# extIPA SYMBOLS FOR DISORDERED SPEECH

(Revised to 2002)

CONSONANTS (other than on the IPA Chart)

| | bilabial | labiodental | dentolabial | labioalv. | linguolabial | interdental | bidental | alveolar | velar | velophar. |
|---|---|---|---|---|---|---|---|---|---|---|
| Plosive | | p̪ b̪ | p̄ b̄ | p̼ b̼ | t̻ d̻ | t̪ d̪ | | | | |
| Nasal | | | m̄ | m̼ | n̻ | n̪ | | | | |
| Trill | | | | | r̻ | r̪ | | | | |
| Fricative median | | | f̄ v̄ | f̼ v̼ | θ̻ ð̻ | θ̪ ð̪ | h̪ ɦ̪ | | | ɦ̩ |
| Fricative lateral+median | | | | | | | | ɬ ɮ | | |
| Fricative nareal | m̃ | | | | | | | ñ | ŋ̃ | |
| Percussive | ʷ ʷ | | | | | | ɺ̪ | | | |
| Approximant lateral | | | | | l̻ | l̪ | | | | |

Where symbols appear in pairs, the one to the right represents a voiced consonant. Shaded areas denote articulations judged impossible.

DIACRITICS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ↔ | labial spreading | s↔ | ̿ | strong articulation | f̿ | ̃ | denasal | m̃ |
| ̄ | dentolabial | v̄ | ̄ | weak articulation | v̄ | ̃ | nasal escape | ṽ |
| ̪ | interdental/bidental | n̪ | \ | reiterated articulation | p\p\p | ̽ | velopharyngeal friction | s̽ |
| ̼ | alveolar | t̼ | ̙ | whistled articulation | s̙ | ↓ | ingressive airflow | p↓ |
| ̻ | linguolabial | d̻ | → | sliding articulation | θ→s | ↑ | egressive airflow | !↑ |

CONNECTED SPEECH

| | |
|---|---|
| (.) | short pause |
| (..) | medium pause |
| (...) | long pause |
| *f* | loud speech [{$_f$ laʊd $_f$}] |
| *ff* | louder speech [{$_{ff}$ laʊdəʳ $_{ff}$}] |
| *p* | quiet speech [{$_p$ kwaɪət $_p$}] |
| *pp* | quieter speech [{$_{pp}$ kwaɪətəʳ $_{pp}$}] |
| *allegro* | fast speech [{$_{allegro}$ fast $_{allegro}$}] |
| *lento* | slow speech [{$_{lento}$ sloʊ $_{lento}$}] |
| *crescendo, ralentando,* etc. may also be used | |

VOICING

| | | |
|---|---|---|
| ˬ | pre-voicing | ˬz |
| ˬ | post-voicing | zˬ |
| ₍₀₎ | partial devoicing | z̥ |
| ₍₀ | initial partial devoicing | z̥ |
| ₀₎ | final partial devoicing | z̥ |
| ₍ˬ₎ | partial voicing | s̬ |
| ₍ˬ | initial partial voicing | s̬ |
| ˬ₎ | final partial voicing | s̬ |
| ⁼ | unaspirated | p⁼ |
| ʰ | pre-aspiration | ʰp |

OTHERS

| | | | |
|---|---|---|---|
| (̄), ( C̄ ) | indeterminate sound, consonant | (( )) | extraneous noise ((2 sylls)) |
| ( V̄ ), ( P̄l̄.v̄l̄s̄ ) | indeterminate vowel, voiceless plosive, etc. | ¡ | sublaminal lower alveolar percussive click |
| ( N̄ ), (v̄) | indeterminate nasal, probably [v], etc. | !¡ | alveolar and sublaminal clicks (cluck-click) |
| ( ) | silent articulation (ʃ), (m) | * | sound with no available symbol |

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