

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			

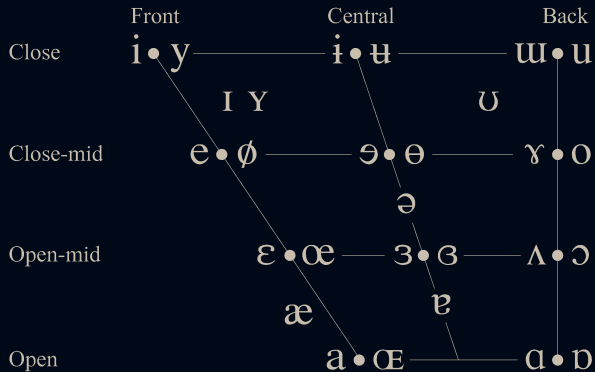
CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
◌ [◌] Bilabial	ɓ Bilabial	ʼ Examples:
◌ [◌] Dental	ɗ Dental/alveolar	pʼ Bilabial
◌ [◌] (Post)alveolar	ɟ Palatal	tʼ Dental/alveolar
◌ [◌] Palatoalveolar	ɡ Velar	kʼ Velar
◌ [◌] 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	ɥ̟ Simultaneous ɥ and ɣ
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.

◌	Voiceless	n̥ d̥	..	Breathy voiced	b̤ a̤	ᵰ	Dental	t̪ d̪		
˗	Voiced	s̹ t̹	~	Creaky voiced	b̰ a̰	ᵱ	Apical	t̺ d̺		
ʰ	Aspirated	tʰ dʰ	̚	Linguolabial	t̼ d̼	ᶞ	Laminal	t̻ d̻		
ɔ̹	More rounded	ɔ̹	ᵂ	Labialized	tʷ dʷ	̃	Nasalized	ẽ		
ç	Less rounded	ɔ̠	j̟	Palatalized	tʲ dʲ	ⁿ	Nasal release	dⁿ		
+	Advanced	u͡	ʏ̟	Velarized	tʷ dʷ	ˀ	Lateral release	dˀ		
-	Retracted	e̠	ħ	Pharyngealized	tˤ dˤ	ˁ	No audible release	dˁ		
˙	Centralized	ë	̯	Velarized or pharyngealized		ɫ				
×	Mid-centralized	ẽ	̝	Raised	e̝ (ɿ = voiced alveolar fricative)					
ı	Syllabic	ɳ	̞	Lowered	e̞ (β̞ = voiced bilabial approximant)					
̠	Non-syllabic	e̠	̠	Advanced Tongue Root	e̠					
̡	Rhoticity	ə̡ a̡	̡	Retracted Tongue Root	e̡					

VOWELS



SUPRASEGMENTALS

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

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