

Phonological Features Chart (v11.02)

		Coronal Obstruents [+cons, -son, +cor]										Palatal Obstruents [+cor + dors]					Non-coronal Obstruents [+cons, -son, -cor]										Laryngeals [-cons, -son]					Affricates [+cons, -son -/cont]						Sonorant Consonants [+cons, +son]					Glides [-cons, +son]			Vowels [-cons, +son]										
diacritic examples																																																								
Class features																																																								
cons																																																								
son																																																								
syll																																																								
Place features	labial																																																							
	round																																																							
	coronal																																																							
	ant																																																							
	dist																																																							
	dorsal																																																							
Laryngeal features	high																																																							
	low																																																							
	back																																																							
	tense																																																							
Manner features	pharyngeal																																																							
	ATR																																																							
Laryngeal features	voice																																																							
	SG																																																							
	CG																																																							
Manner features	cont																																																							
	strident																																																							
	lateral																																																							
	del rel nasal																																																							

Place and Manner of Articulation	Labial	Labiodental	Dental	Alveolar	Retroflex	Postalveolar	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 ɳ	ɴ	ɴ	ɴ	
Trill	B			ʀ					R		
Tap/Flap				ɾ	ɽ						
Fricative	ɸ β f v	θ ð	s z	ʃ ʒ			ç ʝ x ɣ ʁ ʕ	ħ ʕ	h ɦ		
Lateral Fricative				ɬ ɮ		ɮ ʒ					
Approximant		v		ɹ	ɻ		j	ɰ			
Lateral Approximant				l	ɭ		ʎ L				
labial	+	+	-	-	-	-	-	-	-	-	-
coronal	-	-	+	+	+	+	+	+	+	-	-
dorsal	-	-	-	-	-	+	+	+	+	+	+
pharyngeal	-	-	-	-	-	-	-	-	-	-	+

Variants

ʃ = ʃ

č = tʃ

y = j

r = ɾ

j = ɟ

c = ts

ʈ = ʈ

ʒ = ʒ

ʝ = ʝ

ʕ = ʕ

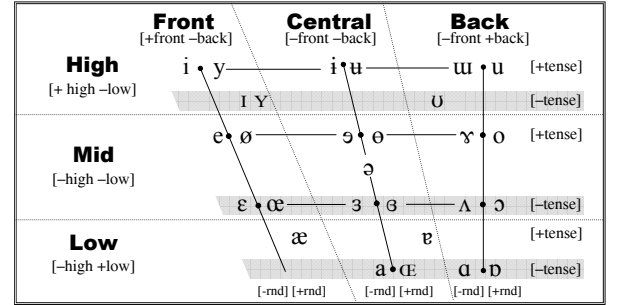
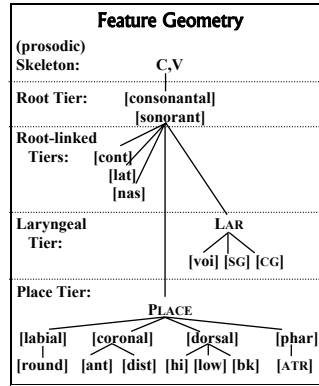
ɰ = ɰ

ʎ = ʎ

a = ɑ

More Sounds

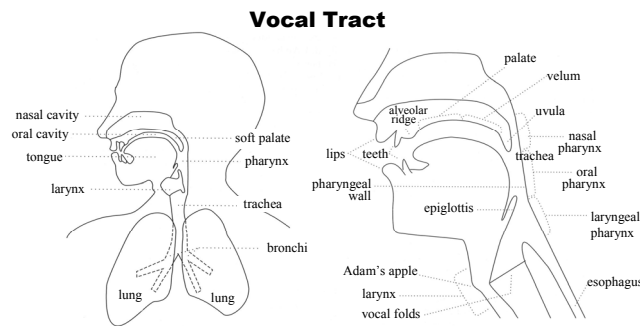
- bilabial click
- | dental click
- ! (post) alveolar click
- ‡ palato-alveolar click
- ∥ alveolar lateral click
- ⊥ alveolar lateral flap
- fj simultaneous f and x
- ɥ voiced labio-palatal approximate
- H voiceless epiglottal fricative
- ʕ voiced epiglottal fricative
- ç [-voi] alveolo-palatal fricative
- ʒ voiced alveolo-palatal fricative



SONORITY SCALE (varies somewhat across languages)

1 vowels	2 glides	3 liquids	4 nasals	5 fricatives	6 stops & affricates
+syllabic			-syllabic		
-consonantal				+consonantal	
+approximant			-approximant		
+sonorant			-sonorant		
+continuant		[-cont]		[±cont]	-continuant

NOTES • though nasals are specified [-cont] due to obstruction of the oral cavity, nasal airflow makes them more sonorous than stops
 • the vowel [a] is central (not front, as in some charts) because it can participate in a 3-way color contrast: [æ] vs. [a] vs. [ɑ]
 • this feature system is 3-valued with 0 = unspecified (assumed to be obligatory for place features whose mother's value is '-')



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DIACRITICS

◌ voiceless $\text{̥} \text{̜}$	◌ breathy voice $\text{̤} \text{̧}$
◌ voiced $\text{̚} \text{̝}$	◌ creaky voiced $\text{̞} \text{̟}$
^h aspirated $\text{̈} \text{̉}$	^w linguolabial $\text{̭} \text{̮}$
^o more rounded $\text{̜} \text{̝}$	^v labialized $\text{̝} \text{̞}$
^l less rounded $\text{̜} \text{̝}$	^j palatalized $\text{̞} \text{̟}$
^u advanced ̞	^v velarized $\text{̞} \text{̟}$
^r retracted ̞	[̣] pharyngealized $\text{̞} \text{̟}$
ⁿ dental $\text{̞} \text{̟}$	◌ nasalized ̃
^a apical $\text{̞} \text{̟}$	ⁿ nasal release ̟
^l laminal $\text{̞} \text{̟}$	^l lateral release ̟
^o centralized ̞	^o no audible release ̞
^x md-centralized ̞	◌ velar or pharyngeal ̞
ⁱ syllabic ̞	^a ATR ̞ ^r RTR ̞
^o non-syllabic ̞	^o lowered ̞
^o rhoticity ̞	^o raised ̞

SUPRASEGMENTALS

- ◌ primary stress
- ◌ secondary stress
- ◌ long ◌ half long
- ◌ extra short
- | minor (foot) group
- ∥ major (intonation) group
- ◌ syllable break

TONES AND WORD ACCENTS

- ◌ extra high
- ◌ rising
- ◌ high
- ◌ falling
- ◌ mid
- ◌ hi rising
- ◌ low
- ◌ low rising
- ◌ extra low
- ◌ rise fall
- ◌ downstep
- ◌ global rise
- ◌ upstep
- ◌ global fall