

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2018)

CONSONANTS (PULMONIC)

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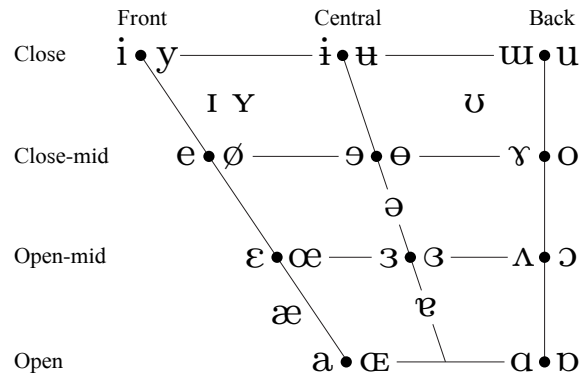
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			ʀ					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		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
- ◌ ɯ Voiced labial-velar approximant
- ◌ ɰ Voiced labial-palatal approximant
- ◌ ʜ Voiceless epiglottal fricative
- ◌ ʕ Voiced epiglottal fricative
- ◌ ʡ Epiglottal plosive
- ◌ ɕ ʑ 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.

ts kp

SUPRASEGMENTALS

- ◌ ˈ Primary stress ˌ founə ˈ tɪʃən
- ◌ ˈ Secondary stress
- ◌ ː Long eː
- ◌ ˑ Half-long eˑ
- ◌ ˘ Extra-short ɛ̘
- ◌ Minor (foot) group
- ◌ Major (intonation) group
- ◌ . Syllable break .ii.ækt
- ◌ Linking (absence of a break)

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

◌ Voiceless	◌ ɳ̊ ɳ̊	◌ ː Breathy voiced	◌ ɓ̊ ɓ̊	◌ ɲ Dental	◌ ɳ̊ ɳ̊
◌ Voiced	◌ ɳ̆ ɳ̆	◌ ~ Creaky voiced	◌ ɓ̃ ɓ̃	◌ ɳ Apical	◌ ɳ̆ ɳ̆
◌ ʰ Aspirated	◌ tʰ dʰ	◌ ~ Linguolabial	◌ t̟ d̟	◌ ɳ Laminar	◌ ɳ̆ ɳ̆
◌ ʷ More rounded	◌ ɔ̟	◌ ʷ Labialized	◌ t̟ʷ d̟ʷ	◌ ̃ Nasalized	◌ ẽ
◌ ʷ Less rounded	◌ ɔ̟	◌ ʲ Palatalized	◌ t̟ʲ d̟ʲ	◌ ̠ Nasal release	◌ d̠
◌ ˠ Advanced	◌ ɸ	◌ ˠ Velarized	◌ t̟ˠ d̟ˠ	◌ ˡ Lateral release	◌ dˡ
◌ ˡ Retracted	◌ e̠	◌ ˠ Pharyngealized	◌ t̟ˠ d̟ˠ	◌ ˠ No audible release	◌ dˠ
◌ ̥ Centralized	◌ e̥	◌ ~ Velarized or pharyngealized	◌ ɟ̠		
◌ ̘ Mid-centralized	◌ e̘	◌ ˤ Raised	◌ e̠ (ɹ̠ = voiced alveolar fricative)		
◌ ˩ Syllabic	◌ n̩	◌ ˩ Lowered	◌ e̠ (β̠ = voiced bilabial approximant)		
◌ ̥ Non-syllabic	◌ e̥	◌ ˠ Advanced Tongue Root	◌ e̠		
◌ ̣ Rhoticity	◌ ə̣ ɤ̣	◌ ˠ Retracted Tongue Root	◌ e̠		

TONES AND WORD ACCENTS

- | LEVEL | CONTOUR |
|--------------|--------------------|
| ◌ ẽ or ̥ | ◌ ẽ or ̥ Rising |
| ◌ é | ◌ ẽ Falling |
| ◌ ē | ◌ ẽ High rising |
| ◌ è | ◌ ẽ Low rising |
| ◌ ẽ | ◌ ẽ Rising-falling |
| ◌ ˩ Downstep | ↗ Global rise |
| ◌ ˩ Upstep | ↘ Global fall |