

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2015)

CONSONANTS (PULMONIC)

© 2015 IPA

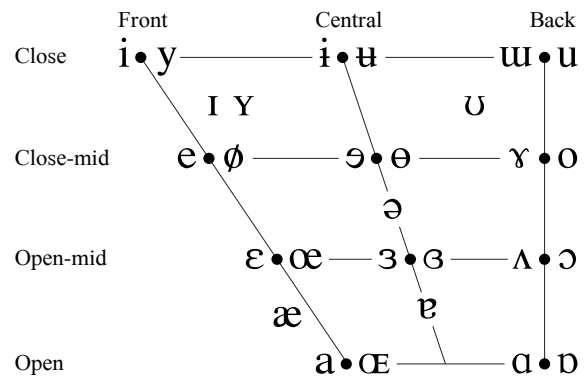
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b		t d			ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ	n			ɳ	ɲ	ŋ	ɴ		
Trill	ʙ		r						ʀ		
Tap or Flap		ⱱ	ɾ			ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative			ɬ ɮ								
Approximant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

SUPRASEGMENTALS

ˈ Primary stress	ˌ Secondary stress
ː Long	ˑ Extra-short
ˑ Half-long	ˑ Extra-short
ˑ Minor (foot) group	ˑ Major (intonation) group
ˑ Syllable break	ˑ Linking (absence of a break)

TONES AND WORD ACCENTS

LEVEL	CONTOUR
˥ or ˧ Extra high	˥ or ˧ Rising
˥ High	˥ Falling
˥ Mid	˥ High rising
˥ Low	˥ Low rising
˥ Extra low	˥ Rising-falling
˩ Downstep	˩ Global rise
˩ Upstep	˩ Global fall

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

◌ Voiceless	◌ ɲ̥ ɲ̥	◌ Breathy voiced	◌ ɲ̥ ɲ̥	◌ Dental	◌ t̪ d̪
◌ Voiced	◌ ɲ̥ ɲ̥	◌ Creaky voiced	◌ ɲ̥ ɲ̥	◌ Apical	◌ t̪ d̪
◌ Aspirated	◌ t̪ʰ d̪ʰ	◌ Linguolabial	◌ t̪̣ d̪̣	◌ Laminal	◌ t̪̣ d̪̣
◌ More rounded	◌ ɔ̞	◌ Labialized	◌ t̪ʷ d̪ʷ	◌ Nasalized	◌ ẽ
◌ Less rounded	◌ ɔ̜	◌ Palatalized	◌ t̪ʲ d̪ʲ	◌ Nasal release	◌ d̪ⁿ
◌ Advanced	◌ ɹ̥	◌ Velarized	◌ t̪ˠ d̪ˠ	◌ Lateral release	◌ d̪ˡ
◌ Retracted	◌ ɹ̠	◌ Pharyngealized	◌ t̪ˤ d̪ˤ	◌ No audible release	◌ d̪˥
◌ Centralized	◌ ẽ	◌ Velarized or pharyngealized	◌ ɬ		
◌ Mid-centralized	◌ ẽ̞	◌ Raised	◌ ɹ̥ (ɹ̥ = voiced alveolar fricative)		
◌ Syllabic	◌ ɲ̥	◌ Lowered	◌ ɹ̥ (ɹ̥ = voiced bilabial approximant)		
◌ Non-syllabic	◌ ɹ̥	◌ Advanced Tongue Root	◌ ɹ̥		
◌ Rhoticity	◌ ɹ̥ ɹ̥	◌ Retracted Tongue Root	◌ ɹ̥		