

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2005)

CONSONANTS (PULMONIC)

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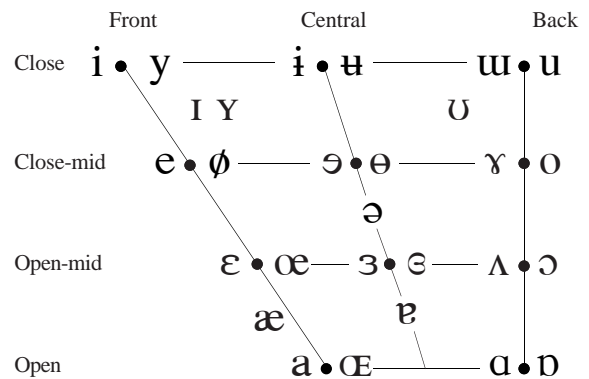
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		ʋ		ɹ		ɻ	j	ɰ			
Lateral approximant				l		ɭ	ʎ	ʟ			

Where symbols appear in pairs, the one to the right represents a voiced consonant. Shaded areas denote articulations judged impossible.

CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
◌ ǀ Bilabial	ɓ Bilabial	◌ ʼ Examples:
◌ ǃ Dental	ɗ Dental/alveolar	pʼ Bilabial
◌ ǂ (Post)alveolar	f Palatal	tʼ Dental/alveolar
◌ ǁ Palatoalveolar	ɠ Velar	kʼ Velar
◌ ǁ Alveolar lateral	ɣ Uvular	sʼ Alveolar fricative

VOWELS



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

OTHER SYMBOLS

- | | |
|--|---|
| <p>ɱ Voiceless labial-velar fricative</p> <p>ʋ Voiced labial-velar approximant</p> <p>ɥ Voiced labial-palatal approximant</p> <p>ħ Voiceless epiglottal fricative</p> <p>ʕ Voiced epiglottal fricative</p> <p>ʡ Epiglottal plosive</p> | <p>ç ʝ Alveolo-palatal fricatives</p> <p>ɻ Voiced alveolar lateral flap</p> <p>ɥ ʎ Simultaneous ɥ and ɣ</p> <p>Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.</p> |
|--|---|

kp̚ ts̚

DIACRITICS Diacritics may be placed above a symbol with a descender, e.g. **ŋ̚**

◌ [◌] Voiceless	ɲ̚ ɖ̚	◌ ^{◌◌} Breathy voiced	ɓ̤ ɗ̤	◌ [◌] Dental	t̪ d̪
◌ ^{◌◌} Voiced	ɲ̤ ɖ̤	◌ ^{◌◌◌} Creaky voiced	ɓ̰ ɗ̰	◌ [◌] Apical	t̺ d̺
◌ ^{◌◌◌} Aspirated	t̪ʰ d̪ʰ	◌ ^{◌◌◌◌} Linguolabial	t̪̹ d̪̹	◌ [◌] Laminal	t̺̹ d̺̹
◌ ^{◌◌◌◌} More rounded	ɔ̹	◌ ^{◌◌◌◌◌} Labialized	t̪ʷ d̪ʷ	◌ [◌] Nasalized	ẽ
◌ ^{◌◌◌◌◌} Less rounded	ɔ̜	◌ ^{◌◌◌◌◌◌} Palatalized	t̪ʲ d̪ʲ	◌ [◌] Nasal release	d̪ⁿ
◌ ^{◌◌◌◌◌◌} Advanced	u̟	◌ ^{◌◌◌◌◌◌◌} Velarized	t̪ˠ d̪ˠ	◌ [◌] Lateral release	d̪^l
◌ ^{◌◌◌◌◌◌◌} Retracted	e̠	◌ ^{◌◌◌◌◌◌◌◌} Pharyngealized	t̪ˤ d̪ˤ	◌ [◌] No audible release	d̪^ɹ
◌ ^{◌◌◌◌◌◌◌◌} Centralized	ẽ	◌ ^{◌◌◌◌◌◌◌◌◌} Velarized or pharyngealized	ɫ		
◌ ^{◌◌◌◌◌◌◌◌◌} Mid-centralized	ẽ̞	◌ ^{◌◌◌◌◌◌◌◌◌◌} Raised	e̝ (ɹ̝ = voiced alveolar fricative)		
◌ ^{◌◌◌◌◌◌◌◌◌◌} Syllabic	ɲ̩	◌ ^{◌◌◌◌◌◌◌◌◌◌} Lowered	e̞ (β̞ = voiced bilabial approximant)		
◌ ^{◌◌◌◌◌◌◌◌◌◌◌} Non-syllabic	e̯	◌ ^{◌◌◌◌◌◌◌◌◌◌◌◌} Advanced Tongue Root	e̟		
◌ ^{◌◌◌◌◌◌◌◌◌◌◌◌◌} Rhoticity	ə̃ ɑ̃	◌ ^{◌◌◌◌◌◌◌◌◌◌◌◌◌} Retracted Tongue Root	e̠		

SUPRASEGMENTALS

- ◌[◌] Primary stress
- ◌^{◌◌} Secondary stress
- ◌^{◌◌◌} Long **eː**
- ◌^{◌◌◌◌} Half-long **eˑ**
- ◌^{◌◌◌◌◌} Extra-short **e̥**
- ◌^{◌◌◌◌◌◌} Minor (foot) group
- ◌^{◌◌◌◌◌◌◌} Major (intonation) group
- ◌^{◌◌◌◌◌◌◌◌} Syllable break **ˌi.ækt**
- ◌^{◌◌◌◌◌◌◌◌◌} Linking (absence of a break)

TONES AND WORD ACCENTS

- | LEVEL | CONTOUR |
|----------------------------------|------------------------------|
| ẽ̥ or ᵿ Extra high | ẽ̥ or ᵿ Rising |
| é High | ẽ̂ Falling |
| ē Mid | ẽ̃ High rising |
| è Low | ẽ̄ Low rising |
| è̥ Extra low | ẽ̇ Rising-falling |
| ◌ ^{◌◌} Downstep | ↗ Global rise |
| ◌ [◌] Upstep | ↘ Global fall |