Phonological Features Chart (12.12)

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Place and Manner of Articulation	Labial	Labiodental	Dental	Alveolar	Retroflex	Postalveolar	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d	ţφ		Сј	k g	q G		?
Nasal	m	ŋ		n	η		л	ŋ	N		
Trill	В			r					R		
Tap/Flap				ſ	τ						
Fricative	φβ	f v	θð	s z	şz		çj	хү	Χк	ħΥ	h fi
Lateral Fricative				łђ		∫ 3					
Approximant		υ		Ţ	ŀ		j	щ			
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labial	+	+	-	-	-	-	-	-	-	-	- 1
coronal	-	-	+	+	+	+	+	-	-	-	-
dorsal		Ŀ	Ŀ	-	-	+	+	+	+	<u> </u>	-
pharyngeal	-	-	-	-	-	-	-	-	-	+	-

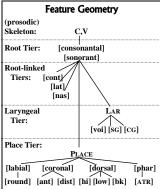
		SONORITY	SCALE (va	ries somewhat ac	cross languages)			
1 vowels	2 glides	3 liquids	4 nasals	5 fricatives	6 stops & affricates			
+syllabic			– syllabio	2				
- consc	onantal		+ consonantal					
+	-approximant		– approximant					
	+ sono	rant	– sonorant					
	+	- continuant	[-cont]	[± cont] – continuar				

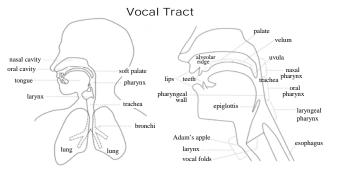
NOTES • Though nasals are specified [-cont] due to obstruction of the oral cavity, nasal airflow makes them more sonorous than stops.

• 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. [a].

• The feature system here is 3-valued. '0' = unspecified and is obligatory for any place feature whose mother is specified '-'

Var	iants	ĪΓ	More Sounds
	= ſ		 ⊙ bilabial click
	= tſ		dental click
у	= j		! (post) alveolar click
	= 1		‡ palato-alveolar click
j	= 3		alveolar lateral click
c	= ts		1 alveolar lateral flap
ł	= L		fj simultaneous ∫ and x
ž	= 3		η voiced labio-palatal approximate
j	= d3		H voiceless epiglottal fricative
ü	= y		\$\text{voiced epiglottal fricative}
ö	= œ		ç [-voi] alveolo-palatal fricative
a	= a		z voiced alveolo-palatal fricative





Jason Riggle - University of Chicago version 12.12, December 2012 comments/corrections: jriggle@uchicago.edu

			1		
	Front [+front -back]	Centra [-front -bac		Back front +back]
High	i • y—	— i ¹ t	- \ 	w •u	[+tense]
[+ high –low]	IY		U		[-tense]
Mid [-high -low]	e ø –	e	9	- Y • O	[+tense]
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		24	121010101020
Low	\	æ	\ B \		[+tense]
[-high +low]			a Œ	a · b	[-tense]
	[-rn	d] [+rnd]	[-rnd] [+rnd]	[-rnd] [+rnd]	

DIA	CRITICS	SUPRASEGMENTALS
voiceless n d	" breathy voice ba	primary stress
voiced § ţ	creaky voiced b a	secondary stress
aspirated th dh	_ linguolabial t d	: long · half long
ς behnuor arom	w labialized tw dw	extra short
less rounded o	j palatalized t ^j d ^j	minor (foot) group
advanced u	Y velarized tY dY	major (intonation) group
retracted e	[§] pharyngealized t [§] d [§]	. syllable break
dental t d	~ nasalized ẽ	TONES AND WORD ACCENTS
dentar i d	nasanzeu e	TONES AND WORD ACCENTS
apical ţ d	n nasal release dn	ë extra high
apical t d	n nasal release dn	ế] extra high
apical t d	n nasal release dn lateral release dl	
apical t d laminal t d centralized ë	n nasal release dn lateral release dl no audible release	é ↑ extra high ↓ ↑ rising é ↑ high ↑ ↓ falling ē ↑ mid ↑ ↑ ħi rising
apical t d laminal t d centralized ë md-centralized ě	n nasal release dn lateral release dl no audible release velar or pharyngeal t	ë extra high
apical t d laminal t d centralized ë md-centralized ë syllabic n	n nasal release d ⁿ lateral release d ¹ no audible release velar or pharyngeal t ATR e, RTR e	ë extra high