

ExtIPA SYMBOLS FOR DISORDERED SPEECH
(Revised to 1997)

CONSONANTS (other than those on the IPA Chart)

	bilabial	labiodental	dentolabial	labioalv.	linguolabial	interdental	bidental	alveolar	velar	velophar.
Plosive		<u>p</u> <u>b</u>	<u>p̄</u> <u>b̄</u>	<u>p̲</u> <u>b̲</u>	<u>ṭ</u> <u>ḍ</u>	<u>t̠</u> <u>d̠</u>				
Nasal			<u>m̄</u>	<u>m̲</u>	<u>ɳ</u>	<u>ɳ̠</u>				
Trill					<u>ṛ</u>	<u>r̠</u>				
Fricative: central			<u>f̣</u> <u>ṿ</u>	<u>f̲</u> <u>v̲</u>	<u>θ̣</u> <u>ð̣</u>	<u>θ̠</u> <u>ð̠</u>	<u>ħ</u> <u>ɦ</u>			<u>fɥ</u>
Fricative: lateral+ central								<u>ɬ</u> <u>ɮ</u>		
Fricative: nareal	<u>ṁ</u>							<u>ṅ</u>	<u>ŋ̣</u>	
Percussive	<u>ẉ</u>						<u>ɸ</u>			
Approximant: lateral					<u>ḷ</u>	<u>l̠</u>				

DIACRITICS

↔ labial spreading	↔̣	strong articulation	f̣	~ denasal	ṃ̇
˘ dentolabial	ṿ˘	˘ weak articulation	ṿ˘	˘ nasal escape	ṿ˘
˘ interdental/bidental	ɳ̣˘	\ reiterated articulation	p\p	˘ velopharyngeal friction	ṩ
= alveolar	ṭ=	↗ whistled articulation	ṣ↗	↓ ingressive airflow	p↓
˘ linguolabial	ḍ˘	→ sliding articulation	θ̣→	↑ egressive airflow	!↑

CONNECTED SPEECH

(.) short pause
(..) medium pause
(...) long pause
<i>f</i> loud speech [{ <i>f</i> loud <i>f</i> }]
<i>ff</i> louder speech [{ <i>ff</i> loud <i>ff</i> }]
<i>p</i> quiet speech [{ <i>p</i> kwaiət <i>p</i> }]
<i>pp</i> quieter speech [{ <i>pp</i> kwaiət <i>pp</i> }]
<i>allegro</i> fast speech [{ <i>allegro</i> fɑ:st <i>allegro</i> }]
<i>lento</i> slow speech [{ <i>lento</i> slou <i>lento</i> }]
<i>crescendo, ralentando, etc.</i> may also be used

VOICING

˘ pre-voicing	˘z
˘ post-voicing	z˘
(_o) partial devoicing	(_o z)
(_o) initial partial devoicing	(_o z)
(_o) final partial devoicing	(_o z)
(_o) partial voicing	(_o s)
(_o) initial partial voicing	(_o s)
(_o) final partial voicing	(_o s)
= unaspirated	p=
^h pre-aspiration	^h p

OTHERS

(̣) indeterminate sound	(()) extraneous noise ((2 sylls))
(̣̄) indeterminate vowel, plosive, etc.	ɿ sublaminal lower alveolar percussive click
(̣̄ _{vls}) indeterminate voiceless plosive, etc.	!ɿ alveolar & sublaminal click ('cluck-click')
() silent articulation (j), (m)	* sound with no available symbol