

THE INTERNATIONAL PHONETIC ALPHABET (revised to 1993)

CONSONANTS (PULMONIC)

| | 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 | | | ʀ | | | | | ʀ | | |
| Tap or 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 | | 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 |
|--------------------|-------------------|-----------------------|
| ⦿ Bilabial | ɓ Bilabial | ʼ as in: |
| ǀ Dental | ɗ Dental/alveolar | pʼ Bilabial |
| ǃ (Post)alveolar | ɟ Palatal | tʼ Dental/alveolar |
| ǃ̥ Palatoalveolar | ɠ Velar | kʼ Velar |
| ǁ Alveolar lateral | ʄ Uvular | sʼ Alveolar fricative |

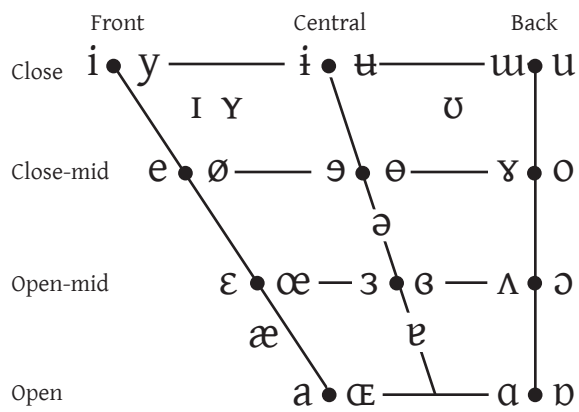
SUPRASEGMENTALS

| | | | | | | | | |
|------------------|--------------------|--------|-------------|----------------|------------------|----------------------|-----------------------------|--------------------------------|
| ˈ Primary stress | ˌ Secondary stress | ː Long | ˑ Half-long | ˑ̈ Extra-short | · Syllable break | ˆ Minor (foot) group | ˆˆ Major (intonation) group | ˘ Linking (absence of a break) |
|------------------|--------------------|--------|-------------|----------------|------------------|----------------------|-----------------------------|--------------------------------|

TONES & WORD ACCENTS

| LEVEL | CONTOUR |
|-------------------|-----------------------|
| ẽ or ˩ Extra high | ˩ Rising |
| é ˩ High | ˨ Falling |
| ē ˩ Mid | ˩ High rising |
| è ˩ Low | ˩ Low rising |
| è̇ ˩ Extra low | ˩ Rising-falling etc. |
| ↓ Downstep | ↗ Global rise |
| ↑ Upstep | ↘ Global fall |

VOWELS



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

OTHER SYMBOLS

- ɱ Voiceless labial-velar fricative
- ɸ Voiced labial-velar fricative
- ɰ Voiced labial-palatal approximant
- ħ Voiceless epiglottal fricative
- ʕ Voiced epiglottal fricative
- ʡ Epiglottal plosive
- ʎ Alveolo-palatal fricatives
- ɻ Alveolar lateral flap
- ʄ Simultaneous ʃ and x
- ɥ Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary

k̟p̟ t̟s̟

DIACRITICS

Diacritics may be placed above a symbol with a descender, e.g. ɲ̥̄

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