THE INTERNATIONAL PHONETIC ALPHABET (revised to 1993, updated 1996)

CONSONANTS (PULMONIC)

© 1996 IPA

	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k g	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
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)

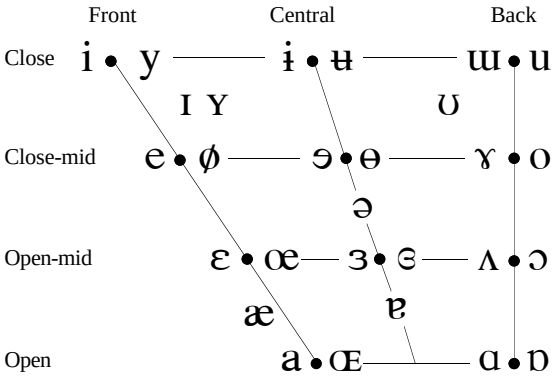
Clicks		Voiced implosives		Ejectives	
ʘ	Bilabial	ɓ	Bilabial	ʼ	Examples:
ǀ	Dental	ɗ	Dental/alveolar	pʼ	Bilabial
ǃ	(Post)alveolar	ʄ	Palatal	tʼ	Dental/alveolar
ǂ	Palatoalveolar	ɠ	Velar	kʼ	Velar
ǁ	Alveolar lateral	ʛ	Uvular	sʼ	Alveolar fricative

OTHER SYMBOLS

ʍ	Voiceless labial-velar fricative	ɕ ʑ	Alveolo-palatal fricatives
w	Voiced labial-velar approximant	ɺ	Voiced alveolar lateral flap
ɥ	Voiced labial-palatal approximant	ɧ	Simultaneous ʃ and x
ʜ	Voiceless epiglottal fricative		
ʢ	Voiced epiglottal fricative		
ʡ	Epiglottal plosive		

Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary. k͡p t͡s

VOWELS



Where symbols appear in pairs, the one to the right represents a rounded vowel.

DIACRITICS

Diacritics may be placed above a symbol with a descender, e.g. ŋ̊

̥	Voiceless	n̥	d̥	̤	Breathy voiced	b̤	a̤	̪	Dental	t̪	d̪
̬	Voiced	s̬	t̬	̰	Creaky voiced	b̰	a̰	̺	Apical	t̺	d̺
ʰ	Aspirated	tʰ	dʰ	̼	Linguolabial	t̼	d̼	̻	Laminal	t̻	d̻
̹	More rounded	ɔ̹		ʷ	Labialized	tʷ	dʷ	̃	Nasalized	ẽ	
̜	Less rounded	ɔ̜		ʲ	Palatalized	tʲ	dʲ	ⁿ	Nasal release	dⁿ	
̟	Advanced	u̟		ˠ	Velarized	tˠ	dˠ	ˡ	Lateral release	dˡ	
̠	Retracted	e̠		ˤ	Pharyngealized	tˤ	dˤ	̚	No audible release	d̚	
̈	Centralized	ë		̴	Velarized or pharyngealized	ɫ					
̽	Mid-centralized	e̽		̝	Raised	e̝	(ɹ̝ = voiced alveolar fricative)				
̩	Syllabic	n̩		̞	Lowered	e̞	(β̞ = voiced bilabial approximant)				
̯	Non-syllabic	e̯		̟	Advanced Tongue Root	e̟					
˞	Rhoticity	ə˞	a˞	̠	Retracted Tongue Root	e̠					

SUPRASEGMENTALS

ˈ	Primary stress	ˈfoʊnəˈtɪʃən
ˌ	Secondary stress	
ː	Long	eː
ˑ	Half-long	eˑ
̆	Extra-short	ĕ
|	Minor (foot) group	
‖	Major (intonation) group	
.	Syllable break	ɹi.ækt
‿	Linking (absence of a break)	

TONES AND WORD ACCENTS

LEVEL			CONTOUR		
ȅ or ˥	Extra high		ě or ˩˥	Rising	
é ˦	High		ê ˥˩	Falling	
ē ˧	Mid		ĕ ˦˥	High rising	
è ˨	Low		ȅ ˩˨	Low rising	
ȅ ˩	Extra low		ê ˥˩˥	Rising-falling	
↓	Downstep		↗	Global rise	
↑	Upstep		↘	Global fall	