

# THE INTERNATIONAL PHONETIC ALPHABET

## CONSONANTS (PULMONIC)

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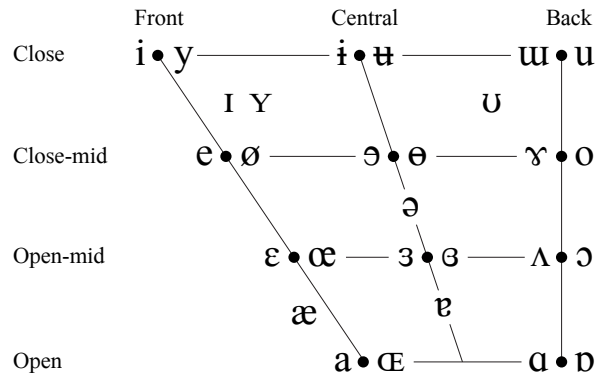
|                     | Bilabial | Labiodental | Dental | Alveolar | Postalveolar | Retroflex | Palatal | Velar | Uvular | Pharyngeal | Glottal |
|---------------------|----------|-------------|--------|----------|--------------|-----------|---------|-------|--------|------------|---------|
| Plosive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

## VOWELS



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

## OTHER SYMBOLS

|                                     |                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|
| ɱ Voiceless labial-velar fricative  | ɕ ʑ Alveolo-palatal fricatives                                                                          |
| ɰ Voiced labial-velar approximant   | ɺ 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       | ts kp                                                                                                   |
| ʡ Epiglottal plosive                |                                                                                                         |

## DIACRITICS

|                   |       |                               |                                         |                      |       |
|-------------------|-------|-------------------------------|-----------------------------------------|----------------------|-------|
| ◌ Voiceless       | ◌ ɰ ɰ | ◌ Breathy voiced              | ◌ ɰ ɰ                                   | ◌ Dental             | ◌ ɰ ɰ |
| ◌ Voiced          | ◌ ɰ ɰ | ◌ Creaky voiced               | ◌ ɰ ɰ                                   | ◌ Apical             | ◌ ɰ ɰ |
| ◌ Aspirated       | ◌ ɰ ɰ | ◌ Linguolabial                | ◌ ɰ ɰ                                   | ◌ Laminal            | ◌ ɰ ɰ |
| ◌ More rounded    | ◌ ɰ ɰ | ◌ Labialized                  | ◌ ɰ ɰ                                   | ◌ Nasalized          | ◌ ɰ ɰ |
| ◌ Less rounded    | ◌ ɰ ɰ | ◌ Palatalized                 | ◌ ɰ ɰ                                   | ◌ Nasal release      | ◌ ɰ ɰ |
| ◌ Advanced        | ◌ ɰ ɰ | ◌ Velarized                   | ◌ ɰ ɰ                                   | ◌ Lateral release    | ◌ ɰ ɰ |
| ◌ Retracted       | ◌ ɰ ɰ | ◌ Pharyngealized              | ◌ ɰ ɰ                                   | ◌ No audible release | ◌ ɰ ɰ |
| ◌ Centralized     | ◌ ɰ ɰ | ◌ Velarized or pharyngealized | ◌ ɰ ɰ                                   |                      |       |
| ◌ Mid-centralized | ◌ ɰ ɰ | ◌ Raised                      | ◌ ɰ ɰ (ɰ = voiced alveolar fricative)   |                      |       |
| ◌ Syllabic        | ◌ ɰ ɰ | ◌ Lowered                     | ◌ ɰ ɰ (ɰ = voiced bilabial approximant) |                      |       |
| ◌ Non-syllabic    | ◌ ɰ ɰ | ◌ Advanced Tongue Root        | ◌ ɰ ɰ                                   |                      |       |
| ◌ Rhoticity       | ◌ ɰ ɰ | ◌ Retracted Tongue Root       | ◌ ɰ ɰ                                   |                      |       |

Some diacritics may be placed above a symbol with a descender, e.g. ɰ

## SUPRASEGMENTALS

|                                |         |
|--------------------------------|---------|
| ◌ Primary stress               | ◌ ɰ ɰ   |
| ◌ Secondary stress             | ◌ ɰ ɰ   |
| ◌ Long                         | ◌ ɰ ɰ   |
| ◌ Half-long                    | ◌ ɰ ɰ   |
| ◌ Extra-short                  | ◌ ɰ ɰ   |
| ◌ Minor (foot) group           |         |
| ◌ Major (intonation) group     |         |
| ◌ Syllable break               | ◌ ɰ.ækt |
| ◌ Linking (absence of a break) |         |

## TONES AND WORD ACCENTS

| LEVEL             | CONTOUR          |
|-------------------|------------------|
| ◌ or ɰ Extra high | ◌ or ɰ Rising    |
| ◌ High            | ◌ Falling        |
| ◌ Mid             | ◌ High rising    |
| ◌ Low             | ◌ Low rising     |
| ◌ Extra low       | ◌ Rising-falling |
| ◌ Downstep        | ◌ Global rise    |
| ◌ Upstep          | ◌ Global fall    |