

# the international phonetics alphabet

## consonants (pulmonic)

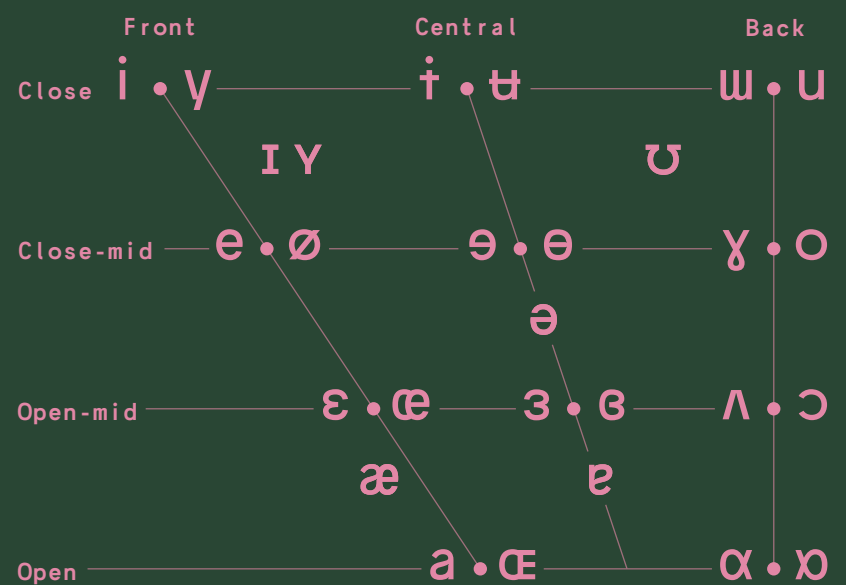
	Bilabial	Labiodental	Dental	Alveolar	Post-alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill				r					ʀ		
Tap of Flap				ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant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

## vowels



## other symbols

- ɱ** Voiceless labial-velar fricative
- ɰ** Voiced labial-palatal approximant
- ɰ** Voiced labial-palatal approximant
- ħ** 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**

Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary

**t͡s n͡m**

## suprasegmentals

- ' Primary stress **ˈpæˈstɪʃ**
- , Secondary stress **ˌ**
- ː Long **eː**
- ˑ Half-long **eˑ**
- ◌̥ Extra-short **ě**
- | Minor (foot) group
- || Major (intonation) group
- Syllable break **ʃi.ækt**
- ◌̣ Linking (absence of a break)

## diacritics

some diacritics may be placed above a symbol with a descender, eg **ɲ̥̄**

◌̥ Voiceless	◌̄ Breathy voiced	◌̇ Dental
◌̆ Voiced	◌̈ Creaky voiced	◌̈ Apical
◌̆ Aspirated	◌̍ Lingolabial	◌̈ 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	
◌̋ Syllabic	◌̔ Lowered	
◌̌ Non-syllabic	◌̕ Advanced Tongue Root	
◌̍ Rhoticity	◌̖ Retracted Tongue Root	

## tones and word accents

- | level              | contour                |
|--------------------|------------------------|
| é or ɛ̌ Extra high | ě or ɛ̌ Rising         |
| é or ɛ̌ High       | ê or ɛ̌ Falling        |
| ē or ɛ̄ Mid       | é or ɛ̌ High rising    |
| è or ɛ̌ Low        | ě or ɛ̌ Low rising     |
| è or ɛ̌ Extra low  | ě or ɛ̌ Rising-falling |
| ↓ Downstep         | ↗ Global rise          |
| ↑ Upstep           | ↘ Global fall          |