

THE INTERNATIONAL PHONETIC ALPHABET (revised to 1993) **Alt+ (dec.)**
WITH X-SAMPA EQUIVALENTS IN BLUE **unicode (hex)**

CONSONANTS (PULMONIC)

	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ᵀ ᵀ̚	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			ʀ					ʀ̥		
Tap or Flap				ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		ʋ		ɹ		ɻ	j	ɰ			
Lateral approximant				l		ɭ	ʎ	ʟ			

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

CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
ʘ ʙ	ɓ ɗ	ʼ ʔ
Ʉ ɠ	ɠ ɡ	
ʘ̣ ʙ̣	ɓ̣ ɗ̣	
ɠ̣ ɡ̣		

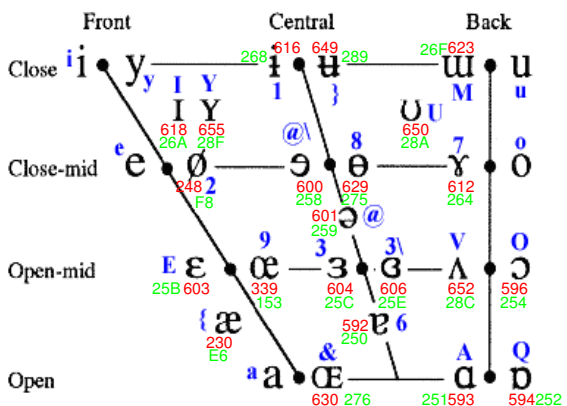
SUPRASEGMENTALS

TONES & WORD ACCENTS

	LEVEL	CONTOUR
ˈ	High	Rising
ˌ	Low	Falling
˥	Extra high	
˦	High	
˧	Mid	
˨	Low	
˩	Extra low	
˨˨˩	Downstep	Global rise
˩˩˨	Upstep	Global fall

X-SAMPA diacritics come after symbols, e.g. n 0
 Diacritics may be placed above a symbol with a descender, e.g. ŋ̣

VOWELS



OTHER SYMBOLS

ɸ	Voiced labial-velar fricative	ç	Alveolo-palatal fricatives
w	Voiced labial-velar approximant	ɺ	Alveolar lateral flap
ɥ	Voiced labial-palatal approximant	ɻ	Simultaneous ʃ and x
h̥	Voiced epiglottal fricative		Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.
ɸ̥	Voiced epiglottal fricative		
ɸ̥̚	Epiglottal plosive		
ɸ̥̚		ts	ls
		ɸ̥̚	ɸ̥̚
		ɸ̥̚	ɸ̥̚
		ɸ̥̚	ɸ̥̚
		ɸ̥̚	ɸ̥̚

DIACRITICS

̥	Voicedless	̚	Breathy voiced	̠	Dental
̜	Voiced	̞	Creaky voiced	̡	Apical
̣	Aspirated	̤	Linguolabial	̦	Laminar
̦	More rounded	̧	Labialized	̨	Nasalized
̩	Less rounded	̪	Palatalized	̫	Nasal release
̬	Advanced	̭	Velarized	̮	Lateral release
̯	Retracted	̰	Pharyngealized	̱	No audible release
̲	Centralized	̳	Velarized or pharyngealized	̴	
̶	Mid-centralized	̷	Raised	̸	
̹	Syllabic	̺	Lowered	̻	
̽	Non-syllabic	̼	Advanced Tongue Root	̽	
̾	Rhoticity	̿	Retracted Tongue Root	̾	