

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2018)

CONSONANTS (PULMONIC)

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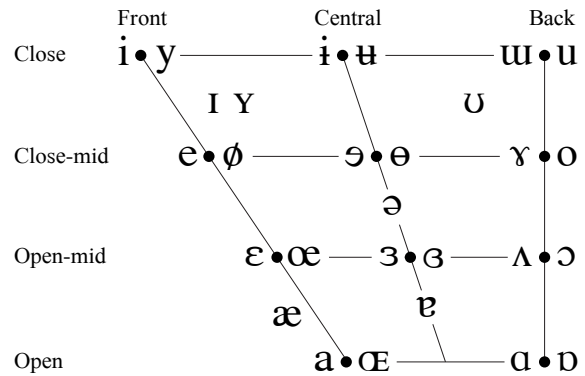
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		ʋ		ɹ		ɻ	j	ɰ			
Lateral approximant				l		ɭ	ʎ	ʟ			

Symbols to the right in a cell are voiced, to the left are voiceless. Shaded areas denote articulations judged impossible.

CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
ɘ Bilabial	ɓ Bilabial	' Examples:
ǀ Dental	ɗ Dental/alveolar	p' Bilabial
ǃ (Post)alveolar	ɟ Palatal	t' Dental/alveolar
ǂ Palatoalveolar	ɡ Velar	k' Velar
ǁ Alveolar lateral	ɠ Uvular	s' Alveolar fricative

VOWELS



Where symbols appear in pairs, the one to the right represents a rounded vowel.

OTHER SYMBOLS

- ɸ** Voiceless labial-velar fricative **ç ʝ** Alveolo-palatal fricatives
 - ɰ** Voiced labial-velar approximant **ɻ** Voiced alveolar lateral flap
 - ɰ** Voiced labial-palatal approximant **ɥ** Simultaneous **ʃ** and **x**
 - ħ** Voiceless epiglottal fricative
 - ʕ** Voiced epiglottal fricative
 - ʔ** Epiglottal plosive
- Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary. **ts̺** **k̟p̟**

SUPRASEGMENTALS

- ˈ** Primary stress **ˌ** Secondary stress **ˑ** Long **ˑ̆** Half-long **ˑ̇** Extra-short
- ˘** Minor (foot) group
- ˙** Major (intonation) group
- ˙** Syllable break **˙** Linking (absence of a break)

DIACRITICS Some diacritics may be placed above a symbol with a descender, e.g. **ɨ̜̯**

o Voiceless	ɰ ɖ̥	.. Breathy voiced	ɰ̤ ɖ̤	ɳ Dental	ʈ̪ ɖ̪
v Voiced	ɰ̤ ɖ̤	~ Creaky voiced	ɰ̰ ɖ̰	ɳ Apical	ʈ̪̺ ɖ̪̺
h Aspirated	ʈʰ ɖʰ	~ Linguolabial	ʈ̺ ɖ̺	ɳ Laminar	ʈ̪̺̺ ɖ̪̺̺
ɔ More rounded	ɔ̞	ʷ Labialized	ʈʷ ɖʷ	~ Nasalized	ẽ̃
ɔ Less rounded	ɔ̟	ʲ Palatalized	ʈʲ ɖʲ	ɳ Nasal release	d̪ⁿ
+ Advanced	ɰ̟	ʷ Velarized	ʈʷ ɖʷ	ɳ Lateral release	d̪ˡ
- Retracted	ɰ̠	ʰ Pharyngealized	ʈʰ ɖʰ	ˀ No audible release	d̪ˀ
.. Centralized	ẽ̜̯	~ Velarized or pharyngealized	ʈ̠		
x Mid-centralized	ẽ̜̯̘	˥ Raised	ɰ̥ (ɰ̥ = voiced alveolar fricative)		
ɰ Syllabic	ɰ̩	˦ Lowered	ɰ̥̞ (ɰ̥̞ = voiced bilabial approximant)		
˘ Non-syllabic	ɰ̥	˦ Advanced Tongue Root	ɰ̥̟		
˘ Rhoticity	ɰ̥̠ ɰ̥̠̠	˦ Retracted Tongue Root	ɰ̥̠		

TONES AND WORD ACCENTS

- | LEVEL | CONTOUR |
|----------------------------------|------------------------------|
| ẽ̥ or ˩ Extra high | ẽ̥ or ˩ Rising |
| é ˩ High | ẽ̥ ˩ Falling |
| ē ˨ Mid | ẽ̥ ˨ High rising |
| è ˨ Low | ẽ̥ ˨ Low rising |
| ẽ̥ ˩ Extra low | ẽ̥ ˩ Rising-falling |
| ˩ Downstep | ↗ Global rise |
| ˩ Upstep | ↘ Global fall |