

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2018)

CONSONANTS (PULMONIC)

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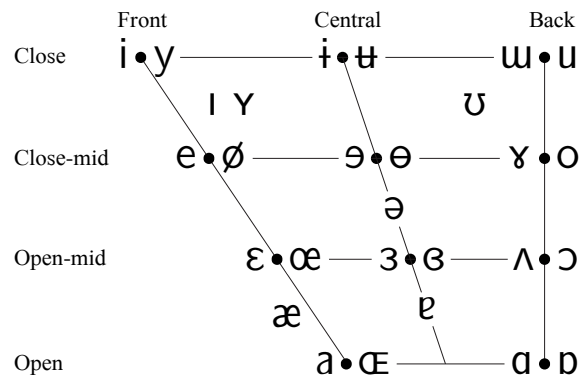
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			ʀ					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		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
◌ ʘ Bilabial	◌ ɓ Bilabial	◌ ʼ Examples:
◌ ǀ Dental	◌ ɗ Dental/alveolar	◌ pʼ Bilabial
◌ ǃ (Post)alveolar	◌ ɟ Palatal	◌ tʼ Dental/alveolar
◌ ǂ Palatoalveolar	◌ ɡ Velar	◌ kʼ Velar
◌ ǁ Alveolar lateral	◌ ɠ Uvular	◌ sʼ Alveolar fricative

VOWELS



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

OTHER SYMBOLS

- ◌ ɱ Voiceless labial-velar fricative
- ◌ ɰ Voiced labial-velar approximant
- ◌ ɲ Voiced labial-palatal approximant
- ◌ ʜ Voiceless epiglottal fricative
- ◌ ʕ Voiced epiglottal fricative
- ◌ ʡ Epiglottal plosive
- ◌ ɕ Alveolo-palatal fricatives
- ◌ ɺ Voiced alveolar lateral flap
- ◌ ɥ Simultaneous ʃ and x
- Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.

ts̺ k̟

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

◌ ɰ Voiceless	◌ ɲ̥ ɳ̥	◌ ʰ Breathy voiced	◌ ɓ̤ ɗ̤	◌ ̄ Dental	◌ t̄ d̄
◌ ̣ Voiced	◌ ɳ̣ ɲ̣	◌ ̤ Creaky voiced	◌ ɓ̤̣ ɗ̤̣	◌ ̵ Apical	◌ t̵ d̵
◌ ʰ Aspirated	◌ tʰ dʰ	◌ ̱ Linguolabial	◌ ṯ ḏ	◌ ̶ Laminar	◌ t̶ d̶
◌ ʷ More rounded	◌ ɔ̷	◌ ̷ Labialized	◌ t̷ d̷	◌ ̸ Nasalized	◌ e̸
◌ ʷ Less rounded	◌ ɔ̷̹	◌ ̹ Palatalized	◌ t̹ d̹	◌ ̹ Nasal release	◌ d̹
◌ ̠ Advanced	◌ ɥ̠	◌ ̘ Velarized	◌ t̘ d̘	◌ ̠ Lateral release	◌ d̠
◌ ̡ Retracted	◌ e̡	◌ ̡ Pharyngealized	◌ t̡ d̡	◌ ̡ No audible release	◌ d̡
◌ ̠ Centralized	◌ e̠	◌ ̠ Velarized or pharyngealized	◌ ɟ̠		
◌ ̡ Mid-centralized	◌ e̡	◌ ̡ Raised	◌ e̡ (ɹ̡ = voiced alveolar fricative)		
◌ ̠ Syllabic	◌ n̠	◌ ̠ Lowered	◌ e̠ (β̠ = voiced bilabial approximant)		
◌ ̠ Non-syllabic	◌ e̠	◌ ̠ Advanced Tongue Root	◌ e̠		
◌ ̠ Rhoticity	◌ ɹ̠ ɻ̠	◌ ̠ Retracted Tongue Root	◌ e̠		

SUPRASEGMENTALS

- ◌ ˈ Primary stress
- ◌ ˌ Secondary stress
- ◌ ː Long
- ◌ ˑ Half-long
- ◌ ˑ Extra-short
- ◌ ˑ Minor (foot) group
- ◌ ˑ Major (intonation) group
- ◌ ˑ Syllable break
- ◌ ˑ Linking (absence of a break)

TONES AND WORD ACCENTS

- | LEVEL | CONTOUR |
|---------------------|--------------------|
| ◌ ˥ or ˩ Extra high | ◌ ˥ or ˩ Rising |
| ◌ ˥ High | ◌ ˥ Falling |
| ◌ ˥ Mid | ◌ ˥ High rising |
| ◌ ˥ Low | ◌ ˥ Low rising |
| ◌ ˥ Extra low | ◌ ˥ Rising-falling |
| ◌ ˩ Downstep | ↗ Global rise |
| ◌ ˩ Upstep | ↘ Global fall |