

extIPA SYMBOLS FOR DISORDERED SPEECH

(Revised to 2015)

CONSONANTS (other than on the IPA Chart)

	bilabial	labiodental	dentolabial	labioalv.	linguolabial	interdental	bidental	alveolar	palatal	velar	velophar
Plosive		p̣ ḅ	p̥ b̥	p̱ ḇ	ṯ ḏ	t̪ d̪					
Nasal			ṃ	m̱	ṉ	ɳ̱					
Trill					ṟ	r̪					
Fricative median			f̣ ṿ	f̱ v̱	θ̱ ð̱	θ̪ ð̪	ḥ ḥ				fɲ
Fricative lateral					ɬ̱ ɮ̱	ɬ̪ ɮ̪			ç̣ ç̣	ʁ̣ ʁ̣	
Fricative lateral+median								lṣ lẓ			
Fricative nasal	ṃ̃ ṃ̃							ɳ̣̃ ɳ̣̃		ŋ̣̃ ŋ̣̃	
Percussive	ẉ ẉ						ɽ̣				
Approx. lateral					ḻ	l̪					

Where symbols appear in pairs, the one to the right represents a voiced consonant. Shaded areas denote articulations judged impossible.

DIACRITICS

↔	labial spreading	↔̣	˜	denasal	ṁ	<	main gesture offset left	ᶅ
ˀ	strong articulation	f̣	˜	nasal escape	ṁ̃	>	main gesture offset right	ᶅ
ˁ	weak articulation	ṿ	≈	velopharyngeal friction	ᶅ̃ ᶅ̃	+	whistled articulation	ᶅ̃
\	reiteration	p̣\p̣\p̣	↓	ingressive airflow	p̣↓	→	sliding articulation	ᶅ̃

CONNECTED SPEECH & UNCERTAINTY ETC

(.) (..) (...)	short, medium, long pause
f, ff	loud(er) speech [f̣ laʊd f̣]
p, pp	quiet(er) speech [p̣ kwarət p̣]
allegro	fast speech [allegro fast allegro]
lento	slow speech [lento slou lento]
crescendo, ralentando, etc. may also be used	
○, ⊙, ⊖	indeterminate sound, consonant, vowel
⊕, ⊖	indeterminate fricative, probably [p], etc
()	silent articulation (ʃ), (m)
(())	extraneous noise, e.g. ((2 sylls))

VOICING

˥	pre-voicing	˥z
˦	post-voicing	z˦
˧	partial devoicing	z̥
˧	initial partial devoicing	z̥
˨	final partial devoicing	z̥
˩	partial voicing	z̥
˩	initial partial voicing	z̥
˩	final partial voicing	z̥
=	unaspirated	p̄
h	pre-aspiration	ḥp

OTHER SOUNDS

ɿ	apical-r
ɿ̃	bunched-r (molar-r)
ʂ, ʐ	laminar fricatives (inc. lowered tongue tip)
ɻ	voiceless retroflex lateral fricative

ɣ	velodorsal articulation
ɿ̃	sublaminal lower alveolar percussive click
ɿ̃	alveolar & sublaminal clicks (cluck-click)
*	sound with no available symbol