

# THE INTERNATIONAL PHONETIC ALPHABET (revised to 2020)

CONSONANTS (PULMONIC)

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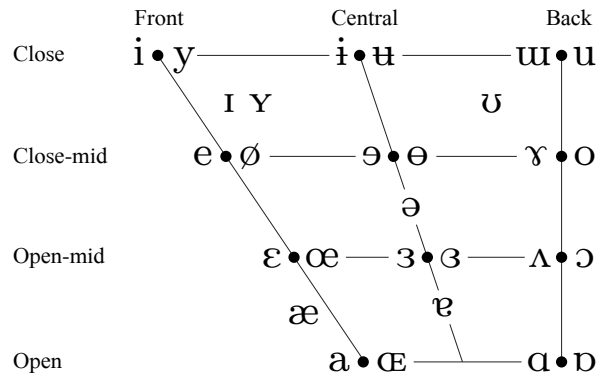
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill				r					ʀ		
Tap or Flap				ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		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
◌ Bilabial	ɓ Bilabial	◌ Examples:
Dental	ɗ Dental/alveolar	p' Bilabial
! (Post)alveolar	ɟ Palatal	t' Dental/alveolar
‡ Palatoalveolar	ɡ Velar	k' Velar
Alveolar lateral	ɠ Uvular	s' Alveolar fricative

## VOWELS



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

## OTHER SYMBOLS

- ʌ Voiceless labial-velar fricative
- ɕ ʑ Alveolo-palatal fricatives
- ʋ Voiced labial-velar approximant
- ɹ Voiced alveolar lateral flap
- ɥ Voiced labial-palatal approximant
- ɧ Simultaneous ʃ and x
- ħ Voiceless epiglottal fricative
- ʕ Voiced epiglottal fricative
- ʡ Epiglottal plosive
- ts kp Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.

## SUPRASEGMENTALS

- ˈ Primary stress ˈfounəˈtɪfən
- ˌ Secondary stress
- ː Long eː
- ˑ Half-long eˑ
- ◌ Extra-short ĕ
- | Minor (foot) group
- || Major (intonation) group
- . Syllable break .i.ækt
- ◌ Linking (absence of a break)

## DIACRITICS

◌ Voiceless	ɱ ɳ	◌ Breathy voiced	ᵇ ᵃ	◌ Dental	ʈ ɖ
◌ Voiced	ɱ ɳ	◌ Creaky voiced	ᵇ ᵃ	◌ Apical	ʈ ɖ
h Aspirated	tʰ dʰ	◌ Linguolabial	t̪ d̪	◌ Laminal	ʈ ɖ
◌ More rounded	ɔ̞	◌ Labialized	tʷ dʷ	◌ Nasalized	ẽ
◌ Less rounded	ɔ̝	◌ Palatalized	tʲ dʲ	◌ Nasal release	dⁿ
◌ Advanced	ɸ β	◌ Velarized	tˠ dˠ	◌ Lateral release	dˡ
◌ Retracted	ɐ̠	◌ Pharyngealized	tˤ dˤ	◌ No audible release	d̚
◌ Centralized	ẽ	◌ Velarized or pharyngealized	ᵑ		
× Mid-centralized	ẽ	◌ Raised	ᵚ (ᵛ = voiced alveolar fricative)		
◌ Syllabic	ᵝ	◌ Lowered	ᵞ (ᵟ = voiced bilabial approximant)		
◌ Non-syllabic	ᵞ	◌ Advanced Tongue Root	ᵝ		
◌ Rhoticity	ᵞ ɹ	◌ Retracted Tongue Root	ᵞ		

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

## TONES AND WORD ACCENTS

- | LEVEL      | CONTOUR         |
|------------|-----------------|
| ẽ or ̥     | ↗ Extra high    |
| é or ̥     | ↘ High          |
| ē or ̄     | ↗ Mid           |
| è or ̇     | ↘ Low           |
| ë or ̏     | ↘ Extra low     |
| ↓ Downstep | ↗ ↘ Global rise |
| ↑ Upstep   | ↘ ↗ Global fall |