extIPA SYMBOLS FOR DISORDERED SPEECH
(Revised to 2008)

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

<table>
<thead>
<tr>
<th></th>
<th>bilabial</th>
<th>labiodental</th>
<th>dentolabial</th>
<th>labioalv.</th>
<th>linguolabial</th>
<th>interdental</th>
<th>bidental</th>
<th>alveolar</th>
<th>velar</th>
<th>velophar.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plosive</td>
<td>p b</td>
<td>p b</td>
<td>t d</td>
<td>t d</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Nasal</td>
<td>m</td>
<td>m</td>
<td>n</td>
<td>n</td>
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<tr>
<td>Trill</td>
<td>r</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fricative median</td>
<td>ʃ v</td>
<td>f v</td>
<td>θ ̃</td>
<td>θ ̃</td>
<td>h ̃</td>
<td>h ̃</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Fricative lateral+median</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>k k</td>
<td>l z</td>
<td></td>
</tr>
<tr>
<td>Fricative nareal</td>
<td>m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n n</td>
<td>ʃ j</td>
<td></td>
</tr>
<tr>
<td>Percussive</td>
<td>w</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Approximant lateral</td>
<td>l</td>
<td>ʃ l</td>
<td>ʃ l</td>
<td>ʃ l</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

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

### DIACRITICS

- Labial spreading: ʃ
- Dentolabial: ʃ
- Interdental/bidental: ʃ
- Alveolar: ʃ
- Linguolabial: ʃ
- Strong articulation: f
- Denasal: m
- Weak articulation: v
- Nasal escape: ʃ
- Reiterated articulation: p / p / p
- Velopharyngeal friction: ʃ
- Whistled articulation: s
- Ingressive airflow: p
- Egressive airflow: !

### CONNECTED SPEECH

- (.) short pause
- (.) medium pause
- (...) long pause
- f loud speech [ˈʃ laud ʃ]
- ff louder speech [ˈʃ laud ʃ]
- p quiet speech [ˈʃ kwart ʃ]
- pp quieter speech [ˈʃ kwart ɔrɪ ʃ]
- allegro fast speech [ˈʃ laurə ʃ]
- lento slow speech [ˈʃ lento ˈʃluə ʃ]
- crescendo, ralentando, etc. may also be used

### VOICING

- " pre-voicing
- " post-voicing
- " partial devoicing
- " initial partial devoicing
- " final partial devoicing
- " partial voicing
- " initial partial voicing
- " final partial voicing
- " unaspirated
- h pre-aspiration

### OTHERS

- (,) indeterminate sound, consonant, vowel
- ( ʃ ) indeterminate voiceless plosive, nasal, etc
- ( ) silent articulation (ʃ), (m)
- ( ( )) extraneous noise, e.g. ((2 sylls))
- i sublaminal lower alveolar percussive click
- ʃ alveolar and sublaminal clicks (click-click)
- * sound with no available symbol

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