

# THE INTERNATIONAL PHONETIC ALPHABET (revised to 2020)

## CONSONANTS (PULMONIC)

© 2020 IPA

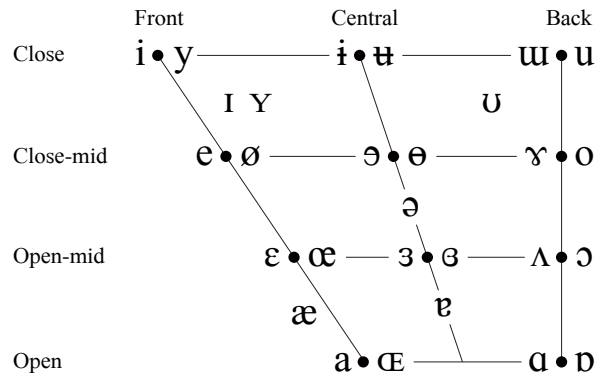
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		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:
◌ ɸ Dental	ɗ Dental/alveolar	pʼ Bilabial
◌ ɸ (Post)alveolar	ɟ Palatal	tʼ Dental/alveolar
◌ ɸ Palatoalveolar	ɡ Velar	kʼ Velar
◌ ɸ 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	
ʕ Voiced epiglottal fricative	Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.
ʡ Epiglottal plosive	

ts kp

## SUPRASEGMENTALS

ˈ Primary stress	ˈfounəˈtɪʃən
ˌ 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)	

## DIACRITICS

◌̥ Voiceless	◌̥ n̥ d̥	◌̥ Breathy voiced	◌̥ ɸ ɓ	◌̥ Dental	◌̥ t̪ d̪
◌̥ Voiced	◌̥ ɳ ɹ	◌̥ Creaky voiced	◌̥ ɸ ɓ	◌̥ Apical	◌̥ t̪ d̪
◌̥ Aspirated	◌̥ tʰ dʰ	◌̥ Linguolabial	◌̥ t̪̹ d̪̹	◌̥ Laminal	◌̥ t̪̹ d̪̹
◌̥ More rounded	◌̥ ɔ̹	◌̥ Labialized	◌̥ tʷ dʷ	◌̥ Nasalized	◌̥ ẽ
◌̥ Less rounded	◌̥ ɔ̹	◌̥ Palatalized	◌̥ tʲ dʲ	◌̥ Nasal release	◌̥ d̪ⁿ
◌̥ Advanced	◌̥ ɹ̥	◌̥ Velarized	◌̥ t̪̞ d̪̞	◌̥ Lateral release	◌̥ d̪ˡ
◌̥ Retracted	◌̥ ɹ̥	◌̥ Pharyngealized	◌̥ t̪̞̠ d̪̞̠	◌̥ No audible release	◌̥ d̪ˠ
◌̥ Centralized	◌̥ ẽ	◌̥ Velarized or pharyngealized	◌̥ ɸ		
◌̥ Mid-centralized	◌̥ ẽ	◌̥ Raised	◌̥ ɸ (ɹ̥ = voiced alveolar fricative)		
◌̥ Syllabic	◌̥ n̩	◌̥ Lowered	◌̥ ɸ (ɸ̞ = voiced bilabial approximant)		
◌̥ Non-syllabic	◌̥ ɸ̞	◌̥ Advanced Tongue Root	◌̥ ɸ̞		
◌̥ Rhoticity	◌̥ ɹ̥ ɹ̥	◌̥ Retracted Tongue Root	◌̥ ɸ̞		

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

## 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