

Place of Articulation			Consonants (cont)			Major Class Features		Major Class Features (cont)	
place	active articulator	passive articulator	/r/	writer		consonantal features		[+lat]	airflow over the tongue (only /l/)
			/k/	cat	[+cons +high +back]	[+syll]	sounds with function as nucleus of syllable	[-lat]	all other sounds
bilabial	lower lip	upper lip	/k <sup>h</sup> /	kit		[-syll]	sounds with no function as nucleus of a syllable	[+delrel]	delayed release
labio--dental	lower lip	upper teeth	/g/	gorilla	[+cons +high +back +voice]			[-delrel]	no delayed release
dental	tongue tip/blade	upper teeth	/ts/	church	[+cons +cor +stri + del rel + high]	[+cons]	sounds with oral stricture	vocalic features	
alveolar	tongue tip/blade	alveolar ridge	/dz			[-cons]	sounds without oral stricture	[+low]	lowered tongue
palato-al-veolar	tongue back	area behind alveolar ridge	Manner of Articulation			[+son]	sounds with clear formant pattern	[-low]	no lowered tongue
			manner	description		[-son]	sounds without clear formant pattern	[+high]	tongue raised
palatal	tongue front	hard palate	plosive	involves complete closure				[-high]	tongue not raised
velar	tongue back	velum	affricate	with friction		place features		[+back]	tongue retracted
uvular	tongue back	uvula	fricatives	without friction		[+cor]	articulated with tongue tip or blade raised	[-back]	tongue not retracted
glottal	vocal cords	vocal cords	nasals	air flows into nasal cavity		[-cor]	does not involve the front of the tongue	[+front]	tongue fronted
			glides	semi-vowels				[-front]	tongue not fronted
			liquids	unhindered airflow		[+ant]	produced in front of the alveolar ridge	[+round]	lips rounded
Consonants			Consonant-types			[-ant]	produced behind the alveolar ridge	[-round]	lips not rounded
plosives			type	description	members	manner features		[+tense]	muscular constriction
/p/	play	[+cons +ant]	obstruents	restricted airflow	plosives, affricates, fricatives	[+cont]	free airflow through oral cavity	[-tense]	no muscular constriction
/p <sup>h</sup> /	pie								
/b/	bottle	[+cons +ant +voice]	sonorants	no restricted airflow	nasals, glides, liquids	[-cont]	stopped airflow in oral cavity		
/t/	hit	[+cons +cor + ant]							
/t <sup>h</sup> /	tiger					[+nas]	airflow through the nasal cavity		
/d/	dog	[+cons +cor +ant +voice]				[-nas]	no airflow through the nasal cavity		
						[+strid]	with constriction = noisy airflow		
						[-strid]	without constriction		

