# ExtIPA SYMBOLS FOR DISORDERED SPEECH

## CONSONANTS (other than those on the IPA Chart)

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| | Bilabial | Labio-dental | Labio-alveolar | Dento-labial | Bidental | Linguo-labial | Inter-dental | Alveolar | Retroflex | Palatal | Velar | Velo-pharyngeal | Upper pharyngeal |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Plosive | | p̪ b̪ | p̪͡f b̪͡v | p̪̄ b̪̄ | | t̪ d̪ | t̪̄ d̪̄ | | | | | | ʠ ʡ |
| Nasal | | | m̥̪ m̪ | m̥̄ m̄ | | n̥̪ n̪ | n̥̄ n̄ | | | | | | |
| Trill | | | | | | r̪ | r̪̄ | | | | | ʩ ʭ | |
| Fricative, median | | | f̪ v̪ | f̄ v̄ | h̪̄ ɦ̪̄ | θ̪ ð̪ | θ̪̄ ð̪̄ | θ̪ ð̪ | | | | ɧ ʢʕ | |
| Fricative, lateral | | | | | | ɬ̪ ɮ̪ | ɬ̪̄ ɮ̪̄ | | ɬ ɮ | ʎ̝ ʟ̝ | ɬ̠ ɮ̠ | | |
| Fricative, lat. + med. | | | | | | | | ɬs ɮz | | | | | |
| Fricative, nasal | m̥̪ m̪ | ɱ̊ ɱ | | | | | | n̥̪ n̪ | ɳ̊ ɳ | ɲ̊ ɲ | ŋ̊ ŋ | | |
| Approxt., lateral | | | | | | l̪ | l̪̄ | | | | | | |
| Percussive | ʬ | | | | ʗ | | | | | | | | |

## DIACRITICS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ◌̟ | labial spreading | s̟ u̟ | ◌̃ | partially denasal | m̃ | ◌˒ | main gesture offset right | s˒ |
| ◌̈ | strong articulation | f̈ | ◌̰ | fricative nasal escape | v̰ | ◌˓ | main gesture offset left | s˓ |
| ◌̗ | weak articulation | v̗ | ◌ʱʰ | velopharyngeal friction | sʱʰ ʒʱʰ | ◌̥ | whistled articulation | s̥ |
| \ | reiteration | p\p\p | ↓ | ingressive airflow | p↓ | ◌◌→ | sliding articulation | θs→ |

## RHYTHM, UNCERTAINTY, etc.

| | |
|---|---|
| (.) (..) (...) (1.3 sec) | short, medium, long pause; 1.3-second pause |
| *f, ff* | loud(er) speech: [{*f* laʊd *f*}, {*ff* laʊdə *ff*}] |
| *p, pp* | quiet(er) speech: [{*p* kwaɪət *p*}, {*pp* kwaɪətə *pp*}] |
| *allegro* | fast speech: [{*allegro* fast *allegro*}] |
| *lento* | slow speech: [{*lento* sloʊ *lento*}] |
| *crescendo, rallentando* | *etc.* may also be used |
| ◯ | Indeterminate sound. Partially indeterminate sounds: |
| Ⓒ Ⓒ̸ Ⓕ Ⓛ Ⓖ | consonant, obstruent, fricative, liquid, glide, nasal, |
| Ⓝ Ⓟ Ⓡ Ⓢ Ⓣ | plosive, rhotic *or* resonant, sibilant, tone/accent, |
| Ⓥ Ⓚ ⓞ ⓝ̥ã *etc.* | nasal vowel, click, syllable, probably [n̥ã], *etc.* |
| ( ) | silent articulation, e.g. (ʃ), (m) |
| (( )) | extraneous noise, e.g. ((2 sylls)) or ((2σ)), ((cough)) |

## VOICING

| | | | |
|---|---|---|---|
| ◌ˬ | pre-voicing | ˬz | |
| ◌ˬ | post-voicing | zˬ | |
| ◌˷ | post-creak | a˷ | |
| ◌̥ | partial devoicing | z̥ ʒ̥ | |
| ◌̊ | initial partial devoicing | z̊ ʒ̊ | |
| ◌̥ | final partial devoicing | z̥ ʒ̥ | |
| ◌̬ | partial voicing | s̬ | |
| ◌̬ | initial partial voicing | s̬ | |
| ◌̬ | final partial voicing | s̬ | |
| ʰ◌ | pre-aspiration | ʰp | |
| ◌⁼ | unaspirated | p⁼ | |
| ◌ʰʰ, ◌ʰː | long aspiration | tʰʰ tʰː | |

## OTHER SOUNDS

| | |
|---|---|
| ɻ̪ | apical *r* |
| ɹ̈ | bunched *r* (molar *r*) |
| s̪ z̪ | laminal fricatives (incl. lowered tongue tip) |
| dˡˠ kˡˠ | [d, k] with lateral fricated release |
| tˡˢ dˡᶻ | [t, d] with lateral and median release |
| t̪͡θ d̪͡ð | linguolabial affricates |

| | |
|---|---|
| ɻ ɳ ɲ | velodorsal plosives and nasal |
| ¡ | sublaminal lower-alveolar percussive |
| !¡ | alveolar click with sublaminal percussive release |
| ʘ͡r̪̄ | buccal interdental trill (raspberry) |
| t̪̄ʰ | [t] with bidental aspiration |
| * | sound with no available symbol |