

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2017)

CONSONANTS (PULMONIC)

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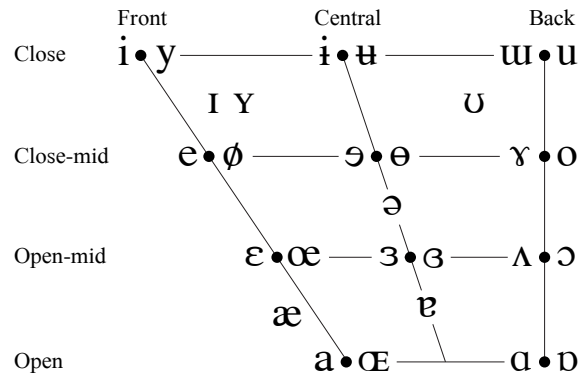
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		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
ɸ 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
 - ʋ** 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
 - ʡ** Epiglottal plosive
- Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary. **ts̠** **kp̟**

SUPRASEGMENTALS

- ˈ** Primary stress **ˌ** Secondary stress **ˈ** **fou**nə'tɪʃən
- ː** Long **eː**
- ˑ** Half-long **eˑ**
- ˚** Extra-short **e˚**
- ̤** Minor (foot) group
- ̥** Major (intonation) group
- Syllable break **ˌi.ækt**
- ̤̥** Linking (absence of a break)

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

◌̥ Voiceless	ɲ̥ ɖ̥	◌̤ Breathy voiced	ɓ̤ ɗ̤	◌̦ Dental	ʈ̦ ɖ̦
◌̇ Voiced	ɻ̇ ɽ̇	◌̰ Creaky voiced	ɓ̰ ɗ̰	◌̩ Apical	ʈ̩ ɖ̩
◌̚ Aspirated	tʰ dʰ	◌̜ Linguolabial	t̜ ɖ̜	◌̪ Laminal	ʈ̪ ɖ̪
◌̙ More rounded	ɔ̙	◌̝ Labialized	t̝ ɖ̝	◌̫ Nasalized	ẽ̫
◌̘ Less rounded	ɔ̘	◌̞ Palatalized	t̞ ɖ̞	◌̬ Nasal release	d̬ˀ
◌̗ Advanced	ɥ̗	◌̭ Velarized	ṱ ɖ̭	◌̮ Lateral release	d̮ˀ
◌̖ Retracted	ɛ̖	◌̯ Pharyngealized	t̯ ɖ̯	◌̰ No audible release	d̰ˀ
◌̣ Centralized	ẹ̃	◌̱ Velarized or pharyngealized	ɟ̱		
◌̤̥ Mid-centralized	ẽ̤̥	◌̲ Raised	ɹ̲ (ɹ̲ = voiced alveolar fricative)		
◌̥̤̥ Syllabic	ɲ̥̤̥	◌̳ Lowered	ɸ̳ (ɸ̳ = voiced bilabial approximant)		
◌̥̚ Non-syllabic	ɲ̥̚	◌̠ Advanced Tongue Root	ɸ̠		
◌̥̚̚̚ Rhoticity	ɹ̥̚̚̚ ɹ̥̚̚̚̚	◌̡ Retracted Tongue Root	ɸ̡		

TONES AND WORD ACCENTS

- | LEVEL | CONTOUR |
|-----------------------------------|-------------------------------|
| ẽ̥ or ̤̥ Extra high | ẽ̥ or ̤̥ Rising |
| é̥ High | ẽ̥ Falling |
| ē̥ Mid | ẽ̥ High rising |
| è̥ Low | ẽ̥ Low rising |
| ẽ̥̚ Extra low | ẽ̥̚ Rising-falling |
| ↓ Downstep | ↗ Global rise |
| ↑ Upstep | ↘ Global fall |