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	p̄ b̄		t̪ d̪	t̄ d̄						ɋ ɢ
Nasal			m̥̪ m̪	m̥̄ m̄		n̥̪ n̪	n̥̄ n̄						
Trill						r̪	r̄					ɱ̆ ɱ̆	
Fricative, median			f̪ v̪	f̄ v̄	h̄ ɦ̄	θ̪ ð̪	θ̄ ð̄	θ̪ ð̪				fɲ̆ fɲ̆	
Fricative, lateral						ɬ̪ ɮ̪	ɬ̄ ɮ̄		ɬ ɮ	ʎ̆ ʎ̆	ɬ̆ ɮ̆		
Fricative, lat. + med.								ɬs ɮz					
Fricative, nasal	m̊̃ m̃	m̊̃ ɱ̃						n̊̃ ñ	ɳ̊̃ ɳ̃	ɲ̊̃ ɲ̃	ŋ̊̃ ŋ̃		
Approxt., lateral						l̪	l̄						
Percussive	ʷ ʷ				⸢ ⸣								

DIACRITICS

◌̺	labial spreading	s̺	◌̃, ◌⁽̃⁾	denasal, partial denasal	m̃ n⁽̃⁾	◌˂	main gesture offset right	s˂
◌̪	strong articulation	f̪	◌̃	fricative nasal escape	ṽ	◌˃	main gesture offset left	s˃
◌̬	weak articulation	v̬	◌̃	velopharyngeal friction	s̃ z̃	◌ˢ	whistled articulation	sˢ
\	reiteration	p\p\p	↓	ingressive airflow	p↓	◌◌̲	sliding articulation	θs̲

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˅
◌⁽ᵒ⁾	partial devoicing	z⁽ᵒ⁾ ʒ⁽ᵒ⁾
◌ᵒ	initial partial devoicing	zᵒ ʒᵒ
◌⁽ᵒ⁾	final partial devoicing	z⁽ᵒ⁾ ʒ⁽ᵒ⁾
◌⁽˅⁾	partial voicing	s⁽˅⁾
◌˅	initial partial voicing	s˅
◌⁽˅⁾	final partial voicing	s⁽˅⁾
◌=	unaspirated	p=
ʰ◌	pre-aspiration	ʰp

OTHER SOUNDS

ɹ̝	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
tʰ̪	[t] with interdental aspiration etc.

t͡θ	linguolabial affricate etc.
ɴ ɢ ɴ̠	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

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