

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2017)

CONSONANTS (PULMONIC)

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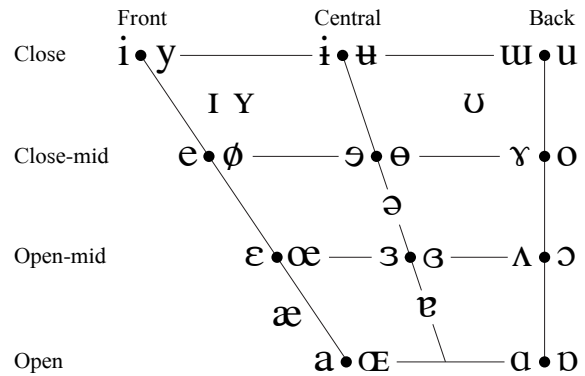
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		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
ɘ Bilabial	ɓ Bilabial	' Examples:
ɠ Dental	ɗ Dental/alveolar	p' Bilabial
ǀ (Post)alveolar	ɟ Palatal	t' Dental/alveolar
ǃ Palatoalveolar	ɡ Velar	k' Velar
ǂ Alveolar lateral	ɠ Uvular	s' Alveolar fricative

VOWELS



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

OTHER SYMBOLS

- ʍ** Voiceless labial-velar fricative **ɕ ʑ** Alveolo-palatal fricatives
 - ʋ** Voiced labial-velar approximant **ɺ** Voiced alveolar lateral flap
 - ɥ** Voiced labial-palatal approximant **ɥ̟** Simultaneous **ɥ** 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.

ts̺ **kp̺**

SUPRASEGMENTALS

- ˈ** Primary stress **ˌ** Secondary stress
- 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	ɓ̚ ɗ̚	◌̪ Dental	ɽ̪ ɻ̪
◌̜ Voiced	ɻ̜ ɽ̜	◌̝ Creaky voiced	ɓ̝ ɗ̝	◌̫ Apical	ɽ̫ ɻ̫
h Aspirated	tʰ dʰ	◌̭ Linguolabial	ɽ̭ ɻ̭	◌̬ Laminal	ɽ̬ ɻ̬
◌̙ More rounded	ɔ̙	ʷ Labialized	tʷ dʷ	◌̥̃ Nasalized	ẽ
◌̘ Less rounded	ɔ̘	j Palatalized	tʲ dʲ	ɳ̠ Nasal release	d̠ɳ̠
◌̙ Advanced	ɯ̙	Y Velarized	tʸ dʸ	ɭ Lateral release	d̠ɭ
◌̘ Retracted	ɯ̘	ʕ Pharyngealized	tʕ dʕ	◌̠ No audible release	d̠̠
◌̥ Centralized	ẽ	◌̥̃ Velarized or pharyngealized	ɬ̥̃		
◌̥ Mid-centralized	ẽ̥	◌̥̃ Raised	ɛ̥ (ɹ̥ = voiced alveolar fricative)		
◌̥ Syllabic	ɲ̥	◌̥̃ Lowered	ɛ̥̃ (β̥̃ = voiced bilabial approximant)		
◌̥ Non-syllabic	ɲ̥̥	◌̥̃ Advanced Tongue Root	ɛ̥̃̄		
◌̥ Rhoticity	ɻ̥ ɽ̥	◌̥̃ Retracted Tongue Root	ɛ̥̃̄̄		

TONES AND WORD ACCENTS

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