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	p̪ b̪	t̻ d̻	t̪ d̪				
Nasal			m̄	m̪	n̻	n̪				
Trill					r̻	r̪				
Fricative median			f̄ v̄	f̪ v̪	θ̻ ð̻	θ̪ ð̪	h̪ ɦ̪			ɦ
Fricative lateral+median								ɬ ɮ		
Fricative nareal	m̃							ñ	ŋ̃	
Percussive	ʷ						ɺ			
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	f̤	̃	denasal	m̃
̄	dentolabial	v̄	̩	weak articulation	v̩	̃	nasal escape	ṽ
̪	interdental/bidental	n̪	\	reiterated articulation	p\p\p	̽	velopharyngeal friction	s̽
̪	alveolar	t̪	̙	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), (P̄l.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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