

# THE INTERNATIONAL PHONETIC ALPHABET (revised to 2020)

## CONSONANTS (PULMONIC)

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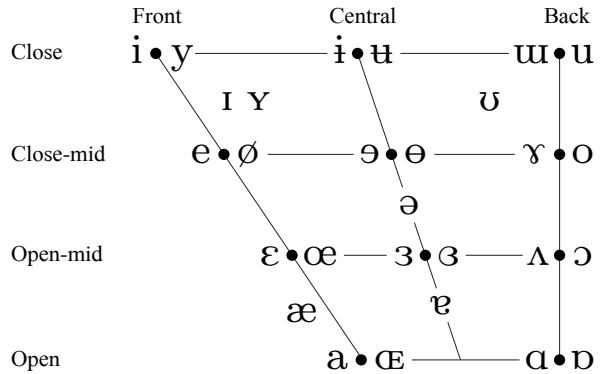
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant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

## VOWELS



Where symbols appear in pairs, the one to the right represents a rounded vowel.

## OTHER SYMBOLS

- ◌ ɸ Voiceless labial-velar fricative
- ◌ ɹ Voiced labial-velar approximant
- ◌ ɻ Voiced labial-palatal approximant
- ◌ ɰ Voiceless epiglottal fricative
- ◌ ʕ Voiced epiglottal fricative
- ◌ ʡ Epiglottal plosive
- ◌ ɕ Alveolo-palatal fricatives
- ◌ ɻ Voiced alveolar lateral flap
- ◌ ɥ Simultaneous ʃ and x
- ◌ ɥ Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.

ts kp

## SUPRASEGMENTALS

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

## DIACRITICS

◌ ː Voiceless	◌ ː ɲ ɖ	◌ ː Breathy voiced	◌ ː ɓ ɗ	◌ ː Dental	◌ ː ʈ ɖ
◌ ˑ Voiced	◌ ˑ ɳ ɽ	◌ ˑ Creaky voiced	◌ ˑ ɓ ɗ	◌ ˑ Apical	◌ ˑ ʈ ɖ
◌ ˑ Aspirated	◌ ˑ tʰ dʰ	◌ ˑ Linguolabial	◌ ˑ t̪ d̪	◌ ˑ Laminal	◌ ˑ ʈ ɖ
◌ ˑ More rounded	◌ ˑ ɔ̞	◌ ˑ Labialized	◌ ˑ tʷ dʷ	◌ ˑ Nasalized	◌ ˑ ẽ
◌ ˑ Less rounded	◌ ˑ ɔ̟	◌ ˑ Palatalized	◌ ˑ tʲ dʲ	◌ ˑ Nasal release	◌ ˑ d̪ⁿ
◌ ˑ Advanced	◌ ˑ ɯ	◌ ˑ Velarized	◌ ˑ tˠ dˠ	◌ ˑ Lateral release	◌ ˑ d̪ˠ
◌ ˑ Retracted	◌ ˑ ɤ	◌ ˑ Pharyngealized	◌ ˑ tˤ dˤ	◌ ˑ No audible release	◌ ˑ d̪ˤ
◌ ˑ Centralized	◌ ˑ ẽ	◌ ˑ Velarized or pharyngealized	◌ ˑ ɟ		
◌ ˑ Mid-centralized	◌ ˑ ẽ̞	◌ ˑ Raised	◌ ˑ ɛ̥ (ɹ = voiced alveolar fricative)		
◌ ˑ Syllabic	◌ ˑ ɲ̩	◌ ˑ Lowered	◌ ˑ ɛ̞ (β = voiced bilabial approximant)		
◌ ˑ Non-syllabic	◌ ˑ ɛ̞	◌ ˑ Advanced Tongue Root	◌ ˑ ɛ̞		
◌ ˑ Rhoticity	◌ ˑ ɻ ɰ	◌ ˑ Retracted Tongue Root	◌ ˑ ɛ̞		

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

## TONES AND WORD ACCENTS

- ◌ ˩ or ˨ Extra high
- ◌ ˨ High
- ◌ ˨ Mid
- ◌ ˨ Low
- ◌ ˩ Extra low
- ◌ ˩ Downstep
- ◌ ˩ Upstep
- ◌ ˩ or ˨ Rising
- ◌ ˩ Falling
- ◌ ˩ High rising
- ◌ ˩ Low rising
- ◌ ˩ Rising-falling
- ◌ ˩ Global rise
- ◌ ˩ Global fall