

# THE INTERNATIONAL PHONETIC ALPHABET (revised to 2018)

## CONSONANTS (PULMONIC)

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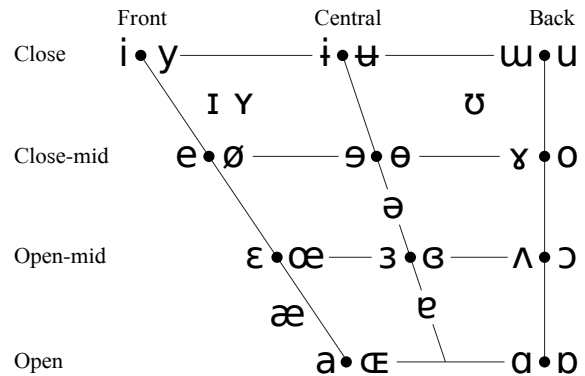
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant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

## VOWELS



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

## OTHER SYMBOLS

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

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

◌̥ Voiceless	◌̇ Breathy voiced	◌̠ Dental	◌̡ Apical
◌̆ Voiced	◌̈ Creaky voiced	◌̣ Laminal	◌̤ Nasalized
◌̈ Aspirated	◌̉ Linguolabial	◌̥ Nasalized	◌̦ Extra-low
◌̊ More rounded	◌̋ Labialized	◌̧ No audible release	
◌̌ Less rounded	◌̍ Palatalized		
◌̎ Advanced	◌̏ Velarized		
◌̐ Retracted	◌̑ Pharyngealized		
◌̒ Centralized	◌̓ Velarized or pharyngealized		
◌̔ Mid-centralized	◌̕ Raised		
◌̖ Syllabic	◌̗ Lowered		
◌̘ Non-syllabic	◌̙ Advanced Tongue Root		
◌̚ Rhoticity	◌̛ Retracted Tongue Root		

## SUPRASEGMENTALS

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

## TONES AND WORD ACCENTS

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