# THE INTERNATIONAL PHONETIC ALPHABET (revised to 2005)

CONSONANTS (PULMONIC) © 2005 IPA

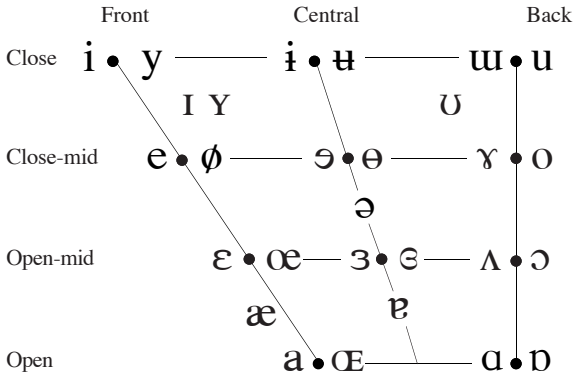
| | Bilabial | Labiodental | Dental | Alveolar | Postalveolar | Retroflex | Palatal | Velar | Uvular | Pharyngeal | Glottal |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Plosive | p b | | | t d | | ʈ ɖ | c ɟ | k g | q ɢ | | ʔ |
| Nasal | m | ɱ | | n | | ɳ | ɲ | ŋ | ɴ | | |
| Trill | ʙ | | | r | | | | | 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 | |
|---|---|---|---|---|---|
| ʘ | Bilabial | ɓ | Bilabial | ’ | Examples: |
| \| | Dental | ɗ | Dental/alveolar | pʼ | Bilabial |
| ! | (Post)alveolar | ʄ | Palatal | tʼ | Dental/alveolar |
| ǂ | Palatoalveolar | ɠ | Velar | kʼ | Velar |
| ‖ | Alveolar lateral | ʛ | Uvular | sʼ | Alveolar fricative |

VOWELS




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

OTHER SYMBOLS

| | | | |
|---|---|---|---|
| ʍ | Voiceless labial-velar fricative | ɕ ʑ | Alveolo-palatal fricatives |
| w | Voiced labial-velar approximant | ɺ | Voiced alveolar lateral flap |
| ɥ | Voiced labial-palatal approximant | ʢ ʡ | Simultaneous ʃ and x |
| ʜ | Voiceless epiglottal fricative | | |
| ʢ | Voiced epiglottal fricative | | |
| ʡ | Epiglottal plosive | | |

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

SUPRASEGMENTALS

| | | | |
|---|---|---|---|
| ˈ | Primary stress | ˌfoʊnəˈtɪʃən | |
| ˌ | Secondary stress | | |
| ː | Long | eː | |
| ˑ | Half-long | eˑ | |
| ̆ | Extra-short | ĕ | |
| \| | Minor (foot) group | | |
| ‖ | Major (intonation) group | | |
| . | Syllable break | ɹi.ækt | |
| ‿ | Linking (absence of a break) | | |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ̥ | Voiceless | n̥ d̥ | ̤ | Breathy voiced | b̤ a̤ | ̪ | Dental | t̪ d̪ |
| ̬ | Voiced | s̬ t̬ | ̰ | Creaky voiced | b̰ a̰ | ̺ | Apical | t̺ d̺ |
| ʰ | Aspirated | tʰ dʰ | ̼ | Linguolabial | t̼ d̼ | ̻ | Laminal | t̻ d̻ |
| ̹ | More rounded | ɔ̹ | ʷ | Labialized | tʷ dʷ | ̃ | Nasalized | ẽ |
| ̜ | Less rounded | ɔ̜ | ʲ | Palatalized | tʲ dʲ | ⁿ | Nasal release | dⁿ |
| ̟ | Advanced | u̟ | ˠ | Velarized | tˠ dˠ | ˡ | Lateral release | dˡ |
| ̠ | Retracted | e̠ | ˤ | Pharyngealized | tˤ dˤ | ̚ | No audible release | d̚ |
| ̈ | Centralized | ë | ~ | Velarized or pharyngealized | ɫ | | | |
| ̽ | Mid-centralized | e̽ | ̝ | Raised | e̝ | ( ɹ̝ = voiced alveolar fricative) | | |
| ̩ | Syllabic | n̩ | ̞ | Lowered | e̞ | ( β̞ = voiced bilabial approximant) | | |
| ̯ | Non-syllabic | e̯ | ̙ | Advanced Tongue Root | e̙ | | | |
| ˞ | Rhoticity | ɚ a˞ | ̘ | Retracted Tongue Root | e̘ | | | |

TONES AND WORD ACCENTS

| LEVEL | | | CONTOUR | |
|---|---|---|---|---|
| e̋ or ˥ | Extra high | | ě or ˩˥ | Rising |
| é ˦ | High | | ê ˥˩ | Falling |
| ē ˧ | Mid | | e᷄ ˦˥ | High rising |
| è ˨ | Low | | e᷅ ˩˨ | Low rising |
| ȅ ˩ | Extra low | | e᷈ ˥˦˥ | Rising-falling |
| ↓ | Downstep | | ↗ | Global rise |
| ↑ | Upstep | | ↘ | Global fall |