

# THE INTERNATIONAL PHONETIC ALPHABET (revised to 1993, updated 1996)

## CONSONANTS (PULMONIC)

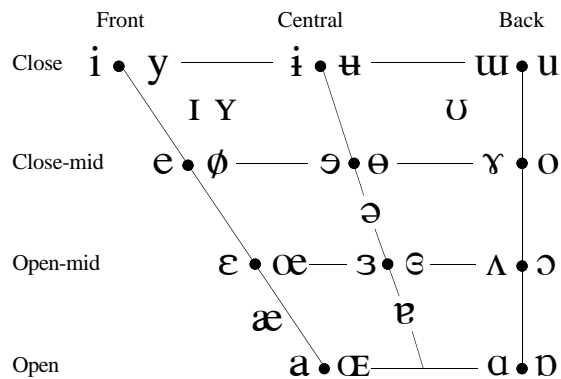
	Bilabial	Labiodental	Dental	Alveolar	Post-alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			ʀ					ʀ		
Tap or Flap				ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		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
◌ ɸ	ɓ Bilabial	ʼ Examples:
◌ ǀ	ɗ Dental/alveolar	ɸ' Bilabial
◌ ǃ	ɟ Palatal	t' Dental/alveolar
◌ ǂ	ɡ Velar	k' Velar
◌ ǁ	ɠ Alveolar lateral	s' 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
w	Voiced labial-velar approximant	ɺ	Alveolar lateral flap
ɥ	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	◌̛̟
◌̤̑	Advanced	◌̤̑	◌̤̒	◌̤̓ ◌̤̔	Velarized	◌̠̕ ◌̖̠	◌̗̠ ◌̘̠	◌̙̠ ◌̠̚	Lateral release	◌̛̠
◌̥̑	Retracted	◌̥̑	◌̥̒	◌̥̓ ◌̥̔	Pharyngealized	◌̡̕ ◌̡̖	◌̡̗ ◌̡̘	◌̡̙ ◌̡̚	No audible release	◌̡̛
◌̑̇	Centralized	◌̑̇	◌̒̇	◌̓̇ ◌̔̇	Velarized or pharyngealized	◌̣̕ ◌̖̣	◌̗̣ ◌̘̣	◌̙̣ ◌̣̚		
◌̑̈	Mid-centralized	◌̑̈	◌̒̈	◌̓̈ ◌̔̈	Raised	◌̥̕ ◌̖̥ (ɹ̥ = voiced alveolar fricative)	◌̗̥ ◌̘̥	◌̙̥ ◌̥̚		
◌̑̉	Syllabic	◌̑̉	◌̒̉	◌̓̉ ◌̔̉	Lowered	◌̜̕ ◌̖̜ (β̜ = voiced bilabial approximant)	◌̗̜ ◌̘̜	◌̙̜ ◌̜̚		
◌̑̊	Non-syllabic	◌̑̊	◌̒̊	◌̓̊ ◌̔̊	Advanced Tongue Root	◌̟̕ ◌̖̟	◌̗̟ ◌̘̟	◌̙̟ ◌̟̚		
◌̑̋	Rhoticity	◌̑̋ ◌̒̋	◌̓̋ ◌̔̋	◌̟̕ ◌̖̟	Retracted Tongue Root	◌̡̕ ◌̡̖	◌̡̗ ◌̡̘	◌̡̙ ◌̡̚		

## SUPRASEGMENTALS

ˈ	Primary stress	
ˌ	Secondary stress	
ː	Long	ˌfounəˈtɪʃən
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	e or ˨	˨ Rising
é	˥ High	˥̂	˥̂ Falling
ē	˥̄ Mid	˥̄̂	˥̄̂ High rising
è	˥̇ Low	˥̇̂	˥̇̂ Low rising
è̥	˥̇̇ Extra low	˥̇̇̂	˥̇̇̂ Rising-falling
↓	Downstep	↗	↗ Global rise
↑	Upstep	↘	↘ Global fall