

# ExtIPA SYMBOLS FOR DISORDERED SPEECH

## CONSONANTS (beyond 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		<u>p</u> <u>b</u>	<u>p</u> <u>b</u>	<u>p̥</u> <u>b̥</u>		<u>t</u> <u>d</u>	<u>t̥</u> <u>d̥</u>						Q ɔ
Nasal			<u>m̥</u> <u>m̥</u>	<u>m̥</u> <u>m̥</u>		<u>n̥</u> <u>n̥</u>	<u>n̥</u> <u>n̥</u>						
Trill						<u>r</u>	<u>r̥</u>					<u>ʀ</u> <u>ʀ̥</u>	
Fricative median			<u>f</u> <u>v</u>	<u>f̥</u> <u>v̥</u>	<u>h̥</u> <u>h̥</u>	<u>θ</u> <u>ð</u>	<u>θ̥</u> <u>ð̥</u>	<u>θ̥</u> <u>ð̥</u>				<u>ɸ</u> <u>ɸ̥</u>	
Fricative lateral						<u>ɬ</u> <u>ɮ</u>	<u>ɬ̥</u> <u>ɮ̥</u>		<u>ɭ</u> <u>ɭ̥</u>	<u>ʃ</u> <u>ʃ̥</u>	<u>ʒ</u> <u>ʒ̥</u>		
Fricative lat. + med.								<u>l̥</u> <u>l̥</u>					
Fricative nasal	<u>m̥</u> <u>m̥</u>	<u>m̥</u> <u>m̥</u>						<u>n̥</u> <u>n̥</u>	<u>n̥</u> <u>n̥</u>	<u>ɲ̥</u> <u>ɲ̥</u>	<u>ŋ̥</u> <u>ŋ̥</u>		
Approx. lateral						<u>ɭ</u>	<u>ɭ̥</u>						
Percussive	<u>w̥</u>				<u>ɸ̥</u>								

## DIACRITICS

<u>ɸ̥</u>	labial spreading	<u>ɸ̥</u> <u>ɸ̥</u>	<u>̥</u> , <u>̥</u>	denasal, partial denasal	<u>m̥</u> <u>n̥</u>	<u>̥</u>	main gesture offset right	<u>̥</u>
<u>̥</u>	strong articulation	<u>̥</u>	<u>̥</u>	fricative nasal escape	<u>v̥</u>	<u>̥</u>	main gesture offset left	<u>̥</u>
<u>̥</u>	weak articulation	<u>̥</u>	<u>̥</u>	velopharyngeal friction	<u>̥</u> <u>̥</u>	<u>̥</u>	whistled articulation	<u>̥</u>
<u>̥</u>	reiteration	<u>p̥</u> <u>p̥</u>	<u>̥</u>	ingressive airflow	<u>p̥</u>	<u>̥</u>	sliding articulation	<u>̥</u>

## RHYTHM, UNCERTAINTY ETC.

(.) (..) (...)	(1.3 sec)	short, medium, long pause; 1.3-second pause
<i>f, ff</i>		loud(er) speech: [{ <i>f</i> laʊd <i>f</i> }, { <i>ff</i> laʊdə <i>ff</i> }]
<i>p, pp</i>		quiet(er) speech: [{ <i>p</i> kwaɪət <i>p</i> }, { <i>pp</i> kwaɪətə <i>pp</i> }]
<i>allegro</i>		fast speech: [{ <i>allegro</i> fast <i>allegro</i> }]
<i>lento</i>		slow speech: [{ <i>lento</i> sloʊ <i>lento</i> }]
<i>cresc(endo), rall(entando)</i>		<i>etc.</i> may also be used
○		Indeterminate sound. Partially indeterminate sounds:
Ⓒ Ⓓ Ⓕ Ⓖ Ⓗ		consonant, obstruent, fricative, liquid, glide, nasal,
Ⓐ Ⓟ Ⓡ Ⓢ Ⓣ		plosive, rhotic or resonant, sibilant, tone/accents,
Ⓥ Ⓦ Ⓧ (̥̥̥)		nasal vowel, click, syllable, probably [̥̥̥], <i>etc.</i>
( )		silent articulation, e.g. (ʃ), (m)
(( ))		extraneous noise, e.g. ((2 sylls)) or ((2σ)), ((cough))

## VOICING

<u>̥</u>	pre-voicing	<u>̥</u> <u>t</u>
<u>̥</u>	post-voicing	<u>̥</u> <u>z</u>
<u>̥</u>	post-creak	<u>̥</u> <u>a</u>
<u>̥</u>	partial devoicing	<u>̥</u> <u>ʒ</u>
<u>̥</u>	initial partial devoicing	<u>̥</u> <u>ʒ</u>
<u>̥</u>	final partial devoicing	<u>̥</u> <u>ʒ</u>
<u>̥</u>	partial voicing	<u>̥</u> <u>ʒ</u>
<u>̥</u>	initial partial voicing	<u>̥</u> <u>ʒ</u>
<u>̥</u>	final partial voicing	<u>̥</u> <u>ʒ</u>
<u>h̥</u>	pre-aspiration	<u>h̥</u> <u>p</u>
<u>̥</u>	unaspirated	<u>̥</u> <u>p</u>
<u>̥</u> <sup>hh</sup> , <u>̥</u> <sup>h</sup>	long aspiration	<u>̥</u> <sup>hh</sup> <u>t</u> <u>̥</u> <sup>h</sup> <u>t</u>

## OTHER SOUNDS

<u>ɹ̥</u> <u>ɹ̥</u>	apical-r and bunched-r (molar-r)
<u>ɸ̥</u> <u>ɸ̥</u>	laminal fricatives (incl. lowered tongue tip)
<u>t̥</u> <sup>0</sup> <u>k̥</u> <sup>x</sup> <i>etc.</i>	[t, k] <i>etc.</i> with median fricated release
<u>d̥</u> <sup>l</sup> <u>k̥</u> <sup>*</sup> <i>etc.</i>	[d, k] <i>etc.</i> with lateral fricated release
<u>t̥</u> <sup>ls</sup> <u>d̥</u> <sup>lz</sup>	[t, d] with lateral and median release
<u>t̥</u> <sup>l̥</sup> <u>d̥</u> <sup>l̥</sup> <i>etc.</i>	linguolabial affricates <i>etc.</i>

<u>ɻ</u> <u>ɹ̥</u> <u>ɹ̥</u>	velodorsal plosives and nasal
<u>ɹ̥</u>	sublaminal lower-alveolar percussive
<u>ɻ̥</u>	alveolar click with sublaminal percussive release
<u>ɹ̥</u>	buccal interdental trill (raspberry)
<u>t̥</u> <sup>h̥</sup>	[t] with bidental aspiration
*	sound with no available symbol