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	p̪͡f b̪͡v	p̪͡f̄ b̪͡v̄		t̼ d̼	t̪̼ d̪̼						ʠ ʡ
Nasal			m̥̪ m̪	m̥̪͡f̄ m̪͡v̄		n̥̼ n̼	n̪̼̊ n̪̼						
Trill						r̼	r̪̼					ʩ ʭ	
Fricative, median			f̪ v̪	f̪͡f̄ v̪͡v̄	h̪̄ ɦ̪̄	θ̼ ð̼	θ̪̄ ð̪̄	θ̪ ð̪				ɸʋ βʋ	
Fricative, lateral						ɬ̼ ɮ̼	ɬ̪̄ ɮ̪̄		ɬ̢ ɮ̢	ʎ̝ ʟ̝	ɬ̴ ɮ̴		
Fricative, lat. + med.								ls ɮz					
Fricative, nasal	m̥̃ m̃	m̥̃͡f̄ m̃͡v̄						ñ̥ ñ	ɳ̊̃ ɳ̃	ɲ̊̃ ɲ̃	ŋ̊̃ ŋ̃		
Approxt., lateral						l̼	l̪̄						
Percussive	ʬ				ʗ								

DIACRITICS

◌̟	labial spreading:	s̟	◌̃, ◌̰	denasal, partial denasal:	m̃ n̰	◌˂	main gesture offset right:	s˂
◌̽	strong articulation:	f̽	◌̤	fricative nasal escape:	v̤	◌˃	main gesture offset left:	s˃
◌̩	weak articulation:	v̩	◌̴	velopharyngeal friction:	s̴ ʒ̴	◌˕	whistled articulation:	s˕
\	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:	z̥̬ ʒ̥̬
◌̥	initial partial devoicing:	z̥ ʒ̥
◌̬̥	final partial devoicing:	z̬̥ ʒ̬̥
◌̬	partial voicing:	s̬
◌̬	initial partial voicing:	s̬
◌̬	final partial voicing:	s̬
◌⁼	unaspirated:	p⁼
ʰ◌	pre-aspiration:	ʰp

OTHER SOUNDS

ɻ̼	apical-r
j̈	bunched-r (molar-r)
s̪ z̪	laminal fricatives (incl. lowered tongue tip)
kˠ etc.	[k] with lateral fricated release etc.
tˡˢ dˡᶻ	[t, d] with lateral and median release
tʰ̪ etc.	[t] with interdental aspiration etc.

t͡θ̼	linguolabial affricate etc.
ɻ ɳ ɽ	velodorsal oral and nasal stops
¡	sublaminal lower alveolar percussive
!¡	alveolar click with sublaminal percussive release
ʘ͡r̪̄	buccal interdental trill (raspberry)
*	sound with no available symbol