

# THE INTERNATIONAL PHONETIC ALPHABET (revised to 2018)

## CONSONANTS (PULMONIC)

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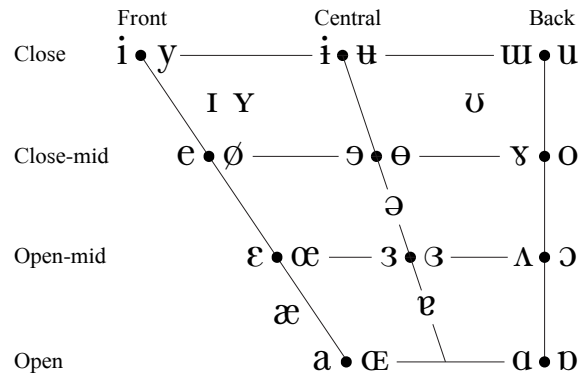
|                     | Bilabial   | Labiodental | Dental     | Alveolar   | Postalveolar | Retroflex  | Palatal    | Velar      | Uvular     | Pharyngeal | Glottal    |
|---------------------|------------|-------------|------------|------------|--------------|------------|------------|------------|------------|------------|------------|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

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                    |
|---------------------------|--------------------------|------------------------------|
| <b>ɸ</b> Bilabial         | <b>ɓ</b> Bilabial        | Examples:                    |
| <b>ǀ</b> Dental           | <b>ɗ</b> Dental/alveolar | <b>p'</b> Bilabial           |
| <b>ǃ</b> (Post)alveolar   | <b>ɟ</b> Palatal         | <b>t'</b> Dental/alveolar    |
| <b>ǂ</b> Palatoalveolar   | <b>ɡ</b> Velar           | <b>k'</b> Velar              |
| <b>ǁ</b> Alveolar lateral | <b>ɠ</b> Uvular          | <b>s'</b> Alveolar fricative |

## VOWELS



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

## OTHER SYMBOLS

- ɱ** Voiceless labial-velar fricative
- ɳ** Voiced labial-velar approximant
- ɰ** Voiced labial-palatal approximant
- ħ** Voiceless epiglottal fricative
- ʕ** Voiced epiglottal fricative
- ʔ** Epiglottal plosive
- ç ʝ** Alveolo-palatal fricatives
- ɻ** Voiced alveolar lateral flap
- ʎ** Simultaneous **ʃ** and **x**
- Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.

**ts̺** **kp̺**

## SUPRASEGMENTALS

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

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

|                           |                                       |                              |
|---------------------------|---------------------------------------|------------------------------|
| <b>◌̥</b> Voiceless       | <b>◌̤</b> Breathy voiced              | <b>◌̦</b> Dental             |
| <b>◌̇</b> Voiced          | <b>◌̧</b> Creaky voiced               | <b>◌̨</b> Apical             |
| <b>◌̈</b> Aspirated       | <b>◌̩</b> Linguolabial                | <b>◌̪</b> Laminal            |
| <b>◌̋</b> More rounded    | <b>◌̬</b> Labialized                  | <b>◌̭</b> Nasalized          |
| <b>◌̌</b> Less rounded    | <b>◌̮</b> Palatalized                 | <b>◌̯</b> Nasal release      |
| <b>◌̍</b> Advanced        | <b>◌̰</b> Velarized                   | <b>◌̱</b> Lateral release    |
| <b>◌̎</b> Retracted       | <b>◌̲</b> Pharyngealized              | <b>◌̳</b> No audible release |
| <b>◌̏</b> Centralized     | <b>◌̴</b> Velarized or pharyngealized |                              |
| <b>◌̐</b> Mid-centralized | <b>◌̵</b> Raised                      |                              |
| <b>◌̑</b> Syllabic        | <b>◌̶</b> Lowered                     |                              |
| <b>◌̒</b> Non-syllabic    | <b>◌̷</b> Advanced Tongue Root        |                              |
| <b>◌̓</b> Rhoticity       | <b>◌̸</b> Retracted Tongue Root       |                              |

## TONES AND WORD ACCENTS

- | LEVEL                 | CONTOUR        |
|-----------------------|----------------|
| <b>ē</b> or <b>ē̄</b> | Extra high     |
| <b>é</b>              | High           |
| <b>ē</b>              | Mid            |
| <b>è</b>              | Low            |
| <b>ě</b>              | Extra low      |
| <b>↓</b>              | Downstep       |
| <b>↑</b>              | Upstep         |
| <b>ē</b> or <b>ē̄</b> | Rising         |
| <b>ē̂</b>             | Falling        |
| <b>ē̃</b>             | High rising    |
| <b>ē̄</b>             | Low rising     |
| <b>ē̅</b>             | Rising-falling |
| <b>↗</b>              | Global rise    |
| <b>↘</b>              | Global fall    |