extIPA SYMBOLS FOR DISORDERED SPEECH

(Revised to 2015)

CONSONANTS (other than those on the IPA Chart)

	Bilabial	Labio-dental	Labio-alveolar	Dento-labial	Bidental	Linguo-labial	Inter-dental	Alveolar	Retroflex	Palatal	Velar	Velo-pharyngeal	Upper pharyngeal
Plosive		p̪ b̪	p̪ b̪	p̪ b̪		t̪ d̪	t̪ d̪						ɢ ɡ
Nasal			m̥̪ m̪	m̥̪ m̪		n̥̪ n̪	n̪ n̪						
Trill						r̪	r̪					ʗ ʘ	
Fricative, median			f̪ v̪	f̪ v̪	h̪ ɦ̪	θ̪ ð̪	θ̪ ð̪	θ̪ ð̪				ʕ ʢ	
Fricative, lateral						ɬ̪ ɮ̪	ɬ̪ ɮ̪		ɬ ɮ	ʎ̝ ʝ̝	ɬ̠ ɮ̠		
Fricative, lat. + med.								ɬs ɮz					
Fricative, nasal	m̥̃ m̃	m̥̃ m̃						ñ̥ ñ	ñ̥ ñ	ɲ̊̃ ɲ̃	ŋ̊̃ ŋ̃		
Approxt., lateral						l̪	l̪						
Percussive	ʷ ʷ				ʗ								

DIACRITICS

◌̪	labial spreading:	s̪	◌̃, ◌̃	denasal, partial denasal:	m̃ ñ	◌̫	main gesture offset right:	s̫
◌̪	strong articulation:	f̪	◌̃	fricative nasal escape:	ṽ	◌̪	main gesture offset left:	s̪
◌̩	weak articulation:	v̩	◌̃	velopharyngeal friction:	s̃ z̃	◌̟	whistled articulation:	s̟
\	reiteration:	p\p\p	↓	ingressive airflow:	p↓	◌◌	sliding articulation:	θs

CONNECTED SPEECH, UNCERTAINTY ETC.

(.) (..) (...)	short, medium, long pause
f, *ff*	loud(er) speech: [{*f* laʊd *f*}]
p, *pp*	quiet(er) speech: [{*p* kwaɪət *p*}]
allegro	fast speech: [{*allegro* fɑst *allegro*}]
lento	slow speech: [{*lento* sloʊ *lento*}]
crescendo, *ralentando* etc. may also be used	
◯, Ⓒ, Ⓥ	indeterminate sound, consonant, vowel
Ⓕ, ⓟ etc.	indeterminate fricative, probably [p] etc.
( )	silent articulation, e.g. (ʃ), (m)
(( ))	extraneous noise, e.g. ((2 sylls))

VOICING

◌˕	pre-voicing:	˕z
◌˔	post-voicing:	z˔
◌̥	partial devoicing:	z̥ ʒ̥
◌̥	initial partial devoicing:	z̥ ʒ̥
◌̥	final partial devoicing:	z̥ ʒ̥
◌̬	partial voicing:	s̬
◌̬	initial partial voicing:	s̬
◌̬	final partial voicing:	s̬
◌⁼	unaspirated:	p⁼
ʰ◌	pre-aspiration:	ʰp

OTHER SOUNDS

ɹ̠	apical-r
ɹ̟	bunched-r (molar-r)
s̺ z̺	laminal fricatives (incl. lowered tongue tip)
kˡ etc.	[k] with lateral fricated release etc.
tˡˢ dˡᶻ	[t, d] with lateral and median release
t̪ʰ etc.	[t] with interdental aspiration etc.

t͡θ	linguolabial affricate etc.
ɟ ɖ ɳ	velodorsal oral and nasal stops
¡	sublaminal lower alveolar percussive
!¡	alveolar click with sublaminal percussive release
ʘ͡r̪	buccal interdental trill (raspberry)
*	sound with no available symbol