

# THE INTERNATIONAL PHONETIC ALPHABET (revised to 2018)

## CONSONANTS (PULMONIC)

© 2018 IPA

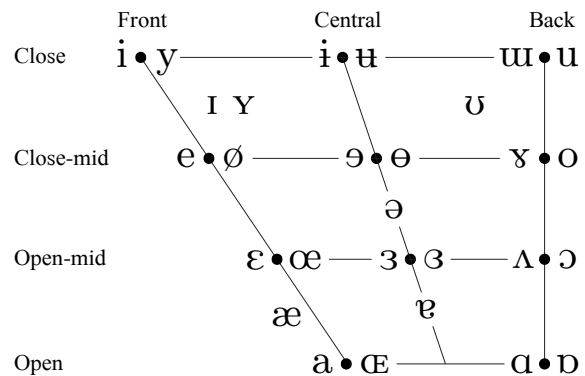
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant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

◌ ˚ Voiceless	◌ ̚ ̚	◌ ˗ Breathy voiced	◌ ̤ ̤	◌ ̣ Dental	◌ ̣ ̣
◌ ˘ Voiced	◌ ̣ ̣	◌ ˘ Creaky voiced	◌ ̣ ̣	◌ ̣ Apical	◌ ̣ ̣
◌ ˘ Aspirated	◌ ̣ ̣	◌ ˘ Linguolabial	◌ ̣ ̣	◌ ̣ Laminar	◌ ̣ ̣
◌ ˘ 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            |
|---------------------|--------------------|
| ◌ ˥ or ˩ Extra high | ◌ ˥ or ˩ Rising    |
| ◌ ˥ High            | ◌ ˥ Falling        |
| ◌ ˥ Mid             | ◌ ˥ High rising    |
| ◌ ˥ Low             | ◌ ˥ Low rising     |
| ◌ ˥ Extra low       | ◌ ˥ Rising-falling |
| ◌ ˩ Downstep        | ◌ ˩ Global rise    |
| ◌ ˩ Upstep          | ◌ ˩ Global fall    |