## Consonants:

Stops: /b; t, d, \&; k, g, q/. (/p/ occurs in loanwords for some speakers.)
Nasals: /m; n/
Laterals and rolls: /I, $\uparrow, r, \psi /$
 loanwords, and for some speakers /v/ as well; / $\theta$, $\partial /$ have been absorbed by /t, d/ in many, perhaps most, dialects.)
Affricates: /tf, ds/
Semivowels: /j, w/
The emphatic (velarized or pharyngealized) consonants $/ \boldsymbol{\not}, \boldsymbol{\epsilon}, \mathbf{z}, \grave{\theta}, \uparrow, \notin$, $q, x, \gamma /$ often induce emphatic spread, making surrounding consonants emphatic (especially those without phonemic emphatic counterparts).
Vowels: /a:, is, u:, э, $\mathbf{v} /(/ \propto /$ occurs in French loanwords for a few speakers.)
The vowels have a variety of allophones: [ai, is, u: i, u] normally, [a:, $\left.i_{i}, 0, i, 9,0:\right]$ in the neighbourhood of emphatics, [æı, i:, ui, æ, v] next to pharyngeals, $\left[\varepsilon_{i}, i_{i}, u_{i}, \varepsilon, v\right]$ next to glottals. The long vowels, particularly /a:/, also shorten in certain environments. Moreover, /9j/
 [uww].
Syllables:
[C]CV(:/C)[C], and word-initially $V$ :[C]; no more than three consonants in a row are permitted. Epenthetic / 9 / is inserted word-initially before CC, resulting in syllables that cut across word boundaries; if this phenomenon is taken into account, stress consistently falls on the penultimate syllable. When addition of a suffix would result in an impossible open CV syllable with a short vowel, it becomes VC; eg /tmяr/, "date" (collective) $+/-\mathrm{a} /=>/$ tэmヶa/, date (singular).

## Regional differences:

- / $\theta$, $\delta /$ have been absorbed by /t, d/ in many, perhaps most, dialects, including Algiers'.
- In some areas $/ \mathrm{d} 3 /$ is realized as [3], particularly the west.
- / $\check{\delta} /$ is often [ब] in dialects without $/ \theta, ð /$.
- /q/ and /g/ are frequently not distinguished phonemically, with many dialects opting only for one or the other.


## Transformations:

- /h/ is normally elided between vowels.
- There are two sets of emphatic (velarized or pharyngealized) consonants, $\mu \mathrm{f}, \mathrm{s}, \boldsymbol{z}$, $\rtimes, \downarrow, r /$ and $/ r, q, x$, ь/. The former set may cause emphasis of nearby dental, alveolar, and post-alveolar consonants, while the latter may cause emphasis of velar and uvular ones; either may cause emphasis of bilabials, but emphasis of pharyngeals and glottals is impossible. Note that $/ \mathrm{r} / \mathrm{is}$ in both sets. This phenomenon is regular for those consonants without phonemic emphatic counterparts, including bilabials, and sporadic even for ones with contrasting emphatics. Both sets always emphasize neighboring vowels.
- Regressive assimilation of voicing/unvoicing (eg /sgbt/=[sipt], "Saturday") and of place of articulation for nasals (eg /t9nsl9q/=[t9Nsloq], "it closes") is routine, though it does not occur in careful speech; likewise, pharyngeal $+/ h /=>$ [ $\hbar \hbar]$.
- /j, w/ are realized as [i, u] in two-consonant clusters when not adjacent to a vowel.
- The definite article /I-/ assimilates completely to all dental, alveolar, and postalveolar consonants, except for (in most dialects) $/ \mathrm{d} 3 /$.


## Vowels:

Close
Close-mid
Open-mid
Open

## Front

 i:Central
Central

9
a:

Issues:
$/ v /$ is fairly rare, occurring only in the neighborhood of velars or bilabials, but is unpredictable and marginally contrasting: /kuliis/, "all of me", versus /k9liis/, "as if", and /ku:liis/, "eat for me", although only the second of those three is semantically entirely sound or likely to be attested in normal speech.

## Regional differences:

- /9/ is reported to be non-phonemic in some dialects, at least in Morocco; in Dellys and most other areas of Algeria, however, it has several minimal pairs (e.g. / $\hbar 9 b s /$, "jail", versus / $\hbar b 9 s /$, "he stopped", or /sm9§t/, "I/you heard", versus /s9m\{9t/, "she heard".)
- Some conservative dialects retain /gj/ and pronounce it [ex] (unlike Dellys and many others, which turn it into /i:/.)
Transformations:

The vowels transcribed as /ar, $\mathrm{i}_{\mathrm{i}}, \mathrm{u}_{\mathrm{i}}, \mathrm{g}, \mathrm{v} /$, have a variety of allophones: [ar, $\mathrm{i}, \mathrm{u}_{\mathrm{i}}, \mathrm{i}$, u] normally, [ai, ix, of, s, o] in the neighborhood of emphatics, [æı, is, ux, æ, v] next to pharyngeals, $[\varepsilon, ~ i \mathbf{i}, \mathrm{ui}, \varepsilon, v]$ next to glottals. The long vowels, particularly /ai/, often shorten before two consonants (e.g. [qolii] for /quilii:/, "tell me") and, except for emphasis, always shorten in word-final position. Moreover, /9j/ and /9w/ become /is/ and/u:/, and/9ji/ and/9wi/become [ijr] and [uwi].

## Syllables:

[C]CV(:/C/Ci)[C], and word-initially $V_{i}[C]$; no more than three consonants in a row are permitted. Epenthetic /g/ is inserted word-initially before CC (including $\mathrm{Ci}_{\mathrm{i}}$ ), resulting in syllables that cut across word boundaries. If this phenomenon is taken to cause syllable division even for words in isolation (for instance, segmenting /dzarburh/, "they brought it", as /dzar.bur.h-/) stress consistently falls on the word's penultimate syllable, and -CC syllables are allowed only due to suffixation (as in /Saf-t.-kum/, "I saw you".)
When addition of a suffix would result in an impermissible open CV syllable with a short vowel, it becomes VC; e.g. /tmer/, "date (collective)" $+/-\mathrm{a} /=>/$ tgmra: /, "date (singular)". This phenomenon does not, however, affect geminate consonants (unlike Classical Arabic vowel shifts) which behave as unities for this purpose, e.g. /s9lisk/, "he finished" + /-u:/ => /soliku:/, "they finished" (although they can also be generated by juxtaposition of morphemes, eg /I=losqa:/, "the glue".)

