

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			r					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.

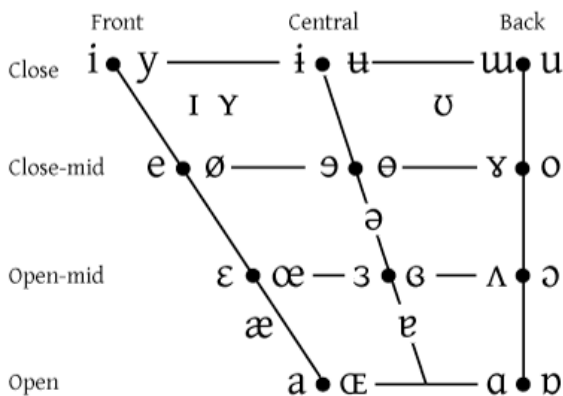
CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
◉ Bilabial	ɓ Bilabial	as in: ʼ
ǀ Dental	ɗ Dental/alveolar	pʼ Bilabial
ǃ (Post)alveolar	ɟ Palatal	tʼ Dental/alveolar
ǁ Palatoalveolar	ɡ Velar	kʼ Velar
ǂ Alveolar lateral	ɠ Uvular	sʼ Alveolar fricative

SUPRASEGMENTALS

	TONES & WORD ACCENTS
ˈ Primary stress	LEVEL
ˌ Secondary stress	ˈ Extra high
ː Long	ˈ High
ˑ Half-long	ˈ Mid
ˑ Extra-short	ˈ Low
ˑ Syllable break	ˈ Extra low
ˑ Minor (foot) group	ˈ Downstep
ˑ Major (intonation) group	ˈ Upstep
ˑ Linking (absence of a break)	ˈ Global rise etc.
	ˈ Global fall

VOWELS



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

OTHER SYMBOLS

ɱ Voiceless labial-velar fricative	ɰ Alveolo-palatal fricatives
ɰ Voiced labial-velar approximant	ɻ Alveolar lateral flap
ɰ Voiced labial-palatal approximant	ɰ Simultaneous ʃ and x
ɰ Voiceless epiglottal fricative	Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary
ɰ Voiced epiglottal fricative	
ɰ Epiglottal plosive	

k͡p t͡s

DIACRITICS

◌ Voiceless	◌ Breathy voiced	◌ Dental
◌ Voiced	◌ Creaky voiced	◌ Apical
◌ Aspirated	◌ Linguolabial	◌ Laminal
◌ More rounded	◌ Labialized	◌ Nasalized
◌ Less rounded	◌ Palatalized	◌ Nasal release
◌ Advanced	◌ Velarized	◌ Lateral release
◌ Retracted	◌ Pharyngealized	◌ No audible release
◌ Centralized	◌ Velarized or pharyngealized	
◌ Mid-centralized	◌ Raised	
◌ Syllabic	◌ Lowered	
◌ Non-syllabic	◌ Advanced Tongue Root	
◌ Rhoticity	◌ Retracted Tongue Root	