

# THE INTERNATIONAL PHONETIC ALPHABET (revised to 2018)

## CONSONANTS (PULMONIC)

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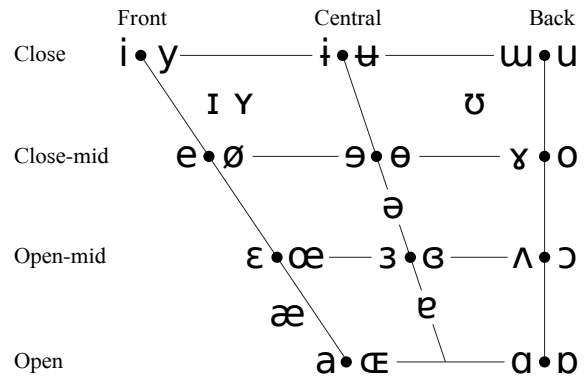
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			ʀ					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant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

## VOWELS



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

## OTHER SYMBOLS

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

ts̺ kp̺

## SUPRASEGMENTALS

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

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

◌◌ Voiceless	◌̥ ◌̜	◌◌ Breathy voiced	◌̤ ◌̚	◌◌ Dental	◌̪ ◌̫
◌◌ Voiced	◌̩ ◌̯	◌◌ Creaky voiced	◌̰ ◌̱	◌◌ Apical	◌̪ ◌̫
◌◌ Aspirated	◌ʰ ◌ʰ	◌◌ Linguolabial	◌̙ ◌̚	◌◌ Laminal	◌̪ ◌̫
◌◌ More rounded	◌̙	◌◌ Labialized	◌̙ ◌̙	◌◌ Nasalized	◌̃
◌◌ Less rounded	◌̙	◌◌ Palatalized	◌̟ ◌̟	◌◌ Nasal release	◌̚
◌◌ Advanced	◌̟	◌◌ Velarized	◌̠ ◌̠	◌◌ Lateral release	◌̚
◌◌ Retracted	◌̠	◌◌ Pharyngealized	◌̡ ◌̡	◌◌ No audible release	◌̚
◌◌ Centralized	◌̠	◌◌ Velarized or pharyngealized	◌̠		
◌◌ Mid-centralized	◌̠	◌◌ Raised	◌̡ (◌̡ = voiced alveolar fricative)		
◌◌ Syllabic	◌̥	◌◌ Lowered	◌̡ (◌̡ = voiced bilabial approximant)		
◌◌ Non-syllabic	◌̥	◌◌ Advanced Tongue Root	◌̡		
◌◌ Rhoticity	◌̥ ◌̥	◌◌ Retracted Tongue Root	◌̡		

## TONES AND WORD ACCENTS

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