

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.

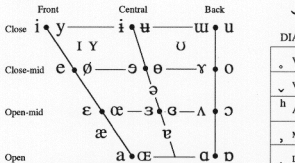
CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives		Ejectives
ʘ Bilabial	ɓ Bilabial		ʼ as in:
ǀ Dental	ɗ Dental/alveolar	ɓ' Bilabial	
ǃ (Post)alveolar	ɟ Palatal	ɗ' Dental/alveolar	
ǃ' Palatoalveolar	ɠ Velar	ɟ' Velar	
ǁ Alveolar lateral	ɡ Uvular	ɠ' Alveolar fricative	

SUPRASEGMENTALS

	TONES & WORD ACCENTS
	LEVEL CONTOUR
ˈ Primary stress	founˈɑːtɪʃən
ˌ Secondary stress	ˌ
ː Long	eː
ˑ Half-long	eˑ
ˑˑ Extra-short	eˑˑ
ˑˑˑ Syllable break	ɪ.ækt
ˑˑˑˑ Minor (foot) group	ˑˑˑˑ
ˑˑˑˑˑ Major (intonation) group	ˑˑˑˑˑ
ˑˑˑˑˑˑ Linking (absence of a break)	ˑˑˑˑˑˑ
	↗ Extra high
	↖ High
	↔ Mid
	↘ Low
	↙ Extra low
	↕ Downstep
	↗ Upstep
	↗ Rising
	↘ Falling
	↗ High rising
	↘ Low rising
	↗ Rising-falling etc.
	↕ Global rise
	↘ Global fall

VOWELS



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

OTHER SYMBOLS

ɱ Voiceless labial-velar fricative	ɕ ʑ Alveolo-palatal fricatives
ɰ Voiced labial-velar approximant	ɭ Alveolar lateral flap
ɰ Voiced labial-palatal approximant	ɥ Simultaneous ʃ and ɣ
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	
ʕ Epiglottal plosive	kp ts

DIACRITICS

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

◌̥ Voiceless	◌̤ n̤ d̤	◌̥ Breathy voiced	◌̤ b̤ ɗ̤	◌̥ Dental	◌̤ t̤ ɖ̤
◌̦ Voiced	◌̧ ş ʒ̧	◌̥ Creaky voiced	◌̤ b̤ ɗ̤	◌̥ Apical	◌̤ t̤ ɖ̤
◌̨ Aspirated	t̨ d̨	◌̥ Linguolabial	◌̤ t̤ ɖ̤	◌̥ Laminal	◌̤ t̤ ɖ̤
◌̩ More rounded	ɔ̩	◌̥ Labialized	tʷ dʷ	◌̥ Nasalized	ẽ
◌̪ Less rounded	ɔ̪	◌̥ Palatalized	tʲ dʲ	◌̥ Nasal release	d̪ⁿ
◌̫ Advanced	ɥ	◌̥ Velarized	tʷ dʷ	◌̥ Lateral release	d̪ˡ
◌̬ Retracted	ɰ	◌̥ Pharyngealized	tˤ dˤ	◌̥ No audible release	d̪˦
◌̭ Centralized	ẽ	◌̥ Velarized or pharyngealized	ɰ		
◌̮ Mid-centralized	ẽ	◌̥ Raised	e̥ (ɰ = voiced alveolar fricative)		
◌̯ Syllabic	ɰ	◌̥ Lowered	e̥ (β̥ = voiced bilabial approximant)		
◌̰ Non-syllabic	ḛ	◌̥ Advanced Tongue Root	ḛ		
◌̱ Rhoticity	ə̱	◌̥ Retracted Tongue Root	e̱		