

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2015)

CONSONANTS (PULMONIC)

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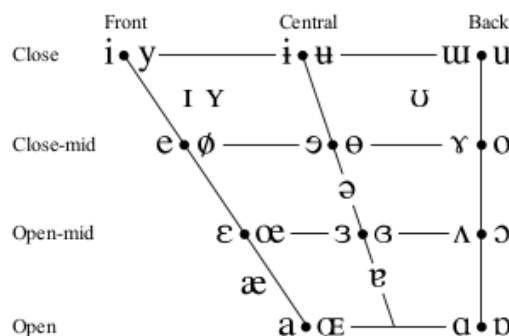
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant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

VOWELS



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

OTHER SYMBOLS

- ʌ** Voiceless labial-velar fricative
- ʡ** Voiced labial-velar approximant
- ʢ** Voiced labial-palatal approximant
- ʥ** Voiceless epiglottal fricative
- ʨ** Voiced epiglottal fricative
- ʧ** Epiglottal plosive
- ʤ** Alveolo-palatal fricatives
- ɹ̥** Voiced alveolar lateral flap
- ɻ̥** Simultaneous **ʃ** and **ɣ**
- ɻ̥ɻ̥** Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.

ts̺ k̟p̠

SUPRASEGMENTALS

- ˈ** Primary stress **ˈfounəˈtɪʃən**
- ˌ** Secondary stress **ˌ**
- ː** Long **eː**
- ˑ** Half-long **eˑ**
- ˚** Extra-short **e˚**
- |** Minor (foot) group
- ‖** Major (intonation) group
- Syllable break **ii.ækt**
- ~** Linking (absence of a break)

TONES AND WORD ACCENTS

- | | |
|---------------------------------|-----------------------------|
| LEVEL | CONTOUR |
| ē or ᶈ Extra-high | ě or ᶅ Rising |
| é High | ê Falling |
| ē Mid | ᶇ High rising |
| è Low | ᶉ Low rising |
| ḛ Extra-low | ᶊ Rising-falling |
| ↓ Downstep | ↗ Global rise |
| ↑ Upstep | ↘ Global fall |

DIACRITICS

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

◌̥ Voiceless	ᶇ ᶈ	◌̬ Breathy voiced	ᶇ ᶈ	◌̪ Dental	t̪ d̪
◌̦ Voiced	s̪ t̪	◌̰ Creaky voiced	ᶇ ᶈ	◌̯ Apical	t̯ d̯
◌̨ Aspirated	t̪ʰ d̪ʰ	◌̦̥ Linguolabial	t̪̦̥ d̪̦̥	◌̩ Laminal	t̪̩ d̪̩
◌̙ More rounded	ɔ̙	◌̙̥ Labialized	t̪̙̥ d̪̙̥	◌̃ Nasalized	ẽ
◌̘ Less rounded	ɔ̘	◌̙̞ Palatalized	t̪̙̞ d̪̙̞	◌̟ Nasal release	d̟
◌̝ Advanced	u̝	◌̙̠ Velarized	t̪̙̠ d̪̙̠	◌̠ Lateral release	d̠
◌̞ Retracted	e̞	◌̡̙ Pharyngealized	t̡̪̙ d̡̪̙	◌̡ No audible release	d̡
◌̠̠ Centralized	ẽ̠	◌̢̙ Velarized or pharyngealized	t̢̪̙		
◌̠̣ Mid-centralized	ẽ̠̣	◌̙̣ Raised	e̙̣ (ɹ̙̣ = voiced alveolar fricative)		
◌̙̣ Syllabic	ᶇ̙̣	◌̙̣̥ Lowered	e̙̣̥ (β̙̣̥ = voiced bilabial approximant)		
◌̙̣̥ Non-syllabic	e̙̣̥	◌̙̣̥̣ Advanced Tongue Root	e̙̣̥̣		
◌̙̣̥̣̣ Rhoticity	ə̙̣̥̣̣ a̙̣̥̣̣	◌̙̣̥̣̣̣ Retracted Tongue Root	e̙̣̥̣̣̣		