

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	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			

CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
◌ ɓ Bilabial	ɓ Bilabial	ʼ Examples:
◌ ɗ Dental	ɗ Dental/alveolar	pʼ Bilabial
! ◌ ɗ (Post)alveolar	f Palatal	tʼ Dental/alveolar
≠ ◌ ɗ Palatoalveolar	ɠ Velar	kʼ Velar
◌ ɗ Alveolar lateral	ɠ Uvular	sʼ Alveolar fricative

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 can be represented by two symbols joined by a tie bar if necessary.
ʡ Epiglottal plosive	

◦ Voiceless	<u>n</u> <u>d</u>	◌̤ Breathy voiced	<u>b</u> <u>a</u>	◌̚ Dental	<u>t</u> <u>d</u>
◌ Voiced	<u>s</u> <u>t</u>	◌̰ Creaky voiced	<u>b̰</u> <u>a̰</u>	◌̚ Apical	<u>t̚</u> <u>d̚</u>
h Aspirated	<u>t^h</u> <u>d^h</u>	◌̱ Linguolabial	<u>ṯ</u> <u>ḏ</u>	◌̚ Laminar	<u>t̚</u> <u>d̚</u>
◌ More rounded	<u>ɔ̹</u>	◌̜ Labialized	<u>t^w</u> <u>d^w</u>	◌̚ Nasalized	<u>ẽ</u>
◌ Less rounded	<u>ɔ̜</u>	◌̝ Palatalized	<u>t̝</u> <u>d̝</u>	◌̚ Nasal release	<u>dⁿ</u>
◌ Advanced	<u>u̟</u>	◌̞ Velarized	<u>t̞</u> <u>d̞</u>	◌̚ Lateral release	<u>d^l</u>
◌ Retracted	<u>e̠</u>	◌̠ Pharyngealized	<u>t̠</u> <u>d̠</u>	◌̚ No audible release	<u>d̠</u>
◌ Centralized	<u>ẽ</u>	◌̡ Velarized or pharyngealized	<u>t̡</u>		
× Mid-centralized	<u>ẽ̘</u>	◌̥ Raised	<u>e̥</u> (<u>I̥</u> = voiced alveolar fricative)		
◌ Syllabic	<u>n̩</u>	◌̥ Lowered	<u>e̥</u> (<u>β̥</u> = voiced bilabial approximant)		
◌ Non-syllabic	<u>e̥</u>	◌̥ Advanced Tongue Root	<u>e̥</u>		
◌ Rhoticity	<u>ə̤</u> <u>a̤</u>	◌̥ Retracted Tongue Root	<u>e̥</u>		

SUPRASEGMENTALS

- Primary stress ˈfəʊnəˈtɪʃən
Secondary stress
Long eː
Half-long eʹ
Extra-short ě
Minor (foot) group
Major (intonation) group
Syllable break ˌni.ækt
Linking (absence of a break)

TONES AND WORD ACCENTS

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