

THE INTERNATIONAL PHONETIC ALPHABET (revised to 1989)

CONSONANTS

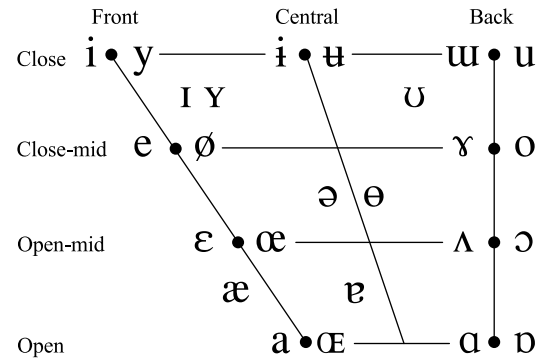
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal	
Plosive	p b		t d			ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ	
Nasal	m	ɱ	n			ɳ	ɲ	ŋ	ɴ			
Trill	ʙ		r						ʀ			
Tap or Flap			ɾ			ɽ						
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ	
Lateral fricative			ɬ ɮ									
Approximant		ʋ	ɹ			ɻ	j	ɰ				
Lateral approximant			l			ɭ	ʎ	ʟ				
Ejective stop	pʼ		tʼ			ʈʼ	cʼ	kʼ	qʼ			
Implosive	ɓ ɗ		ɟ ɗ				ɕ ɟ	ƙ ɡ	ɠ ɠ			

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

DIACRITICS

◌ Voiceless	ᵿ ᵿ	◌ More rounded	ᵿ	^w Labialized	t^w d^w	◌ Nasalized	ẽ
◌ Voiced	ᵿ ᵿ	◌ Less rounded	ᵿ	^j Palatalized	t^j d^j	ⁿ Nasal release	dⁿ
^h Aspirated	t^h d^h	⁺ Advanced	ᵿ	^ʏ Velarized	t^ʏ d^ʏ	^l Lateral release	d^l
◌ Breathy voiced	ᵿ ᵿ	◌ Retracted	ᵿ	^ɣ Pharyngealized	t^ɣ d^ɣ	◌ No audible release	d[◌]
◌ Creaky voiced	ᵿ ᵿ	◌ Centralized	ẽ	◌ Velarized or pharyngealized ᵿ			
^ɹ Linguolabial	tᵿ dᵿ	[×] Mid-centralized	ẽ	^ɿ Raised eᵿ (ɿ = voiced alveolar fricative)			
[̪] Dental	tᵿ dᵿ	^ɿ Syllabic	ɿ	^ɿ Lowered eᵿ (ɿ = voiced bilabial approximant)			
[̺] Apical	tᵿ dᵿ	[◌] Non-syllabic	ᵿ	[̺] Advanced Tongue Root eᵿ			
[̠] Laminal	tᵿ dᵿ	[◌] Rhoticity	ᵿ	[̠] Retracted Tongue Root eᵿ			

VOWELS



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

OTHER SYMBOLS

ʌ	Voiceless labial-velar fricative	⦿	Bilabial click
ɰ	Voiced labial-velar approximant	ǀ	Dental click
ɥ	Voiced labial-palatal approximant	ǃ	(Post)alveolar click
ħ	Voiceless epiglottal fricative	ǂ	Palatoalveolar click
ʕ	Voiced epiglottal fricative	ǁ	Alveolar lateral click
ʡ	Epiglottal plosive	ɺ	Alveolar lateral flap
ɕ ʑ	Alveolo-palatal fricatives	ɥ	Simultaneous Ƀ and Ɂ
ɜ	Additional mid central vowel		

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

 $\widehat{\text{kp}} \quad \widehat{\text{ts}}$

SUPRASEGMENTALS

		TONES & WORD ACCENTS			
		LEVEL		CONTOUR	
	Primary stress	fəʊnə'tɪʃən			
	Secondary stress				
ː	Long	eː	ē or ˥	Extra high	ě or ˧˥ Rising
ˑ	Half-long	eˑ	é	High	ê ˨˩ Falling
˘	Extra-short	ě	ē	Mid	ě ˧ High rising
.	Syllable break	ˌi.ækt	è	Low	ě ˨ Low rising
	Minor (foot) group		è	Extra low	ě ˨˩ Rising-falling etc.
	Major (intonation) group				
˘	Linking (absence of a break)		↓	Downstep	
↗	Global rise		↑	Upstep	
↘	Global fall				