

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2020)

CONSONANTS (PULMONIC)

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	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		ⱱ	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			

Symbols to the right in a cell are voiced, to the left are voiceless. Shaded areas denote articulations judged impossible.

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Fricative		f v	θ ð	s z	ʃ ʒ		ç	x	ʁ		h
Approximant							j				
Lateral approximant			l				ʎ				

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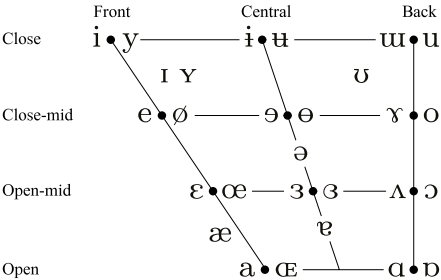
CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
◌ ɸ Bilabial	ɓ Bilabial	ʼ Examples:
◌ ɗ Dental	ɗ Dental/alveolar	pʼ Bilabial
◌ ɗ̥ (Post)alveolar	f Palatal	tʼ Dental/alveolar
◌ ɗ̥ Palatoalveolar	ɡ Velar	kʼ Velar
◌ ɗ̥ Alveolar lateral	ɠ Uvular	sʼ Alveolar fricative

OTHER SYMBOLS

ɱ Voiceless labial-velar fricative	ɸ ɹ Alveolo-palatal fricatives
ɰ Voiced labial-velar approximant	ɹ Voiced alveolar lateral flap
ɱ Voiced labial-palatal approximant	ɰ Simultaneous ʃ and ʒ
ɸ Voiceless epiglottal fricative	
ɹ Voiced epiglottal fricative	Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.
ɰ Epiglottal plosive	

VOWELS



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

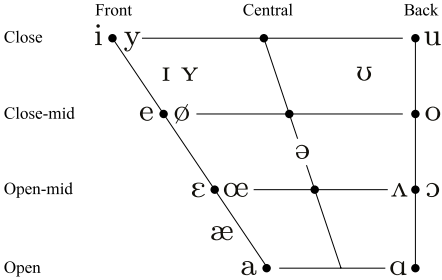
SUPRASEGMENTALS

ˈ Primary stress	ˈfouənəˈtɪfən
ˌ Secondary stress	
ː Long	eː
ˑ Half-long	eˑ
◌ Extra-short	ẽ
◌ Minor (foot) group	
◌ Major (intonation) group	
◌ Syllable break	ˌi.ækt
◌ Linking (absence of a break)	

TONES AND WORD ACCENTS

LEVEL	CONTOUR
ẽ or ̃ High	ẽ or ̃ Rising
é High	ê Falling
ē Mid	ẽ High rising
è Low	ẽ Low rising
ẽ Extra low	ẽ Rising-falling
↓ Downstep	↗ Global rise
↑ Upstep	↘ Global fall

VOWELS



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

SUPRASEGMENTALS

ˈ Primary stress	ˈfouənəˈtɪfən
ˌ Secondary stress	
ː Long	eː

DIACRITICS

◌ Voiceless	◌ ɰ ɠ	◌ Breathy voiced	◌ ɰ ɠ	◌ Dental	◌ ʈ ɖ
◌ Voiced	◌ ʂ ʐ	◌ Creaky voiced	◌ ɰ ɠ	◌ Apical	◌ ʈ ɖ
◌ Aspirated	◌ ʈʰ ɖʰ	◌ Linguolabial	◌ ʈ ɖ	◌ Laminal	◌ ʈ ɖ
◌ More rounded	◌ ɔ̞	◌ Labialized	◌ ʈʷ ɖʷ	◌ Nasalized	◌ ẽ
◌ Less rounded	◌ ɔ̟	◌ Palatalized	◌ ʈʲ ɖʲ	◌ Nasal release	◌ ɖⁿ
◌ Advanced	◌ ɰ̟	◌ Velarized	◌ ʈʷ ɖʷ	◌ Lateral release	◌ ɖˡ
◌ Retracted	◌ ɰ̠	◌ Pharyngealized	◌ ʈˤ ɖˤ	◌ No audible release	◌ ɖ̚
◌ Centralized	◌ ẽ	◌ Velarized or pharyngealized	◌ ʈ̤ ɖ̤		
◌ Mid-centralized	◌ ẽ̞	◌ Raised	◌ ɰ̟ (ɰ̟ = voiced alveolar fricative)		
◌ Syllabic	◌ ɰ̩	◌ Lowered	◌ ɰ̠ (ɰ̠ = voiced bilabial approximant)		
◌ Non-syllabic	◌ ɰ̥	◌ Advanced Tongue Root	◌ ɰ̟		
◌ Rhoticity	◌ ɰ̠ ɰ̠	◌ Retracted Tongue Root	◌ ɰ̠		

Some diacritics may be placed above a symbol with a descender, e.g. ɰ̟̞

Typefaces: Doulos SIL (metatext); unitipa (symbols)

DIACRITICS

h Aspirated tʰ dʰ		
ɔ̃ More rounded ɔ̃		~ Nasalized ẽ
ɕ Less rounded ɕ̥		
+ Advanced u̟		
- Retracted e̠		
	ɰ Raised e̟ (ɰ̟ = voiced alveolar fricative)	
	ɰ Lowered e̠ (ɰ̠ = voiced bilabial approximant)	
~ Rhoticity ʀ ʁ		

Some diacritics may be placed above a symbol with a descender, e.g. ɰ̟̞

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