

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2018)

CONSONANTS (PULMONIC)

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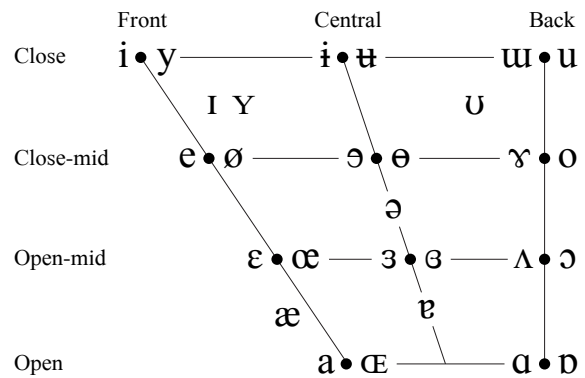
| | Bilabial | Labiodental | Dental | Alveolar | Postalveolar | Retroflex | Palatal | Velar | Uvular | Pharyngeal | Glottal |
|---------------------|------------|-------------|------------|------------|--------------|------------|------------|------------|------------|------------|------------|
| Plosive | 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 | ʼ Examples: |
| Dental | ɗ Dental/alveolar | pʼ Bilabial |
| ! (Post)alveolar | ɟ Palatal | tʼ Dental/alveolar |
| ‡ Palatoalveolar | ɠ Velar | kʼ Velar |
| Alveolar lateral | ɣ Uvular | sʼ Alveolar fricative |

VOWELS



OTHER SYMBOLS

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

ts̺ kp̺

SUPRASEGMENTALS

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

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

| | | | | | |
|---------------------|------------------|---------------------------------|--|------------------------|----------------|
| ◌̥ Voiceless | ɲ̥ ɖ̥ | ◌̤ Breathy voiced | ɓ̤ ɑ̤ | ◌̦ Dental | ʈ̦ ɖ̦ |
| ◌̇ Voiced | ʂ̇ ʐ̇ | ◌̨ Creaky voiced | ɓ̨ ɑ̨ | ◌̧ Apical | ʈ̧ ɖ̧ |
| ◌̥h Aspirated | t̥ʰ d̥ʰ | ◌̦̥ Linguolabial | ț̥ ɖ̦̥ | ◌̨̥ Laminar | ʈ̨̥ ɖ̨̥ |
| ◌̤ More rounded | ɔ̤ | ◌̥w Labialized | t̥w ɖ̥w | ◌̥̃ Nasalized | ẽ̥̃ |
| ◌̤ Less rounded | ɔ̤̹ | ◌̥j Palatalized | t̥j ɖ̥j | ◌̥n Nasal release | d̥n |
| ◌̥+ Advanced | ɥ̥ | ◌̥Y Velarized | t̥Y ɖ̥Y | ◌̥l Lateral release | d̥l |
| ◌̥- Retracted | ɛ̥ | ◌̥ʕ Pharyngealized | t̥ʕ ɖ̥ʕ | ◌̥ˀ No audible release | d̥ˀ |
| ◌̥̥ Centralized | ẽ̥̥ | ◌̥̃ Velarized or pharyngealized | ɬ̃ | | |
| ◌̥ː Mid-centralized | ẽ̥ː | ◌̥̥ Raised | ɛ̥̥ (ɹ̥̥ = voiced alveolar fricative) | | |
| ◌̥̥ Syllabic | ɲ̥̥ | ◌̥̥ Lowered | ɛ̥̥ (β̥̥ = voiced bilabial approximant) | | |
| ◌̥̥ Non-syllabic | ɲ̥̥̥ | ◌̥̥̥ Advanced Tongue Root | ɛ̥̥̥ | | |
| ◌̥̥̥ Rhoticity | ɻ̥̥̥ ɑ̥̥̥ | ◌̥̥̥ Retracted Tongue Root | ɛ̥̥̥̥ | | |

TONES AND WORD ACCENTS

- | LEVEL | CONTOUR |
|----------------------------------|------------------------------|
| é̥ or ᵿ Extra high | ě̥ or ᵿ Rising |
| é̇ High | ê̇ Falling |
| ē̇ Mid | ẽ̇ High rising |
| è̇ Low | ẽ̇ Low rising |
| è̥ Extra low | ẽ̥ Rising-falling |
| ↓ Downstep | ↗ Global rise |
| ↑ Upstep | ↘ Global fall |