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		p̪ b̪	p̪̄ b̪̄	p̪̿ b̪̿	t̪ d̪	t̪̄ d̪̄				
Nasal			m̪̄	m̪̿	n̪	n̪̄				
Trill					r̪	r̪̄				
Fricative: central			f̪̄ v̪̄	f̪̿ v̪̿	θ̪ ð̪	θ̪̄ ð̪̄	h̪̄ ɦ̪̄			fŋ
Fricative: lateral+ central								ɬs ɬz		
Fricative: nareal	m̪̈							n̪̈	ŋ̪̈	
Percussive	w̪ w̪						⁼			
Approximant: lateral					l̪	l̪̄				

DIACRITICS

↔	labial spreading	s̪ ↔	‼	strong articulation	f ‼	≁	denasal	≁ m
̄	dentolabial	v̄	̅	weak articulation	v ̅	̈	nasal escape	̈ v
̪̄	interdental/bidental	n̪̄	\	reiterated articulation	p\p\p	≈	velopharyngeal friction	≈ s
̿	alveolar	t̿	↑	whistled articulation	s ↑	↓	ingressive airflow	p↓
̪	linguolabial	d̪	→	sliding articulation	θs →	↑	egressive airflow	!↑

CONNECTED SPEECH

(.)	short pause
(..)	medium pause
(...)	long pause
f	loud speech [{*f* lɑʊd *f*}]
ff	louder speech [{*ff* lɑʊdɚ *ff*}]
p	quiet speech [{*p* kwaɪət *p*}]
pp	quieter speech [{*pp* kwaɪətɚ *pp*}]
allegro	fast speech [{*allegro* fɑːst *allegro*}]
lento	slow speech [{ *lento* sloʊ *lento*}]
crescendo, ralentando, etc. may also be used	

VOICING

ˇ	pre-voicing	ˇz
ˇ	post-voicing	zˇ
(˳)	partial devoicing	(z̥)
(˳	initial partial devoicing	(z̥
˳)	final partial devoicing	z̥)
(ˇ)	partial voicing	(s̬)
(ˇ	initial partial voicing	(s̬
ˇ)	final partial voicing	s̬)
=	unaspirated	p=
ʰ	pre-aspiration	ʰp

OTHERS

(‾) indeterminate sound	(( )) extraneous noise ((2 sylls))
(V̄), (P̄l) indeterminate vowel, plosive, etc.	¡ sublaminal lower alveolar percussive click
(P̄l,v̄ls) indeterminate voiceless plosive, etc.	!¡ alveolar & sublaminal click ('cluck-click')
( ) silent articulation (ʃ), (m)	* sound with no available symbol

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