

THE INTERNATIONAL PHONETIC ALPHABET (revised to 1993)

CONSONANTS (PULMONIC)

	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				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			

Where symbols appear in pairs, the one to the right represents a voiced consonant. Shaded areas denote articulations judged impossible.

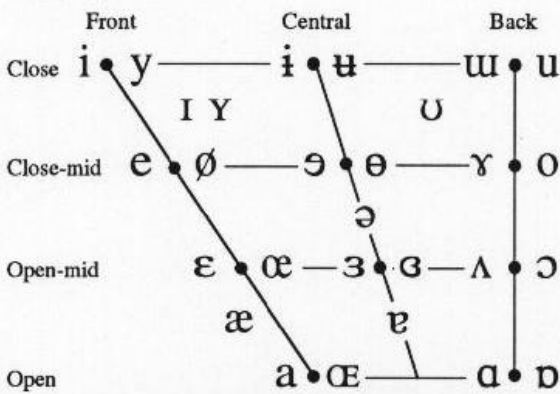
CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
⊙ Bilabial	ɓ Bilabial	ʼ as in:
Dental	ɗ Dental/alveolar	ɓ' Bilabial
! (Post)alveolar	ɠ Palatal	ɗ' Dental/alveolar
≠ Palatoalveolar	ɡ Velar	k' Velar
Alveolar lateral	ɠ Uvular	s' Alveolar fricative

SUPRASEGMENTALS

	TONES & WORD ACCENTS
	LEVEL CONTOUR
ˈ Primary stress	founəˈtɪʃən
ˌ Secondary stress	ẽ or ˈ Extra high
ː Long	é ˈ High
ˑ Half-long	ē ˌ Mid
ˑ Extra-short	è ˌ Low
· Syllable break	ii.ækt
Minor (foot) group	ẽ ˌ Extra low
Major (intonation) group	↓ Downstep
˘ Linking (absence of a break)	↑ Upstep
	↗ Global rise etc.
	↘ Global fall

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 Alveolar lateral flap
ɥ Voiced labial-palatal approximant	ɺɥ Simultaneous ʃ and x
ħ Voiceless epiglottal fricative	Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.
ʕ Voiced epiglottal fricative	
ʡ Epiglottal plosive	kp̥ ts̥

DIACRITICS

Diacritics may be placed above a symbol with a descender, e.g. ɲ̥

◌ Voiceless	◌̥ n̥ d̥	◌ Breathy voiced	◌̤ b̤ a̤	◌ Dental	◌̪ t̪ d̪
◌ Voiced	◌̬ s̬ ʒ̬	◌ Creaky voiced	◌̰ b̰ a̰	◌ Apical	◌̺ t̺ d̺
◌ Aspirated	◌ʰ tʰ dʰ	◌ Linguolabial	◌̻ t̻ d̻	◌ Laminal	◌̽ t̽ d̽
◌ More rounded	◌̹ ɔ̹	◌ Labialized	◌ʷ tʷ dʷ	◌ Nasalized	◌̃ ẽ
◌ Less rounded	◌̜ ɔ̜	◌ Palatalized	◌ʲ tʲ dʲ	◌ Nasal release	◌̚ d̚
◌ Advanced	◌̟ ɹ̟	◌ Velarized	◌̠ t̠ d̠	◌ Lateral release	◌̜ d̜
◌ Retracted	◌̠ ɹ̠	◌ Pharyngealized	◌̡ t̡ d̡	◌ No audible release	◌̚ d̚
◌ Centralized	◌̠ ẽ̠	◌ Velarized or pharyngealized	◌̤ t̤		
◌ Mid-centralized	◌̠ ẽ̠	◌ Raised	◌̥ (ɹ̥ = voiced alveolar fricative)		
◌ Syllabic	◌̩ ɹ̩	◌ Lowered	◌̥ (β̥ = voiced bilabial approximant)		
◌ Non-syllabic	◌̥ ɹ̥	◌ Advanced Tongue Root	◌̠ ɹ̠		
◌ Rhoticity	◌̠ ɹ̠	◌ Retracted Tongue Root	◌̡ ɹ̡		