

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2018)

CONSONANTS (PULMONIC)

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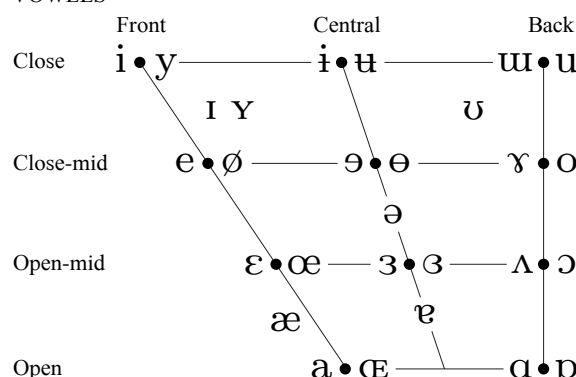
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant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

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 Voiced 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	

ts kp

SUPRASEGMENTALS

ˈ Primary stress	ˌfounəˈtɪʃən
ˈ Secondary stress	
ː Long	eː
ˑ Half-long	eˑ
◌ Extra-short	ẽ
Minor (foot) group	
Major (intonation) group	
· Syllable break	ˌi.ækt
◌ Linking (absence of a break)	

TONES AND WORD ACCENTS

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

DIACRITICS Some diacritics may be placed above a symbol with a descender, e.g. ɲ̃

◌ Voiceless	ᵿ ɖ̥	◌ Breathy voiced	ᵿ ɖ̤	◌ Dental	ᵿ ɖ̪
◌ Voiced	ᵿ ɖ̤	◌ Creaky voiced	ᵿ ɖ̥	◌ Apical	ᵿ ɖ̪
ᵿ Aspirated	ᵿ ɖ̤ᵿ	◌ Linguolabial	ᵿ ɖ̪	◌ Laminal	ᵿ ɖ̪
◌ More rounded	ᵿ	◌ Labialized	ᵿᵿ ɖ̪ᵿ	◌ Nasalized	ᵿ̃
◌ Less rounded	ᵿ	◌ Palatalized	ᵿʲ ɖ̪ʲ	◌ Nasal release	ᵿⁿ
◌ Advanced	ᵿ̟	◌ Velarized	ᵿˠ ɖ̪ˠ	◌ Lateral release	ᵿˡ
◌ Retracted	ᵿ̠	◌ Pharyngealized	ᵿˤ ɖ̪ˤ	◌ No audible release	ᵿ̚
◌ Centralized	ᵿ̥	◌ Velarized or pharyngealized	ᵿ̤		
◌ Mid-centralized	ᵿ̥̥	◌ Raised	ᵿ̥ (ɹ̥ = voiced alveolar fricative)		
◌ Syllabic	ᵿ̩	◌ Lowered	ᵿ̥ (β̥ = voiced bilabial approximant)		
◌ Non-syllabic	ᵿ̥	◌ Advanced Tongue Root	ᵿ̥		
◌ Rhoticity	ᵿ̥ ᵿ̥	◌ Retracted Tongue Root	ᵿ̥		