

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		ɳ̠	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.

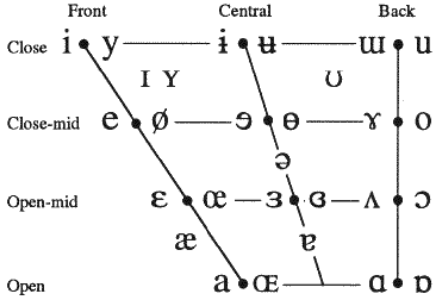
CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
◌ ʘ Bilabial	ɓ Bilabial	ʼ as in:
◌ ǀ Dental	ɗ Dental/alveolar	ɓ' Bilabial
◌ ǃ (Post)alveolar	ɟ Palatal	ɗ' Dental/alveolar
◌ ǁ Palatoalveolar	ɠ Velar	ɟ' Velar
◌ ǂ Alveolar lateral	ɣ Uvular	ɠ' Alveolar fricative

SUPRASEGMENTALS

	TONES & WORD ACCENTS
	LEVEL CONTOUR
' Primary stress	fou ^ˈ nə'tɪʃən
ˈ Secondary stress	é or ɛ
ˌ Long	eː
ː Half-long	eˑ
ˑ Extra-short	e̘
· Syllable break	ii.ækt
◌ Minor (foot) group	è
◌ Major (intonation) group	ē
◌ Linking (absence of a break)	↘
	↓ Downstep
	↑ Upstep
	↗ Global rise etc.
	↘ Global fall

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 Alveolar lateral flap
ɥ Voiced labial-palatal approximant	ɧ Simultaneous ʃ and x
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	kp̣ tṣ

DIACRITICS

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

◌ 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	

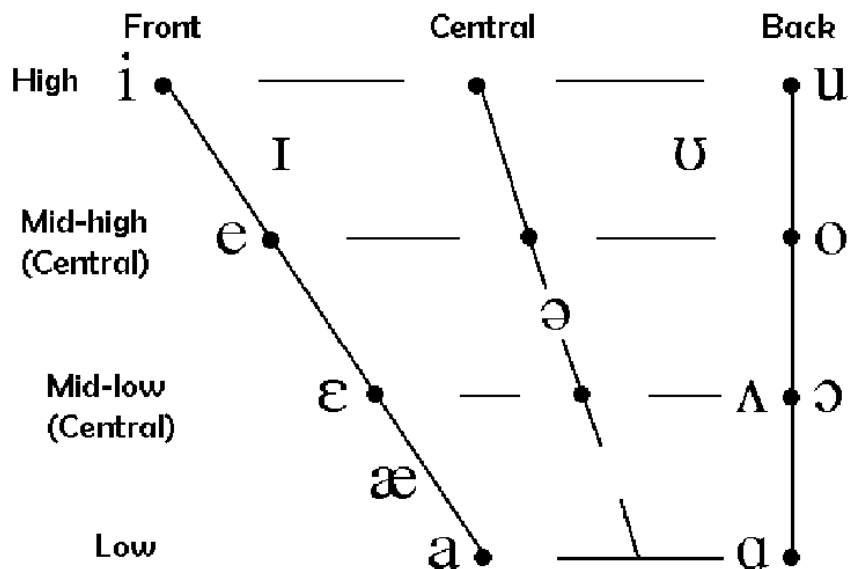
ENGLISH

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Tap or Flap				ɾ							
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Lateral fricative											
Approximant				ɹ			j				
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