

# THE INTERNATIONAL PHONETIC ALPHABET (revised to 2005)

CONSONANTS (PULMONIC)

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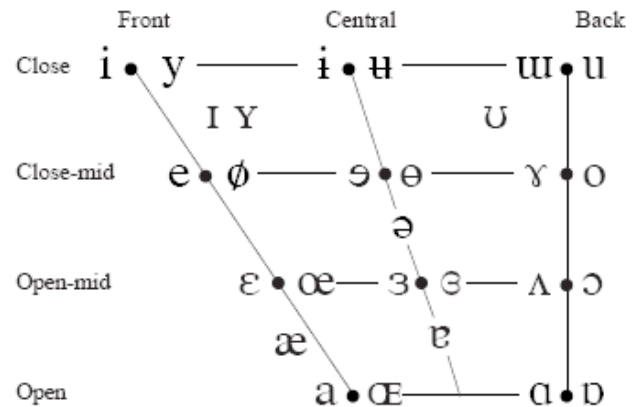
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
Tap or Flap				ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		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	◌ ◌ Examples:
◌ ◌ Dental	ɗ Dental/alveolar	◌ ◌ Bilabial
◌ ◌ (Post)alveolar	ɟ Palatal	◌ ◌ Dental/alveolar
◌ ◌ Palatoalveolar	ɠ Velar	◌ ◌ Velar
◌ ◌ Alveolar lateral	ɠ Uvular	◌ ◌ Alveolar fricative

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

kp̥ ts̚

SUPRASEGMENTALS

ˈ	Primary stress		
ˌ	Secondary stress		
ː	Long	eː	founəˈtɪʃən
ˑ	Half-long	eˑ	
◌◌	Extra-short	ɛ̞	
◌◌◌	Minor (foot) group		
◌◌◌◌	Major (intonation) group		
◌◌◌◌◌	Syllable break	ti.ækt	
◌◌◌◌◌◌	Linking (absence of a break)		

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

◌◌	Voiceless	ɱ ◌	◌◌	Breathily voiced	ɓ ◌	◌◌	Dental	◌ ◌
◌◌	Voiced	ɗ ◌	◌◌	Creaky voiced	ɟ ◌	◌◌	Apical	◌ ◌
◌◌	Aspirated	ɰ ◌	◌◌	Linguolabial	ɸ ◌	◌◌	Laminal	◌ ◌
◌◌	More rounded	ɰ ◌	◌◌	Labialized	ɓˠ ◌	◌◌	Nasalized	◌ ◌
◌◌	Less rounded	ɰ ◌	◌◌	Palatalized	ɟʲ ◌	◌◌	Nasal release	◌ˠ
◌◌	Advanced	ɰ ◌	◌◌	Velarized	ɟˠ ◌	◌◌	Lateral release	◌ˡ
◌◌	Retracted	ɰ ◌	◌◌	Pharyngealized	ɟˤ ◌	◌◌	No audible release	◌˥
◌◌	Centralized	ɰ ◌	◌◌	Velarized or pharyngealized	ɟˤ ◌			
◌◌	Mid-centralized	ɰ ◌	◌◌	Raised	ɰ ◌	(ɟ = voiced alveolar fricative)		
◌◌	Syllabic	ɱ ◌	◌◌	Lowered	ɰ ◌	(ɓ = voiced bilabial approximant)		
◌◌	Non-syllabic	ɰ ◌	◌◌	Advanced Tongue Root	ɰ ◌			

TONES AND WORD ACCENTS LEVEL CONTOUR

é̌ or ɛ̌	Extra high	ě̌ or ɛ̌	Rising
é̇ or ɛ̇	High	ě̇ or ɛ̇	Falling
ē̇ or ɛ̇	Mid	ě̇ or ɛ̇	High rising
è̇ or ɛ̇	Low	ě̇ or ɛ̇	Low rising
ě̇ or ɛ̇	Extra low	ě̇ or ɛ̇	Rising-falling
↓	Downstep	↗	Global rise

˘ Rhoticity ə˘ a˘ | ɹ Retracted Tongue Root ɛ

˘ Upstep

↘ Global fall