

THE INTERNATIONAL PHONETIC ALPHABET

CONSONANTS (PULMONIC)

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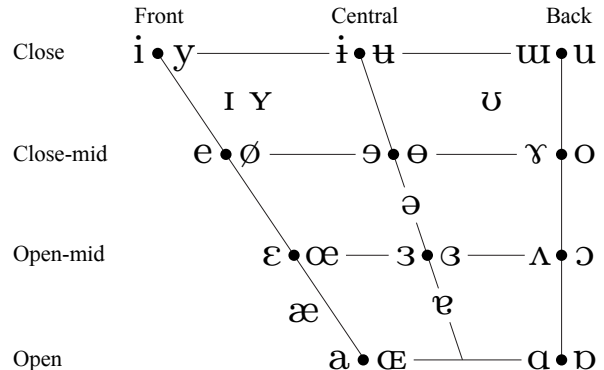
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b		t d			ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ	n			ɳ	ɲ	ŋ	ɴ		
Trill	ʙ		r						ʀ		
Tap or Flap		ⱱ	ɾ			ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative			ɬ ɮ								
Approximant		ʋ	ɹ			ɻ	j	ɰ			
Lateral approximant			l			ɭ	ʎ	ʟ			

Symbols to the right in a cell are voiced, to the left are voiceless. Shaded areas denote articulations judged impossible.

CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
◌Ꞥ Bilabial	◌ɓ Bilabial	◌' Examples:
◌ǀ Dental	◌ɗ Dental/alveolar	◌p' Bilabial
◌ǃ (Post)alveolar	◌ɟ Palatal	◌t' Dental/alveolar
◌ǂ Palatoalveolar	◌ɡ Velar	◌k' Velar
◌ǁ Alveolar lateral	◌ɠ Uvular	◌s' Alveolar fricative

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

$$\text{ts} \quad \widehat{\text{kp}}$$

SUPRASEGMENTALS

	Primary stress	ˈ	fəʊnəˈtɪʃən
	Secondary stress		
ː	Long	eː	
ˑ	Half-long	eˑ	
˘	Extra-short	ĕ	
	Minor (foot) group		
	Major (intonation) group		
.	Syllable break		ˌɪ.ækt
ˌ	Linking (absence of a break)		

DIACRITICS

◌ Voiceless	$\text{p} \quad \text{t} \quad \text{k}$	◌ Breathy voiced	$\text{p}^h \quad \text{t}^h \quad \text{k}^h$	◌ Dental	$\text{t}^d \quad \text{d}^d$
◌ Voiced	$\text{b} \quad \text{d} \quad \text{g}$	◌ Creaky voiced	$\text{b}^c \quad \text{d}^c \quad \text{g}^c$	◌ Apical	$\text{t}^a \quad \text{d}^a$
◌ Aspirated	$\text{p}^h \quad \text{t}^h \quad \text{k}^h$	◌ Linguolabial	$\text{t}^l \quad \text{d}^l$	◌ Laminal	$\text{t}^l \quad \text{d}^l$
◌ More rounded	$\text{ɔ} \quad \text{ɔ}^r$	◌ Labialized	$\text{t}^w \quad \text{d}^w$	◌ Nasalized	ẽ
◌ Less rounded	$\text{ɔ} \quad \text{ɔ}^r$	◌ Palatalized	$\text{t}^j \quad \text{d}^j$	◌ Nasal release	d^n
◌ Advanced	$\text{u} \quad \text{u}^a$	◌ Velarized	$\text{t}^v \quad \text{d}^v$	◌ Lateral release	d^l
◌ Retracted	$\text{e} \quad \text{e}^r$	◌ Pharyngealized	$\text{t}^f \quad \text{d}^f$	◌ No audible release	d^0
◌ Centralized	$\text{ẽ} \quad \text{ẽ}^r$	◌ Velarized or pharyngealized	ɮ		
◌ Mid-centralized	$\text{ẽ} \quad \text{ẽ}^r$	◌ Raised	$\text{e} \quad (\text{ɹ} = \text{voiced alveolar fricative})$		
◌ Syllabic	$\text{n} \quad \text{n}^s$	◌ Lowered	$\text{e} \quad (\text{ɸ} = \text{voiced bilabial approximant})$		
◌ Non-syllabic	$\text{e} \quad \text{e}^s$	◌ Advanced Tongue Root	$\text{e} \quad \text{e}^a$		
◌ Rhoticity	$\text{ɹ} \quad \text{ɹ}^h$	◌ Retracted Tongue Root	$\text{e} \quad \text{e}^r$		

Some diacritics may be placed above a symbol with a descender, e.g. $\mathring{\mathfrak{h}}$

TONES AND WORD ACCENTS

LEVEL		CONTOUR	
ě or ǃ	Extra high	ě or ǃ	Rising
é	High	ê	Falling
ē	Mid	ẽ	High rising
è	Low	ẽ	Low rising
ě	Extra low	ẽ	Rising-falling
↓	Downstep	↗	Global rise
↑	Upstep	↘	Global fall