

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)

VOWELS



ɱ Voiceless labial-velar fricative	ɕ ʑ Alveolo-palatal fricatives
ɯ Voiced labial-velar approximant	ɺ Voiced alveolar lateral flap
ɥ Voiced labial-palatal approximant	ɧ Simultaneous ɧ 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.

Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.

ts kp

	Primary stress	,fəʊnə' tɪʃən
	Secondary stress	
ː	Long	eː
ˑ	Half-long	eˑ
˘	Extra-short	ĕ
	Minor (foot) group	
	Major (intonation) group	
.	Syllable break	.ɪ.ækt
ˌ	Linking (absence of a break)	

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

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