

# THE INTERNATIONAL PHONETIC ALPHABET (revised to 2005)

CONSONANTS (PULMONIC)

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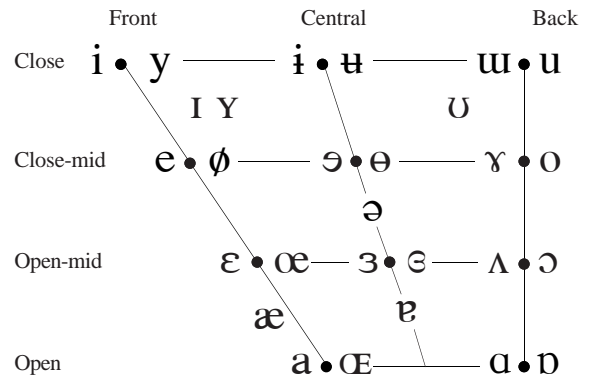
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		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
◌ ɸ	ɓ Bilabial	ʼ Examples:
◌ ǀ	ɗ Dental/alveolar	ɓ' Bilabial
◌ ǃ	ɟ Palatal	ɗ' Dental/alveolar
◌ ǂ	ɡ Velar	ɟ' Velar
◌ ǁ	ɠ Alveolar lateral	ɠ' Alveolar fricative

VOWELS



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

OTHER SYMBOLS

ɱ	Voiceless labial-velar fricative	ç ʝ	Alveolo-palatal fricatives
ʋ	Voiced labial-velar approximant	ɻ	Voiced alveolar lateral flap
ɰ	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.
ʔ	Epiglottal plosive		

kp̚ ts̚

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

◌ <sup>◌</sup>	Voiceless	◌̥ ◌̜	◌̤	Breathy voiced	◌̤ ◌̜	◌̦	Dental	◌̦ ◌̧
◌̣	Voiced	◌̣ ◌̤	◌̥	Creaky voiced	◌̥ ◌̜	◌̦	Apical	◌̦ ◌̧
◌̨	Aspirated	◌̨ ◌̩	◌̥	Linguolabial	◌̥ ◌̜	◌̦	Laminal	◌̦ ◌̧
◌̙	More rounded	◌̙	◌̤	Labialized	◌̤ ◌̜	◌̦	Nasalized	◌̦̃
◌̘	Less rounded	◌̘	◌̤	Palatalized	◌̤ ◌̜	◌̦	Nasal release	◌̦ <sup>n</sup>
◌̙	Advanced	◌̙	◌̤	Velarized	◌̤ ◌̜	◌̦	Lateral release	◌̦ <sup>l</sup>
◌̘	Retracted	◌̘	◌̤	Pharyngealized	◌̤ ◌̜	◌̦	No audible release	◌̦̚
◌̚	Centralized	◌̚	◌̤	Velarized or pharyngealized	◌̤ ◌̜			
◌̘	Mid-centralized	◌̘	◌̤	Raised	◌̤ (ɹ̥ = voiced alveolar fricative)			
◌̙	Syllabic	◌̙	◌̤	Lowered	◌̤ (β̥ = voiced bilabial approximant)			
◌̚	Non-syllabic	◌̚	◌̤	Advanced Tongue Root	◌̤			
◌̚	Rhoticity	◌̚ ◌̜	◌̤	Retracted Tongue Root	◌̤			

SUPRASEGMENTALS

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

TONES AND WORD ACCENTS

LEVEL	CONTOUR		
é̥ or ˥	˥ Extra high	é̥ or ˨	˨ Rising
é̄	˨ High	é̄	˨ Falling
ē	˨ Mid	ē	˨ High rising
è	˨ Low	è	˨ Low rising
è̥	˨ Extra low	è̥	˨ Rising-falling
↓	Downstep	↗	Global rise
↑	Upstep	↘	Global fall