

CONSONANTS (NON-PULMONIC)

L.	Clicks
0	Bilabial
	Dental
!	(Post)alveolar
‡	Palatoaiveolar
	Alveolar lateral

SUPRASEGMENTALS

1	Primary stress	
ı	Secondary stress	for,nε'tτ.∫ņ
	Syllable break	
,	Half-long	e'
-	Extra-short	ĕ
ĭ	Long	ei
	Minor (foot) group	
	Major (intonation) grou	πb
	Linking (absence of a b	oreak)

DIACRITICS Diacritics may be placed above a symbol with a descender, e.g., $\mathring{\eta}$

0	Voiceless	ů	ģ		Breathy voiced	þ	a		Dental	ţd
<u>~</u>	Voiced	Ş	ţ	T~	Creaky voiced	b	a		Apical	ţd
h	Aspirated	th	d ^h		Linguolabial	ţ	₫		Laminal	ţd
,	More rounded	ş		w	Labialized	tw	dw	~	Nasalized	$\tilde{\mathrm{e}}$
	Less rounded	Ş		j	Palatalized	ţj	dj	п	Nasal release	d ⁿ
+	Advanced	ų		Y	Velarized	ţу	dч	1	Lateral release	d1
	Retracted	e	· · · · · ·	٢	Pharyngealized	t٢	d۹	7	No audible relea	se d
_	Centralized	ë	<u> </u>	~	Velarized or pha	rynge	alized	1		
×	Mid-centralized	ě		_	Raised e	(J =	voiced	alve	olar fricative)	·········
ı	Syllabic	ņ		Ŧ	Raised e	<u> </u>	voiced	bilab	oial approximant)	
_	Non-syllabic	ę		-;	Advanced tongue					
L	Rhoticity	ar :	Or.	,	Retracted tongue	root	ę			

Consonants of Standard American English

The consonants of Standard American English, written with IPA symbols, classified by voicing place of articulation, and manner of articulation:

	Place of Articulation								
		Bilabial	Labio- dental	Inter- dental	Alveolar	Palatal	Velar	Glottal	
3	Stop								
Ī	Fricative								
	Affricate								
T	Flap				9 4				
j	Nasal								
	Lateral Liquid								
	Retroflex Liquid								
	Glide								

State of the Glottis:

Voiceless Voiced

Vowels of Standard American English

The vowels of Standard American English, written with IPA symbols, presented using the traditional American classification system:

Monophthongs: Front Central Back Front Central Back Round Round Tense Vowels Lar Vowels Lar Vowels

Examples of Phonetic Symbols Found in Standard American English

Note: Because English spelling does not have a one-to-one correspondence with sounds, underlining the letters in example words to show where a sound occurs can be difficult. For example, we have underlined the <ea> in Leah to indicate that there is a [j] between the [i] and the [ə]: [lijə]. For each symbol, think carefully about how the sound occurs in the example words.

a. Consonants

i. Non-Sy	i. Non-Syllabic Consonants			
Symbol	Sample Words			
[p]	pit, tip, spit, hiccough, appear			
[b]	<u>b</u> all, glo <u>b</u> e, am <u>b</u> le, <u>b</u> rick, <u>b</u> u <u>b</u> ble			
[t]	tag, pat, stick, pterodactyl, stuffed			
[d]	dip, card, drop, loved, batted			
[k]	kit, scoot, character, critique			
[g]	guard, bag, finger, designate, Pittsburgh			
[?]	hatrack, Batman			
[f]	<u>f</u> oot, laugh, <u>ph</u> ilosophy, co <u>ff</u> ee, cara <u>f</u> e			
[v]	vest, dove, gravel, anvil, average			
[θ]	through, wrath, thistle, ether, teeth			
[ð]	the, their, mother, either, teethe			
[s]	soap, psychology, packs, descent, peace			
[z]	zip, roads, kisses, Xerox, design			
[ʃ]	shy, mission, nation, glacial, sure			
[3]	measure, vision, azure, casualty, decision			
[h]	who, hat, rehash, hole, whole			
[tʃ]	<u>ch</u> oke, ma <u>tch</u> , fea <u>t</u> ure, righ <u>t</u> eous, consti <u>t</u> uent			
[dʒ]	ju <u>dg</u> e, <u>G</u> eorge, Jell-O, region, resi <u>d</u> ual			
[m]	moose, lamb, smack, amnesty, ample			
[n]	nap, design, snow, know, mnemonic			
[ŋ]	lung, think, finger, singer, ankle			
[1]	<u>l</u> eaf, fee <u>l</u> , <u>Ll</u> oyd, mi <u>l</u> d, app <u>l</u> aud			
[1]	reef, fear, Harris, prune, carp			
[t]	writer, butter, udder, clutter, cuter			
[w]	with, swim, mowing, queen, twilight, gooey			
[w]	which, where, what, whale, why			
[j]	you, beautiful, feud, use, Leah			

ii. Syllabic Consonants

Symbol	Sample Words				
[m]	poss <u>um</u> , chas <u>m</u> , Ad <u>am</u> , bott <u>om</u> less				
['n]	butt <u>on,</u> chick <u>en</u> , less <u>on</u> , kitt <u>en</u> ish				
[1]	litt <u>le, single, simple,</u> stab <u>il</u> ize				
[[‡]]	ladd <u>er, singer, burp, per</u> cent				

b. Vowels

Monophthongs (Simple Vowels)

Symbols	Examples
[i]	b <u>ea</u> t, w <u>e</u> , bel <u>ie</u> ve, p <u>eo</u> ple, mon <u>e</u> y
[1]	bit, consist, injury, malignant, hymn
[ε]	bet, reception, says, guest, bury
[æ]	b <u>a</u> t, l <u>aug</u> h, <u>a</u> nger, comr <u>a</u> de, r <u>a</u> lly
[u]	boot, who, sewer, duty, through
[ʊ]	p <u>u</u> t, f <u>oo</u> t, b <u>u</u> tcher, c <u>ou</u> ld, b <u>oog</u> ie- w <u>oog</u> ie
[c]	bought, caught, wrong, stalk, core
[a]	pot, father, sergeant, honor, hospital
[٨]	but, tough, another, oven
[e]	among, sofa

ii. Diphthongs (Complex Vowels)

Symbols	Examples
[aɪ]	b <u>i</u> te, St <u>ei</u> n, <u>ai</u> sle, ch <u>o</u> ir, <u>i</u> sland
[av]	bout, brown, doubt, flower, loud
[10]	b <u>oy, doily, rejoi</u> ce, perestr <u>oi</u> ka, ann <u>oy</u>
[งช]	boat, beau, grow, though, over
[e1]	b <u>ai</u> t, r <u>ei</u> gn, gr <u>ea</u> t, th <u>ey</u> , g <u>au</u> ge