, was still allowed to the Good putiess, and the show of coveragedy, but without any of its power, is affill given to the ancient royal family. The number of lower and objuges in the apper discuss was 1241 in the view and inlanges in the apper discuss was 1241 in the view and inlanges in the apper discuss was 1241 in the view and influence file two divisions was in these parts I sequel and in 170,012 to spectively, and the revenue amounted to 19,04,820 copes, or 190,482.

Decelor, the captish, is in 24° 43° North lab and 10° ab' flast long. It as formerly a place of some consequents, let be long after the first born in the north violatic extraordity to the district of Egibborn in the north violatic extraordity to the district of Egibborn in the north violatic extraordity of Beneal, in 24° 32° North between order of fact larginals. At a particular session of the year, the resh leading to this place are covered with pligrous of all ages, tools code and for the tempts which them a larges stack of the search water than they capter in satisfy than award and the prigrous has price with them a larges stack of the search which to prove the them they remaid now of the country, become from their toroid remains and the price of their country the country of country of country of the price of Country 
DEGREEN CHARLESTON

DEP

DEPARCIEUX, ANTOINE (often written, but erroneously, De Parcieux), an able mathematician, was born in 1703 at the village of Cessoux near Nismes. His father was an humble peasant, and unable to afford him the least education; but the display of his precocious talents induced an opulent gentleman in his neighbourhood to place him in the College of Lyons, where his progress in his studies was rapid and striking, especially in the mathematical branches of science. After finishing his course in this institution, he repaired to Paris, without money and without friends; but he turned his talents to account by drawing sun-dials, and ongaging in other employment of this kind, by which he was able to obtain a subsistence. His accuracy in these drawings being remarkable, he at length acquired an attachment to the pursuit, and obtained ample employment to secure him a comfortable livelihood. He afterwards appears to have turned his attention to machinery; and probably his talents were extensively employed in civil engineering and other collateral subjects. He died September 2nd, 1768, aged 65.

His publications were as follows:

Tables Astronomiques, 4to. 1740.
 Traité de Trigonometries Rectiligne et Sphérique, avec Traité de Gnomonique et des Tables de Logarithmes,

3. Essai sur les Probabilités de la Durée de la Vie Hu-

maine, 4to. 1746. 4. Réponse aux Objections contre l'Essai (the last work),

4to. 1746.

5. Additions à l'Essai, &c. 4to. 1760. 6. Mémoires sur la Possibilité et la Facilité d'amener auprès d'Estrapade à Paris les eaux de la rivière d'Ivette,

Besides these separate works, he published sixteen me-moirs amongst those of the Paris Academy, between the years 1735 and 1768.

Déparcieux was created Royal censor and member of the Academy of Sciences in Paris. He was also a member of the Academies of Berlin, Stockholm, Metz, Lyons, and

Montpellier.

DEPARTMENT (or in French DEPARTEMENT), a territorial division of France, introduced by the States General in the latter part of the reign of Louis XVI. We shall take this opportunity to give some account of the territorial divisions of France as they exist at present.

A commune is the smallest territorial division in the

present system of France. In the rural districts and in the smaller towns a commune may be considered as equivalent in area and population to our ordinary parishes, or to the townships into which our more extensive parishes are divided. It is only in respect of area and population that we compare the communes of France with our own parishes: the two divisions were made for different purposes, the parish being an ecclesiastical division, which existed in France as well as in England, while the commune was for civil or military purposes. There is moreover this difference, that while our larger towns and cities (especially those whose extent and importance are of an antient date, such as Norwich, Exeter, Bristol, or York) consist of several parishes, the larger towns of France, with the exception of Paris, form but one commune. The term commune, which is nearly equivalent to corporation, is of antient date. When Louis VI. (le Gros) sought to raise from the towns of the royal domain a burgher militia as a substitute for the troops of his rebellious and disorderly vassals, and in order to form an alliance between the crown and the commons by sheltering the latter against feudal oppression, he formed the freemen inhabiting the towns into communautés (in the Latin of the middle ages communitates) or corpora-tions, gave them power to raise troops from among themselves, and conferred upon a municipal body, constituted for the purpose, an authority over these troops similar to that which had been exercised over the baronial levies by the great lords themselves, and by their subordinates, the counts, or governors of towns, the viscounts, castellans, &c. These are not to be regarded as the first municipal corporations which had existed in France. Under the Roman dominion there were many; but during the distracted reigns of the later Carlovingian princes, these corporations had mostly, if not entirely, become extinct. The militia of the towns was designated in the Latin of the middle ages communize (communes), communitates parochiarum (the common-alties of the parishes), or burgenses (the burghers or

burgesses). Where the town consisted of several pured. the troops were formed into smaller bodies according :. the troops were formed into smaller boules accommend their parishes, and marched into the field in those division-the parochial clergy accompanying their respective pationers, not to join in the conflict, but to discharge to spiritual duties of preaching to them, confessing them. administering religious rites to the dying. Some of munes consisted of a number of small towns united under one corporation charter. In process of time the grebarons followed the example of the king, in order to tecome independent of their vassals, among whom the insubordination existed as among the vassals of

The municipal officers were generally designated Scat or Echevins, and the principal of them had the title. Major or Maire (Mayor). The communes enjoyed narights and exemptions; they fortified their respective toward were, in fact, so many municipal republics scatte. over the kingdom, constituting the most substantial wark both of the public liberty and the rights of the cruagainst the encroachments of the nobility. As howthe regal power gained strength, the influence and apportance of the communes declined. Their militia c: into disuse when the kings of the race of Valois began t form a standing army; and upon various causes or preto-:many of the incorporated towns lost their charters, and : turned under the jurisdiction of their feudal lords. Un: the present system, the whole of France, the country well as the towns, is divided into communes, and the ion administration and the management of the revenues of e: are placed under a municipal officer, who may be compared perhaps with our constable or headborough, but who terperhaps with our constable or headborough, but who bearthe same title, that of Maire, which was borne by the last of the antient communes. He is appointed by the king of the antient communes. He is appointed by the king of the prefect of the department, and is assisted by a communal council, the members of which are chosen by the remainded of the communal electors, who are those inhabitants who pay is edirect taxes, in the proportion of one-tenth to the wind population. (Loi sur l'Organisation Memoripale, 21 Memory lass here to series latest 1831.) As the plan in France has been to assimilate divisions for civil and ecclesiastical purposes, we believe that the communes may in the rural districts and : smaller towns be regarded as ecclesiastically equivalent our parishes. Each has its church and its cure or clergeman. Some have also succursales or chapels of ease. I..

larger towns have several churches. A canton is a division consisting of several community over which a judicial officer entitled justice de paix titles of the peace) is appointed. These functionaries receive small salary; they decide civil suits if the amount in question is small: and all suits whatever must be heard by coof them (in order that he may if possible bring the pure to an agreement) before the cause is carried into a hard The cantons into which the arrondissements of >: Denis and Sceaux (comprehending the metropolitan department of the Seine, beyond the limits of Paris) are vided, contain from six to thirteen communes each, or upthe average nearly ten each; but the cantons which is farther from the capital contain a greater number: the average of France is nearly fifteen communes to a canton.

An arrondissement (circle) comprehends several canseven on the average of France: the two arrondisseme. of the department of the Seine above mentioned have four cautons. The municipal officers of the arrondisements will be noticed presently.

A department consists of several arrondissements, ust a four or five: some departments have only three arrond.seements; others have as many as six. The substance of following account of the departmental administration was take from the Dictionnaire Universel de la France. though it immediately applies to the carly part of the noof Bonaparte, it is (in the leading points at least), we lieve, applicable to the present state of France. There ... at present in France eighty-six departments.

At the head of each department is an officer entit!

prefet (prefect), who has alone the administration of the local government. His usual residence is at the departmental capital; but he makes every year a circuit of inspection. mental capital; but he makes every year a circuit of inspec-tion through his department, and gives an account of the result of his circuit to the proper officer of the central z-vernment at Paris. He is not allowed to be absent fine-his department without the permission of the government, which he obtains through the ministre de l'intérieur (mirithmer of the instance on home sectionary). Use a sampled in some of the dates up a some glovel, he diparament in some of plantaneous more glovel, he diparament of the dates up a some glovel, he diparament of the south distribution in the proportion of the south of the south distribution in the proportion of the south of the so

ship's course to be oblique to the meridian, there is a right- | read. Such order however, while it concludes the parties, angled triangle, of which the hypothenuse is the course sailed over; one side on the meridian is the difference of latitudes of the beginning and end of the course (reduced to miles), and the other side, perpendicular to the meridian, is the departure (so called). Its use is to get a rough notion of the quantity by which the ship's longitude has changed, supposing the whole course so small that the portion of the sphere which contains the triangle may be considered as a plane. For the number of miles in the course multiplied by the sine of the angle which it makes with the meridian gives the departure in miles, which can be turned into minutes and seconds of longitude by dividing by the cosine of the latitude, and counting 691 miles to a degree in the result. But the rough purposes which this process answers are sufficiently well consulted by the tables which are to be found in all works of navigation.

DEPLOY, to extend in a line of small depth, an army,

a division, or a battalion which has been previously formed in one or more columns: this may be done either for a

review or preparatory to making a charge upon the enemy. DEPORTATION. (Civil Law.) [Banishment.] DEPOSITION in its extended sense means the act of giving public testimony, but as applicable to English law the word is used to signify the testimony of a witness in a judicial proceeding reduced to writing. Informations upon oath and the evidence of witnesses before magistrates and coroners are reduced into writing in the very words used by the witnesses, or as near as possible thereto. Evidence in the Court of Chancery is taken in written answers to interrogatories, which are also in writing, either by commissioners appointed by the court for that purpose in the particular cause, if the witness resides at a greater distance from London than 20 miles, or if he resides nearer or is otherwise willing to appear, before the examiners of the Court of Chancery. The course of the Ecclesiastical Court following the practice under the civil law, is also by written interrogatory and answer. The Court of Chancery has power to grant a commission for the examination of witnesses residing abroad; and by the 1 Wm. IV., c. 22, extending the provisions of the 13 Geo. III., c. 63, the courts of law at Westminster, in actions pending before them, have power to order the examination of witnesses residing in any of his majesty's foreign dominions. When a witness is above the age of 70, or very infirm, or about to go abroad, so that his testimony may be lost before the regular period for his examination arrives, the Court of Chancery will order him to be examined de bene esse, as it is termed; that is, his examination is received for the present, and will be accepted as evidence when the proper time for taking the other evidence in the cause arrives, if the witness cannot be then produced. Courts of law do not possess similar power without the consent of both parties, but in order to enforce consent they will put off the trial at the instance of a defendant, if the plaintiff will not consent; and if the defendant refuse, will not give him judgment in case of nonsuit.

The Court of Chancery will also, upon bill filed by a person in the actual and undisturbed possession of property, and who has therefore no means of making his title the subject of judicial investigation, but which nevertheless may be materially affected by the evidence of living witnesses, allow the witnesses to be examined in perpetuan rei memoriam, that is, to perpetuate testimony. This is done memorium, that is, to perpetuate testimony. This is done in order that if any of the witnesses should die before the title to the property is disputed, their evidence may be preserved, otherwise a claimant might lie by until all the evi-

dence against him was lost.

Depositions are not admitted as evidence in courts of law. unless the witness is either dead, or from some cause beyond the control of the party seeking to read the deposition, cannot be produced, or against any other persons than the parties to the proceeding in which they were taken, or claimants under them, and who had the opportunity of cross-examining the witness. In cases however relating to a custom, prescription, or pedigree, where mere reputation would be good evidence, a deposition may be received as against a stranger.

Depositions taken in Chancery de bene esse before answer put in, unless the defendant is in contempt for refusing to answer, are not admissible as evidence in a court of law, be-

is not binding upon the court of law; of course, how the depositions be not read and the decision should be con-

trary to justice, the Court of Chancery would interfere as between the parties. [Equity, Evidence.]

DEPRESSION (Algebra), the reduction of an equation to a lower degree, by dividing both sides of it by a common factor. Thus  $x^0 - x - 6 = 0$  having been found to have 2xone of its roots, is depressed to an equation of the second degree by dividing by x-2, which gives  $x^2+2x+3=0$ that is, the two roots of the latter equation are the two re-

maining roots of the former.

DEPRESSION, ANGLE OF, is the angle by which a line drawn from the eye to any object dips below the hor.
zon. [Elevation, Angle of.]
DEPTFORD. [Greenwich.]

DETITORD. [GREENWICH.]
DE'RBEND, a town in the Russian government of Georgia, on the Caspian Sea, about 42° 13' N. lat. and 43° 20' E. long. A branch of Mount Caucasus, which runseastward to the Caspian Sea, terminates about a mile from As the mountain ridges in no other place cor. so close to the sea, the extremity of this steep and nex v inaccessible ridge offered a very advantageous point for erecting fortifications to command the road along the coast. The town is built on the declivity with which the range terminates, and forms a parallelogram about fifteen in in length, but only 400 yards across. The walls which include it on the north and south are continuous to the sea There are two large gates in these walls, through which the road passes, and which may be shut at pleasure. Hence the town derives its name, which signifies the shut-up gairs. The walls, which are of great antiquity and very strong, are built of hewn stones, and not less than ten yards have and in many places ten feet thick. They are fortified with round and square towers. To the west of the town is the citadel, on a more elevated eminence, which is also we fortified. Derbend contains about 4000 inhabitants, but some travellers make its population 12,000. Many coarstuffs of silk and wool are made here. Its commerce ? the Caspian Sea is not considerable, the harbour being so shallow that only boats can land, and vessels remain at a distance of nearly a mile from the shore. (Biebersters and

Reineggs.)
DERBY, the capital of the county to which it gives name, is in the hundred of Morleston and Litchurch, or, the right or west bank of the Derwent, a feeder of the Trent, 114 or 115 miles NNW. of London, in a straight line, or 126 miles NNW. of London, m a strength: line, or 126 miles by the road through St. Albana, Instable, Stoney Stratford, Northampton, Market Harburough, Leicester, Mount Sorrel, and Loughborough: m. 52° 55′ N. lat., and 1° 29′ W. long.

The municipal and parliamentary limits of the borough of Derby coincide, and comprehend the whole of the two

parishes of All Saints and St. Werburgh, and portions of the parishes of St. Michael, St. Alkmund, and St. Peter All that can properly be considered as the town of Dervis is within the borough limits, which enclose an area of installation across. (Boundary Reports and Municipal Companions) ration Reports.)

We may consider Derby as having risen from the runs of the Roman station, Derventio, which was on the size of Little Chester, a hamlet just out of the boundary of borough and on the opposite side of the river; or as have been a British town upon the British road, the Rykne': or Icknield-street. Of this Roman station, Dr. Steke's was able to trace the wall quite round: the inclosure oblong, and contained five or six acres; streets or receive were visible in the fields near it, which he supposed to ... the suburbs. Coins of brass, silver, and gold, with antiquities of every kind, have been found, and the foundar: "1. of buildings are still sometimes discovered. There are the foundations of a Roman bridge over the Derwent at L.: Chester, which may be seen when the water is clear, or felt with an oar. (Hutton, Hist. of Derby.)

In the time of the Saxons Derby was called Northw.

thige; the name of Deoraby (Derby) is said to have begiven it by the Danes, by whom it had been capture!

The etymology of this name has been much disputed: ne think that the names of the town, of the neighbour. village of Darley, of the Roman station, Derventio, and cause until the defendant has answered he could not have an opportunity of cross-examining the witness; but the Court of Chancery will sometimes direct such depositions to be Anglicance) derives Derwent from the above root, and anglicance of Chancery will sometimes direct such depositions to be

Careen' are peers, size on bright). Ind. But manne of the American March 1995, and that the largest small file additions of He-American March 1995, and the stress of the American March 1995, and the stress of the March 1995, and the stress of the March 1995, and the

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Derwent at Derby, a towing-bridge being thrown across that river. From Derby the course of the canal is eastward until it joins the Erewash canal at Sandiacre. Over the Markeaton brook, which runs through Derby, the canal is carried in a cast-iron trough or aqueduct. From Derby a short branch of this canal extends to Little Eaton, three or four miles north of Derby, with two arms to the quarries on Little Eaton common. The Derby canal is 44 feet wide at top and 24 feet wide at bottom, and 5 feet deep. Derby is supplied by this canal with coals, building-stone, gypsum, and other things.

There were formerly four religious houses at or close to Derby; an abbey (St. Helen's) of Augustin canons, a nunnery of Benedictines, and houses of Dominicans and Cluniacs. St. Helen's Abbey was founded by Robert de Ferrariis, or de Ferrers, second Earl Ferrers. This abbey appears to have been first established in Derby town, and afterwards removed to a site about a mile north of Derby, where has subsequently risen the village of Darley or Darley Abbey. Its yearly revenue at the suppression was 285l. 9s. 6d. gross, or 258l. 13s. 5d. clear. The Benedictine nunnery, founded by one of the abbots of St. Helen's, had, at the dissolution, a yearly revenue of 21l. 18s. 8d. gross, or 18l. 6s. 2d. clear. There was one hospital, or perhaps two,

for leprous persons.

There are several alms-houses at Derby: those founded by the countess of Shrewsbury, in 1599, for eight men and four women; those founded by Robert Wilmot, in 1638, four women; those founded by Robert Wilmot, in 1638, for six poor men and four women, now for four poor men and four women; Large's Hospital, founded by Edward Large, in 1709, for five clergymen's widows, and enriched by subsequent donations. The countess of Shrewsbury's almshouses were rebuilt by the late duke of Devonshire, about 1777, in a style of architecture which has been considered too ornate for a charitable foundation of so humble a character. Thirteen neat and substantial almshouses have been lately erected from the funds of a charity bequesthed 300 years are by Mr. Robert Liversage to bequeathed 300 years ago by Mr. Robert Liversage to the parish of St. Peter. There is a county infirmary equal to the accommodation of eighty patients besides those who have infectious disorders. The building is plain and neat in its architectural character, built of hard whitish stone. The internal arrangements, which are exceedingly convenient, were chiefly planned by the late William Strutt, Rev. There are also in the town 'a self-supporting obering Esq. There are also in the town 'a self-supporting charitable and parochial dispensary,' a ladies' charity for the assistance of poor women during their confinement, and

many friendly societies, or benefit clubs.

There were in Derby, in 1833, one boarding-school containing 20 girls, and twenty-five day-schools, of all kinds, in which instruction was given to nearly 800 boys, 300 girls, and between 200 and 300 children whose sex is not discriminated in the returns. The grammar-school, one of the twenty-five mentioned above, is supposed to be one of the most antient endowments of the kind in England. It was formerly very flourishing, and enjoyed a high reputation, but at the time of the return had only one or two scholars. At present (1837) we are informed that it is again getting into repute. Two of the day-schools are on the 'national' system. and one on the Lancasterian system, and three are infantachools. The number of Sunday-schools was twenty-four, and in these were instructed 3198 children, viz.: 1152 boys, 1326 girls, and 720 whose sex is not mentioned. In some of the Sunday-schools the children are taught writing and arithmetic on an evening in the week; to some schools lending-libraries are attached.

Of institutions for literary and scientific purposes there are—The Philosophical Society (originally held at the house of Dr. Darwin), with a good library, a collection of fossils, and mathematical and philosophical apparatus; the Permanent Library, which has lately been much enlarged, and has a public news-room and museum attached to it; and the Mechanics' Institution, the members of which have lately erected a handsome and spacious room for their meetings. Two weekly newspapers are published at Derby. (Hutton's History of Derby; Glover's History of Derbyshire; Report of Commissioners of Municipal Corpora-

rations and other Parliamentary Papers: Communication

from Derby.)
DERBYSHIRE, a midland county of England, bounded on the north-east by Yorkshire, from which it is partly separated by the rivers Derwent, Rother, and Sheaf; on the north-west by Cheshire, from which it is in this quarter se-

parated by the river Etherow; on the west by Cherhire, from which it is here separated by the river Goyt, and Staffordshire, which latter county bounds it also on the south-west (the Dove separates Staffordshire from Derbyshire on the west, and the Dove and the Trent on the southwest); on the south-east by Leicestershire, from which it is partly separated by the Trent; and on the east by Nottinghamshire, from which it is separated by the Enwash. Its form is irregular; the greatest length is from north (from the point where the three counties of Derio. the Mease, a feeder of the Trent) 55 miles; the greatest breadth is from east (Holm Car Farm near Works). Notes) to west (near Chapel-en-le-Frith) 34 miles. The area of the county is estimated at 1010 square miles by Arrowsmith, 1028 square miles according to the statement subjoined to the Abstruct of the Answers and Returns made in 1831 under the Population Act, or 1036 by taking the area of the different parishes. The population in 1831 was 237.17%, or about 235,231, or 229 to a square mile, according to the computation of the area which we adopt. Derby, the count. town, is on the Derwent, a feeder of the Trent, 114 or 115 miles

town, is on the Derwent, a feeder of the Trent, 114 or 115 mins N.N.W. of London in a straight line, or 126 miles by the road through St. Albans, &c. [Derby.]

The county is comprehended between 52° 41′ and 53° 30′ N. lat. and 1° 10′ and 2° 4′ W. long.; the county town is in 52° 55′ N. lat. and 1° 29′ W. long. Besides the main part of the county bounded and situated as above, there is a small detached portion near the southern extremity, inclosed between the counties of Warwick, Leicester, and Stafford. It contains the villages and parishes of Measham, Stretton-in-the-Fields, and Wilsley, and the village and

chapelry of Chilcote.

Surface, Hydrography, and Communications .- The southern and south-eastern parts may be considered as on the whole flat, yet they have an easy ascent towards the northwestern portion, which comprehends one of the most elevate and rugged districts in England. This part (which is commonly known by the name of the Peak) is occupied by a part of that range of high lands, which some geograph. have designated the Penine chain, which separates the waters which flow into the sea on the eastern side of the island from those on the west side. This chain of mountains enters the county at or near its northern extremity, and the principal ridge runs in an irregular line S.S.W. till it enters Staffordshire a few miles S.W. of Buxton. Along this relac are the following heights: Dean Head Stones, 539 feet high; Blakelow Stones, which Farey considers to be trackinghest point of the ridge and of the county generally; Kindral Stones, which is the stone of the county generally; Kindral Stones, 539 feet highest point of the ridge and of the county generally; Kindral Stones, 539 feet highest point of the ridge and of the county generally; derscout, which Farey considers to be inferior in beight only to Blakelow Stones, and which is stated, we presume, only to Blakelow Stones, and which is stated, we presume, in round numbers, to be 1800 feet high (Phys. and Projectory of the Brit. Isles, in Lib. of Usef. Kn.); and the northern and middle peaks of Axe Edge Hill, the southern peak being in Staffordshire. The northern or great summit of Axe Edge Hill has been stated to be 1875 feet above the level of the sea (Farey), but later observations have reduced it to 1751 feet; Lord's Seat, to the east of the princepal ridge of the Penine chain, is 1751 feet high. Thuse ridge divides the basin of the Mersey from that of the Trent, one of that large system of rivers which has the Humber for its estuary. From this, the principal ridge of the chain, lateral ridges proceed, which bound the sub-relief dinate basins of the various affluents of the greater 1110.5 mentioned already. One of these lateral ridges, branching from the principal ridge near Axe Edge Hill and running south-east, separates the basin of the Derwent from that of the Dove. The length of this ridge, following its windings, is estimated at 46 miles; but the length of a direct line between its extremities is not estimated at more than 35½ miles. The ridge, which forms the eastern boundary of the basin of the Derwent, and which extends in a winding course about 67 miles, does not wholis belong to Derbyshire. It branches off from the Penuic chain, in Yorkshire, and approaching the border of time county towards Derbyshire, runs along the boundary, then enters Derbyshire, and proceeds in a south-castern direction across the east moors of the county into Nottinghamshive.

We give the above dimensions and the latitude and longitude of the varietieme points from Arrowsmith's map. The length and breadth, as given a Farey's Apricultural Sweety (where the detached portion of the county we ecluded), are nearly the same as we have given; but the county is said to be converted to the county with the county is said to be converted to the county with the converted to the county is said to be converted to the county of 
The bed part of the subpression is sensors at the Day and not loss of the Day, the post amount of Northern Tank (the post to the Day 
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branches in the stream and break its surface into beauteous ripples. Huge fragments of stone, toppled from the rocks above, and partly covered with moss and plants that haunt and love the water, divide the stream into many currents; round these it bubbles in limpid rills that circle into innumerable eddies, which by their activity give life and motion to a numerous variety of aquatic plants and flowers that grow in the bed of the river: these wave their slender stems under the surface of the water, which, flowing over them like the transparent varnish of a picture, brings forth the most vivid colouring. Occasionally large stones are thrown across the stream, and interrupt its progress: over and amongst these it rushes rapidly into the pool below, forming in its frequent falls a series of fairy cascades, about which it foams and sparkles with a beauty and brilliancy peculiar to this lively and romantic river.' (Rhodes's Peak peculiar to this lively and romantic river.' Scenery.) Below its junction with the Schoot he Dove flows south-west for about three or four miles; then south for about seven more, receiving by the way the Churnet, its largest Staffordshire tributary; it then flows in a winding course E.S.E. for twelve or fourteen miles and falls into the Trent, just below Burton, receiving several streams, the longest of which rises near Atlow, between Ashbourn and Belper, and has a course of above fifteen miles. The whole course of the Dove may be estimated at from forty to fortyfive miles. The waters of this river have a clear blue tint, deepening through various shades to a dark purple. It frequently overflows its banks in the spring; and the fertilizing effect of these floods has given rise to the distich-

# ' In April, Dove's flood Is worth a king's good.'

Sometimes, however, the waters rise with such rapidity and violence as to be very destructive.

The Brewash rises in Nottinghamshire, near the village of Kirkby, and flowing W.S.W. for about three miles reaches the border of Derbyshire, and then flows, first S.W. and then S. by E., along the boundary of the two counties into the Trent. Its whole course is about twenty miles.

The Mease rises in Leicestershire, near Ashby de la Zouch, and flows first S.S.W., then W., and then N.N.W., into the Trent. Its course, which is about eighteen or twenty miles, is, for a short distance, in the detached portion of Derbyshire, partly on the border of the county, and partly beyond the border, in the counties of Leicester and Stafford.

These four rivers fall into the Trent, which crosses Derbyshire in a direction nearly north-east. It touches the border five or six miles north-east of Lichfield, just at the point where the Mease falls into it, and flows about ten miles N.N.W. along the border of Derbyshire and Staffordshire, past Burton upon Trent, in Staffordshire, until its junction with the Dove, after which it quits the border, runs nearly due east through Derbyshire for about eleven miles to the border of Leicestershire. It then turns E.N.E. and runs for about ten miles along the border separating Derbyshire from Leicestershire and Nottinghamshire, till its junction with the Erewash, after which it quits Derbyshire altogether. Derwent falls into it about five miles above the junction of the Erewash. About thirty-one miles of the course of the Trent are thus upon or within the Derbyshire border. It is calculated (Farey, Agricultural Survey of Derbyshire) that it receives the drainage of ten-thirteenths of the county, exclusive of the streams in the eastern part which flow into the Idle, one of the tributaries which joins the Trent in the lower part of its course. The Trent is navigable from Burton-upon-Trent, but in 1805 the navigation was given up by agreement with the proprietors of the Trent and Mersey canal, which runs by its side, and the navigation of the river now commences just at the junction of the Derwent.

The Goyt rises near Axe Edge, and flows N.N.W. along

the border of Derbyshire and Cheshire, about fourteen miles, till its junction with the Etherow, which has a south-west course of about fifteen or sixteen miles chiefly on the border of the same two counties. The springs of the Etherow are in Yorkshire and Cheshire. The united stream of these two rivers flows into the Mersey at Stockport. They receive many small streams from the adjacent part (the High Peak) of Derbyshire.

The Rother rises in the East Moor, a mile or two east of Chatsworth Park, and flows eastward about eight miles to Chesterfield, where it turns to the north-east and flows into Yorkshire. About twenty-two or three miles of its course belong to Derbyshire. It joins the Don at Rotherham in

Yorkshire. The Dawley (ten miles long) is its only Derive shire tributary that requires notice. This rises on the shire tributary that requires notice. Nottinghamshire border and flows north past Bolsover.

The Sheaf, which joins the Don at Sheffield, the Walling. the Poulter, and the Ryton, whose waters flow directly

ultimately into the Idle, rise in Derbyshire.

Derbyshire has several navigable canals and railrow. The canals are, i, Grand Trunk, or the Trent and Mercanal; 2, the Erewash canal; 3, the Derby canal; 4, th. Cromford canal; 5, the Nutbrook canal; and 6, the Cicterfield canal. The Peak Forest and the Ashby-de-Zouch canals have a small portion of their extent year: within the county, but rather belong, the former to Chemise and the latter to Leicestershire. We shall not there! re notice them here.

- 1. The Trent and Mersey canal belongs to Derbyshire from its commencement in the river Trent, at William Ferry (at the junction of the Derwent), to Monk's Bridge. where the canal is carried for a mile and a quarter over the flat meadows of the Dove valley on an embanking t thirteen feet high, with aqueduct bridges over the Date and one or two other streams, containing twenty-three arches of from twelve to fifteen feet span: twelve of the arches are over the main branch of the Dove. This care it was begun in 1766, and its whole extent is ninety-th. . It extends through Derbyshire, Staffordshire, a ... Cheshire. Until the year 1785, men were employed ::. large gangs to draw the boats; now horses are university
- 2. The Krewash canal commences in the Trent, midw. between the junction of the Derwent and that of the Erewash river, and runs northward along the valley of the Brewash, first on the west and then on the east side of to .. river, and terminates in the Cromford canal at Landy Bridge: that part of its course which is on the east side of the Erewash belongs to Nottinghamshire. Its whole length is nearly eleven miles. It has aqueduct arches over the Nut brook and the Erewash river. It serves for the important tion of corn, malt, and timber, and for the export of  $\cos z$ limestone, iron, lead, and marble and other stone.

3. The Derby canal is described under the town of Derly

DERBY.]

used.

- 4. The Cromford canal commences in the Brewach caral at Langley Bridge, and runs northward to the Codnor Park Iron Works, following the valley of the Erewash having the first part of its course on the east side of t: . river in Nottinghamshire, and the latter part on the wiside in Derbyshire. From Codnor it sends off a branch two miles and a half or three miles long, along the valle val the Erewash, on the west or Derbyshire side of that river to the village of Pinxton, while the main line of the care. turns westward to the valley of the Derwent, crossing 1: river Amber in its way; it then turns to the north-wer, and follows the valley of the Derwent, first on the east at 1 then on the west side of that river, to Cromford Bridge, where it terminates: the length of the canal is fifteen m ... nearly. Between the valley of the Brewash and that of it. Derwent this canal is carried through the higher ground. by a tunnel more than a mile and a half long. The well of the canal in the tunnel is nine feet at the surface of the water; the crown of the arch is eight feet above the water The tunnel is lined with brick, except where the perform: rock appeared capable of supporting itself. There are timeaqueduct bridges on the line of this canal. One is over Erewash; one, Bull Bridge aqueduct, which is over the Amber, is six hundred feet long and fifty feet high: the the aqueduct is over the Derwent, at Wigwell, and is a hundred feet long and thirty feet high; the span of : river arch is eighty feet. This canal is chiefly used for the conveyance of coals and coke; but lime and limestone, gritstone, ironstone, iron, lead, slate, timber, corn, &c., and carried on it. Besides the Pinxton cut already noticed. there is another small cut near the Derwent aqueduct, a:. ! there are several short railways which enable the cuiworks, &c., on its line to communicate with the canal. railway from Mansfield communicates with the Pinx: branch, and the Cromford and High Peak railway communicates with the main line of the canal near its termination at Cromford Bridge.
- 5. The Nutbrook canal commences at the collieries at Shipley, on the right of the road from Derby to Man-ie ... and runs S. S. E. four miles and a half into the Ereway. canal. Several railroads lead from the neighbouring col

beside to the Frindmich and, the corresponds thank bind benefit agone.

The form a being district excepts, and for the great part of the reason in Military and the control of the control

materians get. Minorwant, is use of these. The same further progress is a stream engalphed at a spot called contains which a territorial times and a stream of the same of the printers and the same and the same of the same

CAPAN GOVER OF THUMBELL ATTICKING SOFTWING THE STATE described of the sould by the feet finite hist of he is not seen so the minuscript and some just be entried. The attendence for the state outstructured a section with principle has the high regard. Where it just gaments there the Foreigner rom far this is the bottowers where someone rastronics. There are suc in the judges is the mid term part if the enlarge values the administration exists will for the environ wie of the county the strata the strate the makes has he she bestern have by a great fail time in best tet if the liberthe whereast the temper with operate on the same other with the single. The interface is district and fine were to three intervening were if wasternes. The respect to the experience of these constitue-beds freckening from the experience, as as flowers—first bod, 156 feet; second sect. In feet; third cod, 276 feet; fourth bod, at beart 214 feet: aggregate at least 164, but in fact the talexness of the lower bed is not ascertained: it is only known that it extends him feet. In each bed of this limestore than bests of may are found, with unbestied masses of tractations and various organic remains. The lowest bed, which is the most esteemed by the line-burners, has very few tack concurred strata; hat in the three upper beds these are more common, and the second bed contains some very five many strata, which are quarried as black marble. The upper best a also quarried as marke, and contains white enert or en na-stanel which is extensively used in the Stafflerich re-potteries. The beautiful floor spar called Blue Juna from which wases and other ornaments are made, is formi in a monatain of impostate

The outcrop of the cartoniferous limestone forms the lead district of Deroyshire. Numerous veins have been worked in it enough for lead; but over of nine, from manganese, and copper, also occur. Lead ove is found occasionally in the tondistine which intervenes between the innertone-bests, but commonly the veins are cut off by the holistite-bests. The villa which contain lead have generally a direction east and west; some of them approach the perpendiction (rake veins); others are nearly horizontal time veins, at lare rather bests of spar and ore, lying terveen the strain of limestone, and in most cases connected with the surface by a rake vein.

With the surface by a rake vein.

The impositue strata of Derbyshire are subject to very remarkable derangements of facility. They are characterized also by numerous caverus, and by the frequent engulphment of the streams by subterraneous courses termed swallow books. The caverus appear to have been excavated when ye chaefs by the agency of water.

The three substance-beds have an average thickness of so seet for the latter, and 75 feet for each of the lower, giving an aggregate of 11d feet; in parts however the thickness of the torree amounts to above 150 feet. There are several varieties of the toxistone, which sometimes passes into ordinary basistic among the substances inclosed are the quarts crystals locally termed Derbyshire diamonds.

Of the Innestene caverus, the most remarkable is that now generally known as Peak's Hole, or the Devil's Cave, near Casaleton. It is situated at the extremity of a deep and narrow rocky chasm in the valley in which Castleton stands, where cragge projectsors hade it from the traveller until he approaches pretty near. The entrance is a tolerably regular arch of about 40 feet high and above 100 wide extending in length nearly 300 feet. This part is inhabited by pear people engaged in making twine and pack thread, who have built their habitations and carry on their work under this natural shelter. At the end of this vestibule, as it may be termed, the arch contracts, and the visitor is obliged to stoop until he emerges into a spacious vanit, called 'the hell house.' A second contraction, where the rock choses almost down upon the surface of a stream of water which occupies the passage, conducts to a carry and to be 200 feet wide, and is some parts

A carroth and to be 200 feet wide, and in some parts are high this is succeeded by a series of cavernous along at the extremity of the furthest of which the action down upon the stream of water in such a way a prectude all necess to the caverns which are supply to be he beyond. The water which thus obstructs

Period on three miles from Casileton, on the Manchard three miles from Casileton, on the Manchard of the interest recess of the case of th

The mineral springs of Derbyshire are numerous and portant. The most celebrated warm springs are those at Buxton [Buxron] and Matlock. There are warm springs at Stoney Middleton, where it is supposed that the Rosestablished a bath. The temperature of the Middle waters is 2° higher than that of the warmest springs. Matlock. The most celebrated of the sulphureous was is at Kedleston Park, three miles north-west of Derby are valued for their antiscorbutic qualities. The are several chalybeate springs. For the ebbing and the road from Buxton to Castleton, see Barron.

Agriculture.—On the high hills and moors of Derby and rethe cultivation is not extended as it might be; and the :are great tracts of rough pasture of no great value their present state, which, with a moderate outlay. be improved or converted into arable land, as has been di in similar situations in Scotland. In the valleys, or end less abrupt hills, a very fertile red marly loam is freque: met with, which is productive of every kind of grain with any extraordinary tillage. Of this kind are the lands at Barton. Blount, and Ash, and in several places in southern and eastern part of the county. The soil on the surface naturally partakes of the nature of the r. which are found immediately below it; and where any page ticular stratum rises to the surface, or crops out, as i called, the soil is chiefly made up of the same earthy stances, which have been more or less decomposed by the action of the air and mixed with vegetable matter. account of the different soils is given in the Agricult Report of the county, by Farey, of which the follow table forms an epitome, distinguishing the strata from with the following the strata from the strata from the following the strata from the strata fr they are formed and the number of acres in extent.

Gravelly soils 77,000 acres. Red marl soil 81,000 Yellow limestone soil . 21.580 Coal measure, upper part 30,000 lower part 60,000 Grit stone and shale soils 160,500 Mineral limestone and toadstone) \$1,500 soils Fourth limestone soil. 40,500

Total surface . . 522,080 acres.

Most of these soils may be ranked among the clave or illoams of various degrees of fertility, there being but a various mall proportion of sandy soils in Derbyshire. With these occur, they are mostly alluvial, apparently with the count of the loam and brought together by currents, or decomposition of the grit and micaceous sandstone in the grit or limestone shale.

The climate of Derbyshire varies according to the sea. 1 cuantity of rain that falls in the mountainous parts is more greater than that in the low country: at Chatsworth, finstance, the annual fall of rain is about 28 411, and Derby 24 77 inches. In the valleys it differs little f. the surrounding counties. The time of harvest is raided by abundant rains in the month of October; it is therefore of great importance to sow as early as the season will remain, so as to have the corn ripe in time to gather it in before the autumnal rains.

The manner in which the and at enthreated stayles as much as the matter. Men people there else have expenses and their ferres are well nestinged. There are also a few forces who have some capital and unmage their lead wells, but the unjurity are mail between any two factors, and the matter, and the remains of the ferres are well nestinged to the matter, it they had the notification to make permanent amprovement. A great many threatens much be permanent amprovement. A great many threatens much be deathful in value by pelmone thraming, and lands much to produce turning which are any thought too leavy and are for the ordin test. The produces are might, in many places, be greatly improved by anticidentially and antidened much better adopted to many leaves are might, in many places, be greatly improved by anticidentially and antidened much better adopted to that there, A company destricts to improvement to the town of leaves. As emproy destricts to improvement to the town of these, to office a leavest from the pay limit reals, and it is not immissed for a leavest from the colors of the serious this colors is done in the deliberation by a became attray bespect, which is generally respected by the landless, the rest care to consider the product of the p

food.

A large proportion of the lands is in personnell pastures of which some are very with. Derty-slape chosen in noted as of a good quality, and the best is often sold for Checknes in Observative when the party-slape chosen is noted as of a good quality, and the best is often sold for Checknes in Observative when the indicated the shape and solent of these stream. The common Derbyshor chosen is not generally coloured. It recombins some kinds of Dutch chosen, and keep well.

There are some very highly predictive questlows along the course of the revers in the seamity, but on improved system of endandament and tregation is said wanting in many dynamics attentions. The measures along the Dave and other releases are from their structure very subject to make a grain and endandament which relicates the structure very subject to make a grain subject which is not not considered by the contractive of the many places, to obtain the cottle may by the contractivity a pairwise an ambandament would be much more worked, by keeping the next or subject to spine one ambandament would be much more worked, by keeping the next or subject to grain to the land.

When the ophical partitions are nown for hay, they are also ratiod meadows. Forms of these are very rich, and wall makes the marriant against for the generality of the hilly

persons are below the medium quality of pastimes in Renland. They might be mostly improved by draining and
exciting which a soldern attential to.

There are many mostly and supposes contends the mass of
the country. These being we give the manual for the coling a country absuming with mal, the copposes are allowed
to grow for twenty or twenty due yours to for they are out,
to enter that the potes new sequire a semularable size, and
to proper for supporting the read and sides at excavations
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201, to 201, per save to ant for the share purpose, leaving
a well-ment mention of trees and poles at each satting to
be 20 by the tember growing, which phone folled with the
excite as made as the underwood: Many young plants
that,

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could as massely as the unclareacted. Many young phants—state have been made of bits years, and are in a thriving time have been made of bits years, and are in a thriving time.

The introd cattle of Derbyshure have no possible that in the produce, and hardes commits on the meantains. The same may be estilled the sheep. The sheep on the hills are smaller to those found on the thirsts. Hills in the valley the Lorence and benth Down transle and nations primes are generally perfected by this hard farmage but the quantity fathed a not so great as would be the case were the land better adapted for turning.

The Derbyshure brigel of houses in goal, and many are brief in this country which are fathed for the country as well as weekly markeds; the principal farms are the following and article in the profile of some of the larger farms.

There are numerous fairs in the country, as well as weekly markeds; the principal farms are the following.—Alberton, first Touchy in Jamoury; February 12 (for horses and earth); April 2 May 21; July 5 (do and woul). August in their Touchy in Jamoury; February 12 (for horses and earth); April 2 and Officher 15 (sattle and shane). Halver, April 2 and Officher 15 (sattle and shane). Halver, April 2 and Officher 15 (sattle and shane). Halver, April 2 and Officher 15 (sattle and shane). Halver, Berger Many 12; October 31 (sattle and shane). The Huly Thursday and three works after (sattle) and y (weat); Thursday and three works after (sattle); February 23 and Officher 15 (sattle and shane). The Huly Thursday and three works after (sattle) and y (weat); Thursday after September 25 (chasses); Pricky I have four fairly (weat); Thursday and three works after (sattle) and y (weat); Thursday and three works after (sattle) and y (weat); Thursday and three works after (sattle) and y (weat); Thursday and three counts where the control of the part of the sattle and sheep. Thursday in April 2 (and a larger. Thursday before (chasses); Pricky in Springer 11; October 21 (market); Chaster 21 (market); sowed

and other reversite from their situation view and set to present the state of the s

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Apeltre, Repindon (Repington or Repton), Greselegh (Gresley), Littlechirch (Litchurch), and Wyrkesworth (Wirksworth). Other records speak of the hundreds of Risley (Gresley?), and Sawley. The present division is as follows. The Wirksworth division is still called wapentake: the others are called hundreds.

I. High Peak (203,190 acres), North and North-West,

and Central. Population in 1831, 47,485.

II. Wirksworth (73,880 acres), West and Central. Population lation in 1831, 23,287.

III. Scarsdale (144,750 acres), East and Central. Population in 1831, 53,582.

IV. Morleston and Litchurch (77,440 acres). South-East. Population in 1831, 61,779.

V. Appletree (108,170 acres), South-West and Central.

Population in 1831, 32,483.

VI. Repington or Repton and Gresley (55,750 acres),

South. Population in 1831, 18,554.

There is in Derbyshire only one parliamentary borough and market-town, Derby, on the Derwent (population in 1831, 23,627) [DERBY]; the other market-towns are sixteen. Of the following an account will be found under their respective articles:-Alfreton, between Derby and Chesterfield (population in 1831, 5691); Ashbourne, near the Dove (pop. 4884); Ashover, near the East Moor (pop. 3179); Bakewell, on the Wye, (pop. 9503); Buxton, near the head of the Wye (pop. 1211); Chapel-en-le-Frith, in the High Peak (pop. 3220); Chesterfield, on the Rother (pop. 10,688); and Wirksworth, between Derby and Matlock (pop. 7754). The population given above is that of the whole parish, except in the cases of Buxton, which is a chapelry of Bakewell parish, and the population of which is chapetry of dakeweit parish, and the population of which is included in the statement given of the population of Bakeweil, and of Derby, which is a borough containing parts of five parishes. Of the other towns, viz., Belper, Crich, Cromford, Dronfield, Heanor, Ilkeston, Tideswell, and Winster, and of the village of Mallock, we subjoin an account. account. We observe here, that Messrs. Lysons omit Dronfield from their list of market-towns, stating the market to have been discontinued; and Mr. Farey omits Ashover, Heanor, and Ilkeston. There are several other places which formerly had markets; those at Bolsover [Bolsover], Higham-in-Shirland, Hope, Matlock, Measham, and Sawley appear to have been discontinued within

Belper is on the east bank of the Derwent, eight miles north of Derby. It is a township and chapelry, in the parish of Duffield, in Appletree hundred. The prosperity of Belper is of modern date, and is to be principally ascribed to the establishment of the cotton-works of Messrs. Strutt. It is now one of the most flourishing towns in Derbyshire. The older buildings form a very insignificant portion of the place, which consists chiefly of more modern and better erections. New buildings, with neat exteriors, flower-gardens, orchards, and plantations are fast spreading over the rising grounds about the town; and on the oppo-Strutt, Esq. Gritstone, which the neighbourhood furnishes of excellent quality, is much used in building. The antient chapel, dedicated to St. John, being too small for the increased population of the place, a new church has been erected at an expense of nearly 12,000L, defrayed partly by subscription and partly by a grant from the commissioners for building new churches. It stands on a bold elevation above the town, and from its situation and architecture, which is of the florid English style, is a great ornament to the place. It will accommodate 1500 persons, besides 300 children; and two-thirds of the sittings are free. The antient chapel is still used for evening lectures and for a school-room. There are places of worship for Unitarians (built in 1782, chiefly at the expense of Messrs. Strutt), Independents, General and Particular Baptists, and Wesleyan and Primitive Methodists. There is a stone bridge of three arches over the Derwent. The population of the chapelry of Belper in 1831 was 7890; half the males above twenty years of age are employed in manufactures. The chief establishments are those of Messrs. Strutt, who have four cotton-mills; and of Messrs. Ward, Brettle, and Ward, the most extensive hosiery manufacturers in the kingdom: they make both silk and cotton The manufacture of nails, though thought to be declining, is still considerable. Seams of coal are worked with advantage about a mile from Belper. The market is

on Saturday. Coaches to or from London and Manchester, Birmingham and Sheffield, Nottingham and Manchester pass through the town daily. Many of the tradeamen hold some land, and many persons, whose principal occupation is in trade or manufacture, are also partially occupied in agriculture.

The living of Belper is a perpetual curacy in the gift of the vicar of Duffield; the yearly value is 1554, with a glebe-house. The state of education, according to the parliamentary return of 1833, was as follows:—1 infant sel...! 50 boys, 30 girls; 21 day-schools, 356 boys, 288 girls - instructed at the cost of the parents; 7 Sunday-schools, 935 boys, 1027 girls: three of the Sunday-schools have lending libraries attached, and one of them (of above ... children) is taught on the Lancasterian system. There and two neat almshouses for aged people, with a small end. -ment.

Crich is a market-town and parish, chiefly in the humdred of Morleston and Litchurch, but extending into the hundred of Scarsdale and the wapentake of Wirkswor It is between the rivers Amber and Derwent, on the : ! from Alfreton to Wirksworth, five miles west of Ali.: :. and five east of Wirksworth, and about twelve miles more from Derby. The town is built on a considerable limestone hill that overlooks all the eminences round it. T: church forms a very conspicuous object: it has a very to spire. On a cliff near the village is a circular tower of modern erection, from which an extensive and beautions prospect is obtained. The parish of Crich is divided in .. three parts: Crich township, 3770 acres, 2115 inhabitant-Litchurch and Morleston hundred; Wessington townsh... 1260 acres, 465 inhabitants, Scarsdale hundred; Tansia, hamlet, 1150 acres, 507 inhabitants, Wirksworth warettake. Total, 6180 acres, 3087 inhabitants. The inhabitants ants of the township of Crich, which includes several vilages round the town, are chiefly engaged in working the lead-mines round, in getting limestone, which is excellent both for agriculture and building, and burning it to line, in the manufacture of stockings, and in agriculture. There was antiently a market at Crich; but it had been discontinued. In the middle of the last century an attempt a :made to revive it, but the attempt failed; in 1810 it w. re-opened, and is still held. It is on Thursday, but is I.o. much resorted to. There are two fairs in the year in cattle, pedlars' wares, &c.

The living of Crich is a vicarage, of the annual value . !

981, with a glebe-house, in the gift of Sir Willoughby Div.

There are places of worship in the parish for Wesleyan 2. 1

Primitive Methodists and General Baptists.

Crich township contained in 1833 10 day-schools, which were 115 boys and 112 girls; and 3 Sunday sch. with 157 boys and 140 girls. In the other divisions of transish were 1 day-school, with 36 boys in it, and 2 Sunday.

schools, containing 137 boys and 92 girls.

Cromford is a market-town, township, and chapeley an the parish and hundred of Wirksworth, chiefly on :!. north bank of the Derwent. It is in a deep valley, . : . closed on the north, south, and west by lofty limest at rocks. Cromford, like Belper, owes its prosperity to cotton manufacture. The late Sir Richard Arkwitz: erected here a spacious cotton-mill on the north sale the Derwent; it is now occupied by Messrs. R. and P. Ar. wright, who employ in these mills and those at Massin little higher up the Derwent, 800 persons. The house and mills are chiefly built of gritstone. The church is a plain building, begun by the late Sir R. Arkwright it has been demolished many years.

The population of Cromford, in 1831, was 1291.

mines are worked in the neighbourhood; lapis calamin. . is ground and prepared, and red lead manufactured. Tie Cromford canal terminates here; and the Cromford . . High Peak railway joins the canal a short distance so of the town. The land in the township chiefly to longs to R. Arkwright, Esq.; every man employed at tie mills capable of purchasing a cow has a piece of land straight to maintain it allotted to him. The market is a second of the market is a second o Saturday, and there are two fairs in the year. The education returns for 1833 give 1 infant school, 10 boys, 12 gurls 2 day-schools, 34 boys, 8 girls: all these are taught at the expense of their parents; 2 day and Sunday-schools, parity supported by P. Arkwright, Esq., 110 boys, 82 girls, who attend daily; 50 boys, 70 girls, who attend on Sundays.

Bester is a purelect-town or reliance in the handpot of Morte-sport and Literarysis, on the most from Derley of Marchael (North), about more rather from Derley of Marchael (North), about more rather from Derley of Marchael (North), about more rather from Derley. The parchipe contents of a population (in 1821) of 3250 milastratic line descriptions:—Measure reversibly, 972; College and Lockow more life, 1831; by the parchipe, 972; College and Lockow more life, 1831; by the parchipe, 972; College and Lockow more life, 1831; by the parchipe, 972; Remor is well arrested for code the Krowski most passing through the period, and the maj blooming district baving many configurated for code the Krowski most passing through the period, and the maj blooming district baving many configuration on the manufactories for college guards, hostery, and believe are manufactories for college guards, hostery, and believe as the manufactories for college and some outperficies state that it has been descentioned. The leving that variances of the yearly value at 18-2, in the rill of the Lord Charactler. The columnities control for 1914 comproposition with all education, "There are Independent if day controls, with 254 children, and 2 foreday as finally dispose, and Westeren Markedley positing houses in the parties.

We Addressly in all both to the parts of the control of the contro

He-stee is a marked-town or relige in the kundpel of Mortston and Livianshi, on the most from Dorby in Many and California, about none in the most from Dorby in Many and California, about none for the most from Dorby in Many and the most period in the Many for California, and a population (in 1237) of also minimization into gamplants.

Talesceld is a market-town and parted in the High Peok lamplants, and a population (in 1237) of also minimization into gamplants.

Talesceld is a market-town and parted in the High Peok lamplants are the population of the parted and the many favor parted in the High Peok lamplants are the most respectively, 1439, finder township, 1627, Colinor and Leaves are law, her parted in the High Peok lamplants are the many favor parted in the many favor distinct the most interest for collect goods, leaver, and which are the many favor distinct the proper distributed in the many favor distinct the proper distributed in the many favor distinct the proper distributed in the many favor distinct the parted of the parted

In 1833, beside the free-school (which contained 71 boys), there were four day-schools, containing about 60 boys and 100 girls; and two Sunday-schools, one supported by the church people, containing 45 to 50 boys; the other by the Methodists, containing 75 boys and 85 girls. In Wheston, Wormhill, and Litton, were four day-schools (one having a very small endowment), containing 70 to 80 children; and two Sunday-schools, containing about 100 children.

Winster is a market-town and chapelry in the parish of Youlgrave, in the hundred of High Peak. It lies between two toads which lead from Derby to Manchester, one by Wirksworth, the other by Ashbourne: by the former it is 24 miles from Derby, by the latter more than 25. This little town runs along the side of a steep eminence. The houses are built of limestone, and are partly thatched and partly covered with stone: they are intermingled with orchards and gardens. The church is small; it has preserved some features of Norman architecture, but it has been much altered. The market is on Saturday. The population of the chapelry in 1831 was 951: that of the whole parish (which is large, and extends into Wirksworth hundred) was 3681: the inhabitants are chiefly engaged in mining. The living of Youlgrave is a vicarage, in the gift of the duke of Devonshire, of the annual value of 214l., with a glebe-house: the perpetual curacy of Winster is worth 104l. a year, and is in the gift of the freeholders. The chapelry contained in 1833 one infant school (with above 40 children); three day-schools (one partially endowed), with more than 120 children, and two Sunday-schools, containing 120 boys and 160 girls. There is a Wesleyan Methodist chapel. In the whole parish there were (beside the above) 9 day-schools (some of them partly supported by donation or endowment), with 233 children, and 7 Sunday-schools, with 524 chil-

There are several barrows on the commons in the neighbourhood of Winster; in one which was opened in 1768 several antiquities were found.

Divisions for Ecclesiastical and Legal Purposes.—Der byshire is in the diocese of Litchfield and Coventry: i constitutes the archdeaconry of Derby, which is subdivided into the six rural deaneries of Ashbourne, Castillar, Chesterfield, Derby, High Peak, and Repington, or Repton. The deanery of High Peak has by some been called the archdeaconry of Derby, as though this were an ecclesias-tical subdivision of the county. The number of parishes was given by Camden from Wolsey's list at 166; but later authorities make them more numerous; Pilkington states them at 116, their dependent chapelries at 69, and the extrathem at 11b, their dependent chapelries at 59, and the extra-parochial chapels at 2: Messrs. Lysons state the parishes at 117; with 67 chapels, in 52 of which (49 parochial, 3 extra-parochial) the rites of marriage and sepulture are performed; many of these are frequently described as parish churches. The population returns contain a list of 140 parishes (beside 4 which are chiefly in other counties), 3 extra-parochial chapelries, and 46 dependent chapelries. The difference between these numbers and those given by Messrs. Lysons, may be partly accounted for by supposing several of the dependent chapelries to be entered as distinct several of the dependent chapelries to be entered as distinct parishes. Of the 117 parishes given by Messrs. Lysons, 50 are rectories, 58 vicarages, and 9 donatives, or perpetual curncies. Some of the Derbyshire parishes are very large, especially those in the High Peak hundred. Glossop parish contains 49,960 acres, or more than 79 square miles; Bakewell, 43,020, or above 67 square miles; Hope, 36,160, or above 56 square miles; and Hartington (in Wirksworth hundred), 24,160, or above 37 square miles; 9 other parishes in the county have from 10,000 to 20,000 stores or from 15. in the county have from 10,000 to 20,000 acres, or from 15 to 30 square miles.

Derbyshire is in the midland circuit: the assizes and the quarter-sessions are held at Derby, except the Easter sessions, which are held at Chesterfield. Until the year 1569 this county and Nottinghamshire formed but one shrievalty. Until the reign of Henry III. the assizes for both counties were held at Nottingham: afterwards, until Derby was made a distinct shrievalty, they were held

alternately at Nottingham and Derby.

Beside the ordinary county jurisdiction, Derby has some legal peculiarities, the relics of the institutions of former times. The hundred of Appletree and the honour of Tutbury form parts of the duchy of Lancaster. The courts of pleas of the duchy, commonly called the three weeks' courts, e held at Sudbury for the hundred of Appletree, and at bury. The jurisdiction of these courts extends to most places in the county: in them all debts and damages under forty shillings are recoverable. The Peveril court has like wise a very extensive jurisdiction; actions are brought in it for the recovery of small debts, and the proceedings are more expeditious and less expensive than in the courts of Westminster. This court is held at Basford, near N.: tingham.

Derbyshire has some peculiar laws and regulations nected with the working of the lead-mines. These has and regulations are of very high antiquity. The prince part of the county where lead ore is found in any consequently is called 'the King's Field,' and comprehe: !, rable quantity is called the King's Field. ... part of the High Peak hundred. 'The King's Field' !. been from time immemorial let on lease. The lease. whom, when Pilkington wrote his account of Derbysh.... A. D. 1789, there were two) have each in his respective district a steward and barmasters. The steward presides judge in the barmote courts, and, with twenty-four jury me chosen every half-year, determines all disputes which arrespecting the working of the mines. Debts incurred a working the mines are cognizable in these courts. courts meet twice a year, or oftener if need be. The cor-for the High Peak district meets at Monyash, that for the wapentake district at the town of Wirksworth.

The office of the barmaster is principally to put mine into the possession of veins that they have discovered. to collect the proportion of ore to which the lessee of the crown or the lord of the manor has a claim. When miner has discovered a new vein of ore in "the Kinglield," he may acquire a title to the exclusive possession. it, provided it be not in a garden, orchard, or high road, t. a proper application to the barmaster of the liberty. Shows: the miner neglect to work the vein, the barmaster root after a certain time, dispose of it to any one who is willing

There are four members of parliament returned for it. county (two for the northern and two for the southern dision), and two for the borough of Derby. The northedivision of the county includes the hundreds of High Pr and Scarsdale, and part of the wapentake of Wirkswer: the principal place of election is Bakewell, and the polistations are Bakewell, Chesterfield, and Chapel-en-le-Fr. The southern division includes the hundreds of Applett Morleston and Litchurch, and Repton and Gresley. ... part of the wapentake of Wirksworth: the principal ploof election is Derby, and the polling stations are Derm.

Ashbourne, Wirksworth, Melbourne, and Belper.

History and Antiquities.—Before the Roman conquirerbyshire appears to have been included in the terri of the Coritani, who, with the Cornavii, occupied the will of the midland district from the Lincolnshire coast to ::upper part of the Severn and the Dee. Upon the quest of South Britain by the Romans, and its division provinces, Derbyshire was included in the province. Flavia Cæsariensis, not (as Pilkington, and after i. Messrs. Lysons state) of Britannia Prima.

The barren moors of this county abound in masses gritstone, and single stones of vast size appearing at the surface: many tors (as Mock Beggar Hall, on States moor, between Winster and Bakewell, Robin Hood's Man on Ashover common, &c.) and rocking stones have \tag{\chi\_solution} found, and many rock basins; but all these, to which it once common to ascribe a druidical origin, seem referable the granite tors of Cornwall and Devonshire [Cornwall], rather to natural causes. There are however care of stones some upright stones, and tumuli or barrows of carand stones, (called in Derbyshire, 'lows'), and some r... military works which appear to be memorials of the early habitants. The most remarkable of these monuments is: nationals. The most remarkable of these monuments is stone circle of Arbelows, or Arbor-low, two or three morth-west of the town of Winster. An elliptical artalifity-two yards by forty-six (having the greater diameter a direction north and south), is enclosed by a dirch syards broad, and an outer bank formed of the soil three the direct form the direct form the direct forms the out from the ditch, five yards high on the inside. In t inclosure there are openings or entrances on the north ar south sides about fourteen yards wide, and adjacent to to southern entrance is a small mound or barrow. Atbroad, and one foot thick, lie round the inclosure, have luthury (which is in Staffordshire) for the honour of Tut- their smaller ends pointing towards the centre: there is

crosses to think files more sical obliquidy on one and, then there more sical obliquidy on one and the first south forces on the control of the first south forces on a structure of the first south forces on a structure of the first south forces on the structure of the structure of the first south forces on the structure of the structure of the first south forces on the structure of the structure of the first south forces on the structure of the structur

portions. Repton church has under the chancel a very curious Norman or rather Saxon crypt, which there is reason to suppose was a part of the conventual church dereason to suppose was a part of the conventual charter destroyed here by the Danes, a.D. 874. The rest of the church is of a later period; the architecture is varied, partly Norman, partly early English, and partly decorated English: the tower and spire, which are very lofty and of fine outline, are in the perpendicular English style. Melbourne church, near the border of Leicestershire, is a fine expendent of coult Norman architecture, and is nearly in its ample of early Norman architecture, and is nearly in its criginal state. It has been conjectured, but without sufficient reason, to be as antient as the seventh century. The desecrated chapel at Streetly is a Norman edifice, perfect, with the exception of the windows, which have been enlarged, and the roof: the ornaments are elaborate and well executed. The remains of early Gothic architecture in Derbyshire are few and by no means remarkable, except All Saints church at Derby [Derny], and perhaps Ash-bourne, Bakewell, Chesterfield, and Dronfield churches, the last of which has been noticed above. [ASHBOURNE, BAREWELL, CHESTERFIELD.]

The monastic establishments of Derbyshire were neither large nor wealthy; there are very few remains of them. Some remains of Repton priory may be seen in the school at Repton and in the master's house. Repton has been noticed as a residence of the kings of Mercia. The priory was the place of sepulture for several of that royal race After the old Saxon priory was destroyed by the Danes (see above), a monastery of Black (or Augustiman) canons was founded here by Maud, widow of Ranulph, second earl of Chester. Its yearly revenue at the dissolution was 1671. 182. 2d. gross, or 1181. 82. 6d. clear. There are at Yeaveley, four miles south of Ashbourne, some ruins of a chapel, formerly a preceptory of the order of St. John of Jerusalem. Of Dale Abbey, 6½ miles east of Derby, founded in 1204, for Premonstratensian Canons (clear yearly revenue, at the dissolution, 144/. 12s.), there are no remains, except the arch of the east window of the church. Beauchief Abbey, Norton, near Sheffield, is just within the boundary of Derbyshire: it was founded in 1183, for Premonstratensian or White Canons, by Robert Fitz Ranulph, lord of Alfreton, said to have been one of the murderers of Thomas à Becket, in expiation of whose murder the abbey was built, and to whom, when canonized, it was dedicated. Its yearly revenues, at the dissolution, were 1571. 10s. 2d. gross, or 1261. 3s. 4d. clear. The only part of the abbey now remaining is the west end of the conventual church, which is used as the chapel of the extra-parochial district of Beauchief. The architecture is but the situation amidst woods and hills delightful. plain, but the situation amidst woods and mids Dr. Pegge denies that Beauchief Abbey was erected in expiation of Becket's death, or that Fitz Ranulph had any connection with that deed.

The principal historical events connected with Derbyshire, since the Reformation, occurred during the civil war of Charles I. The county at first declared for the king,

who, after setting up his standard at Nottingham, marched to Derby; but it was soon brought over to the side of the parliament by the activity and influence of Sir John G. ... who, marching from Hull into Derbyshire (October, 1542), with a regiment of foot, only 140 men, raised 200 men. Chesterfield, and, proceeding to Derby, garrisoned tition. South Winfield manor-house was also garrisoned for the parliament. In November, 1642, Sir John dr. c. Sir Francis Wortley and the king's forces from Wirk-worth and the Peak, took Bretby House, south of the Tre. which had been fertified by the earl of Chesterfield, as defeated the royalists at Swarkestone bridge on the Tre-Next year (A.D. 1643) he took Bolsover Castle, which ".. earl of Newcastle had fortified for the king; and his brother. Colonel Gell, took Sutton House, near Chesterfield, when had been also garrisoned for the king by lord Deincott The earl of Newcastle is said, however, to have gained victory over the parliamentarians near Chesterfield: afterwards took South Winfield manor-house; and the royalists possessed themselves of the northern parts of county. In March, 1644, there was an engagement Egginton Heath, near the junction of the Dove with Trent, in which the victory was doubtful. In the sum of the same year, Sir John Gell took South Winner manor-house, and defeated the forces sent to relieve it; a. General Crawford, another parliamentary commander, to-Bolsover Castle and Stavely House. The king, after battle of Naseby (A.D. 1645), retreated through Derbyinto Yorkshire, gaining some advantages over Sir J.... Gell by the way. The subsequent events of the war we unimportant.

The advance of the young pretender to Derby in 1° has been noticed in the account of the town of Der.

[DERRY.]

STATISTICS.—Population. Derbyshire is both an a. cultural and manufacturing county; it ranked the two ninth on the list of agricultural counties in 1811, but 1831 it was the thirty-second, its manufacturing contains the counties in the cou having increased in a greater proportion than the agratural class. Of 58,178 males twenty years of age a upwards, inhabitants of Derbyshire in 1831, 18,170 wengaged in agricultural pursuits, 10,593 of whom valabourers; and 8863 were employed in manufactures, or making manufacturing machinery; there were like 10,897 labourers not employed as agriculturists. Of the employed in manufactures, about 1700 were engaged . the cotton-varn and in the silk manufactures; 1400 frame-work and twist; 1200 in cotton and silk home calico and ginghams, 600; lace and twist net, 450; ter-60; paper, 40; and about 1400 not accurately classed gaged in some of the above manufactures and in the paration of dye colours, &c.; of these about 900 ver employed in the town of Derby.

The following summary of the population taken at : enumeration of 1831, exhibits the number of inhabitation &c., in each hundred of the county.

		HOUSE	s.		00	CCUPATION	is.	s. Persons,			
HUNDREDS, &c.	Inhabited.	Familier.	Building.	Uninhabited.	Pamilies chiefly employed in agriculture.	Families chefly employed in tride. manufactures, and haudiciaft,	All other families not comprised in the two preceding classes.	Melos.	Penales.	Total of Persons.	Ni es tur e ye e
Appletree High Peak	6,143 8,911	6,542 9,335	23 115	180 565	2,778 2,619	2,689 4,246	1,075 2,470	16,212 23,654	16,271 23,831	32,483 47,485	7.5
Morleston and Lit-	7,322	7,754	36	184	2,036	3,154	2,564	18,877	19,275	38,152	6
Repton and Gresley Scarsdale Wirksworth Derby (borough)	3,664 10,552 4,664 4,842	3,826 11,008 4,784 5,071	26 91 22 44	69 384 275 332	1,728 2,841 1,267 55	1,384 3,762 1,873 3,680	714 4,405 1,644 1,336	9,259 27,072 11,397 11,269	9,295 26,510 11,890 12,358	18,554 53,583 23,287 23,627	4, i3, - 3, -
Totals	46,098	48,320	357	1989	13,324	20,788	14,208	117,740	119,430	237,170	ن.ود

The population of Derbyshire at each of the four periods Femules. Total. Incr. per cent. Males. 1801 was 79,401 81,741 161,142 1811 " 91,494 1821 " 105,873 1831 " 117,740 93,993 185,487 15.10 107,460 213,333 15.01

119,430

237,170

11.22

Showing an increase between the first and last period-76,028, or not quite 471 per cent, which is about 10; cent. below the general rate of increase throughout E land.

County Expenses, Crime, de.—The sums expended to the relief of the poor at the four dates of—

1801	were	£54,459,	which	wa	5 68.	94.1	
1811	**	93,963	29	**	108.	1d.	for each
1821	.,	86,756	**	23	88.	1d.	inhabitant.
1831		78.717	-		68.	7d.	

The sum expended for the same purpose in the year ending 25th March, 1836, was 55,018L 1s., and assuming that the population had increased at the same rate of percentage since 1831, as in the ten years preceding that period the above sum gives an average of 4s. 5d. for each inhabitant. All these averages are below those for the whole of England and Wales.

The sum raised in Derbyshire for poor's-rates, county-rate, and other local purposes, in the year ending 25th March, 1833, was 108,074. 6s., and was levied upon various

descr	aptions of property as follo	>₩ <b>s</b> :		
			£	8.
	On land		81,846	0
	"dwelling-houses		20,340	6
	" mills, factories, &c.		3,358	3
	,, manorial profits, navi	gation, &c.	2,529	17
			£108,074	6
The :	amount expended was:—			
	For the relief of the poor		76,685	19
]	For suits of law, removal of	paupers, &c.	4,211	11
]	For other purposes.	• • •	30,226	2
			£111,123	12

In the returns made up for the subsequent years, the descriptions of property assessed for local purposes are not distinguished. In the years 1834, 1835, and 1836, 107,236*l*. 19s., 93,392*l*. 19s., and 80,578*l*. 17s., were respectively raised, and the expenditure in the same years was as follow:-

For the relief of the poor. In saits of law, removals, &c.	1834. £72,720 18 4,163 8	1835. £69,8-5 15 8,429 10	1836. £55,918 1 £,981 17
Payment for or towards the county-rate For all other purposes	31,232 12	{19,659 9 13,818 7	11,368 3 11,939 14
Total money expended	£108,116 13	92,779 1	81.197 15

The saving effected in the sums expended for the relief of the poor in 1836, as compared with the expenditure of 1834, is therefore about 244 per cent., and the saving effected upon the whole amount is rather more.

The number of turnpike trusts in Derbyshire is 40, as ascertained in 1834; the number of miles of road under their charge was 574; the annual income of that year, arising from the tolls and parish composition, was 38,920%. 10s. 2d., and the annual expenditure 41,819%. 14s.

The county expenditure in 1834, exclusive of the relief for the poor, was 12,3111. 5s. 4d., disbursed as follows:-

o. the poet, was sejeeth to tall and tall	£	8.	d.
Bridges, buildings, and repairs, &c	778	10	0
Gaols, houses of correction, &c., and maintaining prisoners, &c.	1,781	5	11
Shire halls and courts of justice—} building, repairing, &c.	271	16	7
Prosecutions	1,690	3	5
Clerk of the peace	1,020	3	2
Conveyance of prisoners before trial	322	8	7
of transports .	145	16	8
Apprehending and conveying vagrants	48	14	3
Constables—high and special	393	15	6
Coroner	244		0
Payment of debt, principal and interest	4,941	15	0
Miscellaneous	672	3	3

The number of persons charged with criminal offences, in the three septennial periods ending with 1820, 1827, and 1834, were 670,736, and 1314 respectively; making an average of 96 annually in the first period, of 105 in the second period, and of 189 in the third period. The numhers of persons tried at quarter-sessions in each of the years 1531, 1832, and 1833, in respect of which any costs were poid out of the county-rates, were 96, 82, and 68 respectively. Among the persons charged with offences, there

		1831.	1832.	1833.
Committed for	felonies .	85	73	63
	misdemeanors	11	9	5

The total number of committals in each of the same years was 123, 197, and 82 respectively: of whom

V		1831.	1832.	1833.
The numb	er convicted was	82	80	64
	acquitted	40	24	17
Discharge	d by proclamation	1	3	1

In 1836, at the assizes and sessions, 175 persons were charged with crimes in Derbyshire. Of these, 14 were charged with offences against the person, 7 of which were for common assaults; 17 for offences against property, committed with violence; 132 offences against property, committed without violence; 3 for uttering counterfeit coin; 7 for peaching; and 2 for misdemeaners. Of the whole number committed, 12, were convicted and 50 acquitted, or no bill found against them. Of those convicted, 21 were transported for life, 2 for 14 years, and 23 for 7 years; 19 were imprisoned for I year or above 6 months, and 58 for 6 months and under; I was fined, and I was discharged on sureties. Of the offenders, 155 were males and 20 were females. Among the offenders 60 could read and write, 56 could read only, 58 could neither read nor write, and the instruction of 1 could not be ascertained. The proportion of the offenders to the population was 1 in

The number of persons qualified to vote for the county members of Derbyshire is 12,040, being 1 in 19 of the whole population, and rather more than 1 in 5 of the male population twenty years of age and upwards, as taken in 1831. The expenses of the last election of the county members to parliament were to the inhabitants of the county 2821. 8s. 8d., and were paid out of the general county-rate.

There are six savings-banks in this county. The number of depositors and amount of deposits on the 20th of November, 1832, 1833, 1834, and 1835 respectively, were:—

1832. 1:33. 1834. Number of depositors. 4829 5086 5380 5710 Amount of deposits £172,581 177,470 187,253 201,927 The various sums placed in the savings-banks in 1834 and 1835 were distributed as under:-

		183	ц	1835.		
		Depositors.	Deposits.	Depositore.	Deposits.	
Not exceeding .	£20	2462	£19,382	2568	£21,933	
,,	50	1796	54,310	1905	58,174	
99	100	696	47,851	794	53,843	
99	150	232	28,158	248	30,076	
39	200	145	24,786	142	24,555	
Above	200	49	12,771	53	13,346	
		5380	187.253	5710	201 927	

Education.—The following particulars are obtained from the parliamentary inquiry on education, made in the ses-

sion of 1835:							
Infant Schools Number of infants at	such schoo	ols:	826		chools. 46	Scholari	s. Total.
from 2 to 7 years:		,					
	Males					497	
	Females	-	_			498	
	Sex not s	-	ifier	ì		411	
	DOX MOU S	PCC	····	•			1,406
Daily Calcade				4	30		1,400
Daily Schools			1.		30		
Number of children		BCI	0018	;			
ages from 4 to 14					_		
	Males	•	•	•		0,989	
	Females	-	•	•		<b>8,</b> 72 <b>3</b>	
	Sex not s	pec	ifie	ı		<b>3,</b> 390	
				_			23,102
	School	s.		7	76		
Total of chi	ildren und	ler	dail	ly i	instru	ction	24,508
Sunday Schools .  Number of children				в;	120		
ages from 4 to 15	Males	sars				C 7C4	
		•	•	•		6.764	
	Females	-		•	1	7,005	
	Sex not a	spec	ine	Œ		<b>5,</b> 415	

Assuming that the population between 2 and 15 years has increased in the same uniform ratio from 1821 to 1834, as the whole population increased between 1821 and 1831, we find the approximate number living between those ages in Derbyshire, in 1834, was 81,982. A very large number of the children attend both daily and Sunday-schools; only 18 of the latter are in places where no other schools are kept; and 34 schools, in which there are 2058 children,

39.184

DER

are both Sunday and daily schools. Duplicate entry is therefore known to have been created thus far, and probably in a much larger degree in other places; but this cannot be ascertained with exactness. In a few of the Sunday-schools there are some pupils receiving instruction who are beyond twenty years of age. Making allowance, therefore, for this uncertain data, we may conclude that perhaps not more than two-thirds of the population between 2 and 15 were receiving instruction at the period of the inquiry.

## Maintenance of Schools.

Description of	By end	-wast	By subs	cription		ments cholars,	Subscrip, and pay- ment from scholars		
Schools.	Schle.	Sche-			Schle. Scho-		Schla. Scholars,		
Infant Schools Daily Schools Sunday Schools	120 6	3632 306	1 93 385	19 646 36,870		900 14,593 78		494 4431 1936	
Total	126	3938	449	87,508	570	15,365	91	6841	

The schools established by Dissenters, included in the above statement, are :-

Infant Sc Daily Sunday	"						Schools. 3 9 166	Scholars 43 287 18,485
The schools esta Infant an Sunday S	blisl d ot	ned her	sin dai	ce l	818 cho	a a ols		10,600 28,496

Thirty boarding-schools are daily included in the number

of daily schools given above.

No schools in the county appear to be confined to the children of parents of the Established Church, or of any other religious denomination, such exclusion being disclaimed in almost every instance, especially in schools established by Dissenters, with whom are here included Wesleyan Methodists, together with schools for children of Roman Catholic parents.

Lending libraries of books are attached to 90 schools in

Derbyshire.
DEREHAM, EAST. [Norrolk.]

DERG, LOUGH. [DONEGAL.]
DERHAM, the Rev. WILLIAM, D.D., an eminent
English divine and philosopher, was born at Stowten, near Worcester, in November, 1657, and received his early education at Blockley in the same county. He was admitted of Trinity College, Oxford, in 1675. Having completed his academic studies, he was ordained, and in 1685 was instituted in the vicarage of Wargrave in Berkshire; and four years afterwards to the valuable rectory of Upminster in Essex, where he spent the remainder of his life. To this residence he was much attached; mainly because it gave him, by its contiguity to London, ample opportunities of associating with the scientific men of the metropolis. He was made canon of Windsor in 1716, and in 1730 he received from his university the diploma of D.D.

He devoted his attention, with great earnestness, to natural and experimental philosophy. He was enrolled a member of the Royal Society; and he contributed a considerable number of memoirs to its Transactions. These papers prove him to have been a man of indefatigable re-

search and careful observation.

His first publication was the 'Artificial Clock-Maker,' which has gone through three or four editions, and is considered a useful manual even now. In 1711, 1712, and 1714, he preached those sermons at Boyle's Lecture which he afterwards expanded into the well-known works 'Physico-Theology' and 'Astro-Theology,' or a demonstration of the being and attributes of God from the works of creation and a survey of the heavens, enriched with valuable notes, and good engravings after drawings of his own. His next separate work was 'Christo-Theology,' or a demonstration of the divine authority of the Christian religion, being the subinterest authority of the Christian religion, being the substance of a sermon preached in the Abbey Church of Bath, in 1729. His lest published work of his own was entitled 'A Defence of the Church's Right in Leasehold Estates,' written in answer to a work entitled 'An Inquiry into the Customary Estates and Tenant-rights of those who hold lands of the Church and other Foundations.' It was pub-lished in the name of Everard Fleetwood.

Dr. Derham also published some of the works of the na-turnist Ray, of which he had procured the MSS., and to

sophical experiments of Dr. Hook. He also gave new this tions of other of Ray's works, with valuable additions, .... ginal, and from the author's manuscripts; besides ed other works of value, amongst which was the 'Misceil at a Curiosa,' in 3 vols. small 8vo., a work of value even at i! . time.

A considerable number of his papers were printed u.: Philosophical Transactions, from the 20th to the 35th ... lume inclusive, the principal of which are-

Experiments on Pendulums in vacuo.
 Of an Instrument for finding the Meridian.

3. Experiments and Observations on the motion of Soul.

4. On the Migration of Birds.

5. On the Spots on the Sun from 1703 to 1711.

6. Observations on the Northern Lights, Oct. 8, 17.4. and Oct. 13, 1728.

7. Tables of the Eclipses of Jupiter's Satellites.
8. Difference of Time in the Meridian of different places

9. On the Meteor called Ignis Fatuus. 10. The History of the Death-watch.

 Meteorological Tables for several years. Dr. Derham was of an ungainly appearance, small statue, and distorted form. He was not only the moral and regious benefactor of his parishioners, and of all those we came in his way, but he was likewise the physician of the bodies, and their pecuniary friend in all their difficulties. He lived beloved, and died lamented, at his rectory, in 1100.

aged seventy-eight.

DERIVATION. The term law of derivation almer explains itself. Thus in finding the successive differential coefficients of a power of x, the law is,—to get the next differential coefficient, multiply the last by its expense: and reduce the exponent by a unit. To treat of deliva. in the most general sense would be to write a work on ma thematical analysis, of which it may be said that most of ... difficulties arise from want of sufficient knowledge of m thods of derivation. But there is a more restricted Line the term, derived from the work of Arbogast [Arrocarrin which it applies to those laws of derivation with spring out of Taylor's Theorem. Hence the different calculus, considered either in the manner of Lagrange, er . that of Arbogast, which is the treatment of a particular branch of the subject, is sometimes called the calculus derivations. Legrange himself calls the differential of cient a derived function, the objection to which is the cation of a generic term to one of its particular cases. the successive logarithms, sines, &c., differences, inte-&c., of a given function, are also functions derived trum

original in different ways.

DERMATOBRANCHUS, a genus of Mollucks, e:: blished by M. Van-Hasselt and arranged by him am the Nudibranchiata. M. de Blainville thinks that its a propriate place is by the side of the Scyllace. M. Range his manual, uncertain of its position, consigns it to ...... Genres non classés at the end of his book.

Generic character. - Animal depressed, semicircular, pr vided with a considerably large foot, and protected above an enlarged mantle, rounded anteriorly, narrowed protected with elongated strike or pustules, which is branchial. A pair of ahort, approximated, contractale is tacula situated between the head and the mantle. none? Three apertures on the right side of the body, anterior opening near the head for the generative appratus, the second for the vent, and the third for the way.

organ. Locality, Coast of Java.

DERMESTES. [DERMESTIDE.]

DERME'STIDE (Leach), a family of Coleopterous sects of the section Necrophaga (Mac Leay). Technica. c. . racters:—antenness short, eleven-jointed, terminated it a compressed club, consisting of three or four joints; parall; mandibles short, thick, and generally denial head deeply inserted into the thorax; body generally and more or less furnished with scales or hara; legs at tarsi five-jointed. The species of this family are for a most part of small size: their larvae (at least those wi are known) are covered with hair, and feed upon at a substances. The principal genera are Dermoses, City. Megatoma, and Attagenus.

The principal distinguishing characters of the gar. Dermestes are:—antennæ scarcely differing in the .ca. Dr. Derham also published some of the works of the naurelist Ray, of which he had procured the MSS., and to
the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philowas the world is indebted for the publication of the philo-

conspicuous for their sanctity; and the Abids, who hope to merit future reward by entirely devoting themselves to religious exercises. Among the Turks several orders of Fakirs or Derwishes exist. The principal one is that of the Maulavis, founded by the celebrated Persian poet Jelâleddîn Rûmî, who died a. D. 1262. The Derwishes of this order have a great monastery at Galata, and another at Iconium. Their demeanour is very humble, and their robes are extremely coarse: besides the fast during the month of Ramazan, they keep a weekly fast on every month of Ramazan, they keep a weekly fast on every Thursday. It is part of their religious practices to turn round with great velocity to the sound of a pipe, and when the music ceases to stop at once, without showing symptoms of giddiness. They may leave their order, and are then released from their vow of chastity, and permitted to marry. Some amuse the common people by tricks of legerdemain, or apply themselves to the practice of sorrery and conjurations. They are notorious for their foundness of intoxicating liquors and of opium. They have convents in nearly all Mohammedan countries, which serve the travelling pilgrims of this order as inns. The order of the Ruffiis, founded A.D. 1182, by Sheikh Ahmed Ruffii, is distinguished by the strange excesses of self-mortification to which its members are carried by their fanaticism. In their weekly assemblies in the hall of their convents, some are always selected to hold a red hot piece of iron between their teeth till it becomes cool, while the others make deep incisions in their bodies with sharp-edged instruments. Another class of Derwishes is that of the Calenders. They are distinguished by the singularity of their dress, which is sometimes made of party-coloured cloth, and sometimes consists of a tiger's or sheep's hide, or is made of iron. Frequently the Calenders go about helf naked, with their skin painted red or black. They wear feathers in their ears, and have their heads covered with hats or surbans of a fanciful shape. They generally carry in their bands a stick or a hatchet, or sometimes a drawn sword. In their girdles they carry a plate or bowl, which they hold out to receive charities. They often visit coffee-houses and other places of public resort to preach, and act as if they were inspired. In their religious opinions the greatest variety prevails. The Derwishes do not seem to be much respected by the public: they are considered as hypocrites, who have assumed a sanctimomous appearance in order to have a pretext for idleness, and who clandestinely indulge in the grossest lirentiousness. All Derwishes, with the exception of the Maulavis, are allowed to marry; but they are obliged to sleep one or two nights in the convent of their order. (Chardin's Travels, ed. Amsterdam, 1735, 4to., vol. ii., pp. 269-97; Paul Rycaut, The present state of the Ottoman Empire, &c., London, 1668, fol., p. 185 et seq; D'Herbelot, Bibl. Cr., art. Derviche and Fakir; Mouradgea d'Ohsson, Tableau de l'Empire Ottoman.)
DERZHAVIN, GABRIEL ROMANOVITCH, the

DERZHAVIN, GABRIEL ROMANOVITCH, the most distinguished lyric poet Russia has yet produced, being acknowledged superior to Lomonosov himself, was born at Kasan, July 3, 1743. After completing his education in the Gymnasium of that city, he commenced the usual military career, 1760, by entering the engineer service, in which the attention he gave to his mathematical studies soon obtained for him promotion. He did not, however, rise to the grade of lieutenant until 1774, when he was sent with his corps to reduce the rebel Pagachev, on which occasion he displayed much bravery and address. He continued to advance in military promotion; but quitted the service, on being appointed a counsellor of state, in 1784, and afterwards governor of Olonetz and of Tambov successively. In 1791, Catherine bestowed on him the office of secretary of state: in 1793 he was called to the senate, and the following year was made president of the college of commerce. Various other appointments followed, the last of which was that of minister of justice, in 1802; from which he retired the following year, on a full pay pension. This he lived to enjoy for a considerable period, as he did not die until 1816, three days after he had entered his 74th year.

Such a career, both military and official, by no means an unusual one with the literary men of Russia, however uncongenial it may appear to us, did not prevent his cultivating the Muses during some of the most busy portion of it; for the finest of his odes were produced at that period. Pre-eminent among these, and perhaps unrivalled by any similar composition in any other language, is his 'Oda Bog' or Address to the Deity,' a piece full of sublimity

both as regards the ideas and expressions. Indeed, elevation of conception and nobleness of sentiment, no less than great energy and mastery of language, are striking characteristics of Derzhavin's poetry; and if occasionally more negligent then Lomonosov, it is because he is borne away by the intensity of his feelings. On the other hand, he manifests greater freshness, originality, and richness than his predecessor; and while he enchants by the cluquence of his lyre, he elevates and purifies the soul by the moral grandeur of his strains. In the art of which he was so profound a master, he has shown himself no less able as a theorist and critic by his treatise on Lyric Poetry, printed in the 'Tchenie v Besedae,' a miscellany edited by a society for the cultivation of the Russian language. Besides the essay just mentioned, he wrote some other works in proce, among which is a 'Topographical Description of the Government of Tambov.' A collection of his works was first printed in 1810, in four volumes; to which was added another, shortly before his death.

DESAGUADERO. [Bolivia, vol. v., p. 85.]
DESAGULIERS, JOHN THEOPHILUS, D.D. v. as
brought to England while an infant by dis father the Rev.
John Desaguliers, a French Protestant refugee, after the
Revocation of the Edict of Nantes. He was born at Rochel.c.

on the 12th of March, 1683.

His early education he owed to the instructions of is father, who appears to have been a very respectable scholar and sound divine, and at an early age he was sent to Chusc Chusch, Oxford. In 1702, being then only mineteen, is succeeded Dr. Keil in reading lectures on Experiment? Philosophy at Hart Hall; and he ever afterwards proceeded his physical researches with great earnestness and success. Upon his marriage in 1742, he settled in Lond in where he was the first that introduced the reading of lectures to the public on natural and experimental philosophy. This he did with great and continued reputation to the end of his life, which terminated in 1749, in the sixty-six hyear of his age. The highest personages were attracted by the novelty of this mode of teaching; and he was sever it times honoured with reading his lectures before the king and royal family.

In 1714 Desaguliers was elected a Fellow of the Royal Society, of which he proved a valuable member. The dune of Chandos appointed him his chaplain, and presented him with the living of Edgware, near his seat at Cannons; and he was afterwards made chaplain to the prince of Walca.

From some causes which are not well understood. 12.3-guliers appears to have fallen into a state of great destation;—we say appears, for the authority on which the assistion rests has, so far as we know, neither received colleteration roof nor denial. He certainly did remove to lodgings over the Plazza in Covent Garden, in which he continued his lestures; but the lines of the poet Cawthern are the only authority on which the statement of extreme indigence rests:

Here puor neglected Desaguliers feli!
How he who taught two gracious kings to view
All Boyle ennobled, and all Bacon knew,
Died in a cell, without a friend to save,
Without a guinea, and without a grave!

If this statement be true, he must either have been the dupe of others to a great extent, or singularly improvident in his own affairs; as besides his emoluments from his lecturing, he held two church livings.

Desaguliers left a family. One of his sons was an officer in the royal artillery, being Colonel of one of four battalions of which that regiment was composed. Colonel Desaguliers, who was a great favourite with George the Third, died in 1775; and if any of his descendants be living they may possibly be able to clear up this otherwise unex-

plicable circumstance.

The separate writings of Desaguliers contain an elegant exposition of the more popular portions of experimental philosophy. His mind was more fitted for the popular and the practical than for the profounder inquiries into these branches of science; and for the geometrical method of investigation than for the higher and then new calculate which has since so completely changed the whole current of research. His works are—

A Course of Lectures on Experimental Philosophy.
 vols. 4to. 1734.

2. An Edition of Dr. David Gregory's Elements of Catoptrics and Dioptrics, with an Appendix on Reflecting. Telescopes, 8vo. 1735.

This Appendix contains some original letters between Sir

Deep supervised of Mr. Frame diognost printipos to the planespose, which are worthy of attenues.

The sales of Proposition, by a Universal of the formation of Proposition of Proposition of Proposition of Proposition of Proposition of Nation Proling Programs of Proposition of Proposition of Nation Proling Proling Proposition of Proposition of Nation Proling Proling Proling Proposition of Proposition of Nation Proling Proling Proling Proposition of Nation Proling Proling Proling Proling Proling Proposition of Nation Proling Proling Proling Proling Proposition of Nation Proling 
Probably there is scarcely a name on record, the bearer of which has given a greater impulse to mathematical and philosophical inquiry than Descartes. As a mathematician he actually published but little; and yet in every subject which he treated he has opened a new field of investigation. The simple application of the notation of indices to algebraical powers has totally new modelled the whole science of algebra. The very simple conception of expressing the fundamental property of curve lines and curve surfaces by equations between the co-ordinates, has led to an almost total supersedence of the geometry of the antients. The view which he proposed of the constitution of equations is contested as to originality; but admitting, as we do, his claims on this head to be open to dispute, the writings and discoveries of Descartes have laid the foundation for such a change in the general character of mathematical science as renders it extremely difficult for those who have not given very great attention to the older writers to follow the course of reasoning which they employed. The claims of Descartes, however, to the originality of his views on the composition of equations and the relation between their

roots and their co-efficients, are discussed under the name of his competitor. [HARRIOTT.]

His speculations in physics have often been ridiculed by subsequent writers, and there can be no doubt that they are sufficiently absurd. Still many reasons may be urged in mitigation of that ridicule, and even of the more temperate censure which careful and judicious historians of science have dealt out upon the intellectual character of It ought especially to be observed that the Descartes. theories of all his predecessors were mere empirical conjectures respecting the places and paths of the celestial bodies; they constituted, so to speak, the plane astronomy of those times, in contradistinction to the physical astronomy of ours. Those paths were not deduced as the necessary effect of any given law of force, but as the result of some fixed and unalterable system of machinery invisible to us, and directly under either the control of original accident or the original will of God. Innumerable hypotheses of the nature of this machinery had been framed before the time of Descartes; and he, being dissatisfied with all others, adopted that of an ethereal fluid, which was continually revolving round a centre, like the water in a vortex. This was not so unnatural to a philosopher living before the 'Principia' made its appearance as it would be absurd in any one to contend for it now. We have indeed been too much in the habit of measuring the philosophical sanity of Descartes by the knowledge of our own times-a most unjust test to be applied to the intellectual efforts of any man by his succes-We ought rather to look to what he did accomplish under all the difficulties of his position in respect to the then state of science than measure him by the efforts which were attended with no beneficial result. He was, however, the first who brought optical science under the command of mathematics, by the discovery of the law of the refraction of the ordinary ray through diaphanous bodies. He determined the law itself, but not as the result of any law of

force. This was a later discovery: but Descartes led the way.

His inquiries in the positive philosophy were distinguished by great acuteness and subtlety; and though his theory has not in a direct form obtained many advocates in this country, it has in reality been the foundation of most of the sects which have since risen in every part of Europe. Differing as these systems do so very widely at first sight, this may be considered a paradoxical assertion. It is nevertheless the fact. For its proofs the reader is referred to the articles Philosophy (Positive), Metaphy-

SICS, and PHILOSOPHY OF THE HUMAN MIND.

The works of Descartes have been collected and reprinted three times. The first—

1. Opera Omnia, 1690-1701, 9 vols. 4to. Amst.

2. Opera Omnia, 1713, also 9 vols. 4to. Amst.

3. Opera Omnia, 1724-26, in 13 vols. 12mo. Paris.

DESCENT, in English law (from discent, Norman French, and so written in our older law books), may be defined the act of law by which on the death of the owner of an inheritance, without making any disposition thereof, it is cast upon another as an heir. Inheritance is sometimes used in the same sense, though it rather signifies that which is, or may be, inherited, or taken by descent. (Littleton, sect. 9.)

1. The law of inheritance with respect to descents which have taken place since, or shall take place after the 1st of January, 1834, is now regulated by the Act 3 & 4 Wm. IV.

c. 106, but some notice of what the law was before the time is necessary; since it is the constant practice, in investigation of titles to property, to inquire what hap-

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fifty or sixty years ago.

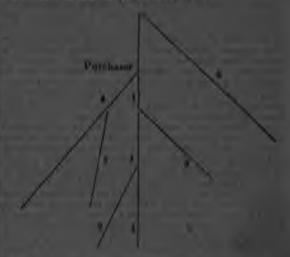
2. The death of the owner of the inheritance is casion of the descent of it. In his lifetime, there ca no descent, and therefore no heir, though there may be heir apparent, or heir presumptive; an heir spyarent being he who must be the heir, if he lives till the inher. ance descends; an heir presumptive, he who may be tore-stalled by the birth of a nearer heir.

3. The person who dies must be at his death owner of the inheritance, or no descent of it will then take place.

4. Inheritances, hereditaments, things which may be in herited or taken by descent, are various. The principal of these is the crown, the descent of which differs in or material respect from that of a private inheritance, masmuch as where there are no sons of the king, an elder daughter takes the whole of the inheritance, in exclusion of the younger sisters. Again, dignities and honours as baronies and other peerages, are descendible, according to the limitations contained in the patents by which they were created. If created by summons in the first instance, they are called dignities in fee, and are descendible to femal-s [Barony.] Finally, all the subjects of real property and ... annuities, offices, and whatever other things may be 'heid in fee,' are 'descendible,' and this whether they are in ession, reversion, remainder, or expectancy. So are 2.1 rights and titles to things that may be held in fee, and treexpectancy of an heir apparent or presumptive. There are also 'descendible freeholds,' that is, estates crusted by leaves for lives, which, though not estates in fee, may during that continuance be inherited as if they were. It has been already noticed [CHATTEL] that the large class of thire-called chattels are not generally the subject of descent, but that some of them are.

5. Upon the death of the owner, the law casts the inheritance upon the heir, without any act done by him, or price said for his acquisition: in both these respects, the present law of descent differs from the old feudal customs from which it is derived. According to the old feudal customs upon the death of the tenant of a fee, the lord of whom it was held was entitled to take and retain it till the heir, be whom proclamation was made, appeared, and maid a sum money called a relief [RELIEF] as the consideration for ... admission into the tenancy; whereupon 'seisin' or possessives given him, and he took the 'oath of fealty' [Fealty, and if the tenancy was by 'knight's service, 'did homage [Homage] also to the lord. All this was more like a new donation, than the present quiet succession of an heir. The descent of copyholds, however, is still regulated much at the manner described. The heir was not however formers. to the same extent as now, subject to the charges and deof the deceased tenant, in respect of the property descented [Assers]; and he had also an advantage, which is much insisted and commented upon by the old law writers, though its value is not so apparent to us. The descent of an inheritance, of which the rightful owner had been discussed or unlawfully dispossessed, prevented him from making an entry upon the heir of the disseisor, or bringing an actual of ejectment, the right to maintain which is founded up a the right to make an actual entry, and left him only a writ of right, or other real action, for the recovery of has peperty. One whole chapter of Littleton's Tenares is taken up with treating of descents which 'tall' (take away) entry the contract of the tries, but a late Act (3 & 4 Wm. IV. c. 27) prevents defrom having any longer this effect. The present law of descents qualifies materially in one respect the talle of the instance descended. Though it makes him as conpletely the owner of it as if he had purchased it, as to riof enjoyment and power of alienation, it does not allow i. ..: his death to descend as if he had purchased it, but, on the contrary, declares that it shall descend as if he had never Such at least is the new law (s. 1, 2 of the Act. The heir of an inheritance must be always the heir of the last 'purchaser' of it, that is, of the last person who acquired the property 'otherwise than by descent, or than by an escheat partition or inclosure, by the effect of which the land shall have become part of, or descendible, in the same manner as other land acquired by descent. The practical importance of this rule cannot be understood without knowing who the person is who in any case is designated by the law as the 'heir' to another.

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exception to rule 3) the half brother takes after the whole sister, and the half sister does not share with the whole sister. The like is true of half uncles, &c. According to this rule 5, however, the purchaser's brother of the half blood on the part of the muther does not take next after his brother of the whele blood, for such half brother claims through, and therefore takes after (rule 2) the mother, who (rule 4) is postponed to the father.

6. The mother of the more remote male ancester inherits before the mother of the less remote; and the mother of any male ancestor before the mother. (See s. 8 of the new act.) Thus the father's mother takes before the mother, and the father's father's mother before the father's mother, &c.

These six rules, read one with another, will, it is believed, point in any case to the heir. It is observable, and in this respect the new differs from the old law, that there cannot be a nearer heir born after the heir who has inherited. Formerly the sister of the purchaser might inherit, and a brother of his be afterwards born, in which case the in-heritance shifted to the latter. But at present this cannot be, as the father taken before his children (rule 2), and all children in the word are considered by law as if born. The practical difficulty in finding an heir or proving a title by de cent is, not to understand the law, but to ascertain and prove the facts on which the law must operate. (As to this, see Burton's Compendium of the Law of Real Property.)
The new act provides against the difficulty of tracing descent from the purchaser, by the enactment that the last owner shall be always presumed to be the purchaser till the

contrary is proved (s. 2).

To comment at length upon the rules regulating the course of descent is beyond our limits. Some observations and references are however necessary. Rule 3, which makes the eldest son, brother, &c. sole heir, exclusive of the other children, or the other nephews and nieces, &c., is well known by the name of 'the law of primogeniture.' It is almost peculiar to our country, not having been observed by the ancients, and being generally abolished where it existed on the Continent and in the United States of America. For the history of this rule, see Hule's History of the Common Law; Sullivan's Lectures; Robinson on Gavelkind; 2 Blackstone's Com.; Wright's Temeres; and Gavelkind; 2 Blackstone's Com.; Wright's Tenures; and for observations on its expediency, Smith's Wealth of Nations. The preference of males to females is not so peculiar. The Jews, Athenians, and Arabians, though not the Romans, gave the inheritance to sons exclusive of daughters. (For the Athenian law of inheritance, see Jones's Isaus; for that of the Jews, Selden de Successionibus apud Hebraeos.) This is not however the case among most foreign nations at present. The preference of the child of the elder son dead in the purchaser's lifetime to the younger son (which we have endeavoured to show is to the younger son (which we have endeavoured to show is the necessary consequence of rule 1) has some interesting historical associations. The law on this point seems to have been derived from the civil law, and not to have been settled till after most of the other rules of descent. It was still somewhat doubtfu. when King John kept his nephew Arthur from the throne by disputing it. (See 2 Bl. Com.; Sullivan's Lectures, lect. 14. In Robertson's Charles V., vol. i., p. 272, there is a curious story of the trial by combat of this point of law.)

The descent of estates tail (regulated by stat. 3 Ed. I., c. 1.) differs from that of fees simple principally in this, that only the descendants of the first donee can inherit; and of these only males claiming exclusively through males can be heirs when the estate is in 'tail male:' when it is in tail female (a mode of gift which is quite obsolete), only females claiming exclusively through females. [Entail.] The limited descent of the estates, together with other qualities of them, makes them the best representatives at present existing (excepting indeed copyholds) of the antient fiels.

(On the law of descent, as it existed before the late act, see Sir Matthew Hale's History of the Common Law, chap. xi.; 2 Bl. Com., chap. xiv.; Cruise's Digest, vol. iii. Watkins on Descents principally treats of curious points, many of which have ceased to be important. As to the reasons to Common Law, Real Processity Commissioners.

Property Commissioners.)
DESCENT OF BODIES. [FALL OF BODIES.]
DESERTER, an officer or soldier who, either in time of peace or war, abandons the regiment, battalion or corps hich he belongs, without having obtained leave, and the intention not to return.

As the last-mentioned circumstance distinguishes : \*\*: crime of desertion from the less grave offence of being absent without leave, it becomes necessary, before the eviction of the offender, that evidence should be apparent such intention. This evidence may be obtained general from the circumstances under which the deserter is app. carriage or vessel proceeding to a place so distant as to preclude the possibility of a return to his corps in a reasonable time; or letters may have been found in which an intention to desert is expressed; or some offer may have been found in which an intention to desert is expressed; or some offer may have been made by him of enlisting in another corps, or of entering into some other branch of the service.

The civil courts of law, in this country, have ever had authority to try offenders accused of desertion; but the have long since ceased to exercise such authority, and the now interfere only in the rare case of an appeal from the decision of the court-martial which is held for the purpose of investigating the charge and awarding the punishment. The latter courts are permitted the exercise, to a certain extent, of a discretionary power in proportioning the panishments to the degrees of triminality in the accused; and this power is generally considered as more likely to promote the ends of justice than the inflexibility of the law in civil courts, where, since no middle course can be taken between condemnation and acquittal, the criminal throughly accounts the course through the course through the course. frequently escapes through the compassion of the jury, when the punishment which by law must follow a verder. of guilty appears disproportionate to the crime. The lenency which has invariably characterised the decrees of courts-martial, and the bustom of not awarding the punish ment in its full extent till after a repetition of the crim-

sufficiently justifies the confidence reposed in those courts. The practice of deserting from one regiment or core, and of enlisting in another, either from caprice or for the sake of a bounty, having been very frequent, a particular clause has been inserted in the Articles of War, in order the particular this abuse. It declares that any non-companion of the chiral same contents in the court of the court prevent this abuse. It declares that any non-commissioned officer or soldier so acting shall be considered as a deserter. and punished accordingly; and that any officer who know-ingly enlists such offender shall be cashiered. It is also declared, that if any soldier, having committed an offerior against military discipline, shall desert to another corps, i.e. may be tried in the latter corps, and punished for such offence; and his desertion may be stated before the court as an aggravation of his guilt. Any officer or soldier with may advise or encourage another to desert is also punishable by a general court-martial.

Absconding from a recruiting party within four days after having received the enlisting money is also considered as desertion. And an apprentice who enlists, represent a himself as free, if he afterwards quits the corps, is estected a deserter unless he deliver himself up at the expiration of his apprenticeship. Vagrants also, who, pretending to be desorters, give themselves up as such with a view of obtaining money of provisions, are, by a clause of the Muttiny Act, to be considered as soldiers whether enlisted

or hot.

A hon-commissioned officer or soldier who simply alisents himself from his corps without leave is exeners of from the graver part of the charge, if any circumstance can be addiced from which it may be inferred that absence was intellded to be but for a short time. S. circumstances are, - goods of value being left behind. - i occupation in which the absence is found to be engage. being in its nature temporary,—an intention of returning having been expressed,—or again, the offender suffering himself to be brought back without resistance. Some absence without leave is referred to regimental cour -martial, merely, and these award the punishment discre-

tionally.

The Mutiny Act authorises general courts-marting to condemn a culprit to death, should his crime be found to deserve the extreme punishment; in other cases they make sentence him to be transported as a felon, either for life . t for a term of years, or to serve in the ranks for life, or tor a length of time exceeding that for which he had original length of time exceeding that for which he mad arginal to engaged to serve. In some cases, also, corporal punishing, is awarded, and an offender may be sentenced to lose the increased pay of the pension to which he would have been entitled if the guilt had not been incurred.

The crime of desertion is justly considered as one of the greatest that can be committed by any man who has

adopted the profession of arms. The officer or soldier who has undertaken to assist in the defence of his country, and steals away from the duties he is called upon to perform, violates a sacred engagement, and shows himself insensible to the dictates of honour, patriotism, and morality. Whether he withdraw through caprice, or to escape the privations to which the soldier is occasionally exposed, he sets an example of discipline infringed, he deprives the army of his services at a time perhaps when he can with difficulty be replaced; and while he basely seeks his own ease, he throws an additional burthen upon his companions in arms. If he pass over to the enemy, he becomes the vilest of traitors; and, should be escape the retribution which awaits him from his injured country, he must submit to live dis-honoured, an exile from its bosom.

DESERTS. This word is of very vague signification; it is used generally to designate an uninhabited place, a solitude, and in this sense is equally applicable to the fertile plains watered by the Maranon and the sandy wastes of Libya. It is, however, more exclusively appropriated to

sandy and stony plains.

Whatever may be the origin of sand, whether it be the detritus of sandstone rocks or other quartzose masses, or to whatever causes it be due, we consider it is of great importance to man by reason of the fertility which its admixture with clayey soils procures, and by the innumerable uses to which it is applied in the arts.

In considering, however, the vast seas of sand which cover such an amazing proportion of the earth's surface, we are tempted to believe that there is too much of it, and that it had been better if in its stead were rich meadows and arable land; but since deserts exist, we must remain persuaded that they are necessary to the general economy of the globe.

Deserts of sand are much more abundant in the old than in the new world. Almost every plain, even the best cul-tivated in Europe, contains patches of sand of greater or less extent; but to confine ourselves to deserts, properly so called, let us consider the immense surface which they

occupy on the antient continent.

Africa, from its western coast, between the Senegal river on the south and Marocco on the north, to the border of the Red Sea, presents one vast sea of sand, occupying upon an average about 48 degrees of longitude and 10 of latitude, which is but partially interrupted by a projecting part of Fezzan and by the narrow valley of the Nile. This steril region is divided into two unequal parts; the more considerable, that to the west, being called the Sahara, or Great Desert, and the other, to the eastward, sometimes bearing the name of the Libyan Desert. Both the one and the other inclose a few small fertile spots called Oases, which rise in the midst of the sands like islands in the They serve as resting-places to the merchants, who, by means of camela, poetically termed the ships of the desert, traverse these dismal regions.

The Desert of Sahara is represented to us as covered with moving sands formed into ridges like the waves of the sea. In the midst of these sands, whose position and aspect are continually changing by the effect of the wind, are dispersed a few rocky hills, and small hollows where the collected waters nourish a few shrubs, ferns, and grasses. The mountains which bound the desert on the west present insulated pinnacles, descending gradually into a plain covered with white and sharp siliceous stones, and which is at last confounded with the sands. At Tegazza, and some other places, a gem salt, whiter than the whitest marble, extends in vast beds beneath a stratum of rock.

During the greater part of the year,' says Malte Brun. the dry and heated air presents the aspect of a red vapour; the horizon seems beaming with the fires of innumerable volcanoes. The rains, which fall from July till October, do not extend their uncertain and momentary benefits to all parts alike. An aromatic herb resembling thyme, the plant which bears the Sahara berry, acacias, and other thorny shrubs, nettles, and brians; such is the only vegetathorny shrens, netties, and brians; such is the only vegeta-tion which is met with on a few spots in the desert: rarely is a grove of date trees or of other palms to be seen. A few monkeys, a few antelopes, content themselves with what little food they can find. The ostrich also inhabits this region in numerous flocks, feeding upon lizards and snails and a few coarse herbs. Lions, panthers, and serpents, often of a monstrous size, add to the horror of them direction. The desert presents no traces of these dreedful solitudes. The desert presents no traces of a beaten path, and the caravans that traverse it, directing their way by the polar star, describe a torthous road in order to profit by the oases, described as billiant with vegetation, but which probably owe a great part of their reputation to the contrast they form with the absolute barrenness of the desert.

Such is the dryness of the terrible burning wind named Samoom, Samum, or more properly Samiel, that it frequently absorbs the water contained in the skins borne by the camels for the use of the merchants and drivers. A last cruise of water has been sold for ten thousand drachmas of gold. In 1805, an akkabah or caravan, composed of 2040 persons and 1800 camels, not having found water in he usual halting places, they all, men and animals, perished of thirst. It is in the desert that is seen most particularly

that singular optical illusion termed the Mira e.

Desert of the North-East and East of Africa. - The great sandy region, as we have said, is contracted in one place by the country of Fezzan. To the east and south of this are deserts occupied by the Tibboos, a nation of Berber; whilst on the north-east the desert of Bar a, the antient Cyrenaica, extends as far as the Mediterranean: both these a e continued on the eastern side by the greut desert of Libya, which borders on Egypt, forming its western boundary. These deserts differ little in character from the Sahara. To the south, the Libyan desert joins the equally steril region of northern Nubia; leaving which, and crossing the Nile, we again meet with sandy and rocky tracts, which, from Abyssinia on the south as far as Suez on the north, occupy the whole space between the river and the Red Sea.

Descris of Arabiu.—Passing from Africa to Arabia, we first meet with the sandy hills which form the isthmus of Suez, and separate the Arabian gulf from the Mediterranean, whose coast-line they follow as far as Palestine. Immediately to the south of these sands extends the stony and barren tract known by the name of Arabia Petræa. Mount Sinai, an imposing mass of granite, is there sur-rounded by rocks of inferior height, composed in part of sandstone, and inclosing a few fertile valleys producing grapes, pears, and other excellent fruits; but the country in general is of frightful sterility, presenting nothing but a few shrubs of Egyptian thorn (acacia rera), which furnishes the gum arabic, with capers, and a few other plants, intermixed with rocks of a blackish granite, of jasper, and of sienite, and plains covered with sand, flints, and rolled stones. There are however large herds of gazelles and other game.

On the south, as far as Hadramaut, and bounded on the east by the Euphrates and Persian Gulf, and on the west by Hejaz and Yemen, extend the vast deserts of Nejd and Ahkaff, which produce nothing but a few saline plants, and their general appearance differs little from the deserts of Africa, unless it be that they contain many hilly

oases adorned with palms and date trees

Continuing our route towards the Euphrates, we leave on our left that part of the Arabian desert which bears particularly the name of the Desert of Syria, which extends northward as far as Haleb, and in the middle of which the traveller discovers the extensive and solitary ruins of Palmyra, the once magnificent residence of Zenobia.

Desert of Mesopotamia.—Having crossed the Euphrates, we find ourselves in the antient Mesopotamia, so called from two Greek words signifying between the rivers, 1. e., the Euphrates and the Tigris, and which, in the most extended sense of the name, includes Aljezireh on the north, and

Irak-Arabia or Babylonia on the south.

With the exception of narrow slips along the two rivers just mentioned, Mesopotamia is a desert still more horrible than those of Africa and Arabia, of which it may be regarded as the continuation. It is covered with burning sands and steril gypsum. Wormwood and certain aromatic shrubs are the only vegetation, which, covering immense spaces, banish all other plants. The waters of this desert, mostly all saline or sulphurous, give rise to pestilential miss-mata, which remain suspended over the de-ert till, the equilibrium of the air being disturbed, there is formed that pestiferous wind so justly dreaded in Syria and the neigh bourhood, and which suffocates any one who has temerity enough to expose himself to its influence.

This desert, occupied by Arabs living upon plunder, is traversed by the caravans which carry on the commerce between Haleb and Bagdad. Its southern portion, or Irak-Arabia, presents, by reason of the proximity of the two rivers, an aspect quite different from that of Aljezirch. That portion of the plain which forms the antient Babylonia is covered with alluvium, and, like the delta of Egypt, is periodically inundated. It is an immense meadow, requiring only the hand of industry to be covered as hereto-bre with abundant harvests, and to become once more the garden of Asia.

Deserts of Persia. - Scarcely have we left behind us these dismal regions, still directing our course eastward, and near the 34th parallel of N. lat., when we meet with the moun-tains of Kurdistan, covered with forests, and intersected by

fruitful valleys.

Having scaled this wall, which forms the eastern boundary of the basin of the Tigris and Euphrates, we find ourselves on the high table-land of Persia, where we again meet with extensive deserts, some of them sandy, such as we have already seen, but more generally of an argillaceous soil; and thus it is that the Persian deserts seem to form the transition between those of Africa and Arabia and the

Tartarian steppes.

In Persia there are five principal deserts, which occupy about three-tenths of the surface of the country. Of these the first is the great salt desert, which separates Irak-Ajemi from Khorassan, and is about 130 leagues long and 70 wide. On the south it joins the desert of Oarmania; on the east it unites to the province of Khorassan. Its soil is a stiff clay, whose surface is covered with a saline efflorescence in some places an inch thick; and its vegetation, as in all the high plains of the country, consists of saline plants, such as the Statice Tartarica, intermingled with a few patches of pasture. The three other deserts are those of Kiab, of Meckran, and of Karakoum. The desert of Meckran is in Beloochistan. It is bounded on the south by the sea of Oman, and is separated from the desort of Sinde in Hindostan by the Brahouic mountains and the Indus. It does not belong to the table-land of Porsia, but to the basin of the sea, of which it forms the northern boundary, or coast line followed by a part of the army of Alexander the Great on its return from India. Its productions differ from those of the Great Desert, And consist of the Indian palm, and the aromatic shrubs of Arabia Felix. The desert of Karakoum is to the north of Khorassan; it is sandy.

Deserts of Grand Turtary.—Descending the Paropamisian mountains which bound Khorassan on the north, and

form in that direction the escarpment of the great highland of Persia, of which the sandy province of Kohistan seems to form the ridge, we enter upon the deserts of Indopendent Tartary. This country is bounded on the south by the Paropamisus already named, and by the lofty chain of the Hindoo Koosh, of which it seems to be the continuation; on the east by the high mountains [BOLOR TAGH] which separate it from Chine, on the mouth in the continuation. parate it from China; on the north by some ridges which, on the one hand descend from the great Altaic chain; and on the other from the extremity of the Ouralian mountains; and on the west by the Caspian. It may be regarded as the north-western declivity of the great central plateau of Asia. It occupies a surface of about 60,000 square leagues, of which the greater half is a desert; for, with the exception of the immediate foot of the mountains and the water-courses, the whole country is condemned to drought and sterility. The saline country is condemned to drought and sterility. The saline and sandy plains extend even round the northern part of the Caspian as far as the Don, and, to the east of the Oural, join the steppe of Isim, claimed by Russia.

The country of Khowarezme or Karissum on the south of Lake Aral is now reduced, by causes among which the invasion of the sands is perhaps the most powerful, to the little district of Khiva, which rises like an oasis in the desert, and which a man may ride round in three days.

The Greater Bucharia, or Bokhara, is also surrounded by send; to the north and west. The whole of Independent Tartary at the present time perhaps hardly contains a population of five millions,—a proof of the extreme sterility of the soil.

On the south-east of the province of Kohistan, of which we have spoken, is situated Segestan, and the country of the Afghans,

Desert of Afghanistan.—Afghanistan is an extensive country, containing the city of Candahar. It is a vast sundy basin, except in the immediate vicinity of the moun-

east towards the lofty mountains which sustain the great central plateau of Asia, and from which descend the ladutowards the south-west, and the Ganges to the south-ca-t.

The vast extent of arid deserts which we have judescribed, scarcely interrupted by the Indus itself, reacted to the very banks of the Hesydrus, the most eastern of the rivers of the Penjab.

From Cape Bojador on the Atlantic to beyond the Induthe sandy region extends in a curved line of 1400 geographical miles, and, setting aside the fertile cases, is estimated by Humboldt as covering a surface of 300,000 square leagues; and yet, however extensive this tract, which service condemned to eternal sterility, we have still to consider to great central table-land of Asia, not less arid than what ve have just seen.

Descris of the Great Central Plateau of Asia.—The first country we meet with as we go eastward is Little Bucha a, bounded on the north by the mountain chain of Alak. which separates it from Songaria, and on the south by the Moos Tagh and Great Tibet. On the east it joins Moos-

Little Bucharia is tolerably fertile near the mountain whence descend innumerable streams, which uniting in the river Yarkand, flow with it into the Lake Lop, having no issue. The whole of the centre and eastern portion of

the country is a sandy and salt desert.

Leaving on the north Songaria, which also contains immense arid spots, and whence the river Irtish takes its rise. still continuing our route towards the east, we find the steril plain extending towards Mongolia, where it operate out to form the vast desert of Shamo, which extends to the Great Wall of China through a length of 500 leagues rarely interspersed with a few fertile spots.

From the outer slopes of those mountains which inclus. and sustain the central plateau, the highest in the world. descend those mighty rivers which, on the one hand. It tilise the great empire of China, and pour the tribute of their waters into the Pacific, and on the other, traverse the widely-extended steppes of Siberia to disembogue into the

frozen ocean.

As for the area of the sandy deserts of the Tartarien table-land, it may on a very moderate computation be 🐟 mated at 100,000 square leagues, which, together with the former 300,000 for the African, Arabian, and Persian design and Persian design. serts, and about 100,000 more for the widely-spread said is and barren tracts in the south of Africa, and sandy patches of Europe, gives a grand total of half a million of square leagues of desert in the old world alone; that is, a surface equal to the whole of Europe, or forty-four times the extent of Great Britain, and this without including the boundless steppes of Siberia, nor the marshy plains of northern Ass bordering on the icy sea.

The deserts of America being of a different character, and known by other names, as Pampas, Savannams, &c.

are described under their proper heads.

DESHOULIE'RES, ANTOINETTE DU LIGIER
DE LA GARDE, a French poetess, born of distinguished parents in 1633. Great pains were taken with her education: she learned the Latin, Italian, and Spanish languages, and studied poetry under the poet Hesnant who often assisted her in her juvenile compositions, 2002 polished her verses when defective. Her life was rationally the state of the polished her verses when defective. possible ner verses when desective. There was rather a romantic one. In 1651 she married the Seigne: Deshoulières, a lieutenent-colonel in the service of the Prince of Condé. She visited the court of Brusses, in company with her husband, where she rendered here is suspected by the government, which caused here to be a suspected and impressed at Vilarale near Remeable. Here arrested and imprisoned at Vilvorde, near Brussels. Here she passed her time in reading the Bible and the works the Fathers, until, after eight months, she found means in escape, with the assistance of her husband. They we shortly afterwards introduced to Louis XIV., and M. Deshoulières was soon esteemed one of the literary outments of the age. Not only did she write a variety of parity. herself, but she was an object of adoration to the content porary poets, who honoured her with the title of the terri-Racine and Pradon having each written a trage .. on the subject of Phædra, Mad. Deshoulières brought up or sandy basin, except in the immediate vicinity of the mountains by which it is bounded on the east and north, and along the banks of the rivers Lhorah and Helmend or Hindamend, which latter traverses it from east to west, and make in the Lake Zorah. The land rises on the north-latter with nothing but ridicule, and afforded him an opportunity

DES

of written a private, this wrote access other discounts passes are militire withing unexes. The dist of his has been all or of for most popular layer, indeed her is the yest of low they in a few many passes. The dist of his has been and of one of for most popular layer, not between other within the limit of her most and they marked a passes, and whose contacts are in the training absorpting when all trained acceptance of the writing a designing, when all trained acceptance on the training advantage of the training a designing which are interested in the layer are the male to works of Micel. Hosticalities worth noteding. Until the commondation in these of them. He passes has been believed acceptance, and only Properly postern) poort and justly resources not for contract books, flower, inc., as of 100% earn layer, yearner. Thus, her matures, also merice a attenuable for beauting flux without passe in the militire with the commondations beatoned in a first order of the common whose it is a beginn I flux order to the fully discussed in the surface of the layer of the lateralizes as written with grown lightness and degrates, and fully discussed in a discussion beatoned in a layer for the male of drying hasine, and is affected without military in which it is discussed in the fluid from which it is drawn done it they may be defected without military in which it is discussed in the fluid from which it is drawn done it they may be defected when the consciously is the scalar of the works of the constitution of the works of the constitution of the con

In Jane 1. In the first sets the word design (from the FRISHEN). In the first place it is used morely to smally the street in the term different agents shown in the first place it is used morely to smally. The set of destroy, to appropriate these, the form of any sides it is the lies best place it expresses that combination of inverses and purpose which enables the second company a prompt of a purpose which enables the second in a company a prompt of a purpose of first assumption of first solutions. In the second in the invention of first end to the place it is the anticular to despite the first and the invention of appropriate and perfections of the invention of appropriate actions and perfection of physical form the despited on the first limited that it is also because and perfection of physical form the despited on the first limited and present and perfection of physical form the despited

Bur of all the crisions speciments of set the panetimes of the valuan control depolar the most remainment worklowes stated as a superably the Percentific and Roman who choosed and some them Rephardes in portunite. The remainment of the story, and the them the state of them and forms a proposale in the dumin actus of the object of any the investigate of the remainment as in the adaptate in the dumin actus of the object of appropriate as the property of the remainment as in the adaptate of the tree of the tree of a proposale as the tent tree due of nature and the interior of the arter to assign to each in position according to the prominents in the story, and the perfect excending of the design places, before our cross with a position of the remain of the due design in the story, and the perfect excending the due design places of the resistion continued in the design of the remains of the due to the design of the remains of the due to the design of the remains of the due to the design of the remains of the due to the design of the remains of

ings, on the score of their being too technical and difficult, they become, when once explained, intelligible enough to any person of common capacity, however ignorant he may be of architecture. To begin with the plan (the plant, or plot, as it is sometimes termed by old writers), as the first in natural order, it being that which must be determined upon before the walls can be raised,—it may no less briefly than clearly be described as the map of the building; consequently, any one who understands geographical or topographical plans of that kind can be at no loss to comprehend the nature of an architectural one; the latter being a far more exact and less arbitrary and conventional representation than the other class. By means of the plan we distinguish most clearly the exact shape and extent of the building as regards the space on which it stands; the thickness of the walls, the internal arrangement, with the forms, number, and areas of the rooms and passages into which it is dividea; and the situation and width of the doors, windows, fire-places, staircases, &c.; the solid and raised parts, such as walls, columns, piers, &c., being shaded, and the voids or apertures in the walls, such as doors and windows, being left white. For every story of a building there must be a separate plan, although it is not usual in books of designs to give more than those of the ground-floor and the principal one above it, from which the arrangement and size of the rooms above them may be tolerably well guessed at, unless there should happen to be some uncommon deviation in such respects from those below. Plans may further be distinguished as simple or detailed: the former are mere floorplans, indicating no more than belongs to the distinguished as simple or detailed: the former are mere floorplans, indicating no more than belongs to the ceiling plane, a plan of this kind is made to indicate the pavement of floors, the position of which is of material importance. Sometimes, too, plans are given showing the exterior of the roof of

Another species of plan is that termed a block-plan, namely, a map displaying the general mass of the building, together with its locality, either in regard to other edifices or not, as the case may be; and such plans are an exceedingly useful accompaniment to others, because they serve to make us acquainted not only with the structure itself, but with its situation. From a ground-plan alone, for instance, of St. Paul'a, all that could be learnt in respect to the last-mentioned circumstance is, that it is insulated, whereas a block-plan would show the precise form and extent of the surrounding area; how confined and irregular it is, and how far it would be necessary to set back the houses in some places in order to reduce the whole to uniformity. Plans of this kind are, in fact, special maps laid down upon a larger scale, and therefore more exact and detailed, although less comprehensive than ordinary ones.

An elevation (formerly termed an 'upright,' in Italian alzata, in German aufries) may be described as a vertical plan, showing the front or one external face of the building as raised upon the plan; it therefore gives the precise forms and measurements of every part, delineated geometrically according to scale, and not as they appear according to distance or the accidents of perspective, whether depending on the level at which the eye is placed, or as the building happens to be viewed parallelly, or more or less obliquely. When the elevation is a single general plane, as is the case, for example, with the Travellers' Club House, in London, it will not differ very much from a direct front view, the projections being only those of the cornice, the dressings of the windows, &cc., which are rendered manifest, and may be measured from their profiles; consequently, an eye unaccustomed to such drawings cannot be puzzled. It is necessary, on the contrary, that a person should understand the principle of geometrical drawing before he can form a correct idea of the subject, and judge what its actual appearance would be, if it consists of several planes or separate elevations placed one by the side of the other, all standing upon the same-line, and without their returns or the planes persisted of and connecting them together, being shown;

because unless the plan is also seen the shadows alone serve to indicate what parts project and what recode begue: the general line of the front, and in what degree they is, the shadows being at an angle of 45°, whereby they are them, beyond the projection of the part which occasing them, beyond the plane or surface they are thrust upon. This may be easily exemplified by St. Patter Cuthedral: in a geometrical elevation of the western front, the shadowing informs us (without referring to traplan) that the columns in the centre are at some distance from the wall behind them, yet do not form a projective portice (or porticees, one above the other); for that we is cast a shadow from itself on the building; but that the property of the columns recode inwards. behind the columns recede inwards. Again, we she perceive the whole of the cupola just as if it were imme ately over the front, and between the two western towers. T: only thing to indicate the contrary is, that the shadows work be less forcible, and a tint would be thrown over it, by way expressing distance; and although, independently of the no architect would imagine it to be so placed, yet it would be impossible to determine the precise distance from the front, there being no shadow cast upon it by any other part of the building. Consequently, this would remain: be ascertained, either from the ground-plan or from a lateral elevation of the building, in which the cupols would shown above the transept. One particular in which elections differ materially from other drawings and from :... appearance of the objects themselves, is, that no distinc: is made between curved horizontal lines and straight one. so that whether the part be a plane or curved surface, can understood only from the shadowing, unless there hat to be something that assists in denoting curvature of r. Thus, the mouldings of the base of a column are all strain lines; consequently, without shadow to express rotung. we could not determine whether they belonged to a flat ... round surface, unless the shaft be fluted, in which care the flutes will diminish in width, according to their distance from the centre, as may be seen by referring to the cuts in the article COLUMN, pp. 385 and 386. So likewise, in spect to a tower without either apertures or vertical lines regularly placed, we cannot judge whether it be circular or not; whereas, if there be either, they suffice to show it.: the surface is curved, although represented only in outline because the apertures and the spaces between them well become narrower in proportion as they are more distant from the centre, and their reveals, or inner surfaces, was i appear. Still, without shadow, we should not know whether the surface was convex or concave, except by referring the plan, or by the nature of the subject, there being to difference between the two as regards outline alone. will be obvious when it is understood that the elevations of curved surfaces are projected, as it is termed, from to plans, by lines drawn perpendicularly to the geometre: !!
plane of representation, which determine where the vertical lines to be shown in the elevation will fall, and the distant between them; consequently, whether the elevation be prejected from a convex or concave plan, the result will be the same. When no curved parts occur in the elevation, the tramay be taken at once from the plan. The same metter, however, it should be observed, is employed for polygran figures as for circular or curved ones. Thus, of an octor is three sides would be shown in elevation: yet, although of the same width, the two diagonal or oblique ones will appear narrower than that seen directly in front; and the applies to all oblique surfaces, let the angle they are plant to such liberies as are plant. at he what it may; and to such likewise as are oblique to the horizon as well as to those which are vertical. Hence roof terminated by gables or pediments at the ends of the elevation will, as regards outline, be drawn as an uprige ! plane, and the sloping lines of the pediment will are vertical.

Notwithstanding, however, these circumstances, who are apt to perplex those who are prejudiced against a metrical drawings because they are not satisfactory as tures,' a person at all accustomed to them is so far a being in danger of misconceiving them, that it would appear an effort on his part to imagine the objects at than what the drawings are intended to express—to find a semicircular projection to be a plane, or the profile of a pediment to be upright.

Nevertheless, although the whole may be perfectly well.

ence which sometimes occurs between an elevation and the building itself; or that the real effect is duly considered be-forehand. Recourse is therefore occasionally had to what is termed a perspective elevation—a kind of conventional representation, partly geometrical, partly perspective, and combining in some degree the advantage of both modes, although strictly neither of them As in elevations of the usual kind, the building is shown exactly parallel to the picture, with the point of sight precisely in the centre, at the proper height from the ground, and as far as regards the first or principal plane, is treated as any other geometrical drawing; but the parts beyond this plane are thrown into perspective so as to show the sides of projections, the soffit of entablatures, the ceiling and pavement within porticoes, and how much of a dome or other part of the structure, standing back from the front, would be concealed from view, at a given distance. It may be further observed, that elevations, both those of the above description and such as are strictly geometrical, have very frequently a pictorial character given them, not only by colouring as well as by shadowing, but also by the addition of sky and background. Yet it would be better were such accompaniment no more than what is just sufficient to relieve the building, instead of being extended over the whole drawing, and carefully worked up; because it is calculated to seduce the eye, while, by making too great pretensions to the character of a picture, it causes the elevation itself to appear offensively formal and unnatural. In fact, outline elevations (which mode is now gazantly adopted in mode and the contract of the contract elevations (which mode is now generally adopted in modern elevations (which mode is how generally adopted in modern architectural publications, especially foreign ones) are pre-ferable to those which are shadowed, as they exhibit all the forms more distinctly, and admit of being measured with much greater exactness. They do not, indeed, certively any notion of effect; yet that may very well be dispensed with in such drawings, particularly if they be accompanied by perspective views.

We now come to speak of sections, which are for the interior what elevations are for the exterior of a building. A section or profile (in French coupe, Italian spaceate German derch schnitt,) is a plane cutting through the structure on some line of its plan, and showing the thickness of the walls and floors, the heights of the rooms, the forms and profiles of ceilings, whether plain or decorated, flat, eved, or arched; also the exact forms of domes and skylights. In fact it exhibits all the separate elevations of the rooms intersected by such plane, that is, the elevation of that side of them which faces or lies behind the plane of representation. In addition to the particulars just enume-rated, we are by this means made acquainted with a variety of others, in regard to which a plan cannot be made to afford any information. The thickness of the walls may be ascertained by the plan as well as by a section; so also might the height of the rooms be expressed in the former by means of figures, as the other dimensions generally are; and the form and size of the windows may be learned from the elevations; still we should not know what are the heights of the doors, how they are panelled and decorated, nor what is the form of the chimney-pieces, &c.; nor be able to judge so well of the general proportions of the apartments. Besides which, sections may be made to show much more than what belongs to the architecture alone, for there are many instances in which furniture, pictures, and other decorations and fittings-up, are introduced; and unless this be done, a section is apt to have a naked appearance, except the architecture itself be particularly interesting and rich. For detailed and filled-up sections it is usual to employ outline with the walls and dispersions in the former as more solid being made much darker than the latter. When, on the other hand, the elevations of the ruoms themselves are shadowed, the thickness of the intersected walls, &c. are left white, in order to prevent confusion and exhibit the profiles better. It should be observed, too, that in sections of this latter description, it is the practice to throw a shadow from the side walls and ceilings of the rooms, as if it were a model of the building really cut through; thus producing an effect both disagreeable and unnatural, and by no means assisting towards rendering the representation more intelligible. Indeed, indispensable and interesting as they are, sections are a far more conventional mode of drawing than elevations, be-

understood, it is not always that sufficient allowance is cause they represent a building as it never can be seen at made, even by architects themselves, for the great differulal, except where the front of a house has been taken down for the purpose of rebuilding it, while the floors and par-tition-walls are left standing; in which case any one may obtain a good idea of the nature of a section, but of one seen in perspective. Besides general sections showing the whole of a building from top to bottom, there are frequently partial ones, showing only the rooms on one floor, or even a single room, when it is desired to show it on a larger scale than could conveniently be done any other way. Or instead of this, recourse is sometimes had to a plan of the room with each of its elevations or sides drawn around it, as if laid down flat on the ground, by which means the whole of the apartment is described; for the ceiling may be represented on the plan itself. Horizontal sections again are occasionally made use of, in order to show more accurately than call be done upon a plan, not only the ceiling and its ornaments, but the soffits of entablatures, of window recesses and door-cases, also the capitals of columns and their projection.

Although not in general use, there are likewise many other modes and combinations which deserve to be pointed out. One of them is that of elevation and section united; that is, one half the drawing shows half the elevation, which, as far as understanding it, fully answers the purpose of an entire one; while the other half shows half the section. Another is that of sectional perspective view, which, while it serves the purpose of a section in regard to showing the exact form, profiles, and measurements, on the first plane, intersecting the structure, gives also a picture of its interior just as it would appear in any other drawing of the kind; the only difference being, that in this case the drawing extends beyond the interior, while in other views it is bounded by and confined within it. It is hardly necessary to observe that such a mode is suited only for showing a single space, and not one divided into separate rooms. It is exceedingly well calculated for displaying the interior of a portico, as it admits of the situation of the columns in front being shown by the foreground being

made a perspective plan.

Besides the usual plans, elevations, and sections, there must likewise be details or parts at large, answering in some respect to what are termed working drawings; since without these we can judge only of the general design, but not of its minutiæ and finishing, whether belonging to decoration or construction:—and far more may be learned, and that too more satisfactorily, by studying a single good example thoroughly, than by looking at many which are only imperfectly described. It is therefore to be regretted that published designs, unless they happen to be those of actual buildings, are so exceedingly defective in this respect, senerally showing no more than a couple of plans with one generally showing no more than a couple of plans with one or two elevations, while, although so very essential, sections are entirely omitted. In order to illustrate a subject properly, not only should there be a plan of every floor and an elevation of every side, but sections, both longitudinal and transverse, and as many of each as the nature of the

Having done thus much to show the whole anatomy of the structure, we may then provide perspective views both of the exterior and principal parts of the interior, in order to show the character and effect, which, without such drawings, can be judged of only piecemeal, and inadequately even by those who perfectly understand the others. Yet however satisfactory as a representation, a perspective view of an interior must still leave much to conjecture, as one of the sides or ends of it cannot possibly be shown. one of the sides or ends of it cannot possibly be shown, while of the others two will be more or less foreshortened, so that if there be deep receding parts in them, they can be but imperfectly seen,—perhaps may be quite misunder-stood; or can be well understood only by the sid of plan and section. In many cases, therefore, an interior would require two or even more perspective drawings in order to show it completely. But with every part of the building thus fully made out and described in drawings, the whole may be understood as well, in some respects even better. than by a model of it; for besides that the latter can do very little towards showing the interior—certainly not its effect, there is this drawback attending it, that it conveys no idea of situation or locality, and that, instead of the eye

being confined either as to due distance or height, it views it from points from which the building itself can never

plan may require. Having done thus much to show the whole anatomy of be seen under any circumstances. accompaniment of sky, background, foreground: a model exhibits the mere building alone—as it is, certainly, yet not as it appears; for it is seldom any attempt is made to give the proper local colouring—at least to do more than merely hint at it. By means of perspective views, on the contrary, provided they be sufficiently numerous and judiciously chosen, and not deceptively embellished with effects of rare occurrence, we may obtain a most accurate idea both of the architecture and of all its local accompaniments and accessories, whether favourable or the contrary. Of bird's-eye views of buildings [BIRD's-EYE] we have said nothing, both because they are now seldom made use of, and because we consider them not only most awkward, disagreeable, and unnatural representations in themselves, but as altogether superfluous, if a building is properly described by the other modes, or even

by a block-plan and elevation alone.
DESMAHIS, JOSEPH-FRANÇOIS-EDOUARD DE CORSEMBLEU, was born in the year 1722, at Sully-sur-Loire. His father designed him for the law, but he devoted where he was well received by Voltaire, and admitted into high society. He distinguished himself by a number of little poems, which enjoyed a considerable reputation in their day, but which, as most of them are suited to particular persons and occasions, and moreover are filled with mythological allusions, have little interest at present. The Greek mythology was put to a peculiar use in the days of Louis XIV. and those of our own Queen Anne; poems were written altogether in the court taste, and yet perpetual references were made to pagan gods. Not the slightest attempt was made to write in the true spirit of the Greeks, as Shelley and other modern poets, who have chosen mythological subjects, have done of late. Hence a variety of little works, which acquired a great reputation during the reign of a certain fashion, have fallen into oblivion on that fashion having passed away. The poems of Desmahis are precisely of this class. He wrote some comedies, of which 'L'Impertinent' was very successful in its day, but attempts to revive it have proved ineffectual, and La Harpe blamed for the articles 'Fat' and 'Femme' in the 'Encyclopédie.' Instead of writing something that contained information, he only made two satirical essays in the style of Rochefoucauld. He died in 1761.

DESMANIS. [REGNIER.]

DESMOND, and EARLS OF DESMOND. [CLARK

and Cork.]
DESPOTISM.

DESPOTISM. [MONARCHY.]
DESSALI'NES, JACQUES, a negro from the Gold
Coast of Africa, was imported into the French colony of St. Domingo as a slave. Having become free like all his fellow slaves by a decree of the Convention, 4th February, 1794, he soon figured among the foremost in the insurrection of the blacks against the white colonists. He attached himself to the negro chief, Toussaint l'Ouverture, who made him his first lieutenant. His intrepidity, his extreme activity and quickness of movements, distinguished him in the war against the French troops, and particularly against generals Rigaud and Leclerc in 1802. After Toussaint's capture by the French, Dessalines submitted for awhile, and accepted an amnesty, but he was soon after at the head of a new insurrection against general Rochambeau, Leclere's successor, and contributed greatly to the victory of the blacks at the battle of St. Marc, which decided the evacuation of the island by the French in October, 1893. Dessalines encouraged a general massacre of the whites, without distinction of age or sex. In 1804 he had himself proclaimed emperor of Haiti, under the name of Jacques I., and established his court in imitation of that which Bonaparte had just formed in France. But his cruelty and a bitrary conduct towards in France. But his cruelty and a bitrary conduct towards his fo mer comrades led to a conspiracy, at the head of which were the negro chief Christophe, and Pethion, a mulatto. They rose upon Dessalines at a review, in October, 1806, and killed him on the spot. Christophe succeeded him as emperor of Hatti, by the name of Henri I.

DESSAU, ANHALT, a Saxon duchy in the north-west of Garmany bounded where its limit of the control of the cont

of Germany, bounded, where its limits do not touch the other duchies of Anhalt, Bernburg and Cöthen, by the Prussian province of Saxony. It is composed of six detached portions of territory, situated on the banks of the

Neither has it the | Elbe, Mulde, Fuhne, and Wipper; and they are subdivided into Market

Popula-

1	Towns.	Towns.	Vill.	House	s. tioa.	Chief Town.
1. Dessau Proper.						
Bailiwick of Dessau	1		14	1638	13,700	Deman, 10,751
Qualendori	2	• •	181		( 6.290	Radegast,
Oranienbar	220	` <u>}</u>	18 1	2372	10.500	Oraniest banks
1		_			1	2070; Warlet
Town of Raguhn, on a	n is-				•	
land of the Mulde	1			906	1,670	
Town of Jessnitz, on the		•••	••		-,-,-	
Mulde	~ 1	••		340	2,380	
2. Builiwick of Gröbzis	, ī	•••	10	430	2,930	Grobsig, 13 9
3. Sandersieben	ĭ	••	7	880	5.250	Sandersleine
4. Gross Alsleber	n	~i	- 6	260		Gross & labele : "
4. " Gross Alsleber 5. " Greater Zerbs	i i i i	-				
6. Lesser Zerbat		• •	94	2180	19,790	Zerbst, 8579
1	·	_	-	_		
Total	8	2	101	8300	57.210	

The duchy has an area of about 357 square miles: it tends from 11° 30′ to 12° 35′ E. long.; its most souther point is in 51° 39′, and its most northerly in 52° 7′ N. With the exception of some high ground in the bailing of the square property of the square property of the square property of the square property. the surface rising slightly along the banks of the Eile 1 Mulde. The character of the soil veries considerably:
districts adjoining the Fuhne and Wipper are highly tivated, and fertile in grain, vegetables, &c. the vicinity he Elbe and Mulde is noted for its rich meado as and is tures; but the soil of Zerbst is poor and hungry, and meparts of Dessau Proper are sandy heaths. In general it to be said that the districts on the left bank of the Eiber. extremely fertile, and on the right bank sandy and unne-A fifth part of the surface of Anhalt-Descau . ductive. covered by woods and forests, which occupy about seventhree square miles, mostly on the left bank of the Ribe, ab Wörlitz, Oranienbaum, &c., and from the abundance game still render the duchy as famed in Germany as

former times

The chief river is the Elbe, which traverses Anh Dessau from east to west, and divides it into two very equal parts, of which the larger lies on the left bank banks are defended by strong dams, called the Riber for the purpose of checking the inundations which at the devastate the adjacent lands. The Bloe separates Zer from the Prussian dominions, and is traversed by a the bridge, about three miles north of Dessau. streams in the duchy are tributaries of this river, en directly or indirectly; those of any importance which a directly into it are the Mulde, a navigable stream. directly into it are the Mulde, a navigable stream. known for its salmon, which comes from the bailtwin. Alsleben, receives the Wipper, and meets the Elle a Henscheinen above Dessau, and the Ruthe, which extra the duchy from Zerbst. The minor streams, indirectibutary to the Elbe, are the Taube, Wipper, Puhner only native river of Anhalt-Dessau), and the Zietle Zittau, which flows into the Fuhne: the three first untaker weters with the Saale a tributary of the Elbe. their waters with the Saale, a tributary of the Ribe. I duchy is full of 'stillings,' narrow tracts of successional ponds or pieces of water, which bear evident trace having been parts of the former beds of rivers; they in the tributant traces having been parts of the former beds of rivers; tially shirt the course both of the Mulde and Ribe. It are a number of lakes also, the largest of which is the Posituated between the Mulde and Elbe, and close to confluence; the high road from Dessau to Orangento passes across it by means of a wooden bridge, restrict stone piers. Lake Schönitz is of considerable length. connected with Lakes Rehsen, Röttingen, and Döbertz. B the most picturesque is Lake Wörlitz, which is also nected with Lake Röttingen. All these receive their with from the Elbe, and are supposed by many to have once by ortions of an old bed of that river.

The climate of Anhalt-Dessau is temperate and hea. though the inhabitants suffer at times from fevers . other diseases occasioned by inundations.

The industry of the people, encouraged by the pateriare of the government, who introduced the English of husbandry in the latter part of the last century brought almost every available tract under cultivation placed the duchy in a situation to produce more grain ! its wants require: and the same remark applies to fruit. vegetables. It grows all the ordinary descriptions of as well as hops, hemp and flax, pulse, succory, maddler bacco, rape seed (from which about 220 tons of oil ar. nually obtained). Buckwheat is raised in Zerbst, and y large crops in wet seasons.

nel of the three Autoatt duction ; and the affine of the mann | it estimated at 1750, of whom 1020 are boys.

There are in a name in Abstract liberary in the angularistic receipt them of Diagothne in the Sching ab of Controlled by a service of the state of the Sching ab of Controlled by a service of the Sching ab of Controlled by all them of Controlled by all

The population of Dessau in 1818 amounted to 9136, of whom 807 were Jews; in 1830, including the suburbs, it contained 1005 houses and 10,611 inhabitants, of whom 763 were Jews; and in 1836 the population was estimated at 10,900. They have but few manufactures, principally of cloth, stockings, hats, tobacco, vitriol, silver-lace, and beer: the retail trade is almost exclusively in the hands of the Jews. It however carries on a considerable trade in grain, &c., and has a salmon fishery on the Mulde. Dessau has three annual fairs. It is the birth-place of the philosopher Moses Mendelsohn, who died in 1786. In the environs are the ducal villas of Louisium, Georgium, and Vogelheerd, with gardens laid out in the English taste; the Drehberg is the burying-place of the dukes of Anhalt Dessau, which is excavated in an artificial mount, planted with shrubs, and surmounted by a building with a lantern and cupola; and the Stieglitzberg on the Elbe, with the monument to the memory of the duke of Dessau, who fell at the battle of Torgau.

It seems probable that Dessau, like many of the neighbouring towns, was built by the Dutch in the latter half of the twelfth century, under Albrecht the Bear; and though it is not mentioned by any existing records until 1213, it is, with some probability, conjectured that the church of St. Mary is of earlier date, the hospital having been erected some time previous to 1228. The school, which is the oldest in Anhalt, was founded in 1313. [Anhalt.]

DESTOUCHES, PHILIPPE NERICAULT, was born

DESTOUCHES, PHILIPPE NERICAULT, was born at Tours, in 1680. He much displeased his relations by turning actor, when they had designed him for the law. He wandered from town to town as director of a company of comedians, among whom he was distinguished by his strict morality and his great regard for religion. His first dramatic piece, 'Le Curieux Impertinent,' (founded on the episode of the same name in Don Quixote) was acted in 1710, and received with enthusiastic applause. Three pieces which followed seem to have had more success than they merited. In 1717 Destouches accompanied Cardinal Dubois to England, where he married an English Catholic lady, with whom on his return to France he retired to an estate in the country, where he passed nearly all the remainder of his life. In 1723 he was chosen a member of the Academie. About this time commenced his great reputation as a dramatist, for though his former pieces had been successful, they rose little above mediocity. His 'Philosophe Marié' raised him to a high rank among the comic writers of France, and the envious critiques which were written against it only showed how highly it was valued. 'Le Glorieux,' which followed, was by some critics considered even superior to 'Le Philosophe Marié,' and La Harpe seems to be of this opinion; however the latter is generally considered the most perfect. He continued to write for the stage till his sixtieth year, though the pieces he produced were not equal to the two already mentioned; one of the most favorite was 'La Fausse Agnés,' a farcical comedy resembling Murphy's 'Citizen.' From that time he devoted himself to theology, and wrote several essays against infidelity. He died in 1754.

The 'Philosophe Marie,' on which, as we have seen, the fame of Destouches chiefly rests, is a model in its way. Although the subject and style of the whole are generally serious, there are situations and scenes which can scarcely be excelled for humour. The moral tendency of the piece is such as must give pleasure to a well-constituted mind. There are no hacknied sentiments or mawkish expressions, but the best of feelings are pourtrayed, and exhibited in so attractive a form, that even the bad characters of the piece are overcome by them, and the spectator feels that their conversion is perfectly natural. The very weaknesses which the author has implanted in his virtuous characters show that he knew human nature to be more interesting

than a picture of faultless abstractions.

DESVAUXIA/CEÆ, an obscure and little known natural order of plants, consisting of a few New Holland sedge-like herbs, of no known utility. They are nearly related to Restiacess and Cyperacess, and are principally characterized among other glumose endogens by having several carpels placed in the middle of each flower. The most recent character is the following, given by Endlicher, in his 'Genera Plantarum.'

Dwarf Australian herbs with the appearance of a pigmy Cyperus or Scirpus; the roots fibrous or fasciculated. Culms filiform, undivided, leaftess. Leaves radical, be-

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tween thread-shaped and bristly, sheatning at the base. Spikelets hermaphrodite, in two ranks, one-flowered, or terminal and solitary with one or many florets. Glume single, anterior, or two nearly opposite each other, coar Paless none, or delicate, single or double, parallel with the glumes. Stamen single, anterior. Filament filiform, simple. Anthers turned inwards, one-celled, attached by the back above the base. Ovary either single and second would exclude this charactery or several attached to common axis at different heights, imbricated downwards one-celled. Ovule solitary, suspended from the apex of ovary, orthotropous, with the foramen regarding the booth of the ovary. Styles filiform, simple, united to each other at the base. Stigmas simple, or with a feathery bear at the base. Stigmas simple, or with a feathery bear at the base orthotropous, pendulous; skin leathery and racter hard. Albumen fleshy and abundant. Embryo antitroperated opposite the umbilicus; the radicular extremity of the seed opposite the umbilicus; the radicular extremity prilose, and regarding the base of the fruit. (Genera Processing) is the seed opposite the umbilicus; the radicular extremity prilose, and regarding the base of the fruit. (Genera Processing)

DETACHMENT, in military affairs, is a certain number of battalions of infantry and squadrons of cavalry which rescheded from an army for the purpose of being employed on some particular duty.

The danger of being beaten in detail renders it, gener."
speaking, improper to have considerable divisions of army far separated from the main body, but in warfing many circumstances occur which render such a measure adviseable; as, for example, the necessity of keeping session of certain important positions while the rest of the army is otherwise employed; of masking a fortress, keeping a body of troops in check, during the temporary advance of the army into the enemy's country; or of prefecting the magazines and ensuring the safety of conversity that the detachment may it be cut off; it should therefore be protected by some fortiffication or its distance from the main body should not be great as to prevent it from rejoining the latter before it can be attacked by a superior force: good roads should of course

place, or its distance from the main body should not be a great as to prevent it from rejoining the latter before it can be attacked by a superior force: good roads should of course exist, or be formed, by which it may retire if compelled.

Detachments, when judiciously disposed on a field of battle, may contribute much to a victory by turning an enemy's flank while a powerful attack is being made at the front; but the greatest foresight and a perfect knowledge of the ground are necessary in order that the operations of the main body and the detachment may take place at the proper times. The king of Prussia (Frederick II.) seems to have been averse from making detachments on the field of battle; and, in his Instructions to his Generals, be observes, that they generally arrive too late or too early the appointed place, on which account they frustrate the object which was intended by them. He quotes as examples, the defeat of Charles XII., at Pultawa, in consequence of the detachment which he sent out on the preceding evening having lost its way; and the failure of Prince Eugene to surprise Cremona from some such cause. The objection however does not apply when the army is able to make detachments without weakening inself to much, and when the divisions are not separated by land the if required. At the battle of Vittoria, in 1813, the troops under General Graham may be considered as form, a detachment from the principal part of the army command by Lord Wellington and Sir Rowland Hill; and, as the communications between the divisions were very difficult from the nature of the country, so that the commanders were obliged to act independently of each other, the circumstances must have been very unfavourable for a unit of action; yet the event justified the measures taken, and the victory there gained completed the deliverance of Spain.

When an officer is detached with a few troops to watch an enemy, he should endeavour to get well acquainted with the ground, in order that he may be enabled to change he position according to circumstances, and he should keep his division concealed as much as possible. He may a toffensively if a favourable opportunity should present itself, but, in general, his object is to gain information and keep the enemy on the alert rather than to fight. Men of intelligence should be appointed to such commands, which are frequently attended with considerable difficulty and danger;

into an alphi second. The offers has the greater decree of corresponding horself.

Significal collinearies are one on an appresence of the array in particular across that, in three in health polarity, repair industry and across the health on a mathematics to these problems which have me encour only to a least a second and bride particular of accorder. The the problem, a significant of accorder. The three problems as inch have me encour only to a least a second card bride particular of accorder. The transfer is the problem, a significant of accorder. The transfer is transfer to a proof of the transfer of page of solving it consists of the transfer of the transfer of a proof of the problem. The transfer is the problem of page of solving it consists of the transfer of the adjocation of the passes and the adjocation of the English law we have recovery of goods and cleateds which have been the transfer of the first of the adjocation of the passes and of a transfer of the first of the adjocation of the passes and the transfer of the first of the adjocation of the passes and the transfer of the first of the adjocation of the passes and the transfer of the first of the adjocation of the passes and the adjocation of the passes and the adjocation of the passes and the adjocation of the adjocat

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TRETMETUS and DEDRAM, uso woods now universally received into the language, the former of Latin, the latter of French arigin. They are very responsity configural to seath, at graders and physical geography, when treatment the formation of allowed deposits. By Johns, in geological languages is meant generally the frequency of rocks, building gravely study remains of rocks, building gravely study the frequency of rocks, building gravely study the frequency of rocks, building gravely study from the commits and table of meantains of supposite and the fillest of the dismants of tracks and the gravely commitmed to polyected by attention. Defend at the fillest process desiring that theretaes exclude the disc of the larger fielding.

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The lost of a recolacity constructed work, with purpose and basicous, and purrounced by polission, a deep diesi, and given.

Default is a thriving place, and curvies on an active lead, with Olitic and New York. Several times of milrost force bear projected, which, whose competend, more sold impair andly to the freshing facilities of the force. One of class saily to the freshing facilities of the force. One of class lines to common Dervait with the west take of Lake 31. chirals at the month of the raver facility locally, was because in the agring of 14.5%, whose complaint is three it common to the agring of 14.5%, which as almost four in the agring of 14.5%, which are samplied it will be arrardy non-miles body, and will accomplaint address the of communication, and the agringed beaution of 40.20 for the view of 14.21, it is assumebous and no other vessals of the agreepes four-lines of 40.21 form. The population of Detroit of 14.21 as 15.21, it had accreated in 15.22 in 15.21, passe which into the number has been greatly augmented. There are two more provided books established in the town, with expendiculation of 14.25, one of the Layer Mann, an Hayatin it bears that Washington.

DETTINGEN, a market-lown in the circle of Academical and particles of the Layer Mann, an Hayatin it bears that aging town to if the Layer Mann, an Hayatin it bears that aging town at it is Mann has 70 houses and about the milestrate of the 20th date. 17.21, by the dilied forward it bears at the agint work of the Layer Mann, and Payatin it bears as the agint work of the Layer Mann, and Payatin it bears as the agint work of the agreed charge in the grid of the control of the structure of the agreed facility of the presence of the agreed charge in the paying and produced in the Layer of the structure of the control of the control of the agreed the facility of the paying and produced in the control of the agreed the facility of the paying and produced i

Marble is 1548 s.c., and by Eusebius 1541 s.c.; but the stories connected with his history are so manifestly fabulous, that doubts as to his actual existence are unavoidably entertained, and it sections. It must be confessed that there are no etymological grounds for thinking so, as appears to be the case more or less with the early kings of Attica (Philolog. Mus. ii., p. 345, foll.), for the name Deucalion seems to signify nothing emore than 'the illustrious' (Hesych. sub v. διυκές), and is a possible name for a real person: it

seems to signify nothing theore than the illustrious' (Hesych. sub v. dewic), and is a possible name for a real person; it was also borne by a son of Minos II. (Apollod. iii. i. 2.)

DEULE, CANAL DE, is chiefly in the department of Nord in France. It commences in the river Scarpe and runs north-west to the neighbourhood of La Bassée as small canal from that place joins it. It then turns to the north-east, passes through Lille, and turning again to the north-west joins the Lys at Denslemont near Warneton. Its course is partly in the department of Pas de Calais. Its whole length is about 40 miles. The part from the Scarpe to Lille is called Haute (or Upper) Deule, and was finished in 1690: from Lille to the Lys it is called Basse (or Lower)

Deule.

DEUTERO'NOMY, the fifth book of the Pentateuch, or five books of Moses.

The Hebrew title TINN, alch hadebarim, 'These (are) the words,' consists as usual of the commencing phrase, a mode of appellation similar to that adopted in technically quoting a legal instrument. Among the Rabbins it is also called sepher tuckhuth, 'the Among the Radullis is an account of the book of reproofs, or denunciations, of which there are many, as in chs. iv. ix. xxviii. xxx. xxxii; and Mishneh torah, the as in cas. IV. IX. as vive a restatement being made in this repetition of the 1aw, a restatement being mane in this book of the Mosaic laws contained in the preceding books of the Pentateuch. The Greek title Δευτερονόμων, deuteroof the Pentateuch. The Greek title Aurreportuer, deuteronomion, given in the Septuagint translation, is equivalent
to Mishneh torah, being composed of two words signifying
second' and 'law.' By the Jews this book is divided into "second' and 'law." By the Jews this book is divided into ten paraschioth, or chapters. In the translations the number of chapters is thirty-four. The events directly related by the writer are comprised in a period of five lunar weeks, from the commencement of the eleventh month to the seventh day of the twelfth month of the fortieth year of the seventh day of the twenth mount of the former year of the wandering of the Israelites in the wilderness, after their wandering of the assumes in the wilderness, after their departure from Egypt. The book is generally considered to have been written A. M. 2553, or 1451 B. C., by Moses, in the last year of his life, when at the age of 120, and in the plains of Mosb (i. 5: Numbers xxxiu.50, xxxv.1), near the ford of the Jurdan, where the Israelites afterward. plains of Moab (i. 5; Numoers Axxin. 30, XXXV.1), near the ford of the Jordan, where the Israelites afterwards crossed over into Canaan: not 'over against the Red Sea' (i. 1), as in the authorized version, where the word 500, Suph, the in the authorized versions where the word spo, Suph, the name of a city or nation, is wrongly translated the Red Sea, but as Dr. Geddes reads, 'in the wilderness on the other side of the Jordan, in the plain, over against Suph,' only aide of the Jordan, in the plant, over against Suph, only eleven days journey from Mount Horeb, the Israelites on their way from thence to the Jordan having wanon their way man the state of the opinion which attri-dered about nearly forty years. The opinion which attri-butes the authorship of this book to Moses is attended with difficulties which have induced Eichhorn and other learned difficulties which have mauced Element and other learned commentators to assign a much later date to it than the age of Moses. The concluding chapter, which gives an account of the death of Moses, and of his having been buried by God, is believed by most but not by all of the commentators to have been not written by Moses, for some consider this account as a prophetic one, related in the past tense, a practice not unusual among the Jewish prophets. This last chapter is supposed by others to have been jointly or rather successively supplied by Joshua, Samuel, and Kadras. Dr. Adam Clarke adopts the opinion that it is properly the first chapter of the following book of Joshua. (Clarke's Bible, Alexander's Heb. and Eng. Pentateuch). This opinion seems probable, as the Pentateuch in some synagogue copies is written as one continuous whole. However the assertion in verse 10, that 'there arose not a prophet since in Israel like unto Moses,' indicates a longer subsequent period than that from the death of Moses to the death of Joshua; and it must be remarked that the book of Joshua contains an account of the death and commentators to have been not written by Moses, for some the donth of Joshua; and it must be remarked that the book of Joshua contains an account of the death and burial of Joshua (xxiv. xxix. xxx). The first book of samuel also gives an account of the death and burial of 1). Calmet suggests that the parts of the ronomy which are not attributable to Moses

by Dr. Smith.)
DEUTZIA, a genus of deciduous shrubs, inhabiting the North of India, China, and Japan, and nearly allied to Phyladelphus, with whose species they agree in habit, but fir results they differ in having their flowers generally against a is 1). Calmet suggests that the parts of the pronomy which are not attributable to Moses in written by Aaron; but unfortunately for and more panicled, and in the filaments being toothed, and placed on the outside of a cup-shaped disk.

death and burial of Aaron, as having occurred long before the earliest time at which it is supposed to have been written. (Deut. x. 6.) Some writers have assumed that the whole book was written considerably after the age of Mosc. probably after the return from the captivity of Babilian when the sacred canon was re-collected and arranged. they maintain that the entire plan of the book indicate. they maintain that the entire plan of the book indicated it to be the work, not of Moses, but of another writer, which relates the proceedings of Moses historically in the third person, and occasionally introduces him as speaking at length in the first person. This dramatic style of the antient Jewish historians commences at the sixth verse of the first person. the first chapter whence Moses speaks in the first person to verse 41 of chap, iv. The remaining time verses of this chap. ter, and the beginning of verse 1 of chap. v., are by the writer. Moses is thence represented as speaking until chap. XXVIII in the lat, 9th, and 11th verses of which the writer speaking the words of Moses are continued. In verses 1 and 2 of chap. XXXIII the words of Moses are continued. In verses 1 and 2 of chap. XXXII. the writer speaks, and again in chap. XXXII. verses 1, 7, 9, 10, 14, 16, 22, 24, 25, and 30 in chap. XXXII. verses 44, 45, and 45. speaks, and again in cnap. xxxi., verses 1, 7, 9, 10, 14, 16, 22, 23, 24, 25, and 30; in chap. xxxii., verses 44, 45, and 45; in chap. xxxiii., 1; and finally throughout the xxxivth and concluding chapter. In the translation of the Bible by Dr. Geddes, all the parts consisting of the words of Missinguished by invested common from the real. Dr. Geddes, all the parts consisting of the words of blue are distinguished by inverted commas from the words of the writer by whom they are introduced. Besides an historical repetition from the preceding books of the Print tateuch of the events which passed throughout the forty years from the departure from Egypt, the book contains a complete recapitulation of the moral, ceremonial, a lindicial law exhibited in the preceding books of Exadus judicial law, exhibited in the preceding books of Rxodu. Judicial law, exhibited in the preceding books of Kxoduc Leviticus, and Numbers, with alterations, and some aiditions; as, for instance, that of the law (xxi. 18) which requires the parents of a stubborn son to lead him forth to be stoned to death by his fellow citizens. In repeating the 4th article of the decalogue (v. 12, 15), a difference from Exodus (xx. 8, 11) in the reason assigned for the sangtones. Exodus (xx. 8, 11) in the reason assigned for the sanctification of the Sabbath has occasioned considerable connession of the Sabbath has occasioned considerable controversy on the subject. It is said in Exodus, 'the L. of rested on the seventh day, wherefore he blessed and hallowed the Sabbath day.' In Deuteronomy it is said, 'the Lord brought the Israelites out of Egypt, therefore he commanded them to keep the Sabbath day.' The thirteed first verses of than varied proclaim the blessions manufactured. first verses of chap. xxviii. proclaim the blessings promised to the observers of the law, and the fifty-five following verses recite the curses on the disobedient. The twelve last verses of the xxviith chap, contain the twelve curs which serve to compose the Commination of the Rnglish which serve to compose the Commination of the Rnglish Liturgy. The passages in chap. xviii. 15, 18, 19, 100 considered as prophetical of the Messiah, on the authority of Acts iii. 22, 23; and vii. 37. Chap. xxxii. consists of the last song of Moses, the poetry of which, in the opinion of a very competent judge, Bishop Lowth, is strictly gularly magnificent. Dr. Adam Clarke remarks, that 'very few parts of the Old Testament Scriptures can be read with few parts of the Old Testament Scriptures can be read with greater profit by the genuine Christian than the book. Deuteronomy, which is to be considered as correlative with amendments are proposed by Dr. Kennicott, in his 'St. and the Hebrew Text,' especially in chap. xxxiii. 1-5, 11 adoption of which Dr. Clarke recommends, on account the impossibility of giving a rational meaning to the text. which serve to compose the Commination of the English the impossibility of giving a rational meaning to the term as it now stands. In Wilson's 'Archaeological Dictionar'. article Law, a valuable tabulated exhibition is given of the whole Mosaic Law, in three classes, moral, ceremonial, and political, with the places of references to Exod. Latt Numb, and Deut. Dr. Adam Clarke concludes his commentary on the book with six elaborate chronological table. The 'Biblioth. Brit.,' by Watt, contains a numerous latter 'Biblioth. Brit., by Watt, contains a numerous latter 'Biblioth. Brit.,' by Watt, contains a numerous latter 'Biblioth.' Brit., by Biblioth. Brit., by Bi article Law, a valuable tabulated exhibition is given of the

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nent of 1: (1 - x), we should also say that the latter is ne invelopment of the former. But the latter term is never used, which frequently gives rise to a circumlocutory and sometimes defective mode of description.

DEVENTER, a fortified town in the province of Overyssel, is situated on the right bank of the river Yssel, about forty-six English miles east from Amsterdam. Deventer was fermerly a free imperial city, and a member of the Hansentic league. The town is surrounded by a wall flanked with numerous towers, and defended by a broad deep ditch. The cathedral is a fine Gothic building, with an excellent set of bells. The college contains a wellchosen and extensive library; population 10,500.

DEVEREUX. [Essex.]
DEVICE, an amblem or ensign, formerly borne on shields or embroidered upon banners as a cognizance, contemporary, in the history of heraldry, with coat-armour itself. As early as the twelfth century, King Henry II. caused certain devices to be painted, which had a descriptive reference to his name: the planta-genista, or broomsprig, and a jenet passing between two broom plants, the former of which is engraved upon the Great Seal of his son, Richard I., on either side of the throne. For many succeeding centuries these devices appear to have been confined to the royal use; but from the reign of Richard II., fined to the royal use; but from the reign of Richard II., various houses of the nobility adopted their use. Thomas Mowbray, duke of Norfolk, appeared against Henry, duke of Hereford, in the celebrated just at Coventry, upon a horse whose velvet trappings were embroidered with lions and mulberry trees, intended to typify his name. The devices of greatest notoriety were the white and red roses, by which the contending families of the royal stem are still materially described. metaphorically described. From the close of the fifteenth to the middle of the sixteenth century the frieses, entabla-tures, and stained windows of the more sumptuous habits tions were crowded with devices. The Bourchier and Stafford knots were of this description. Camden, in his Remains, has a section entitled 'Rebus, or Name-Devices: these were probably adopted in imitation of the emblems which, during the Neapolitan wars of the fifteenth century, were painted by the Italian chiefs upon their shields, accompanied by mottoes or quotations descriptive of enterprise, or of the general character of the bearer. S called Impresses, from the Italian word Impress Such were

DEVIL is the English name of the malignant evil being the great spiritual adversary of mankind. He is regarded as the chief of a host of rebellious angels who, before the creation of the world, and after a contest with the obedient angels, headed by the archangel Michael, were expelled from heaven (2 Peter ii., 4; Rev. xii., 7—9; Jude 6.) for the sin of arrogance and insubordination. The etymology of the word is variously given by different lexicographers. Dr. Johnson, supposing its derivation to be from & & Bohoc (diabolus), considers divel the more correct mode of spelling. Others assert devil to be a mere contraction of the avil, as God from the good. (Lemon's English Etymology.) It is however apparent that, as Christianity was logy.) It is however apparent that, as Unristianity was originally diffused throughout Europe from the church and Greek dissolve prooriginally diffused throughout Europe from the church of Rome, the Latin diabolus and Greek διάβολος produced the Welsh diafol, Saxon biopul and beopl, Gothic diofi, English devil, German teufel, Dutch diapol, French diable, Spanish diablo, and Italian diapolo, as these appellatives are similar not only in form and sound, but in designating the peculiar character of this evil being; and their existence is subsequent to the introduction of Christianity. The simple original signification of διάβολος (διαβάλλων) is adversary, accuser, calumniator, opponent; it therefore serves to translate the Hebrew ψυν

satan, which has precisely the same meaning. (Heb. and Gk. Lexicons of Parkhurst and Pasor.) The name διάβολος is applied to the spirit of evil as being specially the accusing enemy of the human race, who accuses them before God night and day (ὁ κατηγορῶν, &c. Revelation xii. 10). Divines enumerate about thirty different titles appropriated to the devil. The following are some of the principal:-

cipal:—
The god of this world (age, seculum), ὁ θεὸς τοῦ αίῶνος τούτου, 2 Corinth. iv. 4. The prince of this world, ὁ ἀρχων τοῦ κόσμου τούτου, John xii. 31. The prince or power of darkness.

of the power of the air, o dexwy ris standiag row 18. ii. 2. The angel of the bottomless pit, Abadlyon, δ άγγελος τῆς ἀδύσσου, 'Αδαδδών, 'Απολλύων,

Rev. m. 11. The prince of devile, depres vite despective. The great red dragon, old serpent, devil and satan, define μέγας, πυρόδο ὁ διάδολος, ὁ Εατανάς, Rev. xii. 3, 9; and xxii. 2. A murderer from the beginning, a liar, and the father of lying, ἀνθρωποκτόνος ἀπ ἀρχῆς, ψεύστης, καὶ ὁ πατη, αὐτοῦ. The tempter, ὁ πικράζων, Matth. iv. 3.

For explanations of numerous other appellatives, as Beeizebub, Lucifer, Belial, &co., we refer to the various works mentioned in the present article. The statements under the word Devil in Craden's Concordance may serve to represent the doctrine of the church concerning the power and dominion of this being. Man, it is said, since the fall, is under the tyranny and slavery of Satan, who an adversary surprisingly subtle, with strength greatly su-perior to ours; with malice the most deadly, and with acti-vity equal to his malice. He has principalities and powers under his command, and walks about like a roaring hon (1 Peter v. 8) to tempt and betray us, seeking to involve us in sin, and to bring us to ruin and everlasting misery In a work entitled 'The Attributes of Satan,' 8vo., 1819; also 'An Essay on the Existence of the Devil, and his Influence on the Human Mind,' 12mo., 1810, and an Essay 'On the Influence, Power, and swil Agency of Satan,' 8vo. 1899; it is maintained that the same testiment which ever 1822, it is maintained that the same testimony which establishes the existence of God establishes also the existence of the devil, that is, an evil spirit, the enemy of the whole human race, who possesses the power of exciting evil thoughts and actions; and that thoughGed in his wisdom has left his expulsion from heaven in mystery, there is no one point on which the Scriptures are more clear and explicit than this, that the hearts of men are under his dominion. In a subsequent part of this article we shall notice the discrepancy of opinion among Christians as to the reality and personal existence of this evil being.

It is not altogether useless nor uninstructive to trace the history of opinions, however absurd they may be. As to the notions entertained of this evil being, it would be easy to show that in forming their speculations upon his nature. men early abandoned the plain words of Soripture, and by consequence fell into the wildest extravagances and conjectures. The more the knowledge of the original text and the exact study of it declined, the more did superstitious and unfounded notions as to this being obtain credit among mankind. The history of these abaurdities is eften ludicrous enough, but unfortunately the belief in supernatural agency of all kinds forms also one of the darkest chapters in the history of our race. Ignorance, which is the parent of superstition, is also the parent of cruelty and persecution. But as the popular belief in witchcraft is now gradually disappearing before sound knowledge, so the absurd and unscriptural notions of the nature and power of that ext. being whom we call the devil have gradually lost ground since the Bible has been translated into modern languages and become the possession of the humblest reader. Divines too have at last discovered that a critical investigation of the original text of scripture, on this as well as other sub-

the original text of scripture, on this as well as other surjects of revelation, can alone lead to any true results.

An early sect of Christians we are told worshipped the devil. 'The Ophites,' says Tertullian, 'worship the serpent' devil more than Christ, because by him we have the knowledge of good and evil.' Of the conviction entertailed by some of the early Christians of the supernatural power of the devil, we have abundant proof in the accounts.' demoniacal possessions and exorcism recorded in the writings of the fathers. Saints Anthony, Bernard, and Deminic, we are told, had frequent communications with Set and himself. (Butler's Lives of the Saints.) Even Luther relates his personal discussions with the devil, whom compliments as being a very expert logician, with a bad and sonorous voice, 'Diabolus sua argumenta fortiser figure et urgere novit voce gravi et forti. (Lather, de Musu Privata, tom. vi. p. 28.)

The curious work entitled 'Compendio dell' Arte Essorcista, by Girolamo Menghi, 12mo. 1601, gives a history 1 the supposed process of ejecting devils. The subject of the devil's battle with Michael and his expulsion from heaven excited during a long period the subject wits of the schoolmen, in ascertaining when and where it was fought, what time it occupied, what was the num ber of forces arranged on each side, and what was the rank of each commander; questions which at length were determined by dint of logic, proving the battle to have lasted precisely three seconds, &c. (Reginald Scott's Trea-

The but the Schier in Religious of Borth, \$4.1 kin Larine v. Tallyche's a Derraced's Honorody of Augus, and Larine v. Tallyche's a Derraced of Honorody of Augus, and Larine v. Tallyche's a Derraced of Honorody of Augus, and Larine v. Tallyche's and the August and Larine Honorody of August and Larine Honorody and Larine Daming Honorody Supervision of the August and Larine Honorody Larine v. Lar

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art. 'Manicheens'; Dr. Hyde's 'Hist. Relig. Veterum Persarum; Brunet, 'Parallèle des Religions,' 4to., tome i., p. 69 Gebelin's 'Monde Primitif;' Selden 'De Diis Syriis; Mallet, 'North. Antiq.;' Brucker's 'Vedam,' tom. v. and vi.; Bryant's 'Analysis,' vol. iii.; Anquetil du Perron's 'Zendavesta,' 4to., 1771; Maximus Tyrius, dissert. 38, 'On Ser-

pent Worship of Antient India.

To the works incidentally mentioned on the subject of this article may be added—Michael Psellus, 'De Operatione Domonum,' 1615; M. Illyricus, 'Demonstrationes de Essentia Imaginis Dei et Diaboli,' 1569; Peter Viret's 'Nevil let loose,' 1588; 'A Dissertation in Logic, arguing the mentiones and religious and religious for Everil vires. the moral, religious, and political Use of a Devil or Evil Spirit,' 1797-99, by G. Leicester; Dr. Hibbert's 'Philosophy of Apparitions;' art. 'Demon,' in Calmet's Dict.; A Comedy on the Temptation of Christ by Satan in the Desert, 1538, by John Bale, bishop of Ossory; Dissertations by Perkins, Waldegrave, Udall, Andrews, Farmer, &c. on the Combat of Jesus and the Devil in the Wilderness. De Foe's 'History of the Devil' is merely a satisfied and political composition. As pretical fictions on the rical and political composition. As poetical fictions on the subject, see Milton's 'Par. Lost;' Dante's 'Inferno;' Rev. Robert Montgomery's 'Satan.'

DEVIL IN A BUSH, | vulgar names of the genus DEVIL IN A MIST, | Nigella.

DEVIL'S BIT, the yulgar name of Scabiosa succisa.

DEVISE. [WILL.]
DEVISEs, a borough and market town, having separate jurisdiction, locally in the hundred of Potterne and Cannings, in the county of Wilts; 22 miles N.W. by N. from Salsbury, 19 E. by S. from Bath, and 89 W. by S. from

Before the Boundary Act, the borough of Devizes was considered to be coextensive with the parishes of St. John the Baptist and St. Mary the Virgin, including an old disparked park and the site of the antient castle; but since the passing of that act, for the purposes of parliamentary representation, the town extends into the chapelry of St. James and into the parish of St. Rowde, which adjoins that chapelry.

In antient records this place is called Divisse, De Vies, Divisis, &c. The origin of the name seems to be a supposition that this place was divided by the king and the

bishops of Salisbury.

In the reign of Henry I. a spacious and strong fortress was erected here by Roger, the wealthy bishop of Salisbury, which his nephew Nigel, bishop of Ely, garrisoned with troops and prepared to defend until the expected arrival of the Empress Matilda; but Stephen having besieged it, declared that in the event of its not surrendering, he would hang the son of Bishop Roger on a gallows which he had erected in front of the castle. On this being made known to Nigel, he surrendered the fortress, together with all the bishop's treasures, amounting to the sum of 40,000 marks. This castle was afterwards seized by Robert Fitz-Herbert, on pretence of holding it for Matilda, but on her arrival he refused to deliver it up, and was subsequently hanged as a traitor to both parties. About the end of the reign of Edward III. the castle was dismantled, and the site has lately been converted into pleasure-grounds.

It appears from Leland, who calls it 'The Vies,' that in the reign of Henry VIII. Devizes was celebrated for its market. It was besieged by Sir William Waller in the parliamentary war, but just as the royalists were preparing to capitulate, Lord Wilmot, who had been dispatched by the king from Oxford, appeared on Roundaway Hill, with 1500 horse and two pieces of artillery. Sir William withdrew his forces from the town, and immediately attacked Lord Wilmot, but was totally discomfited and obliged to fly to Bristol, having lost a considerable number of men, together with all his cannon, bagage, and ammunition.

The first charter of incorporation was by the Empress Matilda, granting to her burgesses 'De Divisis' freedom of toll throughout all England and the ports of the sea. This charter was successively confirmed by all the Henrys This charter was successively confirmed by all the Henrys and the Edwards. The present governing charters were granted by James I. and Charles I. The corporation have power to hold a Court of Record on Friday for debt or damage not exceeding 40l. The quarter sessions of the county are held here in rotation with Salisbury, Warminster, and Marlborough. Petty sessions are held quarterly mayor, recorder, and justice, or any two of them. returned members to the parliaments of Rd-

ward I., to two of Edward II., and constantly since the 4th of Edward III. The revenue of the corporation is only

434l. per annum.

This town is situated nearly in the centre of the county. on the Kennet canal: it consists of several streets, well particle and lighted with gas, and contains many good house. There are no buildings of any consequence, except town-hall and the churches. The former is a hands me modern building, in the basement of which a cheese-ma: k:

The parishes of St. John and St. Mary the Virgin for a united rectory, in the archdeaconry and diocese of Survey; the net revenue of which is 5181, per annum. John's church is built partly in the Norman style a partly in the later English style of architecture, with square embattled tower, and consists of a nave, tranchancel, and two chantry chapels. The chancel is very handsome, and the tower is supported by two circular .... two pointed arches enriched with foliage and mouldings of different periods. St. Mary's is situated in the normal enstern part of the town. The chancel is supposed to have been built soon after the Conquest, but nearly all the rest of the structure was rebuilt by William Smyth, who do in 1436. There are places of worship for the Society of Friends, Baptists, Independents, Presbyterians, and Weslavan Methodists. leyan Methodists.

The woollen manufacture, once of considerable imperiance, is now extinct. There are at present three manuftories of silk, which afford employment to about persons: the weaving of crape and sarsnet is on the increathere is a large snuff manufactory. The market is of Thursday, and is the largest in the west of England f. corn. A large cross, which is said to have cost nearly 2000 was erected, in 1815, in the market-place by Lord Simouth, for many years member for and recorder of the borough. Fairs are held, on the 4th February for horself the Thursday and April 20th, for cattle; and June 1 the July 5th, and October 2nd and 20th, for cattle, hops, cless Devizes contains 1200 houses, and 6367 inhabitan. At the first election after the passing of the Reform A:

there were 277 registered voters.

A national school was erected at the expense of John Pearse, Esq. There is a charity school called the 'B of Club School,' in which 40 boys are instructed and cloth. for three years, and then apprenticed to various trades. &c. There are also schools on the Lancasterian system and interschools.

Richard of Devizes, a Benedictine monk of the tweifth century, who wrote a chronicle of English history, was a native of this place.

DEVONPORT, formerly called Plymouth Dock, in the parish of Stoke Damerall, hundred of Roborough, and county of Devon, 218 miles west by south from Londin and one mile and a half from Plymouth.

Devoners owners the recent in contents to a name of the state of th

Devonport owes its present importance to a naval arrect established there in the reign of William III., under the name of Plymouth Dock, which name it retained till is a when the appellation of Devonport was conferred on it is royal permission. It was first fortified in the reign ... George II., but the fortifications were considerably enlarged and improved under an act passed in the 21st year of in reign of George III. The government of the town invested in Commissioners, among whom are the lord of the manor, who holds courts leet and baron at Michaelmas the stewards of the manor, the rector of the parish the commissioner of his majesty's dock-yard, the port-admiration the mayor, aldermen, and recorder of the boroughs of P mouth and Saltash, the manorial lords of East Stonehou. and of East and West Anthony; with the stewards of the manors. These commissioners have the superintendence all the affairs of the poor, the lighting, watching and clearing of the town, and the granting of licenses to porters and

Petty sessions are held by the county magistrates excess. Wednesday in the town-hall, for the despatch of business. connected with the town and parish.

Devonport was enfranchised by the 2nd William IV chap. 45, and since the passing of that act returns to members to parliament. The parliamentary borough a cludes, in addition to the town of Devonport, the whole of its parish of Stoke Damerall and the township of Stonehou-At the first election after the passing of the Reform A.

the drawer 1277 person agas(crob. We understaid that the chabotanes of the strongly exercised positioned by the chartes of mercental positioned by the chartes of The property of the standard and legislation of the standard of the standard are used to design the standard of the standard are used to design the standard of the standard are used to design the standard of the standard are used to design the standard of the standard o

velly, in Bideford Bay.

The coast of the English channel, which bounds the county on the south, runs W.S.W. from the neighbourhood of Lyme Regis (in Dorsetshire), 22 miles measured in a di-ect line, to the mouth of the river Ex. This coast is lined with cliffs throughout its whole extent, and is marked by headland, Beer Head, at the western extremity of Seaton Bay. The rivers Axe and Otter enter the sea in the course of this line. From the mouth of the Ex the coast, lined with cliffs, runs S.S.W. six miles to the mouth of the Teign, and from thence five miles south or south by east to the headland called Hope's Nose, at the northern extremity of Tor Bay. Tor Bay is a deep bay bounded on the south by Berry head (distant about five miles from Hope's Nose), having a shelving beach at the bottom of the bay, interrupted by a bluff headland (Round-Tor Bay is memorable as the place in which William prince of Orange, afterwards William III., landed at the Revolution of 1688. Berry head appears to have been the Promontorium Hellenis of the antients (Richard of Cirencester). From Berry head the coast, still possessing the same bluff character, runs S.S.W. five or six miles to the mouth of the Dart, from thence to the Start point, nine miles further; it forms a wide shallow bay (Start bay), lined with a high sandy beach (Slapton sands) that intercepts the flow of the waters which descend from the interior toward the sea, and has formed a lagoon (Slapton Lee) similar to the ctangs of Gascogne or Languedoc. From Start point a high rocky coast runs W.S.W. four miles to Prawle point, the southern extremity of the county, and thence three miles west by north across the wide asstuary of the Kingsbridge river to Bolt Head (430 feet high), and thence four or five miles further in the same direction to Bolt Tail. From Bolt Tail the coast, still for the most part lined with cliffs, runs W.N.W. to the entrance of Plymouth Sound, distant 12 miles in a straight line from Bolt Tail. This interval is partly occupied by the wide and shallow Bigbury bay, into which the rivers Avon or Aune and Erme flow, and by the mouth of the river Yealm. About two or three miles of coast on the west side of Plymouth sound belong to Devonshire. Plymouth sound is three miles wide and extends many miles inward. It receives from the north-west the Tamer (united with the Lynher or St. German's river), upon the estuary of which, called Hamoaze, is the town of Devonport, formerly 'Dock,' the royal dock-yard of which ranks next in importance to that of Portsmouth; and from the north-east the Plym, the asstuary of which is called Cat-water. Mill bay and Sutton pool are small inlets at the bottom of Plymouth sound; the latter is almost encircled by the town of Plymouth. Plymouth sound, with the sestuaries of the streams that run into it, forms one of the finest harbours in Great Britain for extent and safety. It is secured from the heavy swell, which formerly set into it, by a breakwater, nearly a mile long, which extends across the middle of the sound. [PLYMOUTH.]

The Devonshire coast may be estimated at from 155 to 160 miles; 55 to 60 miles on the Bristol channel and about 100 miles on the English channel.

Lundy Island, in the Bristol channel, 10 to 11 miles N.N.W. of Hartland point, is a mass of granite two miles and a half long from north to south and about a mile from east to west. Its area is about 900 to 1100 acres. It is surrounded on every side with rocks; the landing-place, up which two men can scarcely walk abreast, is on the eastern side. The southern point is occupied by a light-house. Rat Island is a rocky detachment from Lundy Island on the south-east or south. The northern part of Lundy Island rises considerably above the level of the sea, the highest part being 200 feet high. Several brooks flow from the higher ground into the sea. Considerable plantations have been formed on the island, but the trees are too exposed to keen north-easterly winds to flourish; in the south part of the island the soil is said to be pretty good. There is an abundance of puffins and rabbits, and the island is much infested with rats. Of the number of inhabitants we have no account: they must be

sents, in several places, very picturesque views, especially about Lymouth, or Lynmouth (the mouth of the river Lynn), on the border towards Somersetshire, and at Clorus, and at Clorus, and the landing place also the ruins of a chapel, dedicated to St. Ann. St. Nicholas Islanding in Plymouth country is in Plymouth country in the landing place. is in Plymouth sound: it is fortified.

is in Plymouth sound: it is fortified.

Surface, Hydrography.—Devonshire is more uniformationally than any other of the large counties of England. The principal ranges of hills may be considered as offsets from the elevated districts of Dartmoor, Exmoor, and Black-down. Dartmoor is a grantic table-land, having a greatest elevation towards the north, and containing the highest ground in Devonshire. Cawsand or Cawsorn in the northern part of the forest, is 1792 feet high: Ripper Tor, four or five miles north of Ashburton, 1549 feet: Butterton hill, in the south part of the forest, 1203 feet: the head of the river Erme I131 feet; and the site of Hamberd or Harford church, also near Butterton, 655 ford or Harford church, also near Butterton, 655 ker. These heights are from the Ordnance Survey, except the

last, which is given on the authority of Dr. Berger.

Dartmoor extends nearly 22 miles from north to seed to (from Belston, near Oakhampton, to the Plymouth road we tween the rivers Erme and Avon or Aune); and 14 universes from east to west, from the neighbourhood of More: : Hampstead to that of Tavistock. This immense wastes thus described by Dr. Berger (Geol. Trans., vol. i., p. 116. From Harford church (near the southern limit of 12.71 moor) the country assumes quite a bare and alpine appears ance, presenting a vast plain, extending beyond the value horizon. The face of the country is formed by swelling. and undulations gradually overtopping each other, w.ti. :
ever forming distinct mountains. There is neither v. 2v.
tion nor any human dwelling; we tread upon a boggy
of very little depth, and scarcely affording sufficient for it
support some dwarf colts as wild as the country they
habit. The area of Dartmoor forest has been estimated. 80,000 (Fraser, Agric. Report) or 100,000 acres. Partithe waste is appropriated by the surrounding parishes. freeholders of which possess the right of common, or as is termed the right of venezille, on these appropriated particles of Dartmoor, to which the name of Dartmoor for (frequently given to the whole waste) strictly applies. survey to contain 53,644 acres. It was on this part that prison was built during the last war for the prisoners of war. The highest part of Dartmoor forest, in which some of the most important rivers of the county (the Taw, the Dart, the Teign, &c.) have their rise, consists of a succession of surasses formed by the decay of the successive crops of aquations. plants, with which this part teems: these morasses are ir some parts 40 to 50 feet deep, in others not more than 5 Is several places there have been land-slips, owing to the overfrequent but for the granite rocks or 'tors' which cont.
ally rise to the surface. Peat is dug in this forest: a :
many sheep pastured there in summer, and some all ...
year round. The elevation of Dartmoor forest causes it have a much lower average temperature than other parts.: the county. The average difference of the temperature at Ilfracombe, on the north coast of the county, and O is hampton, just on the northern border of Dartmon is 10° 5' of Fahrenheit: in summer the difference is small but in winter it rises to 16° or 18°. (Vancouver's Acceptage). Amicombe hill, Okement hill, and others, it elevated parts of Dartmoor. Brent Tor (802 feet, according to Dr. Berger,) and Blackdown, both near Tavistock, but in mon Dartmoor, but are not composed of granite. upon Dartmoor, but are not composed of granite.

Dartmoor has been described as an elevated plan:

descent to the lower country all round is rapid. Wit: exception of Blackdown, there is no eminence near it wl. comes within 800 or 900 feet of its highest point. From 1. moor several ranges of hills, composed chiefly of rocks of transition series, branch off; one from the north-west; of it, near Oakhampton, runs in the direction of Harripoint, dividing the basin of the Tamer from that of the 1 ridge, and sending out branches which separate the ve of the various feeders of the Tamer. This range has no markable elevations: part of it, with one of its branches. wards separates the valley of the Okement, and aftern x: of the Torridge, from that of the Taw, and terminates: the junction of these last two rivers. Another branch rethe junction of these last two rivers. Another branch research for in 1794 there were seven houses and 23 inhants, and in 1822 only two houses beside the resign of the light-house keeper. Their principal business poting rabbits for their skins, and puffins for their feature.

Little Haldon, in this range, near its termination, has at

place of AU has a change which this parget treats of the control o Remain forces and the premises which it services of the south separate the reliefs of the super motors of the Res.

A thord system of hills massive of Riveldown in the enterior pert of the sensor, on the backer of L-monochildre, between Tampton and Hominar and of the ranges of hills which it works of, readly is the antifewart, reportant it is basic of the Other, and those of the Ky or the sole, and the Age on the other, and other from these of the Ky or the sole, and the Age on the other, and other from these of the Ky or the sole, and the Age on the other, and other from the Ky or the sole, and the Age on the other, and allies of Hominar the Miles and the Age of the man Religious of the theory of the Age 
The Colin, recretained above, view in the Black complished past within the Expelse of Sources universe, and flows 11 makes westword in the vellage of Estudies (near therein) is not a south-west to the free of Collimpton of Collimpton, and flow illenters for 70 miles nearly west to a flow into root for Theorem of Theorem of Theorem of the interior and Cortes for the flow of the Forest Court and the flow of the flow of the flow of the flow of the first of the pullage of flow to the flow of the f

The Other pane as the continent slepp of Blackshown, many village of Otherford, and flows south much wast along a village of Otherford, and flows south much wast along a rules, year Houston, Otherty & Many, and Otherford, and a set should five make sweat of the manufact of the fac. It is not harppalisa, and has no tellarized worthy of conto. The transfer to Downlessian, not far from the manufact, and has a rules marke marketweet, west and such evening the first finite. Harning Daymershire, Somewoodshire, and Therefore, the Asymptotic of Boson Asymptotic of Boson 2 or a more than a rules and Asymptotic of Boson 2 or a more than a finite small eventual mixthe south Asymptotic of the market mixthe south Asymptotic of the market mixthe south Asymptotic of the market mixthe south from the hills adjacent in marketown.

Hackborn
The Ayen or Anne, the Krene, and the Yentor species the nonlinear side of Darramet, and flow confewers into the nonlinear side of Darramet, and flow confewers into the new Edward Physical Lead 10 miles none. The Anne and the Yenton bave such a necessary difference of these nodes, the true of two publics. The Physical difference in the Krene, and flows could confewe to the miles of the County of t

The Tamer, which dis. 1 a Cornwall from Devonshire, has been already described. [Convwall.] Its principal Devon-shire feeders are the Deer O miles long, which flows post Holsworthy; the Carey (13 miles long), and the Lyd (13 miles long), which rives on Dartmoor; both these join the Tamer near Launceston; and the Tavy or Tay (26 or 25 miles long), which rives on Dartmoor, and flows past Taylstock. The Tayly joins the tideway of the Tamer, and has itself a tideway of more than three miles. The Lew Water (nine miles long) and the Thistle Brook (10 or 11 miles long) are feeders of the Lyd; and the Wallcomb (13 m les long) is a feeder of the Tayly. There is a picturesque the little of the Lyd; and the Wallcomb (13 m les long) is a feeder of the Tayly. fall in the Lyd, near Lidford, four or five miles from its

The other rivers of the county are too small to require particular notice. It will suffice to mention the Lynn (10 miles long) on the north coast, and the Sid (6 miles long) on the south coast. Salcombe harbour, between Bolt head and Prawle Point, is the assumry of several small streams, to which the maps do not assign a name. This restuary is navigable up to Kingsbridge four miles from the mouth.

Canals.—The Bude and Holsworthy canal, with which is connected the Bude and Launceston canal, enters this

county from Cornwall, near the head of the Tamer, and proceeds in a very circuitous course of more than 154 miles to Thornbury on the river Waldon, one of the feeders of the Torridge, where the canal terminates. It has two inclined planes in Devonshire and two in Cornwall: part of its course is through a tunnel. The chief purposes of this canal are to facilitate the importation of Welsh coal, and to convey shelly sand from the coast to the interior for manure. In Nichols' and Co.'s Map of Canals, one is marked as extending from Torrington along the valley of the Torridge for about four miles, and opening into that river at Wear Giffard, between Torrington and Bideford, where the navigation of the river begins. The Stover or Teigngrace canal is connected with the Teign at Newton Bushel, and extends about four miles up the valley of that river toward Bovey Tracey: it serves for the importation of coal, culm, sea sand, and lime; and the exportation of Bovey coal, pige-clay, and potters' clay. The Tavistock canal extends four miles from Tavistock to the tideway of the Tamer; it has a tunnel one mile and a half long, and a branch two miles long, to Millhill slate-quarries. The Exeter canal has been noticed. Two important canals have been projected, 'the Grand Western Canal' (Acts obtained A.D. 1796, 1811, 1812), Two important canals have been projected, 'the from Taunton in Somersetshire, by the valleys of the Tone, the Culm, and the Clist, to Topsham: with branches to Tiverton and Collumpton; and 'the English and Bristol Channels Ship Canal' (Act obtained A.D. 1825), from Bridge-water Bay to Beer Road in Seaton Bay at the mouth of the Axe, crossing the eastern extremity of Devonshire by the valley of the Axe.

There is a railroad from Dartmoor, near the prison originally built for prisoners of war, to the river Plym near Plymouth: a branch from Catdown and Sutton Pool, close to Plymouth, joins this railroad at its termination on the Plym. The length of the railroad and branch together is about 253 miles. Another railroad, 8 miles long, formed of granite blocks, extends from the Haytor quarries to the Teigngrace canal. Railways have been projected between Bristol and Exeter, passing by Axminster, Taunton, Bridge-water, &c.; and between Exeter and the Southampton railway at Basingstoke, Hants. An act of parliament has been obtained for the former of these.

There are no less than four roads between London and Exeter traversed by the mails. The Devenport, Exeter and Bath mail-road enters this county between Wellington and Collumpton, and passes south-west through Bradninch to Excter, and from thence by Chudleigh, Newton, and Totnes Exeter, and from thence by Chudleigh, Newton, and Totnes to Devonport. The Exeter mail-road enters Devonshire between Chard and Honiton, from which place it runs to Exeter. The Penzance, Falmouth, and Exeter mail-road enters Devonshire between Bridport and Axminster, and proceeds by the latter town and Honiton to Exeter, and from thence by Oakhampton, skirting the north side of Dartmoor, to Poulston Bridge, where it crosses the Tamer into Cornwall. The Falmouth, Devonport, and Exeter mail-

ters the county between Ilminster and Honiton and Exeter, and from thence by Chudleigh and Ashshire between Witchscombe and Bampton, and many South Molton and Barnstagle to Bideford. A roc. Exeter runs by Crediton and Coumieigh to Born :and from thence by one branch to lifracombe, an another to Combe Martin. From this road, at or Cheltion are branches to Tiverton and Bampton and S. Molion on the one hand, and to Oakhampton on the and between Chumleigh and Barnstaple another through off to Bideford, Clovelly, and Hartland. the mail-road from Exeter to Plymouth, there is a r through Moreton Hampstead, and over Dartmoor. Ar ... from Ashburton leads to Tavistock over Dartmoor.

Geological Structure.—A few spots occur in the early in portion of the county and along the coast between smouth and the border of Dorsetshire, which are considered. by outlying portions of the chalk formation. the chalk does not occupy the whole cliff but only the upper portion; the central part of the cliffs is compact of green-sand, and the lower part of the lias; for the chalk and green-sand in their extension westward overlie the formations, which elsewhere are found beneath them and rest immediately upon the lias. Westward of the Ave, where the chalk cliffs reappear, the chalk dips map 1/2/10 wards the west: a portion of the upper part of the chalk has been detached and has subsided toward the beach, the shattered mass of chalk exhibiting a variety of picture sque forms.

The green-sand formation presents on the confines Dorset and Devon many outlying masses forming consider able hills. To this formation belong the flat-topped hills it Blackdown, the range connected with them which segarates the valleys of the Otter and the Axe, and the branches of this range which separate the smaller valleys watered to the tributaries of the Axe (the Yart, the Coly, S.c.) and is the Sid. A range extending westward from the Blackdown hills, and bounding the valley of the Culm on the nor::. also belongs to the green-sand formation: and beyond Exeter the range of the Haldon hills, divided only by the valley of the Teign from the granite of Dartmoor, is cally by green-sand; thus affording a remarkable instance of it approximation of primitive rocks and those of much later formation. The green-sand heights in Devonshire are to the most part in the state of unreclaimed heath. [CRETA CEOUS GROUP.]

On the castern side of the Blackdown and connected ranges, the green-sand rests upon lias, the lowest of the collitic series of formations. Lias occupies the valley of the Axe above Axminster, and the upper part of the valles of the Yart. On the western and southern sides of Park down the green-sand overlies all the colitic formation. rests immediately upon the red marle, which, with the : companying sandstone and conglomerate, constituting formation designated the new red sandstone, occupies tract from the Blackdown hills westward to the valley of the Loman and the Ex: it constitutes the bed of the Logarithm and the Ex: it constitutes the bed of the Logarithm and the Ex: it constitutes the bed of the Logarithm and the Ex: it constitutes the bed of the Logarithm and the Ex: which the same of the Ex, which the same of the Ex, which the same of the Ex, which the same of the Ex and the same of the same of the Ex and the same of the s the most part over a bed of transition rocks. Between S. verton and Exeter the red marle is found extending w ward across the Ex and the Creedy, and along the vallet the Yeo, nearly to the valley of the Taw. It extends ward from the Blackdown hills along the valley of the Oxide and across the country between the Otter and the Extathe coast; crosses the Ex immediately below Exeter, 2: extends along the coast with some interval to Tork. forms the valley of the Sid and the Coly, and the part of the valleys of the Axe and the Yart. The sand which caps the Haldon hills rests chiefly on the mation. Between Exeter and the village of Exminster layers of red and white sand in this formation are sira... intermixed. The conglomerate which belongs to it is ried for building at Heavitree, near Exeter. In the v. . of Exeter, and in other places near the junction on sandstone and transition districts, there is found and loidal trap interposed between the sandstone beds

The district occupied by the various formations encrated above is small, compared with that which cocases the rocks of the transition class. These occups : county northward and westward of the new red same except the primitive district of Dartmoor. The Plymouth and Devonport, and from whence the recent the primitive district of Dartmoor. The except the primitive distric

shale, which is the maje bounded of Datumes does not stated in a money always and winner all more fast, see here a superior that it is not compared to the problems of pose (Log 1 per Sol.). It is the court of the control of the con

saddle with large hooks on each side, in which the sheaves are laid. A horse so loaded looks at a distance like a little moving stack, being almost entirely covered with sheaves.

A considerable quantity of potatoes are raised in Devonshire and sent to London, where they obtain good prices. They were formerly planted in lazy-beds, as in Ireland, but the superior method of single rows moulded up is now very generally adopted. The rich brown loam on a rocky subsoil, which gives a dry sound bottom, especially if it has been for some time in grass, whether pared and burnt, or only ploughed and well worked, produces an abundant crop of very good potatoes. An acre well cultivated and manured will give from 300 to 400 bushels of potatoes for twenty

planted.

Grass land being far more abundant in Devonshire than arable, butter, cheese, and live stock may be considered as the chief agricultural produce for exportation. The finest and richest meadows are situated on the alluvial borders of the principal rivers. These ought never to be ploughed up, although this is sometimes done, especially near the end of a lease, if not prevented by a restrictive clause. When such lands are ploughed, sudden floods sometimes destroy the crops, and carry off the finest particles of the soil: Where the meadows are irrigated they are worth from 2l. to 3l. per acre, and will produce two tons of hay per acre after a production of the per acre and are less are less and are less and are less and are less a meadows are less productive, and require occasional manuring. They will produce from 20 to 30 cwt. of superior hay for horses by being shut up in March. The rent of these is from 30s. to 40s. per acre. The average quality of good upland pastures, whether of old grass or newly laid down, is such as will feed a cow of 9 stone per quarter on two acres for five months, and two sheep per acre for the remaining seven. When the land has been much exhausted by corn crops, the grass seldom continues good beyond the first or second year, when it shows the mischief that has been done by the appearance of poor weak grasses which succeed the clover and rye-grass.

The clouted cream of Devonshire is a well-known delicacy. It is made by heating the milk on the hearth, or by means of a stove, to a degree a little below the boiling point, when the clouted cream rises to the top like a thick scum, and is taken off when cooled. This cream being merely stirred briskly with the hand or a stick, is converted into butter. It is universally admitted that the butter thus produced is inferior to that which is made from the cream which has risen slowly and spontaneously, and in all the largest and best dairies in the vale of Honiton the cream is never clouted, except to be eaten in that state

as a luxury.

The cows used for the dairy are almost exclusively of the breed of the county, and of a red colour. They are hand-somely shaped, and some of them give much good rich milk. In general however they have too great an aptitude to become fat to be good milkers. A good Devonshire cow gives three gallons of milk a day, which will make twenty gives three gallons of milk a day, which will make twenty ounces of butter, for the first twenty weeks after calving: after this the milk gradually decreases, till, at the end of nine months, she goes dry. Thus the average produce per cow of a whole dairy through the year will not be more than half this quantity, even if all the cows are good, which is seldom the case. Cheese is made of skimmed milk, and is consequently inferior in quality. Where porkers are in recovery as near great towns, they are profitably fattened on request, as near great towns, they are profitably fattened on the skim milk, or on the whey, with the addition of meal.

A great many oxen are reared and annually exported from all parts of Devonshire, but chiefly the northern parts. About Barnstaple and South Molton the best breeds are The North Devon oxen are famed for their met with. The North Devon oxen are famed for their docility and activity at work, and especially for their great aptitude to fatten. They are peculiar in form, and easily distinguished from all other breeds. The breed which resembles them most is the Sussex, but the latter are coarser in the limbs and horns, and have not that peculiar colour of the muzzle and round the eyes, which marks the North Devon breed. The cows of the pure North Devon are chiefly kept to breed; for the dairy they are improved by a cross with a short horn. Some very fine cows of a mixed breed may be seen in the neighbourhood of Exeter, and along the whole vale of the Exe, fine in the coat, horn, and bone, and short in the legs. A cow bred from a North Devon by a Yorkshire bull, produced regularly twenty-four quarts of milk per day for five months after

calving, and for several years; but the milk was not quite so rich as that of the pure breed, twelve quarts produces only one pound of butter, while eight quarts of the man of the pure Devon cow made the same quantity.

The sheep fed on the hills and wastes of this county and of a peculiar breed, with fine wool and excellent of the Exmoor sheep are extremely hardy, and well adapted to cold bleak mountains. The wethers at three years when fatted, weigh 12 or 15 bs. per quarter, and the fice of from 4 to 7 bs. In the valleys some remarkably fine shows the proposed as far as well and assess as a second as far as well and assess as a second as far as well and assess as a second as far as well and assess as a second as far as well and assess as a second as far as well and assess as a second as far as well and assess as a second as far as well and as a second as far as well and as a second as a second as far as well and as a second as a s of an improved breed, as far as wool and carcase are concerned, have been produced by crosses of the native showith the Leicester. The wet state of the low meadow is not favourable to the breeding of sheep, although the fatten rapidly on water meadow grass. The higher particularly on the state of the low meadow is not favourable to the breeding of sheep, although the fatten rapidly on water meadow grass. tures are consequently resorted to for breeding flocks, least it requires a hardy race to withstand the wet and c ! winters on the Devonshire hills; for frost is not so hurring to lambs as continued rains. The pasture on Dartman Forest is very good, and the rot is almost unknown there. In order to avoid the danger of the rot, which is prevalent in the lower pastures, the sheep are often left too long exposed to the autumn rains and mists on the hills, and expressible to much of their condition. consequently lose much of their condition.

The following table, taken from the report of the county by Vancouver, may be interesting to the breeders of sheep

NATIVE BREEDS.	Age of wethers, when killed, to months.	Average weight per quarter in lbs.	Average weight of fleece in lbs.	Condition of Pisses.	Comparative value of Flores.	Rough fat in the.	Kidney fat in Iba.	Fotal ignibile fat.
Exmon horned, white legs and face, with a moderately	30	15	7	Youk.	54. 10d	7	s	12
long staple of wool, pure .) Dartmouth, do, do	30	16	9	do.	6.8	Bu	۽ ا	14.
South Devon nott, brown face and legs, long wool,	30	22	10	do	8 4		١	
Bampton nott, white face and blegs, short wool, pure CROSSED BRKEDS.	90 32	29 26	64 8	da. do.	6 6	30	7	1,7
Old Leicester, crossed with )	24	30	10	do.	8 4			1
Bampton Do. with Exmoor	36	24	64	da	5 6	ł	ŀ	
New Leicester, crossed with !	94	18	64	do.	5 0	1	l	1
Exmoor South Devon Bampton	20 20	90 94	84 8	do. do.	7 1	13	ŀ	ļ ,,
Merino, crossed with Exmoor.	"	ļ	•	Washed.	10 0	1		ł

The race of pigs in Devonshire is very good generally; and in some districts, where care has been taken to solve the best animals and cross the breeds with judgment, as fine hogs are fatted as in any part of England.

The extremely prolific nature of the pig makes it an contask to improve the breed by selection and crossing. Avery few years' careful observation will enable any intelligent farmer to keep only the most profitable breeds. In less than a year the result of any cross is known; and when a high twelve months old, and put up to fatten for three months pays amply for his food, the farmer may be contented with the manure for his profit. But some breeds may more than this; and the porkers fed with the offal of a dairy, often give a profit which forms a very important item in the balance of accounts. To prove this it is only necessary to look at the account of the receipts and expenses of a dairy that out of a profit of 881. 4s. 9d., that upon pigs alone is reckoned at 26s., which is almost one-third of the whole.

The land in Devonshire is held in fee or on lease for

Where the owner or lessee on lives grants a lease. the tenant, according to the length of his tenure, may make improvements; but where the chief lessee has an uncertain tenure, and the land is underlet at rack rent from year to year, no improvement can be expected. The practice of letting farms at a nominal rent for three lives, or for a long term, often induces a man without much capital to offer a great price for a lease which he has not the means of making profitable by good cultivation. A lease for fourteen or twenty-one years to a man who possessed an adequare capital, at a full rent, with proper restrictions to secure good cultivation, would be more likely to improve a pro-perty, and in the end would be much more lucrative both to the landlord and the tenant.

The farm buildings in Dovonshire are frequently very

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Divisions, Towns, &c.—In the Exon Domesday\*, mention is made of at least thirty-eight hundreds into which Devonshire was then divided. In the hundred roll, a document of the time of Edward I., thirty-three hundreds (including that of Lovetot, incidentally mentioned as co-ex-tensive with the manor of Fremington) are noticed. The present number is thirty-three. We give these three lists in a tabular form, placing in a line the name of the hun-dreds which are mentioned in more than one of the lists, and of those which, though mentioned by different names, are supposed nearly or quite to coincide.

Modern Name Situation Area

Exon Domes	day.	Hundred I	Roll.		Modern Name, Situation, Area, and Population in 1831.
Alleridge .	•	Harridge .			Hayridge, E. and Central, 44,890
Axemeniustre		Axeministre .		•	acres, 13,444 inhabitants. Axminater, E., 51,930 acres, 13,939 inh.
Axemuda .	•	Axemue	•	•	Axemouth, united with Axeminster: the united hundred was
Badentone .		Baunton	•		formerly called Axminster and Axmouth, now Axminster only. Bampton, N.E., 29,430 acres, 7000 inh.
Brauntone .	•	Braunton	•	•	Braunton, N., 68,830 acres, 21,974 inh.
Budeleie .	•	Buddele	•	•	East Budleigh, S.E., 50,290 acres, 20,266 inh.
Cadelintono .	•		•	•	West Budleigh, Central, 16,890
Carnewille .	•	Haytorr	•	•	acres, 3047 inh. Haytor, S.E., 61,340 acres, 24,143 inh.
Cl.ridiatone .	•	Cridiaton	•	•	Crediton, Central, 34,160 acres, 19,237 inh.
Clawetone . Clistone .	:	Cliston .	:	:	Cliston, Central, 19,260 acres, 3482 inh.
<b>-</b>	•	Colfige	•	•	Coleridge, S., 50,090 acres, 20,339 inh.
Culintone . Dippeforde .	•	Stanburg	:	:	Colyton, E., 27,410 acres, 7374 inh. Stanborough, S., 61,870 acres, 14,521 inh.
Esseministro	•	Exminstre	•	٠	Exminster, S.E., 43,740 acres, 18,232 inh.
Framintone .		Fremington	•	•	Fremington, N.W., 33,350 acres, 8844 inh.
Halbreton or bertone	Has-	Hanberton	•	•	Halberton, N.E., 10,090 acres, 2966 inh.
Hamioke .	•	Hemyok ~	•	•	Hemiock, or Hemyock, E., 26,440 acres, 5807 inh.
Hermetone .	-	Ermyntone	•	•	Ermington, S., 51,610 acres, 10,521 inh.
Herillande .		Hertilande	:	:	Hartland, W., 30,360 acres, 4646 in. Lifton, W., 136,350 acres, 13,447
Liftone .	•	Lifton ,	•	•	Lifton, W., 136,350 acres, 13,447 inh. Lifton includes Dartmoor Forest, which contains 53,900 acres, and had in 1831 353 inh.
Mertone	•	Lovetot Schufbeare	•	•	Shahhaan N W CO con
Mollande .	•	OCHETOANIA	•	•	Shebbear, N.W., 79,200 acres, 20,159 inh.
Offecolum .	-	_ :	:	:	Ξ
Otrie Plintone .	•	Plympton	•	•	Ottery, E., 9470 acres, 3849 inh.
Rueberge .		Rouberg	:	:	Roborough, S.W., 60,170 acres, 96430 inh (with Diamonth)
Scirewelle . Satmoltone .		Syrewell Sudmolton		:	Ottery, E., 9470 acres, 3349 inh. Plympton, S., 32,230 acres, 9817 in. Roborough, S. W., 60,170 acres, 96,430 inh. (with Plymouth.) Sherwell, N., 45,790 acres, 4186 inh. South Molton, N.E., 67,930 acres, 13,895 inh.
Guldadan .					13,825 inh.
Sulferione . Tainbruge .	-	Teynebrugg Tingebrugg	, OL	•	Teignbridge, S.E., 59,230 acres, 14,465 inh.
Taintone .	•	Nortauton	•	:	
<b>-</b>		Tavystoke			North Tawton, Central, including Winkley, 65,300 acres, 13,423 in. Tavistock, S.W., 19,790 acres, 6954
Toritone .		Blaka Torito	u.		inh. Black Torrington, W., 141,600 acres
Tulvertone, or Twertone Walchentone	r	- ·	•	•	19,492 inh. Tiverton, N.E., 23,960 acres, 10,519 inh.
Wenfort .		Womford or	Wo	n-	Wonford, Central and S.E., 98,770
Wetrigge, or	Wit-	Wyrugg, or \	Wyth	e-	acres, 55,661 inh. (with Exeter.) Witheridge, Central and N. E.
rie	•	rugg Wynklegh	•	•	84.680 ucres, 9567 inh
<b>-</b>	•		•	•	Winkleigh, or Winkley, Central, included in the return for North Tawton.
Clawton	e hu	ndred, in	the	1	Exon Doomsday, evidently
took its n	ame	from the v	illa	ge	of Clawton in Black Tor-

rington hundred; Mollande from the village of Molland Botreaux in South Molton hundred; Officcolum from the town of Uffculme, or Ufculm, in Bampton hundred; Sulfertone from the village of Silverton in Hayridge hundred; Taintone either from the village of Drew's Teignton in Wonford hundred, near the upper part of the Teign, and not far from the road from Exeter to Oakhampton, or more probably from King's Teignton in Teignbridge hundred

The 'Exon Domesday' contains a description of the five western county. Wilts, Dorset, Somerset, Devon, and Cornwall; and is supposed to exact transcript of the returns made by the Conqueror's commisting of the general survey from which the great 'Domesday' piled. The original is preserved among the records belonging at Chapter of Exater

and Bishop's Teignton in Exminster hundred, both near the mouth of the Teign and not far from each other; and Walchentone from Walkhampton in Roborough hundied. The situation of Lovetot hundred has been mentioned al-

The county is divided into two parts for the purpose of parliamentary representation: each division sends two members. The divisions comprehend respectively the figure 1. lowing hundreds

Northern Division.—Bampton, Black Torrington, Brasson, Crediton, Fremington, Halberton, Hartland, Hayrid-Hemiock, North Tawton, Shebbear, Sherwell, South Moton, Tiverton, Winkleigh, Witheridge, West Budleigh, Southern Division.—Axminster, Cliston, Coleridge, Coton, East Budleigh, Ermington, Exminster, Haytor, Lifted Ottery, Plympton, Roborough, Stanborough, Taviston, Teignbridge, Wonford (except what is included in the conference)

Devonshire contains forty market-towns. Of the m.important we subjoin a list, adding the locality of each. at the population in 1831. For further information the read.

Ashburton, a parliamentary borough on a small feeder :
the Dart, 4165; Axminster, on the Axe, 2719; Bamp' on the Bathern, or Batham, a feeder of the Ex. 1 a parliamentary borough on the Dart, 4597; Devontor formerly called Plymouth Dock, or colloquially Dock. formerly called Plymouth Dock, or colloquially Dock, the assuary of the Tamer, near Plymouth, a parliament y borough, population given with Plymouth; Exeter, a cit and the county town, on the Ex, 28,201; Honiton, parliamentary borough on the Otter, 3509; Plymouth, Plymouth Sound, a parliamentary borough, and one of it great naval ports of England, pop. including Devonport at Stonehouse, 75,534, Sidmouth, on the English Chain 3126; Stonehouse, between Plymouth and Devonport, cluded in the parliamentary borough of Devonport, population given with Plymouth. [Davonport.] Tavistock a parliamentary borough on the Tavy, 5602; Tiverton, on t. Ex, a parliamentary borough on the Dart, 3442.

Of the remaining towns we shall subjoin an account he giving them in alphabetical order.

Appledore is a port and market-town on the western.

Appledore is a port and market-town on the western : of the river Torridge, just at its junction with the Taw: is in the parish of Northam, and in the hundred of Shee bear, 204 miles west by south of London, through Barrstaple and Bideford. It is a small place, but has a considerable coasting trade. Risdon, who compiled his survey of Devon A.D. 1605-1630, says of Appledore that it is a place, since our fathers' age, meanly inhabited, but the present mustereth many mansions, and may for multitudent with some towns.' A pulcedore has the same and compare with some towns.' Appledore has two week, provision markets, on Wednesday and Saturday, for the convenience of shipping. There is a chapel in the town kept in repair by the church of Windsor, but it has not been used as a place of public worship within memory: the church is at the village of Northam, above a mile from the course. town. The living of Northam is a vicarage, of the year's value of 125*l*., with a glebe-house, in the gift of the dear and chapter of Windsor. The parish contains places of worship for Independents, Baptists, and Wesleyan Methosists. The population of the parish in 1831 was 2727; that of the town of Appledore was not distinguished. The cation returns from this parish in 1833 contain six infa: schools with about 90 scholars; seven day-schools (one a national school of 50 boys and 30 girls, supported by ... endowment and by subscription), containing in all 27, scholars; and three Sunday-schools with above 200 scholars. A parochial lending library is connected with the natural school, and a lending library with one of the Sunday schools.

On the coast, near Appledore, is a sandy tract of al-800 acres, called 'Northam Burrows,' adjoining to which :chesil-bank, near Weymouth. Kinwith, or Kenw near Appledore. Henni Borough, or Henni Castle, a small fortified spot not far from Bideford. has been supposed to be the site of this castle.

South Brent is a small town in the hundred of Stan-

become in the small from Education of Physicallic and on the by which this because were destroyed: the transfer on Averages and Aver

biomunita, on the man from Ensure to Pytmentia, and an increase. Average A from, broaters in a bondy-response roles for the control of the search with a production of the good with the good with the man of E Lioui, was presently as the production of the good with the search with the good with th

estimated by subscription for the relief of the power oflibrary.

Chainbargh, Drombigh, or Chambergh, a prike functival
or Withmaker, on the nestli bank of the Latte Dart, just
above its panetum with the Tow. It is on the road from
E-vater to Barrottable, about twenty-masses bready-twen india
actib-coset from Exister. It has small from The metab
contains 96 to neare her had to 1464 our more than 122
has as fundading a happing and 120 manifolds 124 historically, more than 121 if there amaging in agreeming.
The church, dedicance to Si Mary Magdalen, was meen
damaged by influency to 1772. It contains some actions
where volk. There were, in 1772 playeth at Latverli and
Cathery, both ibaseranch and some remains of clory-le as
Cathery, both ibaseranch and some remains of clory-le as
Cathery, both ibaseranch and some remains of clory-le as
Cathery or Calleton, and oftens, all in the pursin. Then
to one I oscenting place of workup, if not two, in the town
the mann or Canhains of onesh berg, of which there are
no consine. In 1902 a destructive fire broke and in the
town, and destroyed analy itse bases small monarced popositive to the rains of 11,000. The merket is on Frieldy,
but as a corresponded is almost dismost; there are three
mars in the year.

The church was formerly collegate, and has live prebends, which are not necessarily united with the restory
through of late years they have been held by the rector.
The present value of the rectory (so presone without the
probably is 4150 a year. The churation returns of 1551
assign in the parish five day-schools with 110 scholars;
not day and Sandays, who aftend the Ratablashed Church;
and two Sunday-schools with 20 day scholars and 15
abditional on Sandays, who aftend the Ratablashed Church;
and two Sunday-schools are partially codowed, another a maportal by the Independents. The church was neithed and
the road from Tannian to Exister, twelve unless onethcast of Exeter, Collumpton in a town of tobroble nor,
having its main street along the Exister and Tannian ro

450

pally built of flint and covered with thatch. In 1831, there were in the parish, which comprises 5430 acres, 436 inhabited houses and 2182 inhabitants: about two-fifths of

the adult males were engaged in agriculture. The church the adult maies were engaged in agriculture. The church is a fine cruciform structure, in the perpendicular English style: it has been enlarged by subscription in the course of the present century. There is a fine stone screen across the south transept, and an altar tomb of a young lady of the Courtenay family, granddaughter of Edward IV. An adjoining chapel is the burial-place of the family of De la Pole. The upper part of the tower of the church is cotagonal. The vicerage house is an antient structure. De la Pole. The upper part of the tower of the church is octagonal. The vicarage house is an antient structure. There were formerly chapels at Colcombe, Colyford, Whit-ford, Gatcombe, and Leigh, in this parish. There are some valuable lands at Colyton, left for charitable purposes, from which a school for 20 or 25 boys is supported. There are meeting-houses for Independents and Unitarian Presbyterians. The markets are on Thursday and Saturday, and there are two fairs in the year for cattle.

The living of Colyton is a vicarage with the chapelries of Monkton and Shute annexed, worth 4031. per annum with a glebe-house, in the gift of the dean and chapter of Exeter, in whose peculiar jurisdiction it is. According to the return for 1833, there were in Colyton parish eight day schools (including the endowed school), with 198 children and two Sunday-schools (one partly endowed), with 235

scholars.

In the parish of Colyton is Colyford, a considerable village, which is incorporated and governed by a mayor, who receives the profit arising from the tolls of a large cattle fair held annually. Near the town also are Colcombe castle, once the seat of the Courtenays, earls of Devonshire, and of the De la Poles; and Yardbury, the seat of a branch of the Drakes: both are now converted into farm-houses.

Crediton, antiently written Chridiatone, Cridiaton, Crideton, and Kirton, which last is still the colloquial designation, is in the hundred of Crediton, near the junction of the brook Yeo with the river Creedy, a feeder of the Ex, seven or eight miles north-west of Exeter: the Creedy flows a short distance from the town to the east, the Yeo a short distance to the south. The area of the parish is 11,440 acres: it is divided into ten tythings, containing in all in 1831 a population of 5000. The town taining in all, in 1831, a population of 5922. is divided into East town and West town: it is irregularly built; the principal street runs nearly east and west, be-tween two hills, of which that on the south rises with a quick ascent and overtops the houses. The church is a handsome cruciform structure in the later perpendicular style of architecture; it stands in the middle of the town and was probably erected about the close of the fifteenth century. The interior is very neat: the tower rises from the intersection of the nave and aisles, and is supported by four pillars of uncommon magnitude. This church contains a parochial library once consisting of 1000 volumes, but many have been lost, and the rest are becoming a prey to worms and spiders. (Beauties of England and Wales.) There is an antient decayed chapel at the west end of the town, formerly belonging to the hospital of St. Lawrence; and the walls of a chapel at Yew or Yeo, in the parish. The serge manufacture was established in Crediton from the first introduction of it into the county, and was formerly carried on with considerable activity. Vast quantities of wool and yarn wore sold weekly in the market-place; but this branch of industry has declined in Crediton, as it has elsewhere in Devonshire, and the returns of 1831 gave only 5 adult males out of 1836 as engaged in manufactures of any kind: 468 adult males were at the same time engaged in agriculture as occupiers of land or labourers, and 566 in trade or handicrafts. The market, which is on Saturday for corn and provisions, is considerable, but not equal to what it was formerly: the market which precedes the last Wednesday in April is one of the largest marts for bullocks in the west of England. There are three cattle fairs in the year. There are congregations of Presbyterians (who have, like many of the English Presbyterians, embraced Unitarian sentiments), Independents, Baptists, and Methodists. There are two sets of almshouses, each for four poor persons.

There is said to have been a collegiate church at Crediton early in the time of the Saxons, which church, upon the division of the diocese of Sherbourne in the reign of Edward the Elder, was made the cathedral of the bishops of Devonshire, about A.D 905 or 910: about A.D. 1040, the

diocese of Crediton was enlarged by the addition of that of St. German's, which included Cornwall; but in A.D. 10 of the see was removed to Exeter. The palace at Credit continued to be the occasional residence of the bishops. 4... the manor and hundred of Crediton continued to below. them till the reign of Henry VIII, when the bi-1. (Veysey) reluctantly surrendered them to the crown. 1 site of the old church or cathedral, dedicated to St. Greg is now occupied by a range of houses by the side of present churchyard. Although the see was removed: Exeter, the church retained the chapter, which consisted eighteen canons or prebendaries, of whom three bore titles of precentor, treasurer, and dean, and eighteen value. The chapter was dissolved in the reign of Edward VI yearly revenue at the dissolution amounted to 3321. 17. The small tithes, and subsequently the great tithes, of C: twelve governors, nine from Crediton and three from twelve governors, nine from Crediton and three from ford. The governors appoint the vicar of Crediton, whas a yearly stipend of 400% with a parsonage house: it is an assistant minister who has 200%, a year.

Crediton sent representatives to the parliament b. Carlisle in the time of Edward I. The town is governe.

by a portreeve: petty sessions are held here.

There were, in 1833, in Crediton parish, one infant solution. partly supported by subscription, and containing 90 c. dren; an endowed grammar school, containing 20 boys. Lancasterian school, with 200 children, partly endowed partly supported by subscriptions and collections; an dowed school for 15 boys; and nine other schools, coning 285 children; one day and boarding school, with ... scholars; and six Sunday-schools, with 352 children.
Crediton was occupied by the revolters who rose in

west of England A.D. 1549, on account of the Reformation they were driven out by Sir Peter and Sir Gawen Cart The town was repeatedly occupied by the contending 1 a. in the civil war of Charles I. In A.D. 1743 a dreadful broke out in the western town, which occasioned the struction of 460 houses; the damage was estimated a 40,000%, and sixteen lives were lost. In 1769 a second consumed many of the houses rebuilt after the former i. . together with the market-house and shambles.

Culmstock or Columbstock is on the border of Society. shire, in the hundred of Hemyock, on the upper part ... river Culm, nineteen or twenty miles north-east of E The parish comprises 4530 acres or seven square miles, includes several villages and hamlets besides the taw in had, in 1831, 312 inhabited houses and 1519 inhabited of the adult males nearly one half were engaged in . cuture, and nearly one-seventh in manufactures. It is a market-house, 'built,' say Messrs. Lysons (...)

Britannia, vol. vi., p. 151, published 1822), 'not many ago by the dean and chapter of Exeter.' The manufacture much declined, is held on Friday for butcher.'

There are two fairs in the year, at one of which also sometimes sold; but the clothing trade which are the sometimes sold; but the clothing trade which are the sold. sometimes sold; but the clothing trade, which once in rished in this place, has much declined. The chief dedicated to All Saints, is in the centre of the tour ... contains a fine stone screen, with a rich doorway, car. with foliage. There are meeting-houses for Quakers Wesleyan Methodists; and one for Calvinistic Baptisthe village of Prescot, in the parish. The living vicarage, in the gift of the dean and chapter of Exeter, whose peculiar jurisdiction it is: its annual value is with a glebe-house. There were in the parish, in 1833, and day-schools (one of them partly supported by contribute with 144 children; and three Sunday-schools, with near 300 children.

Hatherleigh is in the hundred of Black Torrington the east or right bank of a stream which flows int. Torridge a short distance above the junction of the U. ment: Hatherleigh is twenty-eight miles west-north-word Exeter. The parish comprises 6500 acres, and hat 1831, 290 inhabited houses and a population of 1606 the adult males nearly two-thirds were engaged in agr. ture, and a very few in the manufacture probably of have a very mean appearance. The market is on Tuesand Saturday, and there are four cattle fairs in the saturday and a large cattle market on the Friday nearest the saturday. The town is governed by a portreave, two restables and each of the saturday. stables, and other officers annually chosen at the court len

by the tool of the times, Fair, some, who had been to the times of times of times of times of times of the times of times

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adult males about three-eighths were engaged in agriculture. The town is well situated for business at the convergence of several principal roads, viz.: one from Exeter by Crediton, one from Tiverton, one from Barnstaple, one from Torrington, and one from Chulmleigh: it consists of a spacious market-place and several streets, well paved, with flagged foot-ways, and lighted; the public walks are kept remarkably clean. The guildhall is a convenient building, and the borough gaol, built a few years since, contains six cells (two of them strong cells,) two large day-rooms and a good yard. The church, which is adjacent to the market place, is a handsome building in the perpendicular style of architecture: it has a rich stone pulpit adorned with statues and a profusion of varied carved foliage. There are meeting-houses for Independents and Wesleyans. At Honiton, two miles south-west of the town, is an episcopal chapel, built on the site of a more antient one, and handsomely decorated, and endowed by the Rev. Lewis Southcomb, A. D. 1730; over the altar-piece is a picture of our Saviour baptized by John the Baptist.

The woollen manufacture is carried on at South Molton

to some extent; nearly 70 adult males are engaged in it: serges, shalloons, and felts were formerly made, and (in 1822) coarse woollens for Spain and the East Indies; the lace manufacture has recently been introduced. The mar-kets are on Tuesday and Thursday for butchers' meat, and on Saturday for corn and provisions generally: the Saturday market is considerable, and there are great markets on the Saturday after February 13 and March 25, and before April 23, August 1, October 10, and December 12. There

are two fairs in the year for horses and cattle.

By the Municipal Reform Act the town has a mayor, four aldermen, and twelve councillors. The sessions of the peace are held quarterly, the petty sessions every three weeks, or oftener if required, and the court of record every three weeks.

The living of South Molton is a perpetual curacy in the gift of the dean and chapter of Windsor, who are impropriators of the great tithes which they lease to the corpora-tion; the annual value of the curacy is 1571. The number of schools in the parish in 1833 was as follows: eleven infint (or dame) schools, with about 200 children; seven day, or day and boarding-schools, with above 350 children; and three Sunday-schools, with 640 children. Of the dayschools one is an endowed grammar-school; one (the Bluecoat school, in which most of the children are clothed), is supported by an endowment and contributions; and a third

is supported by contributions.

Moreton Hampstead is in Teignbridge hundred, near the eastern border of Dartmoor Forest, and near the Wadley brook, which flows into the Bovey river, and so into the Teign, twelve miles west by south of Exeter, on one of the roads from that place to Tavistock and Plymouth. The area of the parish is 7370 acres, and it contained in 1831, 383 inhabited houses, and a population of 1864. The town is romantically situated on a gentle eminence bounded on almost every side by high hills. The principal street runs for about half a mile along the Exeter and Plymouth road. There are meeting-houses for Unitarians, Independents, Baptists, and Methodists. Of the adult male population above half are engaged in agriculture: there are no manufactures carried on: that of woollen yarn and serge has become extinct. The market is on Saturday for corn and provisions; the market next before Whitsuntide is a great cattle market: there are two cattle fairs in the year. The town is governed by a portreeve, and other officers chosen annually at the court of the lord of the manor. The townspeople are distinguished by singularity of dialect and manners, owing probably to their secluded situation on the border of Dartmoor. The living is a rectory in the gift of the earl of Devon: annual value 4011, with a glebe-house. There were in the parish in 1833, eight infant schools, with 70 scholars; one day-school, with 33 boys and 6 girls, partly supported by an endowment and an allowance from the parish; six other day-schools, with 69 boys and 42 girls; and three Sunday-schools, with 82 children; one of the

and three Sunday-schools, with 82 children; one of the Sunday-schools has a lending-library attached to it.

Newton Abbot is in the parish of Woolborough, or Wolborough, in the hundred of Haytor; and Newton Bushel, which is adjacent to Newton Abbot, being separated from the by a narrow brook which flows into the Teign, is in Week parish, and in Teignbridge hundred: the two

e considered as forming one town a short distance he south or right bank of the Teign, fifteen miles

south by west of Exeter. The area, population. Sec., of the parishes by the census of 1831 were as follows:—

		Acres.		1	lahabite bouses.		ı	labebitaan	
High Week	. 2140				216			1109	
Woolborough	•	970	٠	•	442	•	•	2194	
Total		3110			658			3303	

Of the adult male population, amounting to 734 person-110 were engaged in agriculture and only 3 in manufacture. There is a market on Wednesday held at Newton Abbut, that on the last Wednesday in February is a great catter market: there are three cattle fairs in Newton Abbut. The principal street of the town runs north-west and south-eafor above half a mile: another principal street runs into this from the south-west, and there are some smaller ones: the houses are indifferently built, and the streets ill paved: the market-place and shambles in the principal street obstruct the thoroughfare. The parish churches are at some dratance from the town: there is a chapel of ease at Newton Bushel, the minister of which is appointed by the incumbent of High Weeks, and another chapel in Newton Abbox. served by the minister of Woolborough. There are meeting-houses for Independents and Calvinistic Baptista There is an alms-house in the parish of Woolborough tart two clergymen's widows, originally for four. The living of High Week is a curacy united with the vicarage of King' High Week is a curacy united with the vicarage of ming-Teignton; the value of the joint livings is 396L, with a glebe-house, in the gift of the prebend of Teignton Remover. or King's Teignton, in Salisbury cathedral. The living of Woolborough is a donative united with the curacy of Newton Abbot, of the annual value of 235L, in the gift of the earl of Devon. In 1833 there were in High Week at .. Woolborough parishes, one national school, containing boys and 64 girls, who were taught daily, and 10 boys and 12 girls additional on Sunday; one endowed day-school for 100 children of both sexes; two boarding and day-achous, with 63 scholars, eight day-schools with above 200 children of both sexes, and one Sunday-school of 33 childre

Oakhampton, or Okehampton, is in Lifton hundred, on the northern border of Dartmoor, at the junction of the East and West Okement rivers, twenty-two miles west of Exeter. on the road to Launceston. The parish comprehends an area of 12,570 acres, and includes, beside the town of Oakhaniton, the villages of Chissacot and Meldon, and the ham. of Kigbear, which extends into Black Torrington hundre: The number of inhabited houses in 1833 was 393, of inhabited bitants 2055: of the adult males about half were engaged in agriculture; none in manufactures. The town lies in a valley, and is surrounded by rich meadows and wooded accivities. The town is irregularly laid out. There is an old clipel in the market-place, dedicated to St. James, original. founded as a chantry, which belongs to the corporation.
divine service is occasionally performed in it. The church is on an eminence some distance west of the town. There are in the parish places of worship for Independents and We-leyan Methodists. Oakhampton Castle, formerly in the Oakhampton Castle, formerly in the possession of the Courtenays, was on a hill within a missouth-west of the town. It was dismantled by order Henry VIII., and is now a mere ruin; the extent of trearea occupied by it, and the solidity of the walls, show it to have been a fortress of importance. Oakhampton b a place of little trade: the market is on Saturday: that next before Christmas is a great cattle market. There are sever fairs in the year; one of them, a holiday fair, called Gigiet Fair,' is held on the Saturday next after Christmas Day. Oakhampton is a municipal, and was, up to the passing of the Reform Act, a parliamentary borough. The bounds of the borough included the whole parish. It sent members to parliament in the reigns of Edward I. and Edward II. but the privilege was lost or disused until the tune of Charles I.; the right of election was in the freeholders or the freemen by servitude and their eldest sons: it was disranchised by the Reform Act. The municipal corporator consisted of a mayor, eight principal and eight assistant burgesses, with other officers. When the commissioners for inquiring into the state of the municipal corporations value 2. Oakhampton, the borough court of record had gone quite into disuse, the borough sessions nearly so, and the grawas in a most wretched state: the chaplainty of St. James chapel had been long vacant, and the grammar-school given

The living of Dakhmantan is a viceopy, of the particle value of rand, within giples beam. There were in the particle value of study with the pattern of the secondary without the study of the particle value of the study of the particle value of the study of the stud

Acres 6				Name and Address
Roof Tournmonth Zent Wood Tournmonth and		6	ō	1676 2876
Total rate				00.00

There are no manufactures varied on, and the proportion of persons employed in agreeoffline to very small. Tonger month, is much frequenced as a balling place, and has prevent an amountain for involute. The much two is compactable; the minde frequenced are much engaged in the Navicondition distance. There are canadicratic beyonds of grants (for the vonversers of which from the Hayton space), the minde has been constituted appearing of grants (for the vonversers of which from the Hayton space), the independent has been constituted appearing the independent of the constituted and the con

they estimate were a National velocity and contained we to be a part of a probability for Royalests under primes Maurice, in the civil were of Charles 1, A.D. 16 08, the cord of Varrack who communited the partismentary fleet, in altempting to refer the town, tatheod down a fart at Topolasis, and killed seventy or eighty men. Topolasis one batterity railed Apolisis or Apolis.

Toveragion relationship of from Little Toyring for and Black Toyrington by the rights Oreall is a managed by rough and machine own in the bundred of Franciscopies.

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about thirty-six miles from Exeter, by Crediton, Chulmleigh, and Cranford Moor. The borough is co-extensive with the parish, which comprehends an area of 3640 acres. The total population in 1831 was 3093. The town is situated on a hill, on the northern or right bank of the Torridge, over which there is a bridge communicating with the little suburb of Taddy Port. The church is in a central situation. Torrington castle stood on the south side of the town, on a steep eminence, overlooking the Torridge; it was built by Richard de Merton, A.B. 1340: its site is now a bowlinggreen.

The principal manufacture carried on in Torrington and the country round is that of gloves; this branch of industry was in 1834 in a very flourishing state. The market is held on Saturday, for corn and butchers' meat; there are three fairs in the year, and a great cattle-market on the third Saturday in March.

The quarter sessions and petty sessions are regularly held: the court of record has gone into disuse. The new act as signs to Torrington four aldermen and twelve councillors.

The living of Torrington is a vicarage, united with the perpetual cursey of the neighbouring parish of St. Giles in the Wood: their joint yearly value is 1621.: they are in the gift of Christ Church College, Oxford. There were in 1822 places of worship for Presbyterians, Wesleyans, and Baptists. (Lysons.)

The number of schools in 1833 was as follows:infant schools, with 112 children; seven day schools (one partly endowed, and one partly supported by subscription), with 322 children; and three Sunday schools, with 383 children. There are two sets of almshouses, one for six poor persons, unendowed; another for eight poor persons, with an endowment.

In February, 1646, the Royalists under Lord Hopton were attacked at Torrington by the Parliamentary forces under Fairfax, and entirely defeated. This defeat was the deathblow to the Royalist cause in the west. Torrington gives

the title of Viscount to the family of Byng.

Uffculm, or Uffculme, is in Bampton hundred, on the right or north-west bank of the river Culm, a feeder of the Ex, about sixteen or seventeen miles north-north-east from Exeter. The parish comprehends an area of 5920 acres, and had, in 1831, 416 inhabited houses and 2082 inhabitants; of the adult male population nearly half were engaged in agri-culture. Uffculm was in the middle, and even towards the close of the last century, a considerable manufacturing town; a great quantity of serge was made and exported to Holland by the Tiverton merchants. Flannels were afterwards made, but at present the manufactures have ceased. The market is on Wednesday, and there are three fairs in the year, but the fairs have all declined. The church, dedicated to St. Mary, contains some antient monuments and a rich wood screen. There are places of worship for Independents and particular The living at Uffculm is a vicarage, of the yearly value of 3501.; the rectory forms the corps of a prebend in Salisbury Cathedral; the prebendary is the patron of the vicarage. There were at Uffculm in 1833 nine day-schools and one evening-school with 144 children, and three sundayschools with 253 scholars. One of the day-schools is a grammar school, with an endowment worth from 70% to 80%. n year, but it contained in 1833 only two scholars.

Boside the above market-towns, there are a few other places in Devenshire which are entitled to a brief notice.

Combe Marten is in Braunton hundred, on the north coast, about five miles east of Ilfracombe. It had in 1831 a population of 1031 inhabitants. It was formerly known for he growth of excellent hemp and the manufacture of shoemaker's thread, but these branches of industry have been given up. The trade of the place is inconsiderable. Welsh coal is imported, and corn and bark are exported: lime is burnt in considerable quantity. The market has been long discontinued: the living is a rectory, of the yearly value of 3871., with a glebe house. The Wesleyans have a place of worship here.

Hartland is an extensive parish in Hartland hundred: it contains several villages. The church is in the village of Stoke, and the market was held in that of Harton. market-house is standing, but no weekly market has been held for half a century. There is a great market or fair held for half a century. There is a great market or fair for cattle on the second Saturday in March, and two cattle firm in the year. At Hartland Pier, near Hartland Point,

exported, and coal and limestone imported. The Hartland is a perpetual curacy in the gift of the s of the Charter-house in London; it is worth 97% a

year. It is said there were formerly eleven chapels in the parish. The Independents have a meeting-house. Hartland Abbey was founded by the wife of earl Goodwin for secular priests; but in the time of Henry II. these seculars were changed into an abbot and convent of Black of Augustinian canons. The revenues of this house at the d. solution were 3061. 13s. 2d. according to Speed, state 3064. 34. 2d. according to Dugdale. Some portion of tra-cloisters of the abbey remain; they are in the early English style. The population of the parish in 1831 was 214.3 There were in 1833 seven day-schools, with 179 children.

Bradninch, a borough between Collumpton and Exeter. is in Hayridge hundred. It had in 1831 a population of 1524, more than half of which was agricultural. ket has been disused beyond the memory of those now living. The boundaries of the borough are identical with those of the parish, and include an area of 4320 acres. The town consists principally of one street, extending for above half a mile along the Exeter and Collumpton road; the foopaths are paved. The quarter sessions, petty sessions the foopaths are paved. The suerier sessions, petry sessions (monthly), and court of record are kept up. There is a guildhall with a small gaol under it, which has been lately rebuilt. The church is near the middle of the town, and has a rich screen across the nave and aisles. The living is a perpetual curacy of the yearly value of 182L, with a gleen house in the gift of the Dean and Chapter of Windsor. There is a Baptist meeting-house, with which a Sunday-school is connected. There were in 1933 three day-schools and one boarding-school at Bradninch, containing sixty or eighty children. Beer Alston is in the parish of Beer Ferras or Ferrers, and in the hundred of Roborough; it is between the Tamer and the Tavy. It had no market for many year. but was up to the Reform Act a parliamentary borotte.

[Been Alsron.] Thorncombe, in a detached part of tecounty, included between Dorsetshire and Somersetshire. had formerly a market, which was discontinued about 1' year 1770. The population of the parish, which is large and includes several villages, was, in 1831, 1368. In this parish stood Ford Abbey, to which an abbot and twelve Cisteria. monks were removed a.n. 1141. This abbey at the discourtion was valued at 3811. 10s. 6d. gross yearly income, .-374l. 10s. 6d. clear. There are some remains of the m. nastic buildings: the chapel has a groined roof (early Ev: lish) and some late Norman arches; the hall and choices are of rich late perpendicular architecture. Silverton ... between the Ex and the Culm, seven miles north of Exct. in Hayridge hundred. There has been no market su-The church, which lies a little back from the prace cipal street, is a handsome edifice in the perpendicular style. The population of the parish in 1831 was 1. Sheepwash or Shipwash is in Shebbear hundred on the north bank of the Torridge, a short distance west by nor of Hatherleigh. The market was considerable in the mouldof the last century, but since the latter end of that centure it has been discontinued. The parish is not large, and h in 1831 only 446 inhabitants. Exmouth, the situation which is indicated by its name, is a place much resorted to as a bathing-place. It is in East Budleigh hundred, at a about eight miles south of Exeter. The population of the joint parishes of Littleham and Exmouth in 1831 was 318%. Exmouth was in the reign of King John one of the princip-ports of the county, and in 1347 it furnished 10 ships and 193 mariners for the expedition against Calais. In the civil war of Charles I. Exmouth fort was garrisoned for the King, but taken by the Parliamentarians. There is a mational school, for which Lord Rolle built a school-room, and to which Lady Rolle bequeathed an endowment. Dawlist. between the mouths of the Ex and the Teign, is also toquented as a bathing-place. It is in Exminster hundred and had in 1831 a population of 3151. Torquay, also a fushionable watering-place, is on the north side of Torking in the parish of Tor Mohun, or Moham in Haytor hundred Tor Mohun parish had in 1831 a population of 3582. A market-house has been built, and there are hotels and is. rooms, terraces, and detached cottages. The inhabitante are engaged in the Newfoundland and home fisheries, and carry on some coasting trade. Paignton, population, in 1-1960, formerly a market-town, is on the west side of Torb. Clovelly, on the north coast, is a village remarkable for inpicturesque situation and appearance. The houses are built on the face of a steep rock. There is a pierat Clovelly. Tenhabitants are engaged in fishing. Population, in 907.

, Though none of the above places (except perhaps Tor

quiera has a nomical curse.

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a hill, and 'moina,' mines. The Cornish Britons named the country, 'Dunan;' the Welsh, 'Deuffneynt,' which evidently contains the same elements as the Saxon, Development of the troubled periods to which the foregoing sketch to nascyre, Devnascyre, or Devenschire. The Welsh, Deuffneynt, is defined by Camden to mean 'deep valleys.'

In the Saxon invasion this county became the scene of contest. Cynegils, king of the West Saxons, is said by the Saxon chronicle to have beaten the Britons at Beamdune, supposed to have been Bampton, A. D. 614. Matthew of Westminster speaks of a battle fought A. D. 633, between Penda, king of Mercia, who had besieged Exeter, and Cadwallo, king of the Britons, but his account is hardly consistent with the history of the time. We find no historical notices of

Devonshire from this period until the invasions of the Danes.

The pressure of the West Saxons gradually constrained the Britons to retire westward. Devonshire was for a long period debateable ground; it was in great part occupied by the Saxons, but there is reason to think that it was not until the reign of Athelstan, who is said to have defeated Howell, king of Cornwall, near Exeter, A. D. 926, that the Britons were finally compelled to retire beyond the Tamer. Their complete expulsion from Devonshire was probably retarded by the incursions of the Danes, who commonly found them ready to unite with them against the Saxons, the objects of their common hostility. In A.D. 876, 877, the Danes seem to have wintered at Exeter, and were in 877 besieged by Alfred, who compelled them to make peace, and to give hostages for the observance of it. In A.D. 878, when Alfred had been compelled by a Danish invasion to conceal himself, Ubbo or Hubba, one of the sons of Ragnar Lodbrog and one of the chiefs of the invaders, landed in the north of Devon, and blockaded Kynwith castle, near Appledore. Odun (who is styled earl of Devon,) who occupied the castle, made a vigorous sally just about daybreak, slew Ubbo and nearly 1000 of his men, and captured the magical standard of the Danes, woven by the sisters of Ubbo, and worked with the figure of a raven. In A. D. 894 the Danes were again in Devonshire; those of them whom Aifred had settled in East Anglia and Northumbria, induced by Hastings, who was then infesting England, took ship, and sailing round the headlands of Kent and along the Channel, besieged Exeter; but on the approach of Alfred's army they fied to their

The great battle of Brunanburh, which has been usually placed in Northumberland, has been by others supposed to have been fought near Axminster in Devonshire. This decisive conflict gave to Athelstan the undisputed possession of England, and a nominal supremacy over Wales and Scotland. Axminster is supposed to have derived its present name from a college of priests founded here by Athelstan, to pray for the souls of those who fell in the conflict, and who were buried in the cemetery of Axminster: there were

five kings and eight earls among them.

In A. D. 997 the Danes came up the Tamer, ravaged the country up to Lidford, and burnt Tavistock Abbey: in A.D. 1001 they landed at Exmouth and besieged Exeter, but in vain: they however defeated the king's army, and burnt several villages. In A. D. 1003 they again besieged Exeter, took it through the treachery or negligence of the governor,

and nearly destroyed it.

When William of Normandy attacked England, his second campaign was in the west. Exeter yielded on his approach. In the next two years, when the Saxons of the neighbourhood rose in revolt, or rather renewed the struggle for independence, under the sons of Harold, who had fallen at Hastings, the citizens refused to admit them. William sent some troops to relieve the city, and the

Saxons were defeated with great slaughter.

The coasts of Devonshire were, about this time, laid waste by the Irish, and the civil broils which arose during the next hundred years between the children and descendants of the Conqueror rendered Devonshire the scene of contest The succeeding centuries are marked by few historical events, except occasional attacks by the French on the towns on the coast, and some contests of inferior moment during the wars of the Roses. The nobility of the county were divided between the rival houses; the Courtenays, earls of Devon, were Lancasterians, and three brothers who successively enjoyed the title, fell in the field or died on the scaffold.

In the rebellion of the Cornish men under Lord Audley and Flammock [CORNWALL], and in the rebellion under kin Warbock, Exeter was the object of attack, but in cases the attack failed. The last siege was raised by tenay, earl of Devon, attended by several Devonshire

refers, Devonshire contains several memorials in the baromas castles, the ruins of which are still in existence. At Exeter. Plympton, Oakhampton, and Tiverton were castles, all 11 which belongd to the Courtenays. [EXETER; TIVERTON.]
Some of the walls of the keep of Plympton casale yet remainant some scanty ruins of that of Oakhampton. But you Pomeroy castle, near Totness, is an antient mansion on tibrow of a steep hill in a well wooded country; it was the seat first of the Pomeroys, afterwards of the Seymours [Berry Pomeroy.] Compton castle near Torbay, and After. castle near Chulmleigh, are still standing and converte-into farm-houses; and there are remains of Gidley castle Hemyock castle, near the upper waters of the Culm; Dartmouth castle; Kingswear castle, near Dartmouth; and Lidford castle, formerly the stannary prison, between T...stock and Oakhampton. Of antient mansion houses, Dairington near Totness, built in the reign of Richard II., almost the end of the fourteenth century, and an old mansion of Bradley near Newton Bushel, built in the fifteenth centure. are among the most remarkable.

When the alteration of the church service took place at the Reformation, A. D. 1549, great disturbances broke out ... Devonshire. They began at Sampford Courtenay, between Oakhampton and Chulmleigh, and gradually assumed a serious aspect, as some of the gentry joined in the revenue of disaffection spread into Cornwall. was besieged by the rebels; and it was not until severa. so. In 1554 Exeter was occupied by Sir Peter and Sr Gawen Carew, who had taken up arms to oppose the comit

of Philip of Spain.

Of the monastic establishments of Devonshire, Tavisto. Benedictine Abbey; Buckland, Buckfastre, Dunkeswall Ford, and Newenham, Cistertian abbeys; Plympton at Hertland, the former a priory and the latter an abbey. Augustinian canons; and Tor abbey for Premonstrateus at canona, were the chief. The ruins of these buildings. inconsiderable: the chapel and other parts of Ford ab on the river Axe; the refectory and abbot's hall and :.. of Tor abbey; and some remains of Buckland, Hertland other establishments are yet standing. There considerable remains of St. Nicholas's priory at Exercithe crypt which has massive Norman arches has been converted into a kitchen. gate-house at Tavistock; part of the conventual chur

In the great civil war of Charles I, the county server generally to have embraced the cause of the parliament Plymouth was seized by the townsmen during the absertion of the governor appointed by the king, and the carianthem was soon after made governor. Exeter was thead-quarters of the earl of Stamford, the parliamenta: general. The defeat of the parliamentarians at Brade. Down, near Liskeard, [Cornwall] early in 1643, rate-the confidence of the royalists, but they suffered some sees. checks in different parts of the country, and the predim-nance of the parliamentarians was restored. The defeated Lord Stamford at Stratton [CORNWALL], 16th May, 16 again turned the current in favour of the royalists, which superiority was confirmed by the arrival and activity of > -John Berkeley, sent with a reinforcement by the king, and the subsequent arrival of Prince Maurice, the king's nepher The royalists besieged Exeter, which the earl of Waru who commanded the fleet for the parliament was unable to relieve. Colonel Digby, a royalist, defeated the parliame, tarians at Torrington; and Barnstaple, Bideford, and a strong fort at Appledore, which were held for the part ment, surrendered. Exeter also was compelled to surrendered. about the same time. Had Prince Maurice marched to P. mouth, he might perhaps have gained possession of that important station, then the greatest trading port in the west of England, but he lost a mouth in besieging Dartmouth, which he took; his troops were diminished by whateness, and the garrison at Plymouth was reinforced. With the town was at last blockaded it was without success. two assaults made in December, 1643, were repulsed; and the siege was for a time abandoned. In the spring of 1644 several fresh attempts were made upon it, but with no better fortune. In 1644 the earl of Essex with his army reaches Devonshire, but no great or decisive event took place, until Essex marched into Cornwall, where his infantry was obliged

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The king, where had followed him thinker. [Consequent, The king, required to from Cortowall, commenced Physicians to correction, and no desperall, commenced Physicians to correction, and no desperall, commenced Physicians was left to carry on the stage. In January, 12 to, 50 Richard make an assault, which was repulsed, and the remarkables of the year was marked by a sense of the states, which may be in no small degree surgical in the microsolates and theoretical of the year was marked by a sense of the microsolates and theoretical of the same's generals. In October, 1615, Sir Thomas Parella, communicate mechanist for the parliament, antered the colority with his army, and in the source of the following entired party of the parliament, and one of the last past held for the king in Davardabin, and was the last past held for the king in Davardabin, and east the last past held for the king in Davardabin, and east the last past held for the hing in Davardabin, and east the last past held for the hing in Davardabin, and east following June.

At the recolation of 1626, the Prince of Orange landed in Tarlay, Nevember 5th; on the 4th he make a public entry into Existe, where he remained for some days before any of the principal people of the county princed him is on the Tital he quitted Exeter on he make the Loradon, A small garyteen under the summand of Sir Edward Seymour was placed in Exeter.

The population of Davardary, at each of the four engineers of the special investors, an engage of the combined French and Spanish there all Plymouth exceed great alarm, and the presence of was were removed to Exette. In 1775, and the presence of was were removed to Exette. In 1775, and the construct was brought as a fullery was brought from Plymouth of the date of Exette. In 1775, as a fuller under the first and but periods of minorary were raised, artiflery was brought from Plymouth for the detector of Exette, and pland in an antique approximant on Woodbary Count, a few miles scattle-exet of Exette and the removal of the alarm in 1899.

The population of Davardary, at each of the four enquirement of 157,240 and 150,761 at 157,240 and 150,761 at 157,240 and 157,240 and 157,540 and 157,54

## Statistical

Pagabilition — Dependence is an agreeditived country to has been been manufactures, but many of its translations are comployed in quarrying states, or in consuming some rather of the valuable numerals if equations. It makes the twenty-fearth on the last of agreeditived country, and in this, respect her remained stationary when IFTL UPINGUS male inhabilities are more distillationary when IFTL UPINGUS male inhabilities would view of upe and inwards, by PSL 17,825 were suggested in agreeditural purchase, 73,711 of whom were inhabited in agreeditural purchase, 73,711 of whom were inhabited only 1,221 octomorphysed in manufactures in in manufacturing maximizery and there were Islands and the supposed in manufactures about 700 were compared in the weetlers manufactures, and were distributed at Assuminer Anti-harrony, Harkinstongia, Gingdood, Californian, North and rounth Motton, and at North Towton, above architic employed and the formation of Proposition of the state of the four employments of Proposition of Decembers, it can be the four employments are in manufactures in the sity of Kartar.

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IROY.	157,240	180,761	249.001	-
1613	179,343	203,750	383,400	1 (175)
Ings	200,223	250,611	4/19,040	34'64
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Physicalic (animerica ) .	9,042	103,011	474 full	4,990	33,080	35,339		240,769	49,491 257,691	70,004 49a,175	10.101

County Expenses, Crime, &c.—The sums expended for | tried at quarter-sessions in each of the years 1831, 1832, the relief of the poor at the four dates of

		£.		8.	d.	
1801	were	124,022,	which was	7	2 for each	inhabitant.
1811		217,757	,,	11	4	**
1821	•	207,686	**	9	5	 11
1831	,,	233,074	"	9	0	"

The sum expended for the same purpose in the year ending March 25, 1836, was 172,405l. 16s.; and assuming that the population had increased at the same rate of percentage since 1831 as in the ten years preceding that period, the above sum gives an average of 6s. 5½d. for each inhabitant. These averages are below those for the whole of England and Wales.

The sum raised in Devonshire for poor's rate, countyrate, and other local purposes, in the year ending the 25th of March, 1833, was 260,3201. 10s., and was levied upon .the various descriptions of property as follows:-

			260,320	10
Manorial profits,	nav	igation, &c.	3,800	0
Mills, factories, &			5,404	2
Dwelling-houses		•	60,408	17
On land .	•	•	190,707	11
			£.	8.

The amount expended was:—

For the relief of the poor In suits of law, removal of For other purposes.	paupers,	&c.	£. 226,891 8,030 28,518		
			263,440	12	

In the returns made up for the subsequent years, the descriptions of property assessed for local purposes are not distinguished: 250,270l. 4s., 231,766l. 6s., and 212,691l. 2s. were raised in the years 1834, 1835, and 1836 respectively, and the expenditure of each year was as follows:-

	1834.	1835.	18 <b>36.</b>
	£. 1.	£. s.	£. 1.
For the relief of the poor	210,825 8	189,917 3	172,405 16
In suits of law, removals, &c		6,251 2	6,108 2
Payment for or towards the county		ſ 15,198 12	15,149 9
For all other purposes		18,051 11	16,390 4
Total money expended	244,871 16	229,408 8	210,053 11

The saving effected in the whole sum expended in 1836, as compared with the expenditure of 1834, is therefore rather more than 15 per cent.; but the saving on the sum expended for the relief of the poor is about 184 per cent. in 1836, as compared with the expenditure of 1834.

The number of turnpike trusts in Devonshire is 28, as ascertained in 1834; the number of miles of road under their charge was 782; the annual income of that year, arising from the tolls and parish composition, 61,374l. 12s. 11d., and the annual expenditure 61,786l. 17s. 1d.

The county expenditure in 1834, exclusive of that for the relief for the poor, was 14,7331. 14s. 11d., disbursed as follows:-

	£.	8.	. d.
Bridges, buildings, and repairs, &c	2,851	2	5
Gaols, houses of correction, &c., and maintaining prisoners, &c.	4,720	15	4
Shire halls and courts of justice—} building, repairing, &c.	265	5	1
Lunatic asylums	181	19	6
Prosecutions	3,517	17	5
Clerk of the peace	682	2	7
Conveyance of prisoners before trial.	819	15	5
,, of transports .	210	16	6
Vagrants—apprehending and con-	147	10	0
Constables—high and special .	16	8	10
Coroner	459	16	11
Miscellaneous	860	4	9

The number of persons charged with criminal offences in the number of persons charged with criminal onences in the three septennial periods ending with 1820, 1827, and 1834, were 2347, 2741, and 3106 respectively; making an average of 335 annually in the first period, of 391 in the ond, and of 443 in the third. The number of persons

and 1833, in respect to which any costs were paid out of the county rates, were 230, 258, and 193 respectively. Among the persons charged with offences, there were committed for-

		1631.	1632.	1633
Felonies .		212	245	105
Misdemeanors		18	13	-

The total number of committals in each of the same years was 203, 248, and 194, respectively.

<b>673</b>	1831.	1832.	1813
The number convicted was	144	195	139
" acquitted	71	42	. 29
Discharged by proclamation	35	37	34

In 1835, at the assizes and sessions 518 persons were charged with crimes in Devonahire; of which numbers is were charged with offences against the person, 37 of which were charged with oftences against the person, 37 of which were common assaults; 19 for offences against property, committed with violence; 401 for offences against property, committed without violence; 10 for arson; 1 fr forgery; and 13 for uttering counterfeit coin; 9 for 1: t and prison breaking; and 10 for misdemeanors. Of t: whole number committed, 326 were convicted, and 1: acquitted, or no bill was found. Of those convicted, 2 were transported for life 15 for 14 years and 48 for 7 were acquitted, or no bill was found. Of those convicted, \_9 were transported for life, 15 for 14 years, and 48 for 7 years; 1 was to be imprisoned for 3 years and above 2 years, 2 for 2 years and above 1 year, 31 for one year and above 6 months, and 192 for 6 months or under; 2 were whipped, 4 fined, and 1 discharged on sureties. Of the offenders, 381 were males, and 137 females. Of the whole number of offenders, 193 could read and write, 176 could read only, 122 could neither read nor write, and the degree of 11. 122 could neither read nor write, and the degree of ustruction of 27 could not be ascertained.

The number of persons qualified to vote for the county members of Devonshire is 18,835, being 1 in 26 of the whole population, and 1 in 6 of the male population, 1 years of age and upwards, as taken in 1831. The expension of the last election of county members to parliament were to the inhabitants of the county 1391. 15s. 2d., and we repaid out of the general county rate.

There are five savings-banks in Devonshire. The number of depositors, and amount of deposits on the 20th November. were respectively in-

1838 1834 1335 Number of depositors 26,996 28,521 30,264 31,977 Amount of deposits. £863,290 897,028 947,326 1,001,625

The various sums placed in the savings-banks in 1.4 and 1835 were distributed as follows:-

		_	1834.	1835			
Not exceeding	£20	Depositor 16,968	£106,335	Depositors.	£113.715		
,,	50	7,396	228,941	7,739	240.4.7		
,,,	100	3,543	246,202	3,757	260.5.		
?>	150	1,347	163,072	1,402	169.312		
"	200	680	119,499	738	129.5		
Above	200	330	83,277	354	85,2 5		
Total		30,264	£947.326	31 973	£1.001:		

Education.—The following particulars are obtained in m the parliamentary returns on education made in the sessi

of 1835:—		
Infant Schools . Number of infants from 2 to 7 years	at such schools; ag	Schools, Scholars, T : . . 117 CS
·	Males Females Sex not specified	77 <b>0</b> 838 923
Daily Schools Number of children from 4 to 14 year	at such schools, age	1,772 = 2,5%
•	Males Females Sex not specified	14, 163 19, 596 18, 681
Total of child	Schools ren under daily ins	1,889 52.10 1,889 54.971

Anishmens of the problem of the proposition of the final state of the proposition for the same rate is the state of the population for the manufacture of the population for the same rate in the same before in the same rate in t

	D) = 1 - (-1) + (-1)				No. of Street,			
				Tour.				No.
Francisco Principal	一個は	10 1750 2000	240 240	791 7710 77,102	1 mg 1 mg	1.0	in on	015 000 000 000
Total	a		18	550	THE	-	10	9148

The schools established by Dosenters, metalled in the

Indian Schools				200
Dunty				3)340G
Frankay ve			37 h	17,970
The which equili-				
Infant and oth				ED. HTE

Regardy desirable 2. 128 32 uses

Regardy through the relating schools are included by the more but or daily schools given show. No eclosed as this county appears to be combined to the cladding of permit of the Paramillahest Charris, or or any active religious decommendation at a combinate the regards decision of a atmost errory instance, says and a substance of the combined to a street and the combined are decisionally as the clade of the combined with the form as the combined of the combined to the combined of the comb

Landing life arms of looks are attached to two selection in the majority.

DEW is the majority which, when the services of the point is colore than the atmosphere, is deposited from the re, in the form of naturals gilledge, on the average of his locks to contact with it. Who difference of majority which so is between day and night produces a equation in the parameter of respective which so is between day and the arconaism. The water, when computed from the arconaism of appositing as a repeating is a repeating as a repeating of the outline majority and on the outline majority produces a fifteeness between of and day. When his air contains a little provider than a can return it during the local temperature of the night of them is farmed.

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till and seven neither a actum day is aloned always by the abstract.

In the areas place size is alone very common those clear and color order actions a truck soo followed by many or improvements to be included as at its men the morning daywing there is much have contained dividing the presenting mental according to the action of the posterior mental of according to the extensive placetial on a clear in the posterior which had some extent a clearly right. For one are never with the source of the morning to the interest without the color of the morning to the source of t

Truncially, but of the stunisphere Builder elementaries are favourable, which, as arefular in my experience, they existen are in the country, assessment resum tentery topour of the favourable are sensitive as the formation of the first are sensitive topour in a policiest class increases considerably rising, while the temperature is feature, there is proportion to the first measure of the first, in any small great quantum surjustating the night, must bring to it for temperature to happy, that the matter upon by the manuscript of endown or before it he matter upon by the manuscript and the first phase to the first p

by the instructure value of they, than it the uniquenitys were law.

To the jest plots, Lepture loaned, when the clauresmand stillness of the atmosphere were the same. That pure they was known to between positional and modeles, though the positive quantity of motivates in the sit more laws because in the sit more laws because in the sit more laws because in the father time. In cause, process in the sit more laws because in the father time, in cause, modeles, is the cold of the atmosphere being greater in the latter than in the latter time as the prior part of the region.

With respect in the cause of day different opinions have been amentioned. A county of the father time as the prior part of the negation of the unitative which had been control up during the day by experience being conclusion by the ends of the unitative which had been control for the side of the manufaction manufaction to the Transportant of the manufaction manufactions, in the formation of the layer was any of Euroborate, in which he captures at the florest resource of Lapotorate, in which he captures at the florest resource of the manufaction to the Transportant of the course of the same year My. Not communicated a paper to the florest partly from the low language and the atmosphere had descended, and paying from the low language had been placed.

The solid of also greated the thermometer had been enough on which is the stream and partly from the low language had the control of My. Wilson, the atmosphere had descended and paying from the components of flore days in the stream of the decade of the decad

identific difficulty, for so the transition of a budy from the

state of vapour to the fluid or solid form is always accompanied with an evolution of heat, it might be expected that the surface on which the dew is deposited, and still more that on which the hoar frost is formed, would have its temperature raised, and no cause appears why it should be de-

Dr. Wells, however, after verifying the facts observed, ascertained by numerous observations and experiments, that the cold at the surface, compared with that of the air above, precedes the formation of dew, and often exists without dew being formed; and that bodies become colder than the neighbouring air before they are dewed. The cold therefore which Mr. Wilson and Mr. Six supposed to be the effect of dew was found by Dr. Wells to be the cause of it.

The question then naturally arises, what are the causes

which produce this low temperature of the earth, while the incumbent air is at a higher temperature? This is shown by the experiments and reasoning of Dr. Wells to be caused by the radiation of heat without an equivalent return. The surface of the ground allows a portion of the heat which it receives from the solar rays to escape by radiation when their action is withdrawn: hence its temperature falls; and if the air, holding watery vapour dissolved, rest upon it without much agitation (a circumstance by which, as the constant renewal of warm air imparts heat, the effect would be counteracted), a portion of the vapour will be con-densed on the surface, and if the temperature is still lower, will be congcaled: thus it is that dew and hoar-frost are formed only when the atmosphere is clear, for the clouds return an equivalent portion of radiant heat.

Dew forms in very different quantities on different sub-stances under the same circumstances; thus on metals it is sparingly deposited; on glass it forms abundantly, as it does also on straw, grass, cloth, paper, and other similar substances. Now as the metals radiate heat imperfectly, and the other bodies mentioned in a much greater degree, they become consequently colder than the metals, and hence

condense more vapour into dew.

Animal substances are among those which acquire dew in the greatest quantity; among these Dr. Wells found that swan's down exhibited the greatest degree of cold in general, and was also most easily managed, as it was used while adhering to the skin of the bird. On other occasions wool was employed, and the following statements are the results of Dr. Wells's experiments with respect to the influence which several differences in the situation, mechanical state,

and real nature of bodies have upon the production of dew.

A general fact is, that whatever diminishes the view of the sky, as seen from the exposed body, occasions the quantity of dew which is formed upon it to be less than would have occurred if the exposure to the sky had been com-plete; two parcels of wool, each weighing ten grains, were placed, one on the middle of a board, and the other to the middle of the underside; the two parcels were an inch asunder, and equally exposed to the action of the air: on weighing the two portions, it was always found that the upper portion had acquired most dew, the greatest difference being twenty grains to four grains.

The following is a tabular view of observations with respect to temperature made by Dr. Wells on the evening of the 19th of August, 1813:—

Heat of air 4 feet above	6h. 45m.	7h.	7h.20m.	7h. 40m.	8h. <b>45</b> m.
the grass , wool on a raised		60 <b>¾°</b>	59°	58°	54°
board	53}	541	513	481	441
same	54 <del>}</del>	53	51	471	42 <del>]</del>
raised board , grass plat .	58 53	57 51	55 <del>1</del> 49 <del>1</del>	49	42

Sir Robert Barker and Mr. Williams have both given accounts of the process by which ice is formed in Bengal, while the temperature of the air is above 32°; and its production was attributed, by the former altogether, and by the latter in great measure, to cold produced by evaporation. Dr. Wells's experiments however show not only that the evaporation which occurs is insufficient to account for the effect, but that the cold produced by radiation alone will satisfactorily explain it. On the subject of cold produced he radiation, Dr. Wells makes the following curious states:—'I had often,' he says, 'in the pride of half know-

ledge, smiled at the means frequently employed by gardeners to protect tender plants from cold, as it appeared to me impossible that a thin mat, or any such fluxsy substance, could prevent them from attaining the temperature of the atmosphere, by which alone I thought them liable to be injured. But, when I had learned that bodies on the surface of the earth become during a still and serene night colder than the atmosphere by radiating their heat to the heavens, I perceived immediately a just reason for the practice which I had before deemed useless.' And be forlows up this part of the subject by relating some extremely simple experiments in proof of the efficacy of the practice. and in explanation of the effect by the processes of radiation

and reflexion of heat.

DEWBERRY, a kind of bramble, the Rubus carries of botanists, so named because its black shining fruit is covered over by a fine waxy white secretion resembling devi-It forms the type of one of the sections of the European part of the genus Rubus, the systematic character being digitate leaves, downy or hairy leafstalks or stems, leaflets green on the under side, and calyx standing erect about the

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DEWSBURY a market-town, parish, and township in the West Riding of the county of York, in the wapentakes of Aggbrigg and Morley, and in the liberty and manor of Wakefield. It is 5 miles west of Wakefield, 8 miles southwest of Leeds, 33 south-west of York, and 187 north-west of London. The antient importance of Dewsbury is com-nected more with ecclesiastical than with civil history. In the time of the Saxons it was one of the most extensive parishes in England, and comprised an area of 400 square miles, including the present parishes of Thornhill, Burton, Almondbury, Kirkneaton, Huddersfield, Bradford, Mirfield. and Halifax. Dewsbury was the centre from which Christianity was diffused through this part of the island in Saxon times. The name is supposed by some to have been derived from its first Saxon proprietor; others consider that the success of the preaching of Paulinus, the first archbish. of York, caused the place of his residence to be called Duisborough, God's town. The remains of Saxon tombs are still to be seen in the vicarage garden, near the church Other relics of the same people have also been found, the most remarkable of which exhibits the Saviour in the act of bestowing his benediction. At the east end of the chancel, placed on a cross on the outside of the church, is the following inscription: 'Paulinus hie predicavit et celebravit, a D. 627. This is not the identical Saxon wheel-cross, but a fac-simile of it. The church is the motherchurch of the district, several neighbouring parishes ac-knowledging their original dependence by their prescriptive payments. No appearance of Saxon architecture is presented in the existing edifice, which comprises a nave and aisles; a chancel; an octagonal vestry on the north side; and aisles; a chancel; an octagonal vestry on the house size, aims a tower finished with pinnacles at the west end. The living is a discharged vicarage; it is endowed with 2001. private benefactions, and 2001. royal bounty. Its average gross income is 2381. per annum; it is in the patronage of the crown. There is a second church in the township of Dewabury. which was erected by the parliamentary commissioners in 1827; the dissenting places of worship in the township are, two for Wesleyan Methodists, one for the New Connexion Methodists, one for Primitive Methodists, one for Independent dents, and one for Quakers; there are several other dissenting chapels in the parish.

The public educational establishments at Dewsburn are Wheelwrights' Charity, a school recently erected under a decree of the Court of Chancery at an expense of 500%, for the instruction of 100 boys and 100 girls on the national system; the Dewsbury charity school, containing 100 boys which has an endowment of 100%, per annum (the master's salary is 80% a year); an infants' school; and several dailyschools. The Sunday-schools of Dewsbury are attached in different places of worship, and instruct about 1500 children.

The town is pleasantly situated at the base of a hill rising from the river Calder. It has several good streets, and a lighted with gas. As a place of manufacture it is rising in importance, and its factories furnish large supplies of blankets, woollen cloths, and carpets. Coal is abundant in the neighbourhood; and the water of the Calder has a high reputa-tion for its fulling properties. The commercial facilities of the town are increased by good roads; and the communi-cation by water is, eastward by the Calder navigation, and westward by the Calder and Huddersfield canal. Thus

is one it constant in Wakerbild. Leader, faches, and Hull, and in Hadisandhal to Macchester. Residuality Learness of the Proceeds of the mesh of the remain of the papers of the constant of the papers of the constant of the papers of the constant of the papers disc equipment price in the content of the extent of the extent of the content of the extent of the content of the extent of the content of t

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offensive habits: they are usually seen on flowers, the juices of which afford them nourishment.

The chief characters of the genera contained in the Dexiarize are thrown into a tabular form by M. Macquart, in the following manner:-

Proboscis long. Genus 1. PROSENA. St. Fargeau. Proboscis short.

Body cylindrical.

First posterior cellule of the wings closed.

Second and third joints of the antennæ of equal length.

Genus 2. ZRUXIA. Meigen. Third joint of the antennæ longer than the second. Genus 3. DINERA. Desvoidy.

Pirst posterior cellule of the wings open. • Antennæ not extending to the epistoma.

Genus 4. DEXIA. Meigen.

Antennæ extending to the epistoma.

Legs very long.

Genus 5. Scotiftera. Macquart.

Body tolerably broad, depressed.

Fore part of the head arched (colours brilliant).

Genus 6. RUTILA. Desvoidy.

Fore part of the head flat (colours, black or yellow). Stylet of the antenne naked.

Genus 7. GYMNOSTYLA. Macquart.

Stylet of the antennæ covered with fine hairs. Genus 8. OMALOGASTER. Macquart.

Of the genus Prosena, Macquart describes only two species, one of which inhabits Europe, and the other is from Brazil.

Of the genus Zeuxia but one species is known.

The genus Dinera contains five species, one of which inhabits Brazil, and the others are found in various parts of Europe.

The genus Dexia contains twelve species, almost all of

which are European.

The genus Scotiptera contains two species; they are of considerable size, and inhabit Brazil.

Rutila.—The species of this genus appear to be confined to New Holland: they are generally of large size.

The genus Gymnostyla contains three species, two of which are from Brazil, and the third is from Surinam.

The last genus, Omalogaster, contains four species, all of

which are inhabitants of Europe.

DEXTRINE, a name which has been given, but probably without sufficient cause, to a soluble portion of starch.

[STARCH.]

DEY. The origin of the word dev is uncertain. Some have derived it from the Turkish dail, 'a maternal uncle,' and have supposed that this designation was given to the chiefs of the states of Barbary to express their almost paternal authority in the Ottoman empire, and the high esteem in which they were held by the Porte. The name is at all events of more antient date than the Ottoman dominion in northern Africa, since we find it used as early as the end of the eleventh century as the title of the emissa-ries of the Assassus or Ismaclites. The dignity of dey in the states of Tunes, Tripoh, and Algiers, is not here-diture; on the death of a dev, his successor is chosen from among the highest civil and military authorities, with the concurrence of the Turkish troops stationed in each of the He must be of a certain age and experience, three states and of acknowledged valour: formerly he was also required to be a Turk, and to have performed a pilgrimage to Mecca; but to the rule there have been many exceptions. On the election of a new dey, the multi or high-priest of the state rounds him publicly of the duties of the office; and the sultim rocognoses his election by sending him a robe of honour and cance the beginning of the last century) by conforting the title of pushe upon him. Properly, the deys are the mile of the Porte; but greater privileges are conceded to than than to the governors of any other external province of the Ottoman empire, and in their conduct towards the Parts they have shown so much independence, that their allegation is almost nominal. In hterman state the dominton of each dey is perfectly free from any control on the part of the Porte. He is elected to the but the Porte pretends to reserve to itself the right

the furnity bits if he does not give satisfaction. In his institution the day is assisted by a diwan, or privy 1, but he frequently sets the advice of that body at .m. mill rides with despette power. In the choice of a

new dey much depends on the inclination of the army; a the election is seldom accomplished without bloods be 1 The troops are the principal supporters of the dey; an: 'they are not paid punctually, or if any measure of the vernment gives them offence, they revolt, and the doften loses both his throne and his life.

At Tunis we hear of an elective dey since about the year 1574, when Khâlif was invested with that dignity. Tripcame into the possession of the Turks about 1551. It was till the end of the sixteenth century governed by pashes of lieutenants appointed by the Porte: from the year 160. line of elective devs commenced, the first of whom was M . hammed Beg, a Greek renegado. Algiers was subject: the Ottomans from 1516, and it continued to be governably pashas sent from Constantinople till 1625. In the latter year a revolution ensued, which terminated, in 1628 in tirecognition by the Porte of the first elected dey of Algar-Haji Mohammed Aga. An officer appointed by the Po-and bearing the title of pasha, continued to be sent by grand seignior, in order to keep a watchful eye on the proceedings of the dey: but this system gave rise to constant jealousies between the two chiefs, and from 1710 both pointments became united, inasmuch as the Porte grant. the rank of pasha to the dey himself, thus renouncing evers right of interfering with the internal policy of the state. A

similar arrangement was about the same time made in state of Tripoli. [Algiers, Tripoli, Tunis.]

DHALAC or DAHALAC, an island in the Red Scituate in 15° 53′ 50″ N. lat., and 40° 40′ 30″ E. long. extent from north-west to south-east is about thirty-five and its breadth eighteen miles. It is the largest island .. the Red Sea. It is low, and its surface level, being form of coralline rocks covered with sand, but destitute of herbage during the summer heat, except a small quantof bent-grass just sufficient to feed the few antelopes at goats that are on the island. In many places there; large plantations of acacia trees, but they seldom atta above eight feet in height. There are no springs, and train water is preserved in cisterns. Bruce says there we 370 of them; Salt heard of 316, but it seems that it number is much smaller, though considerable, more that 120 having been seen by the officers of the Benarcs, dut. their late survey of the Red Sea. There are also stanks. This island contains two harbours for small vessel. Dhalac el Kibeer and Dobelow. No kind of agriculture carried on. According to Bruce, one-half of the male; pulation of the island are always employed in work on opposite shores of Arabia, and by their labour furnish the families with dhurra and other provisions; when the same sexpired they are relieved by the other half. The are good scamen and fishermen. Very elegant baskets and of the leaves of the doum-tree, and sent to L. I. and Jidda. The island contains twelve villages, of for 50 to 100 houses each. (Bruce; Lord Valentia; Welst in the London Geogr. Journal, vol. v.)

DHAR, an antient and formerly a very extensive in the province of Malwa, in 22° 35' N. lat., and 75° 2; Flong. It covers a space three-quarters of a mile long. half a mile broad, the whole surrounded by a mud thirty feet high, fortified with towers at intervals, pettah or fort is detached from the city and stands. rising ground. Dhar at one period covered a much great extent of ground, and contained at least 20,000 houses: 1820 they did not amount to one-fourth that number. the town has somewhat increased since that time. The district in possession of the Dhar rajah comprehends all 400 square miles, and contains 179 villages, and about 40. inhabitants. When the English entered upon the occur a of Malwa in 1817, the whole revenue of the Dhar rajah, the of Malwa in 1817, the whole revenue of the course of a to a minor, was only 35,000 rupees, but in the course of a to years it was made to exceed 600,000. The most import the soil is capable? yielding every kind of tropical production. A few of k villages are inhabited by Bheels; of the remaining perition ifficent-sixteenths are Hindus, and the other sixteenths.

Mohammedans.

DIABETES, the discharge of a preternatural quan of urine, the chemical composition of which is also example. tially changed. In this disease the urine is not only unusually large in quantity, but it is either altogether destit.

of several of its constituent principles, or it contains the only in very minute proportions, while it acquires a ter ingredient, a quantity of sugar, which imparts to it a sweet

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faire. Mexical writing in party greet who like the integers of the state of the control of the party of the control of the co

bladder is often thickened. It is obvious that these morbid states of the kidneys may be the effects of the disease, and not the causes of it. Next to the kidneys, the organs most commonly found in a state of disease are the mesenteric glands, which are enlarged and hardened. The absorbent glands in general are occasionally enlarged, softened, and more vascular than natural; the thoracic duct is sometimes dilated, and the lungs are constantly found studded with tubercles in all their stages of disease. Though the functions of the stomach, intestines, and liver are so often disordered during life, yet it is comparatively rare that any kind or degree of organic change is discoverable in these organs after death. There is reason to believe that during life the blood is ma morbid state, for when abstracted in the progress of the disease, the crassamentum is found loose, dark, containing a smaller portion of fibrin than natural, and the serum is of a whitish colour; and when examined after death, the blood is found to be more black and more fluid than natural, and to contain a quantity of chyle imperfectly mixed with it.

The true and invariable antecedents of diabetes, or its proper exciting causes, are still involved in obscurity. It has been observed to come on after exposure to several morbid agents, as the long-continued application of cold and moisture, especially after the body had been previously over-heated, implying a sudden check to the perspiration, and a corresponding determination of blood from the skin to the internal organs; exhaustion arising from excessive evacuations, or excessive fatigue, bodily or mental; in short, whatever greatly and suddenly depresses the powers of life: but such causes are applied in all their intensity to the human body many thousands of times for one in which they numan body many thousands of times for one in which they produce a case of diabetes. They can therefore only concur with some other cause to produce the malady. What that proximate cause is, is wholly unknown. It would seem however to be dependent on a constitutional, that is, an organic, conformation of some organ, or some system of organs; for there is decided evidence that it is an hereditated in the conformation of the tary disease. In one instance on record, seven descendants of a diabetic patient died of the malady; and Dr. Prout states that he has observed it to descend from the parent to

the offspring in four instances. Whatever doubt may be raised about the perfect curability of dabetes, there can be none respecting the decided control which a judicious plan of treatment is capable of exerting ever its progress. As the very seat of the disease is unknown, and much more the specific morbid action upon which it depends, it is obvious that no local remedy, applied with a view to produce any specific effect, can be em-

ployed with the least chance of success.

It has been stated that the nutritive fluid, the blood, is in a morbid condition, and the circulation itself is deranged. There are unequal determinations of blood to different parts of the system, in consequence of which some organs are deprived of their due proportion of nutrient matter, and others are oppressed by an overwhelming load of it. One of the most constant results of this change in the quality and distribution of the blood, is the excitement of fever, which, as has been stated, is among the very first of the signs by which the presence of this disease is denoted. General blood-letting is the most efficient remedy we possess in directly altering the constitution and the distribution of the blood, by altering the proportions of its constituent elements, and the degree of stimulus afforded to the heart and the capillary arteries. In the early or acute stage of the disease, when febrile symptoms are present, when there is perhaps severe pain in some organ, attended with a sense of heat, and when the pulse is frequent, full, and sharp, bleeding from the arm to the extent of subduing these symptoms and removing the febrile state, is a most efficient remedy, and highly conducive to the success of other remedies. The quality of the blood is found on examination greatly to improve under the judicious repetition and em-ployment of this remedy, the proportion of fibrin increasing, and even the quantity of urea and of saline ingredients also increasing. Even in a more advanced stage of the disease, when the disordered circulation of the blood is rather local than general, when there is evidence of congestion or in-flammation of the liver, and still more of the kidneys, cupping over the seat of the disease, and repeated according to the persistence of the symptoms, is both a safe and an effectual remedy. But when the pulse is rapid and weak, the emaciation considerable, and the powers of life decidedly

impaired, blood-letting, either general or topical, can accomplish no rational indication, but must co-operate with

the maiady to hasten death.

There are few diseases in which the proper regulation of the diet is of such vital importance. As far as it is possible, by a collection and comparison of the morbid phenomena to judge of the seat of the disease, it would seem to be principally in the digestive and assimilative organs. The stomach is at once irritable and weak. It is in a state of almost constant craving for food, yet its power of digestion is feeble. This is precisely the case in which it is of the last importance to attend strictly both to the quality and the quantity of the aliment. Vegetable matters, more especially sweet and acid vegetables, or those which contain in the greatest and acid vegetables, or those which contain in the greatest proportion the elements of sugar, might well be supposed d priori to be bad, and experience shows that they are in the highest degree deleterious. Cases are on record in which, when the patient was in a fair way of recovery, and even when the disease was altogether suspended, the partaking of such vegetables in moderate quantity at a angle meal has brought back all the symptoms. Animal first should form the main portion of the diet. Books have been written to show that it should constitute the sole diet. but it never can constitute the sole diet, for mortal retion cannot long persist in the exclusive use of it; and if it could, the practice would defeat its own object, and of Il farther weaken the already enfeebled digestive organs. Physiology has demonstrated that life cannot be sustained by one kind of food alone, however nutritious, and that thing is more conducive to the easy performance of the process of digestion than a due mixture of different kinds of aliment. In the present case experience has fully shown that all the curative effect which can be obtained from what is called the animal regimen, is accomplished by mak. .g animal matter the principal part of the diet, and combin re with this a small proportion of the farinaceous vegetables. Animal food need not be taken oftener than twice a day, and of all kinds of animal food, beef-steaks or mutton cbes underdone and plainly cooked are the best. The quantity is second in importance only to the quality. The mean should not be at greater distances than five or six bours apart, and any solid food taken oftener than every three hours, however it may for the moment allay painful sena-tions, operates unfavourably on the progress of the discuss. The best drinks are distilled-water, lime-water, alum-whey. and the Bristol hot-well and Bath waters. The latter especially tend powerfully to assuage the thirst; but moderation in the use of liquids is as indispensable as in that of solute.

and unless the patient resolutely co-operate with the physcian in controlling his inordinate desire for food and dr.z., no plan of treatment that can be devised will succeed.

The bowels, which are generally costive, require to be kept in a lax state; and even a decidedly purgative course, steadily persevered in, has tended, on obvious principles. greatly to lessen the urinary discharge. The best purgatives are rhubarb combined with senna, and the phosphase

of soda; and sulphur forms a very excellent laxative.

Next to the condition of the alimentary canal the state of the skin requires attention, which is often permanear; improved, with a proportionate improvement in all the symptoms of the disease, by the persevering and judicaran employment of the vapour bath, the hot-air bath, the ealphur bath, the vigorous use of the fiesh-brush, and warm thannal elething always in improdicts constant with the flannel clothing, always in immediate contact with the face of the skin.

As a part of the regimen, regular daily vigorous exercing pure air is of great importance.

In addition to all this, numerous medicines have been

employed with a view of acting directly on the sorretain of the urine, as astringents, tonics, and sedatives, some which experience has shown to be possessed of very --siderable power, more especially opium, campbor, amme c a the carbonate of iron, the mineral acids, &c. The judy-was selection and administration of these powerful agents according to the peculiar circumstances of the individual care cording to the peculiar circumstances of the individual case in combination with the general plan of treatment where has been stated, will tend greatly to mitigate the urget symptoms, and to increase the chance of a permanent case DIACAUSTIC. [REFRACTION; OFTICS.]

DIACOPE, a genus of fishes of the section Acantheterygii, and family Percides, and belonging to that section of the family, in which the species have less than section beautiful and an interpretation of the section.

branchiostegous rays, and an interrupted lateral line

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the propertylum, and which it gitted a projecting to hereby.

Many large and beautiful species of this group inhabit the Judica near. These per total of the Marritim, a of a building species, patients of the court of the Marritim, a of a building redical with low languaging to the building redical with boar languaging that which redical with boar languaging that stripes are margined with boar languaging that stripes are margined with black. It is also to the repetite we known to have attained the least of three first and appeareds.

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Of ADE'MA (Zoology): [Comprise, col. vii. p. 2/2.1] DIADUMENIANES, MARCES GPR'LIUS ANTO-NTKUS, was the son of Marcinus, who was proclaimed composed by the solution often the marker of Carcardio, a.c. 217. After the fallor's elevation. Diadamentance, who was then at Autooch, was proclaimed Carcart by the solution and composed by the content of Romes. He was not quite ten years of age, but it said to have been very hands one and graceful in his person. The reign of Marcinus lasted only factors mounths; a military metroctor, excited by Mass., the anatomorals and to Carcardia, who washed to put on the Hayrie her grands on Rassianus, also called Heliogoladus, led to the majorest made prisoner, but killed himself. Diodumentance, who had excepted from Anticoth, was also seized only the principal. Hereby the solution, the p



Takah Manner. Aread was, Capper. Weight Milarake.
TRIAGONAL, a line drawn from corner in current any lime deawn from point to poon or a figure, which is not part of also towardary, posterior at an investment point has in the interpretation of haundary lines.

INTAGONAL STALLE. Equilibrate possible lines ent of interpretations parallels had down upon a substitution of equilibrates parallels had down upon a substitution with the companies, the means of immediately taking off carrons properties at those lines. But the eminiment discussions properties of those lines. But the eminiment discussions properties at the eminiment of the



This perms is affind to decreased but now by the integral of the handredths of units in a scale of open parts. A description of its use will immediately suggest the principle of its any one slightly acquaited with present A first to any large and beautiful species of this genus inhabit the Ludkon seen. Decrease a following a tory beautiful species for the four hundredth of on the hundredth part of the scale of the hundredth of an inch part of the scale of the hundredth of an inch part of the scale of the scale (usually a quarter of an inch). The standard with four longitudinal blue stripes on each olde of the belly; these stripes are marginal with the stripes on each olde of the belly; these stripes are marginal with the stripes are nearly of the construction.

It is about two orders in longith.

$$\begin{array}{lll} a\,b = 1^{\circ}00 & a\,x = 1^{\circ}01 & i\,h = 1^{\circ}20 & m\,x = 1^{\circ}0n \\ a\,x = 1^{\circ}01 & i\,f = 1^{\circ}02 & i\,h = 1^{\circ}22 & q\,n = 1^{\circ}22 \\ a\,d = 1^{\circ}11 & i\,p = 1^{\circ}12 & xy = 1^{\circ}54 & q\,n = 1^{\circ}67 \end{array}$$

a h = 1.00 as = 1.21 hh = 1.20 ms = 1.00 at = 1.01 ff = 1.32 ft = 1.32 qs = 1.37 at = 1.11 fg = 1.12 ft = 1.32 qs = 1.37 at = 1.11 fg = 1.11 fg = 1.12 qs = 1.12 qs = 1.12 ft = 1.11 fg = 1.11 fg = 1.12 qs = 1.12 ft = 1.12 qs = 1.12 ft = 1.12 ft = 1.12 ft = 1.12 qs = 1.12 ft =

Although some of the species are indigenous to Great | Britain, by far the greatest number are natives of the southern parts of Europe; abounding in Germany, Switzerland, Italy, and along the shores of the Mediterranean, Black and Caspian Seas, inhabiting rocks, mountains, and dry warm stony places most frequently, although occasionally living in sandy and damper places. Of our own wild kinds, D. Caryophyllus only occurs upon old crumbling walls, such as those which surround the city of Norwich, others in dry gravelly places or on limestone rocks.

It is therefore obvious that the gardener must pay special attention to this peculiarity, and guard by every means in his power against the access of wet, unless when the plants are in a state of free growth. In the winter, when they are at rest, they bear moisture very impatiently. It is therefore either upon rockwork or in pots housed in winter that the species of Dianthus are best preserved: we remember in-deed to have seen a plant, either *D. deltoideus* or an allied species, growing by a single stem from a cleft in a hard wall near Bristol, where it had been established many years. The soil in which they are planted should consist of equal quantities of good fresh loam and vegetable mould, to which may be added a little horse dung and sand, the whole to be mixed well, and allowed to remain for a season before being used.

All the species may be propagated either by seeds or by the same processes that are employed for the Carnation and Picotee, namely, by layering or piping. Layering is decidedly the surest method, as the young shoot derives support from the parent plant until it has protruded rootlets of its own for nourishment. In this operation, gardeners generally practise a method technically called tonguewhich is simply making a slit with a knife, from a little below the joint, up through its centre, and then carefully pegging the young shoot down as in the common way. Pipings are a sort of cuttings, and will root freely in a melon or cucumber frame, which can often conveniently be applied to this purpose in the end of the season; but as artificial heat is not essential to success, those who have not this convenience may succeed very well with a small

hand-glass.

If the pipings are not in a shaded situation, it is necessary to shade them when the sun's rays are powerful; because the rootlets are for some time insufficient to supply the stem with fluid enough to counteract the effects of evaporation. It is the want of due attention to this which causes the result of propagating the Dianthus by pipings to be considered uncertain: if shade and moisture are supplied for a sufficiently long time, there is little risk of the

proings not forming young plants.

DIAPA'SON, in music (dia, through, and πασῶν, of all). the interval of the octave, so called because it includes all admitted musical sounds. It likewise signifies the compass of any voice or instrument; and the French employ it to

Plan voice of instances, and the Frence employ it to express what in England is meant by the term Concert-Fig. A. (Concert-Fig. A. (Concert-Fig. A.) (Concert-Fig. A.) DIAPENSIAVE E., a very small natural order of monopetalous Exegeaous plants, formerly mixed with Convolvalaceae, but in resulty more nearly allied to Polemo-Only two genera are known; they consist of small depressed half shrubby species, with the habit of a minute-leaved Phlex. Their calvx grows in a broken whorl; the recolla has an imbricated astivation with five lobes, and as many stancers growing from its margin in the sinuses; the authors have a broad connective, and burst transversely. The overs is three celled, with a good many ovules growing upon central placentes. Finally, the embryo lies across the halum, in the midst of fleshy albumen. No use has hather to been made of these plants. (See Lindley's Natural

hetherto been made of these plants. (See Lindley's Industrial System of Indiany, p. 233.)

101A PENTR, in Greek music, the interval of the Fifth.
101APHANOUS. [TRANSPARENT.]

101APHORETICS, or SUDORIFICS, are agents which increase the natural exhalation of the skin, or testion it when suppressed. Nothing better exemplifies the destroy that remedies are only relative agents than this class of modernes, as their power to produce perspira-tions depends invariably upon the state of the patient and the commissioners in which he is placed, such as the tem-position and humdity of the air by which he is sur-commided. Many medicines which cause a flow of perspirathey when the patient is kept warm, will produce, when he I by all the space that intervenes between the fearth rib and

is in a cool temperature, an increased action of the k. !

neys and an augmented secretion of urine.

Their effects as diaphoretics are attempted to be accounded. for by reference to two principles; 1, by increasing it action of the cutaneous vessels; 2, by increasing the vacular action of the whole system. Those diapher: remedies which seem to act according to the first principles. ciple produce their effects either by external applicate of such as the stimulus of heat, especially as proved by tie hot-air bath, or as medicinal substances which enter the circulation and stimulate the cutaneous vessels by contact. such as mercurial preparations, some saline diaphorements and, most markedly, sulphur, which is evidently carried undecomposed to the cutaneous vessels and excreted to them; or, lastly, by acting on the surface sympathetica: through the medium of the stomach, such as warm dru. antimonial preparations, &c.

Those diaphoretic agents which seem to act according :the second principle are:—violent muscular exercise, car

bonate of ammonia, guiacum, alcoholic stimulants, &c.
Diaphoretics are in general used to restore the cutanondischarge when, from the action of cold or wet upon the system, it has been suppressed, and accordingly they are useful in common catarrh, rheumatism, or diarrhora proceeding from cold. They are likewise of great service in fevers, the restoration of the secretion of the skin, if it is warm and gentle, not cold and clammy, often prover critical, and the precursor of recovery. In many cutane diseases diaphoretics are valuable agents, and for this pinpose baths, either the natural warm baths or vapour baths, are used; but in such diseases the perspiration productiby exercise, or during a course of training, is decidedly the best diaphoretic. Some forms of indigestion are related or cured by causing an increased action of the skin is effect which exercise is likewise the best agent.

It is worthy of remark, that the profuse and was: perspirations which accompany the hectic of consumpt: . are frequently more effectually checked by disphored especially the compound incacuan powder, than by at other means. (Young on Consumption.)

DIAPHRAGM (διάφραγμα), sej tum transversum, tween the thorax and abdomen, forming a movable retition between these two great cavities. Its bord which are broad and fleshy, are movable; its central pertion, which is tendinous, is fixed and immovable. W... not in action, its upper surface, or that towards the thera: is convex, presents the appearance of an arch, wh. reaches as high as the fourth rib, and is covered by i. pleura, the membrane which lines the cavity of the thurst Its under surface, or that towards the abdomen, is concare, and is covered by the peritoneum, the membrane with lines the cavity of the abdomen. It is perforated by seven apertures, through which important organs pass from the thorax into the abdomen, and from the abdomen into its thorax. In its tendinous portion, between what is called is crura or legs, there is an oval aperture through which the aorta, or great artery of the trunk, passes from the there. into the abdomen, and the thoracic duct enters from the abdomen into the thorax. A little above this and to the left of it, in the fleshy portion of the disphragm, as at aperture through which the cesophagus passes in its comfrom the mouth to the stomach. On the right side of the diaphragm, in its tendinous portion, is a third aperture through which the inferior vens cave passes from the ab domen to the heart.

The diaphragm is a muscle of extreme complexity in its structure, and, next to the heart, performs the must inportant function of any muscle in the body. Its most important office is connected with the function of respiration, and it is the principal agent both in enlarging the cavity of the thorax in inspiration, and in diminishing it in expiration. These actions it performs by virtue of the power of alternate contraction and relaxation which it posesses in common with all muscles. When in the state or reaches, as has been stated, as high as the fourth re-when in action, as in the state of inspiration, the convexity of when reaches, as has been stated, as high as the fourth re-when in action, as in the state of inspiration, the fibrecomposing the lateral borders contract, whence this meva. partition descends, until, from the form of an arch, it piesents a plane surface, increasing the capacity of the thorax

only be required by the more properly DRV-A'R-BEKR (the context of developer of Rekr), a form in Al-patrick (the context of developer of Rekr), a form in Al-patrick (the common of developer of Rekr), a form the Al-patrick (the common of developer of Rekr), a form the right bank of the layer, the material shout 35 N. Int. and 40 E. Iong, it stands at a short distance from the right bank of the layer, the materiality of considerable; the walls are lofty of an exact that it, and correctly the term row unbubbled by 10,000 femilies, had become remains a unbubbled by 10,000 femilies, had become remains of the fartile plant, for moter to torath, on which it stands, but it for the fartile plant, for index in locatio, or which it stands, but in later to the fartile plant, for moter to locatio, or which it stands, but in later to the fartile plant is to insignification. Still it contains about 1000 conduct to 1000 femilies (1500 are Armentan, 85 Catholie, 70 Greek, 20 June, and \$100 Turkish), and some manufactures of ration, alle, and healther, opposedly moreoco. It is the seat of a laboration of the motern architishop. The Tigris sames by used as a means of transport so high up as Durrick; but rates of timber are sometimes thated down from the normalisms above the hours. It is conjectured that the sames have a femalial stant on the site, or in the against sown of Constantial stant on the site, or in the against sown of Constantial stant on the stantial color, and the stantial color of the stantial color, and the stantial color of the stantial color, and the stantial color of the stantial color

the breast sent to which the dasplosper we expedid of the senting. The force the colorous, the morth inches are required by by the content of the powerful members are required by the the content of the powerful members are required by the the content of the powerful members are required by the more content of the though by all the thorax by the thora

streamy metabolites, operally of cotton goods, and corried on a very active amountere with India, through Haglad and with Europe though Halppo. But the firthly like the firthly like the stands of the firthly like the stands of the firthly like the stands with Europe through Halppo. But the firthly like the stands of the firthly like the body of the invasion of the Kards; the summaries with Baglad is annihilated, and that with Alppo direct to insegnitivened. St. Catable, 7.0 Gerch, and and halper, operands and a standard some manufacturer of rotton, and and make a means of transport as high up as Durbons to used as a means of transport as high up as Durbons to used as a means of transport as high up as Durbons to used as a means of transport as high up as Durbons to used as a means of transport as high up as Durbons to used as a means of transport as high up as Durbons to used as a means of transport as high up as Durbons to used as a means of transport as high up as Durbons of the body and suppressed granging the first of the body and suppressed granging the posterior declarate from the bowels of more liquid stole than manufacturer of fined and driving the standard from the bowels of more liquid stole than manufacturer and as a stricts of the sum of the standard from the bowels of more liquid stole than manufacturer and as a stricts of fined and driving the standard problems that a stricts are the above the times. It is suppertured that he admits a declarate of the body and suppressed paraphratics, the suppressed of the body and suppressed in the nuclear special paraphratics, the suppressed of the body and suppressed in the nuclear special paraphratics, the suppressed of the body and suppressed at the suppressed of the body and suppressed the transport of the body and s

.... Cal. very tenest caution is here and any exposure to a very severe attack of in a the acute into the er contro in acute inflam-. I show to tell maintain

properties, will keep up or re-excite the diarrhora.

The exciting cause of the biliary variety of diarrhora is gares, or con general bardoning, and observation of the

Times, and the consequent wasting of the the of the most common forms of disconnected of infants and children is cut in a second maints and condren is cut the second diseases with which diarrhora in a second which it is important that it should be far more serious malady to the second maintain and the second malady to the second maintain and condrens is cut the second maintain and condrens is and it is distinguished by the absence of fever Though in the evacuations, and by the aband ineffectual desire to eva ments if he bowels which is called tenesmus. It is considered from cholera by the absence of spanial spanial from cholera and distressing in the language with the singular degree or the total absence in the singular degree or the total absence in the choire disease. But the bilities of the cholera frequently commence with the cholera frequent r he preceding forms of diarrhora. Life of i he cleamess and promptitude with we ac frical is and bilious forms of the dis-Lava from the marked difference in the ms vuen the diarrhea is the consequent and the site of the internal surface of the skin is hot, or alternate de julie is more or less excited, and is in the edges and the tip, and that just red.

Lurrich is often a trifling disease, and even nears it ried by nature to prevent the occasion I not seems evils, yet the serous and muse not be not a secondly when they pass into a chrom the tree of the national and fatal maladic ... r n... goment requires great and persevering ca-Description of their neglect, of The stand the remedies being injudicate the standard of diarrhoes in general requirements of the standard of t is sing thement into a highly danger one in the single to detect the exact nature. The exact condition of the exact : 1. de '12 guide to the selection of one . Les if mement, the administration of pos-The ines If the irritation arise f simulating food and drink, slatto effect a cure: but if, notu: ). the five from food, the disease continue, Learning the dether the irritation be kept a definition matters, or whether the state in a preternaturally irritable a state framer, purgative medicine of significant and state of indifference. to means a matter of indifference. er evacuating the contents of the the mucous surface. For the the best medicines; or, it a strong with the best effects the aperient. Will also a strong with the aperient. concerns of the stomach and intestines are researched, one of the best of which consists of two druchs of almond oil with two deachms of mucilage of gum arab. in an ounce of rose or peppermint water, with from five ten drops (according to the severity of the case) of laudanum or half a dram or more of the tincture of hypermines. If the secretions are disordered, five grains of blue pill of of If the secretions are disordered, five grams of blue pill or of hydrargyrum cum creta, with the same quantity of the compound powder of ipecacuanha, taken every night, or every other night, at bed-time, with a tea-spounful of castar oil, containing a few drops of laudanum, the morning fellowing, will soon restore them to a healthy state. Of course the diet should consist only of the mildest alimentary substances: for as long as the alimentary canal continues in stances; for as long as the alimentary canal continues intable, food and drink, even of the ordinary stimulating

after infirmmation of the lives (topolitic). When there is present any indicators of this directivening or head the Sing Sy supplies on the law offset-berning or head the Sing Sy supplies on the law offset branch of the Fing Sy supplies on the law offset branch of the Fing Sy supplies on the law offset branch of the Fing Sy supplies on the law offset branch of the Fing Sy remarkab (that make any or theel from the Rice of remarkab (that make any or the fing and the results) that make a variety of the Rice of remarkab (that make a variety of the Rice of the standard of the supplies of the Sy such that the supplies of the



moderated, and appeal; such the unidate master should be againation at all the same than paying the structure of the original parts of all the paying the structure of the original parts of a form produced to inferior at the original parts of a form produced to inferior at the original parts of a form produced to inferior at the original parts of a form produced to inferior at the original parts of a form produced to inferior at the original parts of the parts of the parts of the major at the form produced and the part of the part of the major at the form produced and the part of the major at the form produced and produced

that the increased discharge of liquid stools from the in-It is commonly testines is the only symptom present. preceded by nausea, and in general more or less uncasines is felt in the stomach and intestines, which sometimes amounts to severe griping pain, often accompanied with flatulence. In severe cases, the abdomen is distended, and even tender to the touch; the nausea passes into vomiting, and the pain, especially around the navel or in the course and the pain, especially around the navel or in the course of the colon, becomes intense, somewhat relieved, perhaps, after each evacuation, but soon returning with undiminished severity. The number of evacuations may vary from three or four to twenty or thirty in the twenty-four hours. Of course the sudden loss of so twenty-four hours. Of course the sudden loss of so large a portion of the more fluid part of the blood as is contained in these watery evacuations, deprives the system of a proportionate quantity of stimulating and nutritive matter, and accordingly there is often great prostra-tion of strength, and a striking expression in the countenance and attitude of languor and debility. In slight cases, the pulse is little if at all affected; but when the pain is severe and the discharges copious, the pulse is quickened, and at an advanced stage of the attack is generally small, weak, and much increased in frequency. The tongue is loaded, and in certain forms of the disease is intensely red at the edges and tip, and the papillæ are large, prominent, and of a bright red colour, shining through a thick coat of fur. The urine is generally diminished in quantity. The skin, at first hot, towards the termination of the attack is unusually cold and chilly, and is peculiarly incapable of resisting the influence of a cold and damp atmosphere. Every observant physician must be able to recal instances which have occurred in his practice, in which inflammation of some vital organ was set up, or perhaps the foundation of consumption laid, from the patient having imprudently gone out on a cold and wet day after having taken purgative medicine, or when labouring under diarrhœa spontaneously induced.

The nature of the matters contained in the evacuations varies remarkably, and affords important indications of the seat and state of the disease. Several varieties of the disease have indeed been founded on those appearances, and diarrhoa has accordingly been divided into fæculent, bilious, mucous, serous, chylous, lienteric, &c., but the causes of the disease afford more fixed and determinate characters for its distribution into species. Of these there are commonly enumerated the following:—diarrhoa crapulosa, from food improper in quality or quantity; diarrhoa biliosa, from bile more abundant or more acrid than natural, as from the heat of summer and autumn, co-operating with errors in diet; diarrhoa serosa, from increased vascular action of the mucous surface of the alimentary canal, induced by whatever occasions a preternatural afflux of blood to the mucous surface; diarrhoa mucosa, from increased secretion of the mucous follicles, which may be induced by almost any of the ordinary exciting causes of diarrhoa; diarrhoa lienterica, the aliment passing in the evacuations almost unaltered, occurring principally in children about the first, and between the first and second dentition, and occasioned by the ordinary exciting causes

The duration of this disease must of course be materially influenced by the persistance of the cause that excites it. Its ordinary varieties being generally dependent on temporary causes, are of short duration; but the increased secretion of bile by the liver, and of mucus by the mucous follicles, and the irritation of the intestinal canal from dentition, may be protracted to an indefinite period; and the disease dependent on the excited state of these organs may consequently become chronic, continuing for months together to harass the patient and enfeeble the constitution. In these cases, when a cure is apparently effected, very slight causes are capable of bringing back the disease; and during the period of convalescence the utmost caution is always necessary to avoid errors in diet and any exposure to cold or wet.

The immediate danger from a very severe attack of diarrhœa, or from its passing from the acute into the chronic state, is, that it should terminate in acute inflammation of the bowels (enteritis); or chronic inflammation and ulceration of the bowels (dysentery); or intus-susception (the passing of one convolution of the intestines into another), induced by the increased peristaltic action of the bowels; or enlargement, hardening, and obstruction of the

mesenteric glands, and the consequent wasting of the bell (marasmus), one of the most common forms of discussion which the existence of infants and children is cut short.

There are several diseases with which diarrhoea may confounded, from which it is important that it should distinguished. From the far more serious malady term dysentery it is distinguished by the absence of lever, the absence of blood in the evacuations, and by the abof the painful, distressing, and ineffectual desire to eva- . 1: the contents of the bowels which is called tenesmus. 1: distinguished from cholera by the absence of spasm: : the muscles, so constant and distressing in the later-disease, by the slighter degree or the total absence. vomiting, and by the milder character and the much 1 rapid progress of the entire disease. But the bilious aveven the pestilential cholera frequently commence with or other of the preceding forms of diarrhea. Life of depends on the clearness and promptitude with wh the diagnosis is made between diarrhoea from irritat constituting the crapulous and bilious forms of the desc. and the diarrhora from inflammation, which often a; punder the serous and mucous forms. The diagnoschiefly to be drawn from the marked difference in the content of stitutional symptoms when the diarrhoa is the conseque of an inflammatory state of the internal surface of intestines. In this case there is always present a grea. or less degree of fever; the skin is hot, or alternately land chilly; the pulse is more or less excited, and strength prostrate. The pain in the bowels is obscure and dull rather than griping, the abdomen is tender on pressu. and it is in this case more especially that the tongue is preternaturally red at the edges and the tip, and that papillæ are enlarged and red.

Though diarrhoea is often a trifling disease, and even remedial means adopted by nature to prevent the occurrence of more serious evils, yet the serous and muce forms of it, more especially when they pass into a chromic state, are apt to terminate in dangerous and fatal maladies. and their management requires great and persevering car Instances are by no means unfrequent in which the ultim: event proves fatal, in consequence of their neglect, or . the medical treatment and the remedies being injudicio... Indeed the treatment of diarrhæa in general requirmuch discrimination, for a very trifling form of it is eas converted by mismanagement into a highly danger a disease. The chief difficulty is to detect the exact natuof the exciting cause, and the exact condition of the excite! organ, which alone can guide to the selection of one. two opposite plans of treatment, the administration of purgative or of opiate medicines. If the irritation arise from too large a quantity of stimulating food and drink, also nence alone is sufficient to effect a cure; but if, notward standing the abstinence from food, the disease continue. is necessary to ascertain whether the irritation be kept u by the retention of irritating matters, or whether the a mentary canal itself be in a preternaturally irritable a:. excited state. If the former, purgative medicine of soil, kind or other is indispensable, but the choice of the purgative is by no means a matter of indifference. I should have the power of evacuating the contents of the bowels without irritating the mucous surface. For the purpose castor oil is one of the best medicines; or, if: somewhat stronger purgative be required, infusion of we: with manna. It is often attended with the best effects to combine a few drops of laudanum with the aperient. W the irritating contents of the stomach and intestines :: removed, a mild and frequently repeated sedative shou! prescribed, one of the best of which consists of two druck of almond oil with two drachms of mucilage of guin ar: in an ounce of rose or peppermint water, with from five ten drops (according to the severity of the case) of la: a anum or half a dram or more of the trioture of hypocyanum If the secretions are disordered, five grains of blue pill of hydrargyrum cum creta, with the same quantity of the compound powder of ipecacuanha, taken every night, or every other night, at bed-time, with a tea-spoonful of cast oil, containing a few drops of laudanum, the morning filowing, will soon restore them to a healthy state. Of courthe diet should consist only of the mildest alimentary suistances; for as long as the alimentary canal continues in . table, food and drink, even of the ordinary stimulat.

properties, will keep up or re-excite the diarrhosa.

The exciting cause of the biliary variety of diarrhora as

other inflavorations of the flow (hepothes). When slove my present any relies have the blood between a research any relies have personal and what the present any relies have personal and what the present and the authorities of the places of the state o



spallerpied, and the unificer matter level is all exception of the complexit the exception of the child. The strength of the life, it is all the strength of the child. The strength of the life, it is all the control provided of the child. The life of the life of the child. The life of the child. The life of the life o

number of nine hundred! The character of these, and of their author considered as a writer, is thus given in the Harmonicon for April, 1824:— 'Had Dibdin written merely to amuse, his reputation would have been great, but it stands the higher because he is always on the side of virtue. Humanity, constancy, love of country, and courage, are the subjects of his song and the themes of his praise; and while it is known that many a national foe, whether contending or subdued, has experienced the efficacy of his precepts, we are willing to believe that the sufferings which the lower orders of the creation are too commonly doomed to endure have now and then been a little mitigated

through the influence of his persuasive verse.'
DICARCHUS, the son of Phidias, was born in the city of Messana in Sicily. He was a scholar of Aristotle, and is called a peripatetic philosopher by Cicero (De Officia, ii. 5); but though he wrote some works on philosophical subjects, he seems to have devoted his attention principally to geography and statisties. His chief philosophical work was two dialogues on the Soul, each divided into three books, the one dialogue being supposed to be held at Corinth, the other at Mytilene. In these he argued against the Platonic doctrine of the soul, and indeed altogether denied its existence. In the second and third books of the Corinthian dialogue, Cicero tells us (Tuscul. Disput. i. 10), he introduced an old Pthiote named Pherecrates, maintaining that the soul was absolutely nothing; that the word was a mere empty sound; that there was no soul either in man or beast; that the principle by means of which we act and perceive is equally diffused throughout all living bodies, and cannot exist separated from them; and that there is no existence except matter, which is one and simple, and whose parts are naturally so arranged that it has life and perception. The greatest performance of Dicæarchus was a treatise on the geography, politics, and manners of Greece, which he called 'the Life of Greece' (Ελλάδος βίος). Of this a fragment has come down to us, which is printed in Hudson's Geographici Minores, and also edited by Marx in Creuzer's Meletemata e Discipl. and edited by Marx in Creater's intercentate & Discipi.

Antiquatatis, p. iii., p. 174. It has been conjectured, with
great appearance of truth, that the citations from Diceorchus, in which his treatises 'on Musical Contests,' 'on the
Dionysian Contests,' &c., are referred to, are drawn from this comprehensive work, and that the grammarians have named them by the title of the subdivision to which these subjects belonged, instead of the leading title of the book. (See Näke in the Rhein. Mus. for 1833, p. 47.) Dicaear-(See Nake in the Rhein. Mus. for 1833, p. 47.) Dicearchus's maps were extant in the time of Cicero (Ep. ad Att. vi. 2); but his geography was not much to be depended upon. (Strabo, p. 104.) Cicero was very fond of the writings of Dicearchus, and speaks of him in terms of the warmest admiration. (Ep. Att. ii. 2.) In the extant fragment Dicearchus quotes Posidippus, and must therefore have been alive in 289 B.C. We must distinguish him from a Lacedemonian grammarian of the same name, who was a

a Lacedæmonian grammarian of the same name, who was a pupil of Aristarchus (see Suidas). DICAL'LUS, a genus of Coleopterous insects.

CINUS.]

DICAUM. [CREEPER, vol. viii., p. 149.]
DICAUM. [CREEPER, vol. vii. p. 469.]
DICERAS. [CHAMACEA, vol. vi. p. 469.]
DICHELE'STHIUM. [PŒCILOPODA.]
DICHO'LOPHUS. [GARIAMA, vol. vi. p. 291.]
DICHOTOMA'RIA. [PSEUDOZOA.]
DICHO'TOMY, a term in botany, employed to express a mode of branching by constant forking. The first

stem or vein of a plant divides into two branches, each branch divides into two others, and so on. It is only in the veins of fern leaves, and of those of some of coniferous species, and in the stems of Lycopodiaceous plants, that this mode of division exists as a general character. It however does occur elsewhere; for example, the Doom Palm of Thebes is remarkable for its dichotomous branches, and the Screw Pines (Pandanus) have a similar habit.

DI'CLINOUS, an obsolete term in botany, signifying that a plant has its sexes in distinct flowers. It comprehends all the Monœcious and Diœcious plants of Linnœus.

DICOTYLE'DONS, a natural class of plants, deriving

their name from the embryo having in general two seed-leaves, or cotyledons; a character to which there are however some exceptions. The genus Ceratophyllum has several; Bertholletia appears to have none; in Tropscolum and many ers they are consolidated into one; and Cuscuta is cer-

great his facility in composition—he produced the amazing | tainly destitute of them. Like all others, therefore, the character derived from the cotyledons, nearly universal it is, has its exceptions. Hence botanists associate was the character derived from the embryo others derived fr the mode of growth, leaves, flowers, &c., and the wi: ! taken together give the real diagnosis of the class to whi a

The stems of dicotyledons is applied.

The stems of dicotyledons are probably in all carbinathed, except when a plant is, from its weakness and minuteness, unable to reach any development beyond that of the first stage from the plumule. In herbaceous planthat are called stemless, a sort of branching takes place by the formation of small short stems upon the crown of the axis of growth. They have the pith, wood, and bark detinctly separated, and the wood traversed by meduliary ray.

This wood, if more than one year old, consists of concentrationals, each of which is formed on the outside of that which is formed on the outside of the immediately preceded it; the consequence of which is, that the oldest part of a branch will necessarily consist of tilargest number of layers, and will therefore be the thinker hence the branches of dicotyledons are always cones, although usually very long ones [Exogens], and not cylin ders. But to some of these characters the exceptions and not a few. It is difficult to trace any distinction of parts wood, and bark in the stem of the water-lily (Nymphana) there are no concentric circles in the wood of Aristolochic and several other genera; and it is impossible to show to measurement that the stems of many irregular tropy dicotyledonous climbers vary perceptibly in diameter f: considerable distances

The leaves of dicotyledons are articulated with the stem. so that at a particular time they are thrown off, and leave : clean scar behind them, as in all the trees, whether de duous or others, which are found in the open air in Englas. Their veins are repeatedly branched, so as to form a neue! apparatus within the parenchyma. But although by far that largest part of dicotyledons are thus constructed, yet whave contradictions to this also. For instance in Dianthand a great many other genera, the leaves have no verexcept the midrib, and there are many herbaceous plant.

whose leaves never drop fairly off the stems.

The number of parts in the flower of dicotyledonous plant. is four or five; that is, four or five sepals, four or five re tals, and the same number of stamens, present in either: complete or imperfect state; or if the number is greater. is some power of four or five. But in Ranunculus Fumost Anonaceous plants, and several more, the parts in the flower are three.

Finally, when the seeds germinate, the embryo simple extends the point of its radicle in the form of a root, to exfor nourishment in the soil. [Exorniz.s.] But although this is, as far as is yet known, a character without exception that it is more free from anomalies than other characters.

Hence it is to be observed, that it is neither the two atyledons, nor the exogenous stem, nor the concentric circleof wood, nor the reticulated disarticulating leaves, nor the quinary or quaternary flowers, nor the exorhizal germinations, which by themselves characterize the class of dio to ledons, but the combination of those characters; and tithe absence of some one of them is immaterial; so that: plant may be essentially a dicotyledon, although it has a... number of cotyledons except two.

The dicotyledons of Jussieu comprehended the plans now separated under the name of Gymnosperms, and ingether with Monocotyledons and Acotyledons, constituted the whole vegetable kingdom. They probably consist of at least two-thirds of all known plants: in the state of tree shrubs, or herbaceous plants, they are found wherever plannogamic vegetation can exist, and they and Gymnosperma together constitute exclusively the arborescent scenery of

all cold countries.

DICOTYLES. [Hoc.]

DICRU'RUS. [LANIADE.]

DICTAMNUS, the botanical name of the fragrant ber-

baccous plant called Fraxinella by gardeners.

DICTATOR was the highest extraordinary magistrate in the Roman republic. Though the name obviously centains the element dic (from dico), it was doubted by the Roman writers whether the title had reference to the mediof his nomination or to his power. He was also called by the old name of Magister Populi, and in Greek trainance, or double consul. After the expulsion of the kings the

countibley was established. The two remoth processes the same years as the biggs in the adjustmentation of the distance of the

by Mr. Tyrwhitt in his glossary to Chaucer, and by Archdescon Nares in his glossary to Shakspeare and his Contemporaries, 4to. London, 1822. Even a mere verbal index, with little or no explanation of the meanings of the words, is often much more useful than a professedly interpreting dictionary, by merely bringing together or pointing out by reference the different passages in which each word is used, so that they may be compared with one another. Such mere indexes as those attached to the Delphin Classics are of great value in this way, in addition to their proper use of enabling any passage to be found of which even a single word is recollected. Few of our English classics have been illustrated by such complete verbal indexes; there is one to Milton's Paradise Lost, 12mo. London, 1741. Ayscough's Index to Shakspeare is only an index to the translated of the state of t to the 'remarkable' passages and words; and although its professed design is 'to point out the different meanings to which the words are applied, it is not very successfully compiled for that purpose. Still it is a useful book, as being the best verbal index to Shakspeare we yet possess. Indexes of this description serve in fact the same purpose with Concordances, although that term has been for the most part confined to works relating to the Scriptures. (CONCORDANCE.) Some works entitled dictionaries, indeed, comprehend concordances more or less complete; as, for instance, Schleusner's 'Novum Lexicon Græco-Latinum in Novum Testamentum,' and the Ionic lexicon of Schweighas user, which is a sort of concordance to Herodotus, and that to Polybius by the same scholar.

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Some of these dictionaries to particular authors, or works, have exclusively or principally in view the illustration of the style of the author, or his use of particular words. One of the best of these is Ernesti's 'Index Latinitatis Philologico-Criticus' to Cicero. This work in fact, although styled these latest inductions in the property of the control of the co although styled merely an index, is much more a dictionary of interpretation and commentary than the lexicon just mentioned of Nizolius, which however is much the more minute and extensive index of the two. The instance may serve to show with what latitude the two titles are applied And the title of index, it may be added, has been sometimes given to works which are not really indexes in any respect, but simply dictionaries or vocabularies. We may mention as an example, 'Olai Vereli Index Linguæ Veteris Scytho-Scandicæ, sive Gothicæ, opera Olai Rudbeckii editus,' fol. Upsalæ, 1691, which is merely a vocabulary of the Gothic. Dictionaries of languages have also been published under many other titles. A Thesaurus, or Treasury, is a very common title of such a book. Thus Faber's Latin dictionary is styled 'Thesaurus Eruditionis Scholasticæ,' and H. Stephens' Greek lexicon is entitled 'Thesaurus Græcæ Linguæ.' Edward Philips entitles his English dictionary a 'World of Words.' In some cases an attempt has been made by means of a dictionary or index, not only to point out the writer's use of particular words, or their meaning in particular passages of his works, but also to give an abstract of his text. This has been done in the index to Hippocrates, by Foesius, entitled 'Economia Hippocratis Alphabeti serie distincts, in qua Dictionum apud Hippocratem omnium, præsertim obscuriorum, usus explicatur, et velut ex amplissimo Penu depromitur, ita ut Lexicon Hippocrateum merito dici possit,' fol. Francf. 1688. Of dictionaries of words also, some are dictionaries of etymologies, some of the quantities of syllables (as the common Latin 'Gradus ad Parnassum, and Morell's 'Thesaurus Græcæ Poeseos, sive Lexicon Græco-Prosodiacum,' improved and enlarged by Maltby); some of terminations (as in English, Walker's 'Rhyming Dictionary'), and Hoogeveen's 'Dictionarium Analogicum Linguæ Græcæ.' Some dictionarium Analogicum Linguæ Græcæ.' aries of the oriental tongues and of the Greek tongue exhibit the words arranged according to their sup-posed roots; and some Latin dictionaries have also been constructed upon this plan. Of professed dictionaries of derivations one of the most elaborate, though it is far from being a correct or philosophical work, is the Etymologicon Linguas Latinas of G. J. Vossius. Others are the Dictionnaire Etymologique de la Langue Francaise, of Menage; the Origines de la Langue Italienne, of the same author; the Etymologicon Linguæ Anglicanæ, of Stephen Skinner, fol. 1671; and the Etymologicon Anglicanum of Francis Junius, fol. Oxon, 1743. A very ambitious attempt has been made by Mr. Whiter in his Etymologicon Magnum, or Universal Etymological Dictionary on a new plan, 3 vols. 4to., Camb. 1800—1822, to construct a dic-

tionary of the elements of all human language. Mr. Booth, in his Analytical Dictionary of the English Language, has set an example of perhaps the happiest mode in which an account of words can be given according to their etym-gies or affinities. By making each radical term the text: a short essay, in the course of which the history of all its derived and connected terms is traced and illustrated by quotations, references to manners and customs, and are dotes of various kinds, the writer has rendered his diete :ary as entertaining as it is instructive, and adapted it not only for occasional consultation but for continuous reading.

Any account of the dictionaries of particular tone of would be out of place here. There is a Table Alphabetique des Dictionnaires, by Durey de Noinville, particular dished in 1758, which however is asserted to be very income. plete, even for that time. A very elaborate dissertation lexicons and glossaries in general, and on those the Greek language in particular, by P. J. Maussacus, a inserted in most of the editions of the Greek lexicon the greek le Harpocration, entitled Lexicon Decem Oratorum; and il same subject has also been treated by several other write. who are enumerated in Morhoff's Polyhistor, lib. iv. cap In the portion of Morhoff's third book, from chapter to chapter 9th inclusive (vol. i. pp. 743—830, edit. 173-given an account of the principal dictionaries of the man European tongues, of the oriental tongues, of the Grand of the Latin tongues. See also De Bure's Bibliographers Instructive, vol. iii., p. 1—86.

In some dictionaries the words are explained in the

language to which they belong; in many others the woof one language are interpreted by corresponding words another language. In some the interpretation or tran-liis into several languages; as, for instance, in Ministrationary of Eleven Languages, namely, English, W. German, Dutch, French, Italian, Spanish, Portug and Latin, Greek, and Hebrew, fol. London, 1617; and an dictionary printed at St. Petersburg in 3 vols. 410.

German, Russian, and Latin.

Although, as Maussacus in his Critical Dissertation noticed has taken great pains to prove, books be:.. γλῶσσαι, or unusual words, and of λίξεις, or idioms, are quently referred to or mentioned by the Greek and L grammarians and other writers, it does not clearly not that all of these were what we should now call dictions ries, that is to say, were collections of vocables and phoalphabetically arranged. The oldest extant Greek icc. grapher is Apollonius the Sophist, a contemporary Augustus; his work entitled Aikus Ounperai, or 'House Words,' though much interpolated, is very useful. the other original Greek lexicons and glossaries we have he one of Synony: of Julius Pollux, the lexicons of Suidas, Harpocra and Hesychius, and the Etymologicon Magnum, some attributed to Marcus Musurus, although of the and of some of them the exact age is disputed, were und edly compiled subsequent, and most of them prolong subsequent to the commencement of the Christera. It is supposed indeed that they were found upon older compilations of the same kind; but of form of those lost works we know nothing. It mareasonably doubted if either the Greeks or Romans we in the habit of making use of dictionaries in studyin. foreign language or dialect, as has been the general tice in modern times. They would seem rather to uniformly followed what may be called the natural me of learning the language from conversation with those v. spoke it, being the method by which we all learn the !. guage we acquire both most easily and most perfectly. mother tongue, and that by which alone a real knowles! and command of any language can be acquired. Althouhowever, the utility of a general dictionary of a language an instrument either for teaching the language to your. schools, or for enabling a student to master it in any cumstances, may well be questioned, there are obveconsiderations which make it desirable that we should resess such dictionaries of all languages. When a diction of a language professes to be more than a mere wocabulatit is usual for it to contain along with the interpretation explanation of the meaning of each word, some account its etymology or derivation, and also of its gramma' usage. Except when the dictionary is exclusively ever logical, perhaps all that ought to be attempted in regard :. the design estreation of works to to copy the larguage from efficied one of may be engaged on the larguage from the company of the larguage from the company of the larguage for the company of the compa

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does not appear that the term encyclopædia was ever andoes not appear that the term encyclopædia was ever antiently used as meaning a work treating of all the various kinds of knowledge. It has, however, as just observed, become the common title for such works in modern times. Perhaps it was first so applied by some of the Arabian writers of the middle ages, one of whom at least, Alfarabius, who flourished in the tenth century, is stated to have compiled a general treatise on the sciences, still preserved, under this title. Soveral such treatises with the same title and a general treatise on the sciences, still preserved, under this title. Several such treatises with the same title appeared in Europe about the end of the sixteenth and beginning of the seventeenth centuries, the most famous of which was that of John Henry Alstedius, which was first published in 2 vols. fol. in 1630. (See preface to Supplement to Encyclopædia Britannica, and Morhoffii Polyhistor, vol. i. lib. ii. chap. 7, for an account of this and other early encyclopædias.) But none of these works were dictionaries. clopædias.) But none of these works were dictionaries: clopædias.) But none of these works were dictionaries: they were merely collections of treatises, rather resembling such works as Dodsley's Preceptor than answering to the modern notion of an encyclopædia. A much nearer resemblance to the modern encyclopædia is presented by the 'Lexicon Universale Historico-Geographico-Chronologico-Poetico-Philologicum' of Joh. Jac. Hofman, first published at Basle in 2 vols. fol., 1677, and followed by a 'Continutio' or Supplement, of the same extent in 1683; or the atio' or Supplement, of the same extent, in 1683; or, the two publications incorporated in 4 vols. fol., Lug. Bat., 1698. The form at least of this work has been generally preserved in our more recent encyclopædias and dictionaries of the arts and sciences, although most of these, by including the principles of science as well as facts, have extended their scope somewhat beyond Hofman's design. His two supplementary volumes however embody a great deal of the natural science of his time; and the work altogether contains much curious learning not readily found elsewhere. Although not evidencing any very superior sagacity, penetration, or elegance of scholarship, it is a wonderful performance for an individual, and still remains a most useful book of reference.

The first English 'universal dictionary of the arts and sciences' was the 'Lexicon Technicum' of Dr. John Harris, of which the first vol. in fol. appeared at London in 1706, and the second, completing the work, in 1710. It was afterwards extended to three volumes. Harris's Lexicon enjoyed great popularity for a considerable time after its first appearance, as may be inferred from the fact that it passed through five editions in about thirty years; and in the mathematical and physical department especially it is admitted to have been very ably executed. It was not long however before it found a rival in Chambers's Cyclopædia, the first edition of which appeared in 2 vols. fol. in 1728. [Chambers, Ephraim.] The professed peculiarity of the new work was, that it proposed to 'consider the several matters not only in themselves, but relatively, or as they respect each other; both to treat them as so many wholes, and as so many parts of some greater whole.' This was attempted to be done by a system of references from one article to another, so as to connect the subordinate particulars among themselves, and as may be inferred from the fact that it passed through five connect the subordinate particulars among themselves, and to indicate the great division of knowledge to which each bolonged. In this way the work, which, in the seventh edibelonged. In this way the work, which, in the seventh edition (1778—85), was extended to 4 vols. folio, contained no complete treatises on any of the sciences, nor other articles of any considerable length. Various other works followed, compiled upon much the same plan, among which were Barrow's 'Now and Universal Dictionary of Arts and Sciences,' in one vol. fol. 1751, with a supplemental vol., published in 1754; 'A now and complete Dictionary of Arts and Sciences, by a Society of Gentlemen,' (commonly, from the name of the publisher, called Owen's Dictionary,') 4 vols. fivo., 1754; and 'The Complete Dictionary of Arts and Sciences,' in 3 vols. fol., 1766, by the Rev. Henry Croker, Id. Thomas Williams, and Mr. Samuel Clark. (See, for an account of all these works, the preface to the Supplement to the Encyclopædia Britannica.)

A work upon a different plan had also appeared in 2 vols.

fol. in 1745, by Dr. De Coetlogon, a native of France,
naturalized in England, under the title of 'An Universal naturalized in England, under the title of 'An Universal History of Arts and Sciences, or a Comprehensive Illustration of all Sciences and of all Arts.' This was in fact a dictionary, the subjects being treated in alphabetical order, and Mr. Macvey Napier, in the preface just referred to, similarly it to have probably suggested the Encyclopædia ica, the first edition of which, in 3 vols. 4to., aptically of Cantleman in Scattered was a least of Ca

ciety of Gentlemen in Scotland, upon a new plan,

in which the different sciences and arts are digested into distinct treatises or systems. This plan however had been already adopted in Dr. Coetlogon's work. The proprietor and principal compiler of the Edinburgh work was Mr. William Smellie, the printer, a man of much ability and considerable literary attainments. For the subsequent history of the Encyclopædia Britannica, which in the fourth edition completed in 1810 was extended to 20 vols., and edition completed in 1810 was extended to 20 vois., and to which a supplement in 6 vols. was added in 1824, we must refer to Mr. Napier's preface. A seventh edition of the work, in which the supplement is incorporated, is now in the course of publication. Of the other modern English Cyclopædias, already completed, the two most deserving of notice are the Cyclopædia, or a New Universal Dictionary of Arts and Sciences, conducted by the late Dr. Rees, and commonly known by his name, although professing to commonly known by his name, although professing to be only a new edition of Chambers, begun in 1802, and completed in 45 vols. 4to. in 1819; and the Edinburgh Cyclopædia, edited by Dr. (now Sir David) Brewster, begun in 1810. and completed in 36 parts, or 18 vols. 4to. in 1830. The Ency clopædia Metropolitana was begun in 1818, being announced as a Universal Dictionary of Knowledge on an original as a Universal Dictionary of Knowledge on an original plan; comprising the twofold advantages of a philosophical and an alphabetical arrangement. This work, which is still in course of publication, is arranged in four divisions: the 1st, comprehending the Pure Sciences; the 2d, the Mixed and Applied Sciences; the 3d, the Biographical and Historical articles; and the 4th, the Miscellaneous and Lexicographical articles. The Penny Cyclopædia of the Society for the Diffusion of Useful Knowledge was begun in 1833, and has ever since been published regularly in volumes and in numbers. volumes and in numbers

volumes and in numbers.

Of the foreign works of this class by far the most celebrated is the Encyclopédie, or Dictionnaire Raisonné des Sciences, des Arts, et des Métiers, of Diderot and D'Alembert, of which the first vol. fol. was published at Parsin 1751; the 17th and last of the original series in 1765, 11 vols. of plates being added to the text, of which the first was published in 1762, the last in 1772. A Supplement was afterwards added, consisting of four vols of text and one of plates, fol., 1776-7; and there is besides a 'Table Analytique' of the whole work, compiled by M. Mouchon, in 2 vols. fol., Paris and Amsterdam, 1780. Editions of the work have also been printed in France and other tions of the work have also been printed in France and other parts of the Continent, both in quarto and octavo. But the more detailed history of this remarkable work must be reserved for a separate article. It has been followed in France by another Dictionary of Arts and Sciences of still greate: extent, the Encyclopedie Methodique, begun in 1782 and finished in 1832, in 201 vols. 4to., including 47 vols. of plates. In this last went investigate the second street of the second street and the second street and second street. In this last-mentioned work every art or science is treated of in a separate volume, or series of volumes; so that the whole is in fact merely a collection of dictionaries. Of other foreign Encyclopedias we may notice the German 'Conversations' Lexikon' (as it was originally entitled), projected by Mr. Brockhaus, the bookseller of Leipzig, and first published there in 1812. A seventh edition of this work appeared at Leipzig. in 1827-9, under the new title of Allgemeine Deutsche Real-Encyclopadie für die gebildeten stände. An Englis-translation of it, including much additional matter, has appeared at Philadelphia; and the American work is an present in course of republication in this country, with additions and alterations. There is also now in course of publication the great work conducted by Professors Erach and Gruber, entitled 'Allgemeine Encyclopädie der W. and Gruber, entitled 'Allgemeine Encyclopadie der W.s. senschaften und Kunste,' which began to be published at Leipzig in 1818, and of which 46 vols. 4to. have already appeared; viz. the portion from A to Drury, in 27 vols. that from H to Hamburg, in 12 vols; and that from O to Otzenhausen, in 7 vols. Some account of the encyclo passias in various languages, but neither very clearly nor years accounted with a great deal of very accurately drawn up, and mixed with a great deal of superfluous and useless matter, may be found in a little book called 'Nouveau Système Bibliographique mis en usage pour la connaissance des Encyclopédies,' &c., 12mo., Paris, 1821.

DICTUOPHY'LLIA. [MADREPHYLLIGEA.]
DICTYS, a Cretan who accompanied Idomeneus to the siege of Troy, and the reputed author of a history of the Trojan war, of which a Latin prose translation is still extant. This work was discovered in the reign of New, in a tomb near Gnossus, which was laid open by an earthquake. It was written in Phoenician characters, and translated anso

DID 183

DID 385

DID 3

Dispute to me Entrackie, or Print, at the command of control that the present has been some above in m. in Eath received that present a simplicial to Quintum Gentanian. The loss elition is an included to Quintum Gentanian. The loss elition is that by Potrenius (1742, Ano.), to better professory discontain the cooks in gentanian and his transitionary discontain the transition and his transitionary discontain the transition and his transitionary discontains the transition of the programs of Chargogo, the first his transition of the programs of Chargogo, the first his transition of the programs of Chargogo, the first his transition of the programs of Chargogo, the first his transition of the programs of Chargogo, and could be send for the programs of Chargogo, the first his transition of the programs of Chargogo, the first his transition of the programs of Chargogo, the first his transition of the programs of Chargogo, the first his transition of the programs of Chargogo, the first his transition of the programs of the programs of Chargogo, the first his transition of the programs of the

ne got up, sat down to dinner with his wife, and afterwards | expired without a struggle. Diderot was one of the principal members of the Holbach coterie, and the leader of that knot of literary men known in the last century by the name of Encyclopédistes. There are many particulars concerning Diderot in his friend Grimm's Correspondance

Littéraire, Paris, 1812.

DIDIUS JULIA'NUS, of a family originally from Milan, and grandson of Salvius Julianus, a celebrated jurist, was born about A.D. 133. He was educated by Domitia Lucilla, the mother of Marcus Aurelius. He soon rose to important offices, was successively Quæstor, Prætor, rose to important offices, was successively Questor, Praytor, and Governor of Belgic Gaul, and having defeated the Chauci, he obtained the Consulship. He was afterwards sent as governor to Dalmatia, and next to Germania Inferior. Under Commodus, he was governor of Bithynia: on his return to Rome, he lived in luxury and debauchery, being enormously rich. After the murder of Pertinax, A.D. 193, the Prætorians having put up the empire to auction, Didius proceeded to their camp, and bid against Sulpicionus, the father-in-law of Pertinax, who was trying Sulpicianus, the father-in-law of Pertinax, who was trying to make his own bargain with the soldiers. Didius having bid highest, was proclaimed, and was taken by the soldiers into Rome. The Senate with its usual servility acknowledged him emperor, but the people openly showed their dissatisfaction, and loaded him with abuse and imprecations in the Circus when he assisted at the solemn games which were customary on the occasion of a new reign. He is said to have borne the insult with patience, and to have behaved altogether with great moderation during his short reign. Three generals at the head of their respective legions, Pescennius Niger, who commanded in the East, Septimius Severus in Illyricum, and Claudius Albinus in Britain, refused to acknowledge the nomination of the Prætorians. Severus being proclaimed Augustus by his troops, marched upon Rome, and found no opposition on the road, as the towns and garrisons all declared for him. The Prætorians themselves forsook Didius, and the Senate readily pronounced his abdication, and proclaimed Severus emperor. A party of soldiers making their way into the palace, and disregarding the entreaties of Didius, who offered to re-nounce the empire, cut off his head. He had reigned only sixty-six days. Severus soon after entered Rome, put to death the murderers of Pertinax, disarmed the Præto-rians, and banished them from the city. (Spartianus in Historia Augusta; Dion, Epitome, B. 73.)



Coin of Disting. British Museum. Actual Size. Copper. Weight, 355 grains.

DIDO. [ANEAS; CARTHAGE.] DIDUS. [Dodo.]

DIDUS. [DoDo.]
DI'DYMUS, a celebrated grammarian, the son of a seller of fish at Alexandria, was born in the consulship of Antony and Cicero, B.C. 63 (Suidas, sub v.), and lived in the reign of Augustus. Macrobius calls him the greatest grammarian of his own or any other time. (Saturn. v. 22.) According to Athenseus (iv. p. 139, C.) he published 3,500 volumes, and had written so much that he was called the forgetter of books  $(\beta_i \delta_i \omega) \delta_i \delta_i \delta_i$ , for he often forgot what he had written himself; and also the man with bowels of brass (xalkivripoc), from his unwearied industry. To judge from the specimens of his writings given by Atheneus, we need not much regret the loss of them. His criticisms were of the Aristarchian school (Suid.): he wrote, among other things, an explanation of the Agamemnon of Ion (Athen. xi. p. 418 D.), and also of the plays of Phrynichus; (Id. ix. p. 371 F.) several treatises against Juba, king of Libya (Suid. 166ac), a book on the corruption of diction (Athenseus, ix. p. 368 B.), a history of the city Cabessus wille. Henry II., king of England and duke of Normandy,

(Steph. Byz. sub v. 'Aγάθυρσοι), besides essays on the country of Homer, the mother of Eneas, and other equally unimportant subjects. The Scholia Minora on Homer have been attributed to him, but wrongly, for Didymus himself is quoted in these notes. The collection of proverbs extan: under the name of Zenobius was partly taken from a previous collection made by Didymus, and about sixty fragments of his fifteen books on agriculture are preserved in the Suidas mentions several other authors of this name, and

among them one surnamed Ateius, who was an academiamong them one surnamed Ateius, who was an academiphilosopher, and wrote a treatise in two books on the solutions of probabilities and sophisms. We may also mentionally be a solution of probabilities and sophisms. We may also mention Didymus 'the blind,' an Alexandrian father of the churck who was born about the year 308 B.C., and was the teacher of St. Jerome, St. Isidore, Rufinus, and others. He died in B.C. 395. Of his numerous writings, four treatises have come down to us. I. 'On the Holy Spirit.' II. 'On the Trinity.' III. 'Against the Manicheans.' IV. 'On the Canonical Epistles.' A Greek Treatise on Farriery by another Didymus is also extant.

DIDYNA'MIA, the fourteenth class of the Linnson system of arranging plants. It is the same as Tetrandria; the:

tem of arranging plants. It is the same as Tetrandria; this is, it has always four stamens, only two of them are a livelonger than the other two. Under this class are comprehended a large part of the Lamiaceous, Verbenaceous, Scr.-phalariaceous, Bignoniaceous, and Acanthaceous plants ... modern botanists. It is divided into two orders, Gym:
spermia and Angiospermia. Gymnospermia includes the
genera whose ovary is split into four small seed-like lobwhich in the time of Linnæus were taken for naked seedand Angiospermia those which have manifestly the inclosed in a pericarp of some sort.

DIE or DIEY, ST., an episcopal town of France, in the department of Vosges, on the river Meurthe, not far from its source, and on a road to Schelesteed and Colmar, where

its source, and on a road to Schelesteed and Colmar, while branches off from the great Paris and Strasburg road Luneville. It is 252 miles from Paris; in 48° 17° N. lat. and 6° 56′ E. long.

This town is of considerable antiquity: it had in time seventh century an abbey called the Abbey of Jointure this abbey was secularized in the tenth century: the cheft had a like of private this abbey has secularized in the tenth century: of the college of priests thus formed bore the title of grand prevot, and exercised the functions of a bishop: be was also, in conjunction with the chapter, which consisted of twenty-four prebendaries, including three dignitaries lord of the town. The list of the grands prevots includone pope, nine princes of the house of Lorraine, and severather illustrious persons. St. Die was walled in in the thirteenth century; the walls yet remain. It is situated at the foot of a mountain, and is small, but regularly laid out and handsome. In the middle of the last century it suf-fered much from a fire, which consumed many of the The population in 1832 amounted to 5560 for the town itself, or 7707 for the whole commune. The inhabitants are engaged in the manufacture of cotton yaru-printed calicos, and handkerchiefs, cotton counterpandannels, and hosiery, and leather; and the bleaching of linen is carried on. There are two mineral springs near St. Die; one impregnated with sulphur, the other with

The bishopric of St. Dié was established in 1777: the diocese now comprehends the department of Vosges (popularity) lation, in 1832, 397,987): the bishop is a suffragan of the archishop of Besançon. St. Die is the capital of an arrondissement, which had, in 1832, a population of 107.5%. The inhabitants of this arrondissement are much engage: in the manufacture of sabots (wooden shoes) and other wooden wares, and of cotton yarn. They make also the

best cheese of any in the Vosges.

DIEMEN'S LAND, VAN. [Tasmania.]

DIEPPE, a town in France, on the coast of the Manche or English channel, at the mouth of a small river formed by the junction of the three streams, the Argues, the Banana and the Faulust 60 miles in a direct line north worth. thaune, and the Eaulne; 92 miles in a direct line north west of Paris, or 117 miles by the road through Meulan, Manta Vernon, Pont de l'Arche, and Rouen; in 49° 56' N. lat. and 1° 3' E. long.

mental, in 1115, a main at Diapy, which was throughout to these fees high, in a grounding monour, and having small by in some Habelet 1. To the aghested conjugate in finite control of the control of th

Dut will this quantum remains; assuming the procedure is however abrumently find of that genus because its finite and continuation, and also that we have the relates a dry capable with a papert percent, with four colls and made could contain of a secretary in a 1 featurely 4th x = 2 (47), (a). What is the relates at sections answering in the procedure of secretarily and the function answering in the four colls and the four fine time of a, for nections when a = 242. One contains a growing four two colorests as a common hardy should growing four two coloring that x = 2, gives 12, and x = 3 gives 112, if this is

488

81 97 113 129, &c.,

and that the irregularity of the progression from term to term will require a law to express it, such as will not allow of uniform progression between the terms. Such are the notions which might be made to suggest themselves, and the difficulties of which find their answers in the mathematical consideration of the subject.

Let any term chosen at pleasure in a series be called a, let the next term be  $a_1$ , the next  $a_3$ , and so on. That is,  $a_n$  means the *n*th term from a, not reckoning a. The succession of *first differences* (a more convenient way of expressing the *first succession* of differences) is—

$$a_1-a$$
,  $a_2-a_1$ ,  $a_3-a_2$ ,  $a_4-a_3$ .....

The succession of second differences (second succession of differences) is—

$$a_2 - a_1 - (a_1 - a)$$
, or  $a_2 - 2a_1 + a$   
 $a_3 - a_2 - (a_2 - a_1)$ , or  $a_3 - 2a_2 + a_1$ , &c.

The succession of third differences, similarly derived from the preceding, is—

$$a_3 - 3a_2 + 3a_1 - a$$
,  
 $a_4 - 3a_3 + 3a_2 - a_1$ , &c.

From which it will be evident to any one who knows the binomial theorem and the law of its co-efficients, that the first term of the nth succession of differences is—

$$a_n - n a_{n-1} + n \frac{n-1}{2} a_{n-2} - \dots (n+1 \text{ terms}).$$

It is usual to denote this by  $\Delta^n a$ , the letter  $\Delta$  standing for the operation of taking the difference, the exponent expressing that this operation has been repeated until it has been performed n times, and a being the term of the series used in the first operation. The symbol is called the nth difference of a.

If, then, we write the series and its successions of differences, not using the results of the operations, but their symbols, we have as follows—

$$a$$
  $a_1$   $a_2$   $a_3$   $a_4$  .....  $\Delta a$   $\Delta a_1$   $\Delta a_2$   $\Delta a_3$  .....  $\Delta^2 a$   $\Delta^2 a_1$   $\Delta^2 a_2$  ....  $\Delta^3 a$   $\Delta^3 a_1$  ....

From which we find that  $a_1 = a + \Delta a$ .  $a_2 = a_1 + \Delta a_1 = a + \Delta a + (\Delta a + \Delta^2 a)$  $= a + 2\Delta a + \Delta^2 a$ 

$$a_3 - a_1 + 2\Delta a_1 + \Delta^2 a_1 = a + \Delta a$$
  
+2  $(\Delta a + \Delta^2 a)$   
+  $\Delta^2 a + \Delta^2 a$ 

or, a, -a+34a+34a+4a.

Proceeding in this manner, and by the assistance of the binomial theorem as before, we find that—

$$u_n - u + n \Delta a + n \frac{n - \epsilon}{2} \Delta^a a + \dots (n+1 \text{ terms}).$$

These two theorems are the fundamental parts of the whole theory of differences; and our limits will not allow us to go further into the subject. We shall only observe, that it is most desirable that this very elementary branch of pure mathematics should be taught as a part of common algebra, or at least with the first rudiments of the differential calculus. The almost universal practice of deferring this subject until the student is master of the integral calculus, is entirely subversive of all natural order, and is perhaps one of the reasons why the differential calculus is proverbially difficult. Various developments and applications are to be found in every work on the subject

The term difference is continental; the older English term was increment.

term was increment.

DIFFERENCE, ASCENSIONAL [ASCENSION.]
DIFFERENTIAL CALCULUS, the name given by
Leibnitz to the science which was digested nearly about the
same time by himself and Newton, independently of each
other [Fluxions, Commercium Epistolicum], and which

has of late years almost exclusively prevailed in this country, to the exclusion of the name, notation, and (so far as they differ) methods of Newton's fluxions.

as they differ methods of Newton's numbers.

It is impossible, in the smallest degree, to exhibit the present state and uses of a science into which all other merge as the student approaches the higher applications of mathematics. The article Differential Corpicism will, so far as it goes, gives some idea of the nature of its first step; but the following remarks must be considered as intended for the student who has made some progress it a modern elementary work

The history of the differential calculus, at its first rise is so connected with that of the Newtonian Fluxious, a consequence of the celebrated dispute as to the right of invention, that we have thought it best to refer the white point to the last-named article. On the history of the science since the time of Newton, there is no work from which we can trace out a connected account of the various steps by which the present system has been formed. In fact most of the new investigations have been made with reference to some particular points of physical science. In would be very difficult to write the history of this calculus without entering at the same time into that of mechanical optics, astronomy, &c. &c., and of every subject to which it has ever been applied. An attempt at the former without the latter would be an account of the progress of language without mention of literature overtory or the draws.

the latter would be an account of the progress of larguage without mention of literature, oratory, or the drama.

In the meanwhile, seeing that notions as to the most proper and useful basis on which to build this science at far from being fixed, the most advantageous course which we can here adopt is to give a short account of the various systems which have been proposed, referring to such attels and treatises as will enable the student to obtain further information. These different systems all produce the sum results, expressed in very similar manners: there is a question between them as to the truth or falsehood of any one deduction, and a practised intellect can always see her the principles of any one, assumed as granted, may be made to furnish demonstration of those of any other. It is therefore, with some exception, a metaphysical rather than a mathematical difference which agitates (or rather which did agitate) the mathematical world. We do not mean say that opinions are now agreed; but it seems that the question is left open, it being admitted that the manner a which a student arrives at his knowledge of the subject the first instance is not of the greatest importance, provided that, when it has been obtained, he give his attent to the comparison of the various methods by which he may have attained the same end.

The precursors of Newton and Leibnitz, namely, Archmedes, Cavalieri, Wallis, Barrow, Fermat, Roberval, and others, touched so near upon the differential calculus, that it is obvious any of them might have taken the place of either of the first, if they had possessed more power, means of algebraical development. After Vieta, Descata Wallis, and Newton (considered only as the discovered the binomial theorem), the step to a formal calculus we comparatively small. The essential part of the difficulty had been removed, and by much the greater part of the distance between Archimedes and Leibnitz had been gained. This point once attained, methods sprung up with rapidity, and in little more than a century we find the introducted of the various schemes which it will be necessary to methon, namely—Leibnitz's method of infinitesimals; Newton's method of prime and ultimate ratios; Newton's method of fluxions; Landen's method of vanishing fractions, or residual analysis; D'Alembert's method of limits. Lagrange's method of derivation.

Many other forms have been proposed, which either coincide in principle with one or other of the preceding, of are without any independent claim to notice. Several of the preceding, indeed, are more distinguished from each other by historical notoriety than by essential difference of character. If we distinguish carefully between the forth principles of a method and the manner in which there principles are applied to algebra, it would not be any great stretch of assertion to contend that all the methods exert the last are different ways of expressing the same fundamental ideas; and that the last (Lagrange's) is a proof that, so long as the preceding methods employed the usual amount of algebraical assumption in the establishment of the connection between the meaning and all the processing and the property and all the processing the same fundamental ideas; and that the last (Lagrange's) is a proof that, so long as the preceding methods employed the usual amount of algebraical assumption in the establishment of the connection between the meaning and the connection between the connection that the last the connection between the connection that the connection the connection that the connection the connection that the

quantity of assumption could fixed been sufficient for the lines of a priorly significated science, expressions to the differential parameter.

The method of Labonita assumes that quantities are bundle up of include numbers of rollindary well parts. The traver was Procures, Largerier I for a serie of anomother of rollindary and parts. The traver was Procures, Largerier I for a serie of anomother proposed, it is obvious that there are no such things, and any observed in the whole shore. But the faller forms and throughout the whole shore. But this faller found of the sugar street is one absolute for though competences amond to distinct had down to be composed of an against market in the street forms and the whole shore that the major of the sugar street is of the sugar street in the second of the sugar street is of the sugar street in the second of the sugar street for the major of a significant in another of parts greater than one of against market in comments and for the sugar street is then any to may happen to name. This is to perform the second of the sugar street is then any sugar thinks as may happen to make a fall to less than any sugarithes as may happen to make a fall to less than any sugarithes as may happen to make a fall to less than any sugar that a market is any the second of the second of the second of the sugar street is the second of the s

crossing or discreasing quantities may be referred to the velocities with which the beautiful points of straight inner-lance their places. Valuety name death before, in cases where it is variable there is no further difficulty, but ministrance is is vertable, there is no farrhor difficulty; for informaticly a distinct recompanie of the resemble of the instance  'I not the early of the instance, 'I not the Kalmongton of the instance of

and principles, base, in our opinion, never been surposeed. It has the adjustions of principle (faranti-sy) and a the more inclusion. The postiles of principle (faranti-sy) and a the more inclusion. The postiles of books of D'Alembert, which is new may be made them any others was remidered by the nather langed as an explanation of Newton's ground and thought with the myles of the mather being of the myles of all themselves to D'Alembert (and, monitored as a figure) applications of the principles. The following article, Dryremstriat, Controlled, and the fingless postiles. The following article, Dryremstriat, Controlled, will deplete the principles of all the preceding mile, and which into these precises of all the preceding article, and which into these of the senses upon parely significant principles. Proviously to substitute and Lagrangia article, and which into these of the senses upon parely significant principles. Proviously to substitute and Lagrangia articles are alterable at the algebra signally in set. Substituted sources a discupled its nake his system farmid any skillational source; to the methods of the algebra signally in set. Substituted sources are consideration to the fact that singlet already was consideration to the fact that singlets already was considered on money and an overy part as the differential calculate could over, on any supportion, to expected to do, it was a mailtreaf of the parent of the Algebra who have a mailtreaf and the Alember of the disposance of the Algebra was desirable in the methods of the former.

The resolutat simples of Landon is a technically algebra could over, on any supportion, to expected the do, it was a mailtreaf and make the harder a parent of the former. The surface of the algebra was the surface of the algebra of the Algebra was the method of the method of the method of the method of the surface of the fi

$$g\left(x+h\right)=gx+g'x,h+g''x,\frac{h'}{u}+g'''x,\frac{h'}{v,h}+dux$$

upon principles as sound as those of algebra in the hands of Maclaurin, or Euler, or Clarraut, as elementary writers. It is our opinion that Lagrange has not been correctly understood, nor fairly dealt with, by those who have compared his theory of functions with the other methods. Undoubtedly any one who should maintain the unqualified admissibility of Lagrange's work must assert both the major and minor of the following syllogism.

Algebraical expansion (théorie des suites is Lagrange's

phrase) as generally received A.D. 1790, was founded on sound principles: the *Théorie des Fonctions* is a logical and incontestable result of such algebra; therefore, &c.

All the attacks upon Lagrange have denied the major of this syllogism, whereas it appears to us that he never intended to assert more than the minor. Perceiving that the mathematical world was in the habit of calling in the aid of limits or infinitesimals, to help a certain algebra in deducing certain conclusions, he showed them how that very algebra, good or bad, was competent to the deduction of the same conclusions without either limits or infinitesimals; and he was correct. Notwithstanding any thing in the work in question, Lagrange might have admitted all that we shall find it necessary to say against his system, absolutely considered, in the article Functions, Theory of.

A new question has arisen of late years, namely, whether the theory of limits he not absolutely necessary to the

the theory of limits be not absolutely necessary to the rigorous development of common algebraical forms, and whether this same theory of limits may not be applied to the establishment of the differential calculus, independently of any expansion. A tract of M. Ampère (as we believe), entitled 'Précis du Calcul Differentiel, &c.,' is the earliest writing we are acquainted with in which this is attempted to be done. A treatise on the subject, in process of publication by the Society for the Diffusion of Useful Knowledge, professes to have the same end in view. The work of M. Cauchy has much in it by which this object is promoted, but expansion is avowedly introduced.

We shall now state two propositions, one geometrical, the other algebraical, in the words of the several systems. Infinitesimals. - An infinitely small are of a circle is

equal to its chord.

Prime and ultimate Ratios .- If an arc of a circle diminish, the ultimate ratio which it bears to its chord is one of equality; or, if it begin to increase from nothing, the prime or nascent ratio of the are and chord is that of equality. Or the are is ultimately equal to its chord.

Flurious. If an are increase from nothing with a uniform velocity, the velocity with which the chord increases is, at the first moment, equal to that of the arc.

Limits.—If the arc of a circle (and therefore its chord)

dimensh without limit, the limit of the ratio of the arc to

the chord is one of equality,

Seculard Analysis, When the are of a circle = 0 are  $\frac{0}{0} = 1$ , which is ascertained by clearing the numerator and denominator of a factor which vanishes when

Theory of Fluctions.—When the arc is expanded in the following series,  $Are = A \times chord + B \times (chord)^2 + &c.$ 

then A = 1.

Infinitesimals.—If an infinitely small increment dx be given to .r, then 2º receives the infinitely small increment

Trime and Ultimate Ratios .- The ratio which any inprement given to x bears to the consequent increment of s" in ultimately that of 1 to 3 x".

Prurions.—If x be a line which increases with a velocity ir, then x increases with the velocity 3 x x.

Limits. - The limit of the ratio obtained by dividing an Increment of x by the increment of x which produced it, on the supposition that the latter increment diminishes without limit, is  $3x^2$ .

Residual Analysis. - Since

$$\frac{y^3-x^3}{y-x}=x^3+xy+y^3$$

o follows that when  $y = x \frac{x^3 - x^3}{x - x} = 3x^4$ .

y of Functions.—If  $(x + h)^s$  be expanded in a powers of h, the coefficient of the first power of h

DIFFERENTIAL COEFFICIENT. The expression to which this term is applied are of a degree of importain the science to which they belong, as great as that of letters of the alphabet in writing. Without entering the method of using them, which would be in efficient a treatise on the differential calculus, we shall no some remarks on the manner of defining and understand the term.

When two magnitudes are so related that either to given the other is also given, it follows that any chi of the other can be found, and the two changes can compared as to magnitude. By this means a rough near to the effect which a change of value one produces in the other. In such articles as CURVAL DIRECTION, VELOCITY, FORCE, &c., it is sufficiently that this rough notion, obtained by making a sec-change in one magnitude and comparing it with that p duced in another, though sufficient for practical purp does not afford any exact and mathematical measure of thing sought for. In each of the articles cited, it is for necessary to diminish the change originally supposed w. out limit, and it is not the actual ratio of two charwhich we have to consider, but the limit to which that i approximates as the changes are diminished without he we must distinctly refer the student to sensible objects an illustration of the cause why it is convenient, and necessary, to have recourse to the *limit of a ratio*. also Limit, Ratios (Prime and Ultimate), and valuaticles cited in Differential Calculus.]

Let  $\phi x$  be a function of x, called  $\phi$ , which when x.

changed into x + h, becomes y + k, so that

$$h = \phi (x + h) - \phi x.$$

Divide k by h, ascertain the limit towards which this tient approximates when h is diminished, and that him what is called the differential coefficient of y with respectively. to x. For instance, let  $y = x^2 + x$ ; then

$$k = (x + h)^{2} + (x + h) - (x^{2} + x)$$
  
=  $2xh + h^{2} + h$ ;

and h divided by h gives 2x + h + 1, which, when h diminished without limit, has for the limit of its decrease. 2x + 1, which is therefore the differential coefficient  $x^2 + x$  with respect to x.

The term differential coefficient arises thus. The me of Leibnitz [Infinitesimal Calculus] proceeds as lows. Imagine x in the preceding expression to be creased by an infinitely small quantity (see article; cited for remarks on this phrase) which call dx, the intential of x. Then the resulting differential of y is

$$dy = (x + dx)^{2} + (x + dx) - (x^{2} + x)$$

$$= (2x + 1) dx + (dx)^{2}$$

Now  $(dx)^2$  is rejected as being an infinitely small particle preceding term, so that (2x + 1) dx is the difference of  $x^2 + x$ . The expression 2x + 1 (which is our ceding result) is here the coefficient of the differenti .' and when a less objectionable method of obtaining it c into use, still retained the name of differential coefficients were exceedingly to be wished that some shorter term c be agreed on for the expression of a result which is so required to be named.

In the method of Leibnitz the differential coefficie. actually dy divided by dr, and it is still expressed  $\frac{dy}{dz}$  in the more modern methods. But this notation r. now be supposed to be obtained as follows. Let the cl.  $x + \Delta x$  be accompanied by that of y...

 $y + \Delta y$ ; then  $\frac{\Delta y}{\Delta x}$  expresses the algebraical ratio of ::. change of y to the change of x. In making the convertence that  $\frac{dy}{dx}$  is to stand for the limit of  $\frac{\Delta y}{\Delta x}$ , obtained from : supposition that  $\Delta x$  diminishes without limit, we corthe first symbol, not as that of an algebraical frac-

but as one whose whole has a meaning, the parts have none. This is the case with all simple symbols, as tinguished from compound symbols: thus in the figure \
standing for five, the two sides of the letter have dependent meaning; while in 4 + 7, each of the !: symbols, 4, +, and 7, has meaning contributing to the: the whole, and at the same time independent of it. The

The region we controlled  $\frac{\partial \phi}{\partial x^n}$  are pointings out that is in  $\phi$  which have form different stock, and with respect to  $x_i$  are do not, in their symmetric properties any independent charge or any analysis.

of imparing.

The advantage of the negation is quartien is the contention report of preserve between the preciseal use of the
accurant of Lections, And that theoretical as arriver of that of
reads. For instance, it is expelly true, according to on
corresponding, that

when 
$$y = \sigma^2 + \sigma$$
,  $\frac{dg}{dr} = yx + 1$ ,

when  $y=x^2+x^2$ ,  $\frac{Ay}{dx}=0.5+1.6$ . This giving Ay and Ay represents meaning, it is not true that Ay=(2.1+1)(2.5-3.6) the latter equation, though never those in Ay. The latter was to relate the properties of the final that it may be made as small as we please. For the present of the cannot thought to be said to be type-firstly ease others for x=0. [Final primes, Karlanters,]. The differential configuration of the presence of the desired configuration of the presence of the third differential results only and  $x_1$  and  $x_2$  and  $x_3$ . Phase of the anginal method of mention were presented with, should be represented by

$$\frac{d_0}{dr} = \frac{g\left(\frac{d_0}{dr}\right)}{dr} = \frac{g\left(\frac{d\left(\frac{d_0}{ds}\right)}{ds}\right)}{dr}, 6cs.$$

but a spinor convenient notation is derived as follows. Let the purcontains of  $x + \Delta x$  for a take given our number of frequency conservation giving

From the same game giving  $\pi$  (a)  $\pi$  (b)  $\pi$  (c)  $\pi$  (d)  $\pi$ 

Aper coefficient) represent the limit of  $\frac{\Delta^2 y}{(\Delta x)_+}$  by  $\frac{dyy}{idxy}$ , we that the function y and its successive differential coefficients are denoted as follows:—  $\frac{dy}{dx} = \frac{d^2y}{dx^2} + \frac{d^2y}{dx^2} + \frac{d^2y}{dx^2} + \mathcal{K} c.$ It is small to unit the lambers z.

$$y = \frac{dy}{dx} + \frac{d^2y}{dx^2} + \frac{d^2y}{dx^2} + \frac{d^2y}{dx^2} + \delta \hat{c},$$

he a second to coult the breekets in the lenominators. IMPERRENTIAL EQUATIONS. [Especimes, Buy-

THYPERENTIAL EQUATIONS. [Experies, Buyseries the ]

DIFFICIENTIAL TWERMOMETER, Re. [Therministral Three streets, Re.]

DIFFICION OF LIGHT. The peculia medificacus who is light melocycly when it passes by the origin of
no opens body are closed as plantomena or the diffraction
of rest awar of legal.

When a ray of unlar light is irrangulard through a very
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degree of firmness to the villi, and its pregress in still farther retarded by the valvalæ connirentes, which act as parthe and the second plant of the second and attail a crow quilt; the
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This section of the field is wholly different from the ter in sea it is no access if putrefiction; but the gas-tic putre in insertice in is to se the putrefying process even if or it is not selected putration. The solution of the food while gastice time as a memberal operation, and the gastric in e is a membrai agent, the exact nature of which is now learly assummed. Stallanzan, discovered that the gastric place is in the feel nature. Some years ago Dr. Prout ascitaned and this acid is the murlance. Dr. Prout's expeminers were repeated by some distinguished chemists in I ame with informat results; but the accuracy of Dr. Points sentilistins was afterwards confirmed by the experiments a Heskemann and Gmehn, and they have received ilisa cindirmation by the more recent experiments of Brace must and Biendelet, so that it may be now considered as es not shed that the agent by which the solution of the i in the stemach is effected is muriatic acid or chlorine It meat and mastric juice be enclosed in a glass tube, and kept at the temperature of the human body, a product is or amed clescly resembling the fluid formed by the solution ... the front in the stemach. If meat be enclosed in a glass the word direct mariante held, and kept at the temperature or he blood, a periletly similar product is obtained.

The marm is acid constituting the essential ingredient of the gistric juice is conceived to be derived by an act of secreta a from common sale, marmite of soda, contained in the mood. The alkalit, the base of the salt, is retained in the local to main aim the alkaline conduct a essential to its hear is obscitted, with the acid is liberated and poured, in the form of gastric tuice, into the stemach to accomplish

the solution of the level.

A or he hold has undergone the action of the gastric vice, it ieses as sensible properties, and is converted into the homogeneous semi-duid mass which has received the name of covine. Severic is ferences are distinguishable in covine, according as the food from which it is formed has consisted a vectorible or animal matter, and according as it has on anical any or only substance, or has been destitute or him. I shall a however it consists of a pultaceous mass, or the vector beauty it has a sweetish taste, and is slightly that I be on a soon common to it from whatever kind of a play how been predicted, and therefore distinctive

the chyme accumulates in the chyme accumulates in the second very local much. When the accumulation were to a second examine, the pylorus relaxes, and the second relaxes, and the second relaxes the duodenum. Here it is side a second relaxes the duodenum. Here it is side a second relaxes with the pancreatic with the panereatic second with a consecond relative with the panereatic second with a consecond relative the slowly and at intervals, the consecond relative the meripholograms surface. On support and who the covere the bile imparts to it its product of a consecond butterness. But in a short make performent change takes place in the chyme. It

where the first is the nutritive part of the food, which is the first is the nutritive part of the food, which is the first exemplations portion. If flat or oil, we the formed part of an opaque white colour; if not, a contract the chale is of an opaque white colour; if not, a contract to chale is of an opaque white colour; if not, a contract to chale is and colour, is contract, is

As he together with the excrementitions portion of the dom's transmitted along the small intestines.

The dom's transmitted along the small intestines.

The of the chiefe is rendered slow, partly by its property in consequence of which it adheres with some

ther retarded by the valvulæ conniventes, which act as the tial valves. [Intestines, Small.] In its course thr the small intestines the chyle gradually disappears, to absorbed by the lacteal vessels, so called from the milking fluid they contain. The lacteals commence by open mon the surface of the villi. [LACTEALS.] Loaded when the lacteals penetrate the coats of the intesting.; between the layers of the mesentery [MESENTERY] enter the first order of mesenteric glands. In the usteric glands the lacteals unite freely with each other. become exceedingly convoluted. On emerging from t. glands the lacteals pass, still between the layers of the sentery, on to the second order of mesenteric glands . they enter, and in which they present the same convolappearance as in the first order. On emerging from second order of mesenteric glands, the lacteals pass the receptacle of the chyle, which forms the commence :: of the thoracic duct. [Thoracic Duct.] In the recepof the chyle terminates another system of absorbent vess termed lymphatics, from the colourless and pellucid !' called lymph, which they contain. From the receptar. the chyle, the chyle and lymph commingled flow in . thoracic duct, by which tube they are transmitted the the abdomen and thorax to the left subclavian vein. w they are mixed with venous blood. Together with the L. contained in this great vein, the chyle and lymph are

by a direct and short course to the lungs.

The result of the successive changes thus wrought the food by these progressive steps of the digestive project is to approximate the crude aliment more and more recto the chemical condition of the blood. 'This is actly like a property by the gastric and intestinal juices, and published partly by the gastric and intestinal juices, and published partly by the gastric and intestinal juices, and published partly by the gastric and intestinal juices, and published partly by the gastric and siliary animalization of the salivary secretion mixed with the food during in cation; the pancreatic and biliary secretions mixed the food during the conversion of chyme into chyle; mesenteric secretions mixed with the elaborated chyle the mesenteric glands; and, lastly, organized part, which have already formed a part of the living structure, the body, mixed with the chyle under the form of lymp.

the thoracic duct.'

In the stomach, by the agency of the gastric juice a superfluity of water is chemically combined with the ginal element of the nutritive matter contained in the by which the solution of the food is effected. This Dr. P. terms a reducing process, because, by its combination v. water, the nutritive element is reduced to a weaker -: This element Dr. Prout conceives to be albumen, alth. he states that he has been unable to detect true alb ... in the stomach when none has been present in the in the stomach when none has been present in the in Though the proportions, he says, of the different in dients of the chyle, as ultimately formed, are liable the much varied, according to the nature of the food, yet with the children of the children ever the nature of the food may be, the general competent stomach must therefore be endowed with a power or fac... the agency of which is to secure the uniform composition. the chyle by appropriate action upon such materials as cumstances may bring within its reach. For indeed a chief materials from which chyle is formed, namely. albuminous and oleaginous principles, may be considered already fitted for the purposes of the animal economy, we out undergoing any essential change in their compession But the saccharine class of aliments, which form a v large part of the food of all animals (except of those . . sisting entirely on flesh), are by no means adapted for suspeedy assimilation. Indeed, one or more essential channels must take place in saccharine aliments previously to i. conversion either into the albuminous or into the clea :... principles. Most probably, under ordinary circumsta: these essential changes are altogether chemical, that .say, they are such as do take place, or rather would take place, if the elements of the substances thus changed in . stomach could, out of the body, be so collocated as to 1. into action the oppositions necessary to produce these chairs. Thus the saccharine principle apontaneously becomes us hol, which is merely an oleaginous body of a weak k:. When therefore in the stomach it is requisite that sugar . . converted into oil, it is probable that the sugar passes through precisely the same series of changes it under out of the body, during its conversion into alcohol.

Found from the conversion of soon more allement, because on any local horizontal fine of the publication of Alemann of each regulation and of the laws which regulates the charges of these two statements.

If the induced out of charges of the symmetric global statements of the interest in the charges of the symmetry for the statement of the interest in the force flat statement of the interest in the force flat statement of the interest in the force flat statement of the interest in the inte The size office of the large intestinae into which only a set small partial of sizes in the sizes in the sizes the which offer of a small partial of sixes duty prepare the respective of a proper to the particle of a size to the particle of a size to the sizes of the prepared of a set by which when duty prepared, it is surpress? I make that the control of a size of the particle of the sizes of the transition of a size of the particle of the sizes of the transition of a size of the particle of the sizes of the particle of the sizes of the particle of the sizes of the sizes of the phreometry, will be refind in the space of the sizes of the phreometry, will be refind in the space of the sizes of the phreometry, will be refind in the space of sizes of the sizes of sizes of the si

2. A Letter on Paralleo, persivel in Der's Paralleoriese Communications, powering of the farm quishing, are, 1979.

3. An Arithmetical Military Treation, constraints as unusual of arithmetic as it are essay covered military manipulation.

in long racemes, are either yellow, purple or brown, and generally showy; the leaves alternate upon a round herbaceous stem.

Several species are known, the most complete account of which is in Lindley's 'Digitalium Monographia;' it is however probable that some of the so-called species in that work are mere varieties or hybrids. D. lutea is a common plant in the woods of France and Germany. D. ochroleucu and grandiflora are met with rather more to the eastward; while D. ferruginea and its allies, with short roundish rustcoloured flowers, occur not unfrequently in the south-eastern

parts of Europe and in Asia.

Over all the west of Europe, but not in Asia, is found abundantly, especially in England and France, the D. purpurea, a very handsome species, with large purple or white flowers, to which the name of foxglove is popularly applied. It is a biennial, with oblong, stalked, scalloped, wrinkled leaves, grey with hairs, and a stem about two feet high, also covered with a close soft nap. The purple or white pendulous flowers are above an inch and a half long, and are arranged in one-sided racemes; in the inside of their corolla, on the lower lip, they are bearded with long hairs, and gaily spotted with blackish purple specks. There are four didynamous stamens shorter than the corolla, with large smooth anthers two-lobed at the base.

The energetic, stimulating, acrid, narcotic properties of this plant have caused it to be extensively employed me-

DIGITA'LIS PURPU'REA, fox-glove, a biennial plant, of which the leaves and seeds are used. The leaves are sometimes accidentally confounded with those of different species of verbascum, and of the conyza squarrosa. The most powerful leaves are those procured from plants growing on the sunny sides of hills. They must be carefully dried, and protected from damp. The active principle appears to reside in an extractive substance, which by careful evapora-tion may be crystalized, and to which the name of Digita-line has been given. This principle is soluble in water, in alcohol, and possibly in sether. It is very poisonous. One grain dissolved in a little water killed a rabbit in a very short time. Digitalis is given in powder, made into pills or in an alcoholic tincture. Diversity of opinion exists respecting its primary action on the system, some writers considering it as primarily a stimulant, and the sedative effect a consequence of the previous excitement; others regarding it as a direct sedative. It is most likely that it acts in both ways according to the dose, and frequency of administration. If a small dose be given, and repeated at short intervals, a stimulant action will be most obvious, followed at a considerable interval by a sedative effect. on the other hand a large dose be given at first, the sedative action is immediately displayed. The effect varies also with the position of the person, being different according as

he is standing, sitting, or reclining.

Digitalis is the most perfect example known of a cumulative poison, as it may be used for some time, if the doses be small, without producing any manifest effect for several days, when suddenly faintness, intermittent pulse, giddiness, and other alarming symptoms appear. These are best combated by vital stimulants, such as warm brandy

and water.

Digitalis has the power of reducing in a remarkable degree the heart's action, bringing down the pulse from 120 or more to 50 or 40 beats in a minute, and causing it to become at the same time intermittent. On this power depends its medical value in some discases. It is remarkable however that while it thus lowers arterial action, it excites the absorbents and the kidneys to increased action, and so proves a valuable diuretic in dropsy and some other diseases. It is most useful in organic affections of the heart, and in the latter stages of some inflammatory affections, such as pneumonia, in phthisis pulmonalis, chronic peri-tonitis, and irritative or nervous fever. In the inflammatory or turgescent stage of hydrocephalus acutus, along with calomel, Golis states it to be very valuable.

As a diuretic, it is, like most medicines of that class, uncertain in its effects: it seldom answers if much inflammatory action exist when it is exhibited. To render it more certain it is generally given along with calomel, and squils, or some other diuretic.

DIGITIGRADES. [CARNIVORA, vol. v., p. 307.]
DIGNE. [Alpes, Basses.]
DIGNITIES. [Titles of Honour.]

DIGY'NIA, a systematic name given by Linns. . artificial system, to such plants as have two sixte

single style deeply cleft into two parts.

DIJON, in France, capital of the department of d'Or, on the north-east bank of the river Ouche, a trof the Saône: 162 miles in a direct line south-cast. Paris, and 183 miles by the road through Provens, A sur Seine, Troyes, Bar sur Seine, and Chaullon sur Seine 47° 19' N. lat. and 5° 2' E. long.

Dijon existed, during the Roman dominion, under name of Dibio or Divio. An antient legend, attested by 6. gory of Tours, relates that the Emperor Aurelian In . . . Dibio a considerable fortress: other legends seem to found Aurelian with Marcus Aurelius, who lived a ... tury before. From the dominion of the Romans D passed, in the fifth century, under that of the Burgue. [BURGUNDIANS], and subsequently of the Franks. 1. the Carlovingian princes, Dijon was a lordship of the b... of Langres, who often resided here; and in the nin:h. tury was under counts of its own, who held it of the b ... as suzerains. In the eleventh century the lordship of D was united to the duchy of Bourgogne. [Bourgogne the twelfth century the dukes caused the city to be no after it had been burned down, and subsequently bester upon it a municipal constitution. In the fourteenth c tury new walls were erected, inclosing the Roman town. the greater part of the suburbs. Under the dukes of B gogne, of the first race, Dijon was erected into a visco. but this came to an end A.D. 1276: and the rights of viscounts were subsequently bestowed on the mun.cr. and citizens. The dukes of Bourgogne, both of the fire: second races, usually resided here: and when Louis Al France took possession of Bourgogne, and established parlement, or provincial tribunal, he fixed its sittings ... this town.

The town is situated in a plain bounded on the west the hills which connect the Cevennes and the mountains Forez with the heights of Langres and the Vosges. The S. flows south east and southward through this plain, and the Ouche under the walls of Dijon; at Val de Suzo few miles from Dijon, it is a tolerably copious stream, wat Dijon it is frequently dry. The streets of Dijon are n gularly laid out, but they are clean and cheerful. The hor which are of freestone, are only of one or two stories. U: public buildings the office of the prefect and the former pa or hall of the states of Bourgogne are the most worthy .: tice: the latter contains a museum of painting and sculp ... antiquities, and subjects of natural history, and a ister of 40,000 volumes; behind it is an old tower used as an servatory. In front of the palace of the states is the 'Para Royale,' an open space, surrounded by houses. There are no fountains in Dijon. The church of St. Benigne, the results of the control of the states is the 'Para Royale,' an open space, surrounded by houses. sent cathedral, is a gothic edifice, the spire of which similable for its height (nearly 300 feet) and the lightness. its architecture; the interior of the church contains some: marble tombs. The church of Notre Dame, the for: cathedral, is also in the gothic style. The church of L-Orphelins-Sainte Anne' is an elegant modern structure mounted by a fine dome. The Chartreuse, or Cartl. monastery, which was outside the walls of the city ei. road to Semur, and was adorned by the sumptuous tom -the dukes of Bourgogne, has been demolished: some mains of these tombs have been preserved in the mu-There is a theatre, erected within a few years. An an ... castle, flanked with immense towers, is said to rexisted during the kingdom of the Burgundians. .... may be of yet higher antiquity, if we may identify it is the Roman walls which Expilly describes as remain nhis time (A.D. 1763). The ramparts of the town are up, and are planted nearly all round with fine trees. The remain of the trees. are walks planted with trees round the town in its p extent, including the suburbs, which form a second coof promenades; and there are other promenades, in care which (l'Arquebuse) is an immense poplar, 25 or 26 fc : circumference. (Vaysse de Villiers.) There are baths a mineral spring.

The population of Dijon amounted in 1832 to 25,332 to the town, or 25,552 for the whole commune: this num very nearly coincides with the estimated population g.v. Expilly in 1763. The manufactures of Dijon inclu. siery, blankets, coloured woollen-yarn, cotton-yarn, covelvets, printed calicoes, muslins, linen, leather, hats, gar, mustard, which last is in high repute with epicures.

Dijon has long been ancipout for the cultivation of scores and literature. It is the sent of an accidence universation, comprehending facilities of law, sciences, and literature. There are sion a college or high school, a semi-more for the priestland, a school of the fire arts, a school of drawing, and a assumblery scient of medicine: courses of instruction are delivered on geometry and mechanics applied to the arts, and an obtany. There are academies of suspenses, hallow betters, and acts; and a society of juris-producer, also a bounds garden. Dijon has produced a nonther of content non, as Bossiot, Larchor, Guyton-Maryena, Daulemian, Croballon, and Piron, Two of the latter of Bosrgogue, Jean cans. Peur and Philippe la Ban, and bond here.

The lands-pire of Dipus was established in 1711; the discore was domembored from that of Langres, with the stantion of a few perioduc from the docess of Autum. At present it comprehends the department of Côte d'Or. The hishop is a suffragan of the archbishop of Lyon and Verne

John is the seat of a 'Cour Royale,' the jurisdiction of blich comprehends the departments of Côte d'Oc, Haute Iurae, and Saône and Leire, which have an argregate opolation of 1.140,074; there is also a 'Tribunal de Conserce'. It is the head-quarters of the eighteenth military types, which comprehends the departments of Aule, its d'Or. Haute Marne, Saône and Laire, and Yames the arrandissement of Dijon had, in 1802, a pulation of 35,485.

The arrandiscement of Dijon had, in 1652, a pulation of 155.445.

DILAPIDATIONS. In its logal sense, this term is consulted to the pulling down or destroying, in any manner, ony of the house or buildings belonging to an exclusivitial behavior or suffering them is run into ruin or desay, or washing or de trocking them as run into ruin or decay, or washing or de trocking the woods of the church, or suffering they willing state in our upon the substriance of the church. As instrument is bound to keep the buildings in repair, restoring and rebuilding where the energy exceeding to the original body, without william or an deer improvement, but he is not bound to supply as postunin anything to the nature of amounts, such as postuling confers necessary to preserve e-pend finds as from decay, whitewashing, and papering. In alternative, or had not his principle the surressor may have along a called on this principle the surressor may have a bound of each, against his executors.

The ruch to demand on this predecessor, or, if he he dead, against his executors.

The ruch to demand of disposal one, as between other product, or successed either by the laws relating to waste and repairs, in hy special embrack.

If ATATION. (Expansion)

Diff, an around on midelihismore plant, whose fruit is supplyed, malestonly as a neutral exeminative. It is a Special beautiful, and a called doubton grandeless by between

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starch; there are many between Considerable trade is carried on a year, who, and was comblet. There is a moreovy for multi-per trace. Dipper invalid manufactor trade of the posetion of coveral roads; the cannot de Bourgones, which makes the Yearns with the Sains and that of the posetion between the basis of the Sains and that of the Rhome, passes along the calloy of the Course, close to the Robins, passes along the rolley of the Course, close to the favor.

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A flowering abiest of Hilbertin scientifier 5, the onlys and surprise with the strategy only remaining; the other elements and every to show the surprise in the rento of the flower, 3, the eye fair.

DILON. [Roscomion, Long.]

DILON. [Roscomion, Long.]

DILUENTS comprise these liquids which are used to dilute the fluids of the human body, and thosely modify their nature. They are employed when the sucretions are too viscial, or the contents of the stomach, of the imperious, or any of the glands are too used, and also when the head of the body, as indicated by third, A.o. is too great, and causes a feeling of unexamess. They manifest their beneficial effects must quickly when the contents of the stomach or upper part of the intestines require to be diluted, as in the case of many poisons; but they also reach the hidrius or sken in a very short time after their introduction into the system, and remain less acronomious the secretions of those organs. Their utility in allaying the thirst of patients well known, and from such patients they ought never to be withheld, as they seem at one time when erronsoms mitimes in the subject prevailed, as they not only mitigate the sufferings of the invalid, but raten determine to the skin, and cause a critical perspiration. It is equally crust and injurious to withheld dranks of a mild kind from dropaical subjects, though they require to be used by such persons in greator incderation.

Water is the simplest and often the best dilutent, but it may be rendered more agreeable in some cases by being made into teastwater, or by having acids or other substances added to it. Whey or butterstuils are also agreeable in many cases. The exceptibility are also agreeable of a stropholous constitution do not prosper so well on a fluid as on a dry diet; they should therefore be allowed liquids in a very moderal degree, especially towards ovening.

DIMENSION (algebra), a term which a used in the

ovening.
DIMENSION (algebra), a term which is used in the same sense as neares. Thus x²y is of three dimensions or of the third degree. In geometry, length is of one dimension, surface of two, and solidly of three. Thus geometry of three dimensions meens solid geometry.
DIMYA'HIA. [Concurrant, vol. viii, p. 431.]
DINAGRPORE, a district of Bengal, lying between 25°

and 27° N. lat., and between 88° and 89° E. long., bounded on the north by Rungpore and Purneah, on the east by the liver. Rungpore and Mymunsingh, on the south by Mymunsingh and Rajishahy, and on the west by Purneah and Boglipore. The form of the district is triangular, the base being to the south; its greatest length from south to north is 105 miles. and its extreme breadth from east to west is 82 miles. A survey was made of the district in 1808 by Dr. Francis Buchanan, and its area was then found to comprise 5374 quare miles, made up as follows:

Rivers, tanks, water-courses, and marshes Lands inundated during the rainy seasons 381 Red Clay 38 . 2441 Light coloured clay 2161 Free soil 5374

The principal rivers by which the district is intersected are the Teesta, the Mahananda, and the Korotoya. During the rainy season, which usually sets in about the middle of June, and lasts for four months, these and many smaller tributary streams admit the passage of boats to almost every

village in the district.

The surface of the country is undulating, but the greatest inequality of surface does not exceed 100 feet. The soil is generally light, and the principal cultivation being rice, the success of the harvest depends mainly upon the quantity of rain. Hemp, sugar, indigo, and a small quantity of cotton, are also cultivated, the first in order to prepare from its buds and leaves an intoxicating drug: several other fibrous plants are cultivated for the purpose of making cordage. The horses and oxen bred in Dinagepore are of very poor The horses and oxen bred in Dinagepore are of very poor degenerate kinds; the former, which are not larger than ponies, may be bought at various prices from 2 to 6 rupees (4s. to 12s.) each. Tigers, bears, wild-buffaloes, and wild-hogs are very troublesome to the cultivators of land; the buffaloes and hogs run about in large bards and committee. buffaloes and hogs run about in large herds, and commit great havoc in the fields. Otters are also very numerous, as well as the common porcupine. Wild water-fowl of various kinds are also seen in large flocks; the common wild-goose is most abundant, and is considered good eating. The natives also eat some kinds of lizards; but the chief part of the animal food consumed in this district consists of fish, which is so abundant that during the periodical inundation of the rice fields great numbers of small fishes are taken in them, and on the subsidence of the water many are left behind in the mud, and are taken wi any trouble.

The principal towns are Dinagepore, the capital; Malda Gour; and Raygunge; besides which the district contains a great number of villages. The whole population of Dinagepore was estimated by Dr. Buchanan in 1808 at 3,000,000: since that time it is believed that the numbers have somewhat increased. About seven-tenths of the inhabitants are Mohammedans, and the remaining three-

tenths Hindus.

The district was formerly much infested by Dacoits or gang-robbers, but owing to the vigorous measures adopted by the English government in 1814 the evil was greatly checked, and has since entirely ceased.

Dinagepore, the capital of the district, is situated in 250 37' N. lat., and 88° 43' E. long., about 100 miles N.N.E. from Morshedabad. The houses, computed at about 5000 in number, are mostly of a mean description, little better than huts; a few dwellings of European residents are large and commodious, but without any architectural beauty.

The population of the town is computed at 30,000. (Buchanan's Statistical Survey; Report of Committees of House of Commons, 1832.)

DINAN, a town in France, in the department of Côte du Nord, on the slope of a hill on the left bank of the river Rance, a few miles above the mouth, 199 miles west, or west by south, from Paris in a strait line, or 220 miles by the road through Dreux, Alençon, Mayenne, Fougères, and Dol; in 48° 27' N. lat., and 2° 4' W. long. Dinan was in the middle ages the occasional residence of the dukes of Bretagne, who had here a castle, which still remains: antient ramparts of the town are standing, and are of vast height and thickness. The church contains the heart of the Constable du Guesclin. There are extensive and plea-sant public walks and a concert-room. In a valley, a short

The population of Dinan, in 1832, was 8044: the inhiants are engaged in an extensive trade in cider, beer, have flax, honey, wax, butter, tallow, skins, cattle, and her. There are salt-works, and manufactures of linen year. linen, cotton, flannel, shoes, and hats. The river is na gable, at high water, for boats of a considerable size u. Dinan; and the canal of the Ille and the Rance joins. river just above the town, opening a water communication with Rennes and the interior of Bretagne. The countries round is fertile in corn and flax.

This town is the capital of an arrondissement which c --

tained, in 1832, a population of 111,739.

DINANT, a very old town in the province of Nat. .: about 12 miles south of the city of Namur, in 50° 15' N. . . . and 4° 54′ E. long. It is situated on the right bank of : Maas on a narrow strip between that river and a high r : Part of it is on some islands in the Maas. The summ: this rock is defended by a strong fort. The popular: amounted in 1830 to 4337. The town contains several : refination for the strong fort of the strong fort. refineries, four mills for sawing marble, some quarra-which are worked in the neighbourhood, several grist n paper-mills, breweries, and tanneries. Dinant form-contained many extensive coppersmiths' works, but branch of industry has almost entirely disappeared. siderable quantity of gingerbread is made in the town sent to different parts of the kingdom.

Dinant is conjectured to have taken its name from temple dedicated to Diana, which once stood on the single from the possessions of Bishoprick of Liege. In 870 it came into the possess. Charles the Bald. In the 12th century the town was: fled and considered a place of great strength. In 1. Dinant was taken by the army under Philip the Good. given up to pillage during three days. On this occa-800 of the inhabitants were tied back to back and the into the Maas, and their houses were burnt. In 153. " town was taken and pillaged by the French, and again 1575 after a siege of eight days. At the treaty of Ryor, it was restored to the Bishop of Liege, but was again to by the French in the war of the revolution, and constitute the state of the revolution. the chief place of an arrondissement in the department the Sambre and Meuse. It was occupied by the allies 1813. Dinant is on the high road between Namur Givet. (Van der Maelen's Dictionnaire Géographique at province de Namur.)

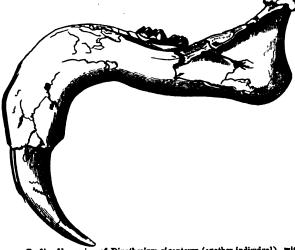
DINARCHUS, (Δείναρχος), one of the ten Greek orange of the explanation of whose orations Harpocration of piled his lexicon. Dinarchus was a Corinthian by the who settled in Athens and became intimate with Transfer phrastus and Demetrius the Phalerian, a circums': which combined with others enables us to determine his with tolerable precision. Dionysius of Halicarnassus it his birth about the archonship of Nicophemus, B.C. The time of his highest reputation was after the death Alexander, when Demosthenes and other great orators we dead or banished. He seems to have got his living writing speeches for those who were in want of them. ancarried on apparently a profitable business this way. At the garrison which Cassander had placed in Munychia t been driven out by Antigonus and Demetrius [ATF: p. 18] in the archonship of Anaxierates, B.C. 307. Dinard by though a foreigner, being involved in a charge of conspir against the democracy, and having always been attato the aristocratical party, and perhaps also fearing that wealth might be a temptation to his enemies, withdraw Chalcis in Eubosa. Demetrius afterwards allowed him: return to Athens with other exiles, in the archorsh.p. Philippus, B.C. 292, after an absence of fifteen years. his return Dinarchus, who had brought all his money ? with him, lodged with one Proxenus, an Atherona friend of his, who, however, if the story is true, prove be a knave and robbed the old man of his money. or least colluded with the thieves. Dinarchus bronzast action against him, and for the first time in his lite m his appearance in a court of justice. The charge nga Proxenus, which is drawn up with a kind of legal form is preserved by Dionysius of Halicarnassus. Of the many the and thickness. The church contains the heart of Constable du Guesclin. There are extensive and pleapublic walks and a concert-room. In a valley, a short more north of the town, are the chalybeate waters of THERES. Dionysius has taken great pains to distingt.

The spanitous from the parameter existions of Dimerchan. In spanitous mathem to a communicate 25 spatious continues not be spanith states. The state of the spanitous mathem to a communicate of the spanitous mathematics. The spanitous mathematics is not spanitum to the s

The laws has an antique appearance. Some of the old to the first form a top day the filler of the fluoristic for



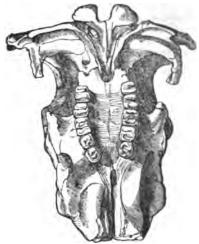
Profile of the skull of Dinotherium granteum. The dotted line the edge of the coronoid process of left lower jaw, through the ramus of the last molar tooth and a portion of the last but one are supposed seen. The zygomatic arch is fractured and the intermediate portion of



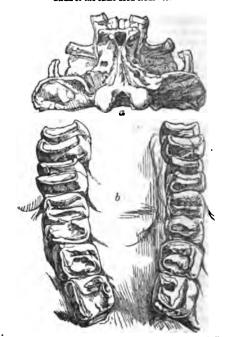
Profile of lower jaw of Dinotherium giganteum (another individual) with the coronoid process gone, and only two teeth in sight. The length of this, including the tusk, is nearly four feet.



Skull of Dinothernum grganteum seen from above.



Skull of the same seen from below



Portions of the skull of the same; a, posterior part of the skull sees below, showing the occipital condyle and foramen, &c. &c.; b, rod month and molar teeth; the interval between the rows widening from a backwards.

second, or miocene system of tertiary deposits, contains admixture of the extinct genera of lacustrine mamma admixture of the extinct genera of lacustrine mamma of the first or eocene series, with the earliest forms genera which exist at the present time. This admixed he adds, was first noticed by M. Desnoyers, in the material of the Faluns of Touraine, where the remainstrations of the Faluns of Touraine, where the remainstration of the Tapir, Mastodon, Rhimmandelpopotamus, and Horse. These bones are fractured in rolled, and sometimes covered with flustra, thus giving rolled, and sometimes covered with flustra, thus giving dication of having been derived from carcases drifted an estuary or sea. Similar admixtures, continues Buckland, have been found in Bavaria and near Darms's and many of these animals also indicate a lacustrice swampy condition of the regions they inhabited. Ore swampy condition of the regions they inhabited. Ore them (Dinotherium giganteum) is stated to have attained eighteen feet in length and to have been the largest of terrestrial mammalia yet discovered, exceeding even all largest fossil elephant.

In this view of the subject, it becomes of important to see what were the remains which were found in strata of sand at Epplesheim near Altzey, about two leagues south of Mayence, in company with those of the Dinotherium

DIN

On Kaup on his / Description d'onserners franks (Europe ; tion of the reasons and the deep depress in these yields all, 1932), gree the following number of species—Direct will, attitude the denorate he very tempolable; and we find report \$1 Direct \$2; Bryon \$2; Bryon than teng spaces, Challed his Topics \$2; Bryon than teng spaces, Challed in His Performance of the consoliration of the consoliration of the consoliration of the report state of the superior forms of the forms of an good deal resembling that of the report.

The Kaup on has / Danaspiran d'onsement festiles (Harm-thotz, 1932), proc the following number of age-on — Dong American Statistics of Martcheny 1.7 (Ingraheserous in Thetambother, allied to Martcheny 1.7 (Ingraheserous in Thetambother, 1.2 (Ingraheserous in



(Restauration of Displacement piges terms.)

Dr. Buckland, in the supplementary notes to his account adition, has the following notice, with a reference to p. 14th.

'The Dinotheroum has been spoken of as the bargeau of forcestical assumials, and as presenting in its hower law and tooks a dispessition of an extraordinary kind, adapted to the prealiar habits of a gignatic isobrevaous squate quodruped.' The Dr. then albules to the entire head found in 18th, and thus precede the Profuser Komp and Dr. Klipston have recently published a description and figures of this boad, in which they state that the very remarkable form and dispositions of the limiter part of the abadi stand it to have been connected with measters of catrosolinary power; is give that kind of movement to the head ontell would admit of the peculiar action of the tooks in disposition and terring up the earth. They forther observe that my emperatures (p. 136) respecting the operate habits of this animal are confirmed by approximations or the form of the coepital bone in the coriput of Coloren; the Dano therium, in this structure, affording a new and important link between the Coloren and the Packyder and.' Dr. Buckland, in this see and elition, gives a mpy of the goals of the entire head and of the restoration.

This head has been exhibited at Paris, and secons in have excited great interest among the Franch scologests; for we find in the 'Journal des Debart' of the 2-th of March in the protesta year (1877) that at the sitting of the Académie Royale dos Sciences de Paris on the day before, M. de Blanville rand a note detailing his particular rises of the position which the animal held in the minual series—view which it is there stated, were adequed but by M. Durafrid and M. Isalore Geoffron Saint-Hillaire. These views are detailed in 'L.Trestitut' of the 2-that of March; and the outpet is so interesting that we here present them in the Promiter in so interesting, that we here present them in the Promiter is of the order or of the degree of organization maned by the last-mentioned zoologist Grus

these last, which entirely resemble small tusks; only they are implanted at the extremity of the lower jaw, and are directed downwards. Whether or no there existed a pair of incisors in the upper jaw, is an uncertain point, the two extremities of this jaw, which have been found, being more or less truncated. It may, however, be inferred, from the enlarged and thick form of a fragment found some years ago, that it is possible that the animal might have had upper incisors, but smaller than those below: perhaps only

'As to the form of the head and its parts, it corroborates what the dental system had established. In fact, the occipital condyles are entirely terminal, or in the direction of the longitudinal axis of the head, as in the lamantins and the cetaceous edentata, modified for existence in the water. The occipital surface is large, subvertical, and even inclined from before, backwards, with a profound mesial depression, for the insertion either of a very strong cervical ligament or powerful muscles for the elevation of the head, and the basilary part of the skull is narrow in its component parts, while the syncipitofrontal region is, on the contrary, very flat, very wide, as in the lamantins and dugongs, over-plumbing the temporal fossa, which is extremely wide and extremely deep, indicating enormous levator muscles for the lower jaw, not only for the purpose of mastication, but adapted besides for the particular action of that jaw, with its rake-like incisor teeth. This disposition of the temporal fossa is perfectly in harmony with the zygomatic arch, which is wide, thick, robust, and complete, as far as may be inferred from the portion which is broken, but which never-theless offers the articulating surface of the corresponding bone, exactly as in the lamantins: perhaps, however, without the great enlargement which may be remarked at the jugal apophysis of the temporal bone in the latter. orbit is, as in the animals last named, very small and late-The ral, but very largely open in the zygomatic fossa. auditory aperture is small, narrow, and rather oblique from below upwards. The face is wide and flattened, prolonged and enlarged a little, as in the Cetacea, anteriorly. It presents in its middle a very large aperture, the composition of which it has not been possible to study on account of the position of the head, which is upside-down, but which aperture, though evidently wider and greater than that of the dugong, has evidently the greatest analogy to what exists in that animal. The posterior orifice of the nasal cavity is, on the contrary, very narrow. The sub-orbital hole is very considerable, but even less, perhaps, than it is in the dugong. With regard to the lower jaw, that again exhibits the greatest analogy to that of the dugong, from the manner in which its branches are curved downwards towards the anterior third part of their length; only, that of the dinotherium being armed at its recurved extremity with a tusk, the ascending ramus offers, in its width and its condyle, which is as transverse as in the carnivora, a concordant disposition; so that the only motions permitted should be those of elevation and depression, as in those animals. The ethmoid surface of the temporal bone, also, is, as it were, a portion of a hollow transverse cylinder, with an apophysary lamina, having an extremely strong ridge— "une lame apophysaire.d'arrêt extrêmement forte." "With this element (says M. de Blainville) we may regard it as nearly beyond doubt that the Dinotherium was an animal of the family of the Lamantins, or Aquatic Gravigrades, its proper position being at the head of the family, preceding the Dugong, and consequently preceded by the Tetracaulodon, which ought to terminate the family of the Elephants. In a word, the animal, in our opinion, was a Dugong with tusk-incisors. We must, then, suppose that it had only one pair of anterior limbs, with five toes on each. As to the supposition that the animal was provided with a trunk, which might be presumed from the great nasal opening, the enlarged surfaces which surround it, and the size of the suborbital nerve, as far as it may be judged of from the size of the suborbital hole, we believe that that is at least doubtful, and that it is more probable that these dispositions bear relation to a considerable develop-ment of the upper lip and the necessary modification of the nostrils in an aquatic animal, as is equally the case in the dugong. We think even that the upper lip, by its immense development, embraced the lower one, and thus hid even the base of the tusks, and that the lower one was sufficiently small, as may be presumed from the clun-holes (trous mentonniers). After this, it is easy to

perceive that, of the two principal opinions which have been broached and discussed concerning this singular armal, we are much further from considering it a great arcies of *Edentata*, near the sloths, with Dr. Kaup, than it considering it as a tapir, as G. Cuvier did, from an exercination of the molar teeth, the only parts then known. It fact, there is in our opinion much less distance, in the natural method, between a dugong and a tapir, than tween a dugong and a sloth." In this note M. de Blaire has not taken into consideration that the head of the fact. has not taken into consideration that the head of the IA therium, as well as a phalanx which was found in the locality, are referred by Professor Kaup to the same and but M. de Blainville does not believe that this philipreally belonged to the Dinotherium. "In fact (says it... M. Lartet found with these same phalanges a portson 🥨 .

tooth, which evidently indicates a great pangolin."
At the end of the reading, M. Dumeril rose to confirm the views of M. de Blainville. He insisted particularly and the transportation of the reading of the transportation of the transportatio the transversal form and great extent of the condyle of L. lower jaw and of the articular fossa destined to receive ... He much regretted the loss of the zygomatic arch. t: bases of which only remain on the jugal and temp... bones. "The curvatures of this arch," said he, "whave given ideas of the volume and force of the manand temporal muscles, which must have been considera-It would be important to know them to compare them v those of the Lamantin on one side, and on the other w the Megatherium, whose skeleton is at Madrid. W the Dinotherium, they are certainly analogous to those the Sloths; but in the Lamantin, the ungual phase which is in fact a double pulley with a mesial project ... the base, offers at its other extremity a single point w. sort of hood (capuchon) below: that is to say, inverse that which is found in the great species of cats (Felion, every different from those of the Sloths and the Ant-cu'

In this statement there is one position that is rather ... gering; and, indeed, we cannot but think it probable... M. de Blainville has not been quite accurately reproduced in made to observe that the articulation of the jaw is such that the only motions permitted should those of elevation and depression, as in the Curw.

Now that with true grinding teeth, like those of the Letherium, the jaws should be limited to the motions of claim and depression, so admirably fitted for works: cutting edges of the scissor-teeth of the Carmer almost inconceivable. We shall wait with some ans for the arrival of the head in this country, when we ex be able to ascertain whether there be not a convex em.:..: anterior to the transverse depression or glenoid cavity 1 the condyle, indicative of a horizontal motion of the backwards and forwards, a mode of operation which w be well adapted to the transverse ridges of enamel on the molar teeth of Dinotherium. Without venturing to any opinion as to the true position of this interesting zenin the animal series till an opportunity has been aff.: of examining the skull itself, we may be permitted to serve, that the evidence on which M. de Blainville is said to have rested for the cetaceous character of Din Arian appears to us to be rather meagre, and hardly sufficient a arrant the conclusion.

DI'OCESE, (διοίκησις, dioikésis, literally 'administrata: in the time of Constantine and afterwards was used to se signate one of the civil divisions of the empire, but it as a s used only in reference to ecclesiastical affairs. A disease a a district over which the authority of a bishop extenda 1:

is equivalent to Bishoprick.

Since the articles Bishop and Bishopaick were written. a change has taken place in the diocesan divisions of E 🛫 land. The bishoprick of Bristol no longer exists. 1:county of Dorset, which, with the city of Bristol and a st.
district around, formed the diocese, is distributed be with
the sees of Salisbury and Exeter. The city of Bristol in annexed to the diocese of Gloucester, and the bi-b. -Gloucester is henceforth to be called bishop of Glouce and Bristol. The former number of bishopricks being reduced, a new diocese has been formed for a new 1, whose style is the bishop of Ripon. This diocese coof the town and borough of Ripon and all such parts ... deaneries of the Ainsty and of Pontefract so adj western boundaries of the liberty of the Ainsty and . Wapentake of Barkston Ash, Osgoldcross and States and all that part of the county of York, which now .

platt of the gradulescation of the almost of the discount of the control of the discount of the comment of the control of the discount of the discount of the discount of the discount of the comment of the control of the discount of the di

island of Elephantina, where he built a castle, and | Ravenna, in very cold weather. In this journey he made peace with the neighbouring tribes, called by some Nubs and by others Nabats, to whom he gave up the strip of territory which the Romans had conquered, of seven days' march above the first cataract, on condition that they should prevent the Blemmyes and Ethiopians that they should prevent the Blemmyes and Ethiopians from attacking Egypt. Maximianus in the mean time was engaged in putting down the revolt in Mauritania, which he effected with full success. For several years after this the empire enjoyed peace, and Diocletian and his colleagues were chiefly employed in framing laws and administrative regulations, and in constructing forts on the frontiers. Diocletian that he was a support of the production of the frontiers. cletian kept a splendid court at Nicomedia, which town he embellished with numerous structures. He, or rather Maximianus by his order, caused the magnificent Thermse at Rome to be built, the remains of which still bear Dio-cletian's name, and which contained, besides the baths, a library, a museum, public walks, and other establishments. In February 303 Diocletian issued an edict against the Christians, ordering their churches to be pulled down, their

sacred books to be burnt, and all Christians to be dismissed from offices civil or military, with other penalties, exclusive, however, of death. Various causes have been assigned for this measure. It is known that Galerius had always been hostile to the Christians, while Diocletian had openly favoured them, had employed them in his armies and voured them, had employed them in his armies and about his person; and Eusebius (*Hist. Eccles.* viii.) speaks of the prosperity, security and protection, which the Christians enjoyed under his reign. They had churches in most towns, and one at Nicomedia in particular under the eye of the emperor. Just before the edict was issued, Galerius had repaired to Nicomedia to induce Diocletian to proscribe the Christians. He filled the emperor's mind with reports of conspiracies and seditions. The imperial palace took fire, Constantine (Oratio ad Cartum Sanctorum) says, from lightning, and Galerius suggested to the emperor that it was a Christian plot. The heathen priests on their part exerted themselves for the same purpose. It happened that on the occasion of a solemn sacrifice in presence of the emperor, while priests were consulting the entrails of the victims, the Christian officers in the imperial retinue crossed themselves; upon which the priests declared that the presence of profane men prevented them from discovering the auspices. Diocletian who was very anxious to pry into futurity, became irritated, and ordered all his Christian officers to sacrifice to the gods under pain of flagellation and dismissal, which many of them underwent. Several oracles which he consulted gave answers unfavourable to the Christians. The church of Nicomedia was the first pulled down by order of the emperor. The rashness of a Christian who publicly tore down the imperial edict exasperated Diocletian still more: the culprit was put to a cruel death. Then came a second edict, ordering all magistrates to arrest the Christian bishops and presbyters, and compel them to sacrifice to the gods. This was giving to their enemies power over their lives, and it proved in fact the enemies power over their lives, and it proved in fact the beginning of a cruel persecution, whose ravages were the more extensive in proportion to the great diffusion of Christianity during a long period of toleration. This was the last persecution under the Roman empire; and it has been called by the name of Diocletian. But that emperor had little share in it, beyond issuing the two edicts, which he did reluctantly and after long hesitation, according to Lactantian's acknowledgment; he fall ill a few months after tantius's acknowledgment: he fell ill a few months after, and on recovering from his long illness he abdicated. Galerius who had instigated the persecution, was the most zealous minister of it; the persecution raged with most fury in the provinces subject to his rule, and he continued it for several years after Diocletian's abdication, so that it might with more propriety be called the Galerian persecu-tion. The countries under the government of Constantius suffered the least from it. (Eusebius, Hist. Eccl.; Lactantius de Mort. Persecut.; and Constantine's Oration, above quoted, as given by Eusebius.)

In November of that year, 303, Diocletian repaired to

Rome, where he and Maximianus enjoyed the honour of a triumph, followed by festive games. This was the last triumph that Rome saw. The populace of that city complained of the economy of Diocletian on the occasion, who

seized by an illness which affected him the whole f following year, which he spent at Nicomedia. At one the was reported to be dead. He rallied however spring of 305, and showed himself in public, but crealtered in appearance. Galerius soon after came to nedia, and it is said that he persuaded and almost for Diocletian to abdicate. Others say that Diocletian d... spontaneously. On the 1st of May be repaired with guards to a spot, three miles out of Nicomedia, where had thirteen years before proclaimed Galerius as Canand there addressing his officers and court, be said that infirmities of age warned him to retire from power, a:.. deliver the administration of the state into stronger have he then proclaimed Galerius as Augustus, and Maxim.

Daza as the new Cesar. Constantine, who has given account of the ceremony, which is quoted by Eusebushis life of that prince, was present, and the troops: expected that he would be the new Cæsar; when they he another mentioned, they asked each other whether ( stantine had changed his name. But Galerius did not !them long in suspense: he pushed forward Maximia and showed him to the assembly, and Diocletian closes him with the purple vest, after which the old emperor turned privately in his carriage to Nicomedia, and in.... diately after set off for Salona in Dalmatia, near w:. he built himself an extensive palace by the sea-shore which he lived for the rest of his life, respected by : other emperors, without cares and without regret. Part the external walls which inclosed the area belonging his palace and other buildings still remain, with these the gates, as well as a temple, which is now a chur t. Spalatro, or Spalato, in Dalmatia, a comparatively m ... town, grown out of the decay of the antient Salona, and bin great part within the walls of Diocletian's residence, the name of which 'Palatium' it is believed that 'S<sub>1</sub> a. is derived. Descriptions of the remains of the palace at given in Spon, Fortis, Cassas, and Adams's splend der gravings, London, 1764. At the same time that Diocest abdicated at Nicomedia, Maximianus, according to agreement between them, performed a similar cereu at Milan, proclaiming Constantius as Augustus, and verus as Cæsar. Both Severus and Maximinus Daza vinferior persons, and creatures of Galerius, who instantial upon their nomination in preference to that of Maxe .... and Constantine, whom Diocletian had at first proposed Maximianus retired to his seat in Lucania, but not le endowed with the firmness of Diocletian, he tried some t after to recover his former power, and wrote to his ola league to induce him to do the same. 'Were you had come to Salona,' answered Diocletian, 'and see the value tables which I grow in my garden with my own hands, v would no longer talk to me of empire. In his return, he used to observe to his associates how difficult it is for the best-intentioned man to govern well, as he cann to everything with his own eyes, but must trust to others w often deceive him: 'Bonus, cautus, optimus, venditur l perator' (Vopiscus). Once only he left his retirement meet Galerius in Pannonia for the purpose of appointing new Cæsar, Licinius, in the room of Severus, who had dictionius however did not prove grateful, for after the distortion of Galerius, A.D. 311, he ill-treated his widow, Vale Diocletian's daughter, who then with her mother, Protook refuge in the territories of Maximinus Daza. latter offered to marry Valeria, but on her refusal ex both her and her mother into the deserts of Syria, and ; to death several of their attendants. Diocletian retastrated in favour of his wife and daughter, but to next pose, and his grief on this occasion probably haster of death, which took place at his residence near Salour July, 313. In the following year his wife and dau:

Diocletian ranks among the most distinguished empof Rome; his reign of twenty-one years was upon the war prosperous for the empire, and creditable to the Rom name. He was severe, but not wantonly cruel, and we oc. to remember that mercy was not a Roman virtue. li. conduct after his abdication shows that his was no comm mind. The chief charge against him is his haughtmessintroducing the Oriental ceremonial of prostration. replied that moderation and temperance were most required the censor was present. They vented their distribution in jibes and sarcasms, which so hurt Diocletian left Rome abruptly in the month of December for landing cannot be implicitly trusted. Of the regular use



some of this require we have any the panegre surreviews and Aurelian V mon, the others being most long, and the surreview of the great sorts of Dochman is this "Hittorian Interest the property of the Chinary of Historian I deliberation to translate and the contemporary panegraphs, Bignates and Manager and I would therefore section in the contemporary panegraphs, Bignates and Manager and I would therefore section in the contemporary panegraphs, Bignates and Manager and I would then the property of the contemporary panegraphs, Bignates and Manager and I would be contemporary to the contemporary panegraphs, Bignates and Manager and I would be contemporary to the contemporary panegraphs, Bignates and Manager and I would be contemporary to the contemporary to t Cola of Discussion.

DIODATI, JEAN, was born in Geneva in 1875, of a family araginally from Lucco. His progress in learning was an reput that Bress presented him to be expaniated profession of Hebrow in the University of Genera when he was not reput that Bress presented him to be expaniated profession of Hebrow in the University of Genera when he was full formaty one years of age. In 1605 he was nasherested at Paulicular of the Court of Hebrow in the University of General Texture Pulgentin, both antagonists of the Court of Honoe, and these appears to here been some talk and correspondence between them about antempting a religious referred in Haby, lost Sarpi's caution and maturer adaption to become the forwards of the other two. Product afterwards translated told French and published at General Sarpi's Hastory of the Court of Honoe, and the translated told French and published at General Sarpi's Hastory of the Court of Holland, where he attached to be successed in the condemnation of the thoological beauties, it was sent by the clergy of General and several ancesome, first to the referenced clintedus in France, and afterwards to those of Holland, where he attached to Synod of Dorf 1015-19, and although a foreignor, he was sent of the divines appearated in the condemniation of the Ambronous, or Remonstrative at they cere called. Dio Intitious alumination of the Ambronous, or Remonstrative at they cere called. Dio Intitious alumination of the Ambronous, or Remonstrative at they cere called. Dio Intitious alumination of the Ambronous, or Remonstrative at they cere called. Dio Intitious aluminations of the Ambronous, or Remonstrative at they cere called. Dio Intitious alumination of the Ambronous, or Remonstrative at they cere called. Dio Intitious alumination of the Ambronous, and the Holland in the Conden, Intitious and the Intitious and Intitious and Condens Intitious and the Intitious and Intitious and Intitious and Intiti

were written either the death of Johns Casso; that the content model that we have should note the known, and one must regret that we have should note have known, and one must regret that we have should note have known, and one must regret that we have should note that and probably most valuable portion of the series, and let it in the time of Augustia, and he is passed under the year abled in many places to correct the cross of Livy. The style of Discours, though not very pure or observe, is collisionally

The best editions of Diodorus are Wesseling's, Amstel., 1745, two vols. fol.; that printed at Deux-Ponts, 1793-1801, and Dindorf's, Lips., 1829—33, five vols. 8vo., which contains the Vatican Excerpta. There is also a smaller edition by Dindorf in four vols. 12mo., Lips., 1826. Diodorus has been translated into French by Terrason, and two or three years ago a new translation by Miot appeared at Paris. A Gorman translation of Diodorus was begin by F. And German translation of Diodorus was begun by F. And. Stroth (1782-1785), and finished by T. F. Sal. Kaltwasser (1786-1787). Amyot translated into French books xi. to xvii.

of Diodorus's History. DIŒCIA, the twenty-second class in the artificial method used by Linnæus in arranging plants. It comprehends such genera as have male or stamen-bearing flowers on one plant, and female or pistil-bearing flowers on another, as willows. Hence all plants having the sexes thus distin-

guished are called diœcious.

DIO'GENES, the Cynic philosopher, was the son of Hicesius, a money-changer of Sinope. His father and himself were expelled from their native place on a charge of adulterating the coinage, or, according to another account, Hicesius was thrown into prison and died there, while Diogenes escaped to Athens. On his arrival at that city, he betook himself to Antisthenes, the Cynic, who repulsed him rudely according to his custom, and even on one oc-casion threatened to strike him. 'Strike me,' said the Sinopian, for you will never get so hard a stick as to keep me from you while you speak what I think worth hearing. The philosopher was so pleased with this reply that he at once admitted him among his scholars. Diogenes was soon distinguished for his extraordinary neglect of personal conveniences, and by a sarcastic and sneering petulance in all that he said. He was dressed in a coarse double robe, which served him as a cloak by day and a coverlet by night, and carried a wallet to receive alms of food. His abode was a cask in the temple of Cybele. In the summer he rolled himself in the burning sand, and in the winter clung to the images in the street covered with snow, in order that he might accustom himself to endure all varieties of weather. A great number of his witty and biting apophthegms are detailed by his namesake and biographer (Diog. Lacrt., vi., He became acquainted with Alexander the Great, who bade him ask for whatever he wanted. 'Do not throw your shadow upon me,' was the Cynic's only request. It is reported that Alexander was so struck with his originality that he exclaimed, 'Were I not Alexander, I would wish to be Diogenes.' Being taken by a piratical captain named Scirpalus, while sailing from Athens to Ægina, he was carried to Crete, and there sold to Xeniades, of Corinth, who took him home to educate his children. He discharged the duties of this situation so faithfully and so successfully, that Xeniades went about saying that a good genius had come into his house; and he was so well treated by his master that he refused an offer on the part of his friends to ransom him from slavery. He spent his time principally in the Cranium, a gymnasium near Corinth, where he died in the same year, and, according to one account, on the same day with Alexander the Great (323 B.C.), at the advanced age of 90 years. A number of works attributed to him are mentioned by Diogenes Laërtius, but none of them are extant. For the general doctrines of the sect to which Diogenes belonged, the reader may consult the article The following are a few of the particular opinions ascribed to him by his biographer. He thought exercise (aornoc) was indispensable, and able to effect anything; that there were two kinds of exercise, one of the mind and the other of the body, and that one of these was of no value without the other. By the cultivation of the mind he did not mean the prosecution of any science or the acquirement of any mental accomplishment; all such things he considered as useless; but he intended such a culti-vation of the mind as might serve to bring it into a healthy and virtuous state, and produce upon it an effect analogous to that which exercise produces upon the body. He adopted Plate's doctrine, that there should be a community of wives

perspicuous, and presents few difficulties, except where the MSS are defective, as is frequently the case. (Niebuhr, with his master Anaximenes. But the birth-year of a contemporary and fellow-pupil Anaxagoras is known: with his master Anaximenes. But the birth-year of contemporary and fellow-pupil Anaxagoras is known: 500 B.C.; and Diogenes would most probably be about same age, or perhaps rather younger. Sidonius A: linaris (xv. 91) speaks of Diogenes as younger than A: agoras, — 'junior collega Anaxagoræ.' Schleierma: who is followed by Schaubach, the editor of the fragr. of Anaxagoras, affirms from the internal evidence of fragments of the two philosophers, that Diogenes precadnaxagoras. But Diogenes might have written be-Anaxagoras, and yet have been his junior, as we know the case with Empedocles. (Aristotle *Met.* i. iii., p. 843 ft

Diogenes followed Anaximenes in making air the praelement of all things, that out of which the whole mate universe was formed; but he invested this air with: property of intelligence, or with what is called by St. A gustin a divine virtue, thus approximating but not at: ing to the system of Anaxagoras. It was reserved for the last philosopher to separate mind from matter. 'As contemplation of animal life,' says Mr. Thirlwall, 'had Anaximenes to adopt air as the basis of his system, a life. philosopher, Diogenes of Apollonia, carried this and a rational as well as sensitive soul—still without no nizing any distinction between matter and mind.' (His Greece, vol. ii., p. 134.) Cicero (de Nat. Deor., i. 12) r; sents Diogenes as making air his deity.

He wrote several books on Cosmology (πιρὶ φύσιως); the first sentence of his work is given by Diogenes Lacrin two places (vi. 81; ix. 57). The fragments which remarks been recently collected and edited by Panzerbeits.

There is an essay on the philosophy of Diogenes. Schleiermacher, in the Memoirs of the Berlin Academy: 1815; and a contribution to the chronology of his life an article on the early Ionic philosophers, by Mr. Cl.t. in the Philological Museum, vol. i., p. 92. For geninformation concerning him the reader is referred to 1., genes Laertius, ix. 9; Rayle's Dictionary; and Fals: Bibliotheca Græca, ed. Harles, vol. ii., p. 656.

DIO'GENES, surnamed Laërtius, because he was tat Laërtes, in Cilicia, is well known as the biogram of the Greek philosophers. But though he has describe lives of others, he has given us no account of him and we know nothing about him. It is supposed that lived in the reign of Severus or Caracalla, and that he was private in the reign of the work by which Diograps is have a supposed. an Epicurean. The work by which Diogenes is known a crude contribution towards the history of philosoft contains a brief account of the lives, doctrines, assayings of most persons who had been called philosophes. and though the author is evidently a most unfit per-or. the task which he imposed upon himself, and has sh very little judgment and discrimination in the execut. the book is useful as a collection of facts which we co not otherwise have learned, and entertaining as a some omniana on the subject. The article on Epicurus 18 v luable as containing some original letters of that 11. sopher, which comprise a pretty satisfactory epitome of :: Epicurean doctrines, and are very useful to the readers. Lucretius. The most convenient edition of Diogenese, that by H. G. Hübner, Lips., 1828-31, in two volumes

DIOIS, the territory in France of which Die was the capital. [DAUPHINE; DRÔME.]
DIOME'DEA. [ALBATROSS.]

DION, of Syracuse, son of Hipparinus, one of the chart men in that city, lived under the reigns of both the Diery. He was originally introduced to Dionysius the elder, to sister Aristomache, one of the king's wives, but his merit appears afterwards to have gained him so mu. . . . vour at court, that he could speak to Dionysius with freedom of an equal. He had early become the disci, Plato whom Dionysius had invited to Syracuse, and P. is said to have considered him the most ardent of his put Soon after his accession, the younger Dionysius beganshow the effects of an imperfect and vicious ed. . . . while in private he abandoned himself to all kinds of cesses. The prospects of his country roused Dion, a and children, and held with the Doran lawgivers, that closed triangles and children, and held with the Doran lawgivers, that closed triangles are consistent to an kinds of the prospects of his country roused Dion, a closed triangles of Apollonia, so called from his birthplace, a town in Crete, was a pupil of Anaximenes to an kinds of the prospects of his country roused Dion, a cesses. The prospects of his cesses. The prospects of his country roused Dion, a cesses. The prospects of his cesses. The prospects of his cesses. The prospe

which he would do not from the convenience and knowledge. Therefore, the first of a systeman had been placed and not depend and the placed and the second an One Disreption we be a little of acquirement which has been placed band and recognitive the recognitive which has been provided in the contribution of the Collection of the C

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to Dion, probably refers to his connection with the Emperor Cocceius Nerva.

DIONÆA, a most singular herbaceous plant, remarkable for the irritability of its leaves, which, when brushed against by an insect, will suddenly close upon it and hold it fast, whence it is often called Venus's Fly-trap and the Carolina Catchfly plant. It is botanically related to the Drosera, or sundew, which has also the property of seizing insects by its viscid hairs, but differs so much as to have led some bota nists to doubt whether it really belongs to the same natural order. Its flower-branches, for example, are not rolled up before they unfold, but have a straight æstivation; the placents of the fruit are stationed at the base of the one-celled capsule; the stigma is a lacerated fringed brush, and there are other differences; but upon the whole, it is probably a

genuine portion of the droseraceous order.

Dionæa has broad stalked leaves, spreading in a circle round the bottom of the flower stem. Its flower stem rises straight to the height of six or eight inches, and is terminated by a cyme of small greenish-white flowers, each of which has a calyx of five sepals, five wedge-shaped notched petals, ten hypogynous stamens, and an ovary shaped like some of the old German wine-bottles, round at the bottom, and tapering suddenly into a short neck or style. The best modern account of its habits has been given by Mr. M. A. Curtis, who thus speaks of it from his observations upon the plant in its native bogs. 'The Dionæa muscipula is found as far north as Newbern, N. Carolina, and from the mouth of Cape Fear River to Fayetteville. It is stated moreover to grow along the lower branches of the Santee, in S. Carolina; and it is not improbable that it inhabits the savannahs, more or less abundantly, from the latter place to Newbern. It is found in great plenty for many miles around Wilmington in every direction. The leaf, which is the only remarkable part, springs from the root, apreading upon the ground at a little elevation above it. It is composed of a broad stalk, like the leaf of an orange-tree, winged and from two to four inches leag which at the cond winged, and from two to four inches long, which at the end suddenly expands into a thick and somewhat rigid blade, the two sides of which are semicircular, about two-thirds of an inch across, and fringed round their edges with somewhat rigid cilise, or long hairs, like eye-lushes. The leaf, indeed, may be aptly compared to the two upper eyelids, joined at their bases. Each portion of the leaf is a little concave on the inner side, where are placed three delicate, hair-like organs, in such an order that an insect can hardly traverse it without interfering with one of them, when the two sides suddenly collapse and enclose their prey, with a force surpassing an insect's attempts to escape. The fringe or hairs of the opposite sides interlace, like the fingers of the two hands clasped together. The sensitiveness resides only in these hair-like processes on the inside, as the leaf may be these hair-like processes on the inside, as the leaf may be touched or pressed in any other part without sensible effects. The little prisoner is not crushed and suddenly destroyed, as is sometimes supposed; for I have often liberated captive flies and spiders, which sped away as fast as fear or joy could hasten them. At other times, I have found them enveloped in a fluid of mucilaginous consistence, which seems to act as a solvent, the insects being more or less consumed by it. This circumstance has suggested the pos-sibility of the insects being made subservient to the nourishment of the plant, through an apparatus of absorbent vessels in the leaves. But as I have not examined sufficiently to pronounce on the universality of this result, it will require further observation and experiment on the spot to ascertain its nature and importance.

'It is not to be supposed, however, that such food is necessary to the existence of the plant, though, like com-post, it may increase its growth and vigour. But however obscure and uncertain may be the final purpose of such a singular organization, if it were a problem to construct a plant with reference to entrapping insects, I cannot con-ceive of a form and organization better adapted to secure that end, than are found in the Dionsea muscipula. I therefore deem it no credulous inference that its leaves are constructed for that specific object, whether insects subserve the purpose of nourishment to the plant or not. It is no objection to this view that they are subject to blind accident, and sometimes close upon straws, as well as insects. It would be a curious vegetable, indeed, that had a faculty of distinguishing bodies, and recoiled at the touch of one, while it quietly submitted to violence from another. Such capricious sensitiveness is not a property of the vege-

table kingdom. The spider's net is spread to ensure £ . yet it catches whatever falls upon it; and the ant incused from his hiding-place by the fall of a rebbindhers of accel. We may add, with reference to the American author's jecture that the trapped insects may contribute to the rishment of the leaf of Dionzea, that leaves have act been fed with chopped meat, and have been found to come more healthy and vigorous in consequence of the artificial stimulus.
DIONY'SIA (Δωνόσια), festivals held in honour of the

Dionysus, or Bacchus. The most important of such feet and those which alone deserve to be specially mention. were held at Athens and in Attica; and these are importaby reason of their being the occasions on which all the amatic exhibitions of the Athenians took place. Boto : tragedy and comedy of the Athenians arose ultimately 1: parts of ceremonies, which prevailed in very early to among the Greeks, at the festivals of Dionysus (Arc.) Poet. 4. 14); and it is alike a consequence and a proof this origin, that the dramatic exhibitions and context among the Athenians, from the earliest to the latest time at which we can trace them, always took place at some of a

of the Attic Dionysia.

These Attic Dionysia were four in number. Enumerate! in the order of time, according to the Attic year, they were 1, The Lesser or Rural Dionysia, held in the month Poudeon; 2, The Lensea, held in the month Gamelion; 3, 7.

Anthesteria, held in the month Anthesterion; and 4, The Great or City Dionysia, held in the month Elaphebelia They were held in four consecutive months, the first .. which, Poseideon, coincides with part of December and part of January, and the last, Elaphebolion, with part March and part of April.

Until recently, the number of the Attic Dionysia always supposed to be three; the fourth being made to appear by identifying the Lenza, the second which we have the second which we have the second which the Purel I. named, either with the Anthesteria or with the Rural I). nysia. But the incorrectness of both these opinions, a: . the separate existence of the Lenses, have been establisunanswerably by Boeckh, the author of the Public Enomy of Athens, in an essay published in 1819 in the Trans actions of the Berlin Academy of Sciences. It is not in power to enter into any account of the argument conta.: in this essay; but the reader may see an abstract of : essay in an article on the Attic Dionysia by Mr. Thinlwai'; the Philological Museum (vol. ii. p. 273), and a very to notice in Buttman's second Excursus, in his edition of 1 most hence's oration against Midsas. Viewed in its relation to the Attic Drame, the question which is here? to the Attic Drama, the question which is handh l Boeckh's essay, is not unimportant.

We proceed to speak of these festivals separately, and

the order in which they occurred in the Attic year.

1. The Rural or Lesser Dionysia, was a festival celebrated all over Attica, the other three being confined. Athens. It was a festival of the vintage, and though : may appear to have been held somewhat late in the year on the latter part of December), was not held later than : vintage now takes place, in a more rigorous climate, in so of the vineyards producing the Tokay wine. (Phil. Marcol. ii., p. 296.) The Rural Dionysis were celebrated means of separate festivals in all the demes of Attica: expenses of these separate festivals fell on the several demes; and the performances, processions, and banques of which the festivals consisted, were under the supermendence of the several demarchs. It is inferred from: law of Evagoras, cited by Demosthenes (Mid. p. 517), at an inscription contained in Boeckh's Public Romens Athens (App. viii.), that Athens joined, on the occasion of the Rural Dionysia, in the festival celebrated at Piracus. At the dramatic performances of these rural festivals, plate that had before been represented either at the Lenga r the Great Dionysia, used to be repeated. Of the process in which was carried the phallus, and in which was sutthe phallic hymn, there is a sketch in miniature in the Acharmans of Aristophanes (v. 230, fol.).

2. The Lenæa, so called from a wine-press (Aprèc), which erection, in an inclosure called for the same reason Lenæ. lying originally a little out of the city and near a mit is in (Λίμναι), it was supposed to commemorate, may, like :. Rural Dionysia, be considered a vintage-festival. thinks that a festival which went by the name of Ambr. . . was the same with the Lensea; and he supposes, in one:

in a first the pointion of this field which the first of contract the state of the parent during hed wolds, the first of contract the state of the parent during hed wolds, the first of contract the state of the parent during hed wolds, the first of contract the state of the parent during the state of th

which was begun by the people plundering the houses and vessels of the Carthaginian traders. Dionysius sent a herald to Carthage, which was then afflicted by the plague, to de-clare war, unless all the Greek towns in Sicily were evacu-ated. He next laid siege to Motya, one of the principal Carthaginian colonies in Sicily, which his brother Leptines attacked by sea. In this siege he tried his new engines, which battered down the walls, and the town being taken, the inhabitants were either killed or sold, and an immense booty was made by the Syracusans. Dionysius reduced also the other towns belonging to the Carthaginians, except Panormos, Soloeis, and Egeste. Moantime the Carthaginians collected a large force under Himilco, who landed at Panormos, while his fleet took the island of Lipara; he then marched against Messana, which he took and destroyed; and thence advanced towards Syracuse. Most of the towns inhabited by the Siculi joined the Carthaginians. On arriving at Tauromenium Himilco found his way along the sea-coast, but was stopped by a great eruption of lava from Atna, and was obliged to march round by the western base of the mountain. Meantime Mago with the Carthaginian fleet attacked the Syracusan fleet off Catana, and completely defeated it. Himilco encamped under the walls of Syracuse, while his victorious fleet entered the great harbour. Dionysius, on his side, received ships and men from Sparta. A dreadful pestilence breaking out in Himilco's camp, Dionysius availed himself of it to attack the Carthaginians, defeated them, and burnt most of their ships. Himilco with the remainder escaped to Carthage, having paid

secretly a large sum to Dionysius for his forbearance.

Dionysius settled the disbanded mercenaries as colonists at Leontini and Messana, which latter city he caused to be rebuilt. Mago, with a new Carthaginian army, having landed in Sicily, 392 n.c., was compelled to reimbark on condition of paying the expenses of the war. Dionysius now proceeded against Rhegium, with which the other towns of Magna Gracia had formed an alliance, while he gained over to his side the Lucanians, and both together defeated the allies, devastated the territories of Thurii, Croton, Caulon, Hipponium, and Locri, and obliged the Greeks to sue for peace.

About this time he is said by Justinus, xx. 5, to have reccived an embassy from the Gauls, who had just burnt Rome, offering him their alliance. In 387 B.C. he again attacked Rhegium, and took it after a long and obstinate siege. He sold the surviving inhabitants as slaves, and put their com-

mander to a cruel death.

Dionysius was now feared both in Italy and Sicily, and he seems to have aspired at one time to the dominion of both countries. In order to raise money, he allied himself with the Illyrians, and proposed to them the joint plunder of the temple of Delphi: the enterprise however failed. He then plundered several temples, such as that of Proserpina, at Locri, and as he sailed back with the plunder with a fair wind, he, who was a humorist in his way, observed to his friends, 'You see how the immortal Gods favour sacrilege.' Having carried off a golden mantle from a statue of Jupiter. consecrated by Gelon out of the spoils of the Carthaginians. he replaced it by a woollen garment, saying that it was more suited to the vicissitudes of the seasons: he also took away a golden beard from Æsculapius, observing it was not becoming for the son of a beardless father (Apollo) to make a display of his beard. He likewise appropriated to himself the silver tables and golden vases and crowns in the temples, saying he would make use of the bounty of the Gods. (Cicero, De Natura Deorum, iii. 34; Elianus, Histor., i. 20.) He also made an invasion with a fleet on the coast of Etruria, and plundered the temple of Core, or Agylla, of 1000 talents. With these resources he was preparing himself for a new expedition to Italy, when a fresh Carthaginian armament landed in Sicily, 383 a.c., and defeated

Dionysius, whose brother, Leptines, fell in the battle sace followed, of which Carthage dictated the conding The boundary of the two states was fixed at the river Halper . and Dionysius had to pay 1000 talents for the expense of the war. This peace lasted fourteen years, during when Dionysius remained the undisturbed ruler of Syracuse and one-half of Sicily, with part of Southern Italy. He se: colonies to the coasts of the Adriatic, and his fleets navigated both seas. Twice he sent assistance to his old ally. Spara, once against the Athenians, 374 a.c., and again in the after the battle of Leuctra, when the Spartans were hard pressed by Epaminondas. Meantime the court of Davis sius was frequented by many distinguished men, plat -phers and poets. Plate is said to have been among the former, being invited by Dion, the brother-in-law f Dionysius; but the philosopher's declamations against tyranny led to his being sent away from Syracuse. The poets fared little better, as Dionysius himself aspired '> poetical glory, for which however he was not so we'll qualified as for political success. Those who did not prace his verses were in danger of being sent to prison. Divis-sius twice sent some of his poems to be recited at the Olympic games, but they were hissed by the assembly. He was more successful at Athens. A tragedy of his obtained the prize, and the news of his success almost turned his brain. He had just concluded a fresh truce with the Carthaginiar . after having made an unsuccessful attack upon Lilybers n at the expiration of the fourteen years' peace; and he t. w gave himself up to rejoicings and feasting for his poet. triumph. In a debauch with his friends, he ate and drie k so intemperately that he fell senseloss, and soon after dred; some say he was poisoned, 367 B.C., in the sixty-third ve r of his age, having been tyrant of Syracuse thirty-eig! tyears. After the death of his first wife he married to wives at once, namely, Doris of Locri, and Arista neta, dat ... ter of Hipparinus, of Syracuse: by these women he : i seven children, of whom Dionysius, his elder son by 12 r..., succeeded him in the sovereignty.

Dionysius was a clever statesman, and generally successin his undertakings; he did much to strengthen and ex: the power of Syracuse, and it was probably owing to I that all Sicily did not fall into the hands of the Cart ginians after the taking of Agrigentum. He was un-cru; stated of his cruelty and suspicious temper appear in:
bable, or at least exaggerated. The works of Philistu, w. had written his life, and who is praised by Cicero, are 1 Diodorus, who is our principal remaining authority c cerning Dionysius, lived nearly three centuries after, a was not a critical writer. The government of Diony the middle ages, or that of the Stadtholders in Holier t. The popular forms still remained, and we find Diony. . repeatedly convoking the assembly of the people on it portant occasions, when full freedom of speech seems :..

have been allowed.



Coin of Diopysius British Museum. Actual pize. Silver. Weight, 363 gr

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