

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.

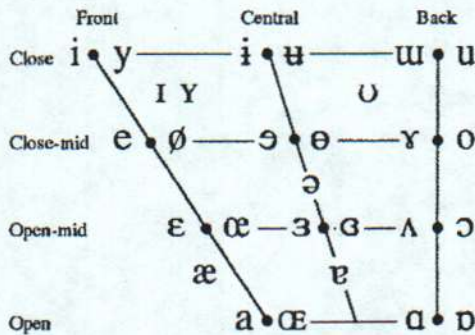
CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives		Ejectives
◌ Bilabial	ɓ	Bilabial	ʼ as in:
Dental	ɗ	Dental/alveolar	p' Bilabial
! (Post)alveolar	ɟ	Palatal	t' Dental/alveolar
≠ Palatoalveolar	ɠ	Velar	k' Velar
Alveolar lateral	ɣ	Uvular	s' Alveolar fricative

SUPRASEGMENTALS

	TONES & WORD ACCENTS	
	LEVEL	CONTOUR
ˈ Primary stress	founə'tɪʃən	↗ Extra high
ˌ Secondary stress		↘ or ↗ Rising
ː Long	eː	↗ High
ˑ Half-long	eˑ	↔ Mid
ˑ Extra-short	e̘	↘ Low
· Syllable break	ii.ækt	↘ Extra low
Minor (foot) group		↘ Rising-falling etc.
Major (intonation) group		↓ Downstep
ˆ Linking (absence of a break)		↑ Upstep

VOWELS



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

OTHER SYMBOLS

ʌ Voiceless labial-velar fricative	ɕ ʑ Alveolo-palatal fricatives
ʋ Voiced labial-velar approximant	ɭ Alveolar lateral flap
ɰ Voiced labial-palatal approximant	ɥ Simultaneous ʃ and ɰ
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	ᵿ ɖ̥	.. Breathily voiced	ᵿ ɖ̤	◌ Dental	ᵿ ɖ̤
◌ Voiced	ᵿ ɖ̤	~ Creaky voiced	ᵿ ɖ̤	◌ Apical	ᵿ ɖ̤
ᵿ Aspirated	ᵿʰ ɖʰ	~ Linguolabial	ᵿ ɖ̤	◌ Laminal	ᵿ ɖ̤
◌ More rounded	ᵿ̤	ᵿᵂ Labialized	ᵿʷ ɖʷ	~ Nasalized	ᵿ̃
◌ Less rounded	ᵿ̥	j Palatalized	ᵿʲ ɖʲ	◌ Nasal release	ᵿ̃ᵰ
◌ Advanced	ᵿ̟	Y Velarized	ᵿʷ ɖʷ	◌ Lateral release	ᵿ̃ᵰ
◌ Retracted	ᵿ̠	ɣ Pharyngealized	ᵿˠ ɖˠ	◌ No audible release	ᵿ̃
◌ Centralized	ᵿ̠	~ Velarized or pharyngealized	ᵿ̤		
◌ Mid-centralized	ᵿ̠	◌ Raised	ᵿ̥ (ᵿ̥ = voiced alveolar fricative)		
◌ Syllabic	ᵿ̥	◌ Lowered	ᵿ̥ (ᵿ̥ = voiced bilabial approximant)		
◌ Non-syllabic	ᵿ̥	◌ Advanced Tongue Root	ᵿ̥		
◌ Rhoticity	ᵿ̥	◌ Retracted Tongue Root	ᵿ̥		