

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	<span>p</span> <span>b</span>		<span>t</span> <span>d</span>			<span>ʈ</span> <span>ɖ</span>	<span>c</span> <span>ɟ</span>	<span>k</span> <span>ɡ</span>	<span>q</span> <span>ɢ</span>		<span>ʔ</span>
Nasal	<span>m</span>	<span>ɱ</span>	<span>n</span>			<span>ɳ</span>	<span>ɲ</span>	<span>ŋ</span>	<span>ɴ</span>		
Trill	<span>ʙ</span>		<span>r</span>						<span>ʀ</span>		
Tap or Flap		<span>ⱱ</span>	<span>ɾ</span>			<span>ɽ</span>					
Fricative	<span>ɸ</span> <span>β</span>	<span>f</span> <span>v</span>	<span>θ</span> <span>ð</span>	<span>s</span> <span>z</span>	<span>ʃ</span> <span>ʒ</span>	<span>ʂ</span> <span>ʐ</span>	<span>ç</span> <span>ʝ</span>	<span>x</span> <span>ɣ</span>	<span>χ</span> <span>ʁ</span>	<span>ħ</span> <span>ʕ</span>	<span>h</span> <span>ɦ</span>
Lateral fricative			<span>ɬ</span> <span>ɮ</span>								
Approximant		<span>ʋ</span>	<span>ɹ</span>			<span>ɻ</span>	<span>j</span>	<span>ɰ</span>			
Lateral approximant			<span>l</span>			<span>ɭ</span>	<span>ʎ</span>	<span>ʟ</span>			

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

## CONSONANTS (NON-PULMONIC)

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

## OTHER SYMBOLS

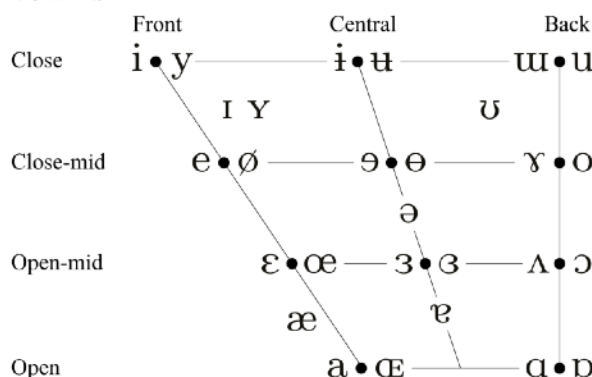
ʌ Voiceless labial-velar fricative	ɕ ʑ Alveolo-palatal fricatives
ʋ Voiced labial-velar approximant	ɺ Voiced alveolar lateral flap
ɥ Voiced labial-palatal approximant	ɥɥ Simultaneous ɥ and x
ħ Voiceless epiglottal fricative	
ʕ Voiced epiglottal fricative	Affricates and double articulations
ʡ Epiglottal plosive	can be represented by two symbols
	joined by a tie bar if necessary.

## DIACRITICS

◌ <sup>◌</sup>	Voiceless	<sup>◌</sup> n <sup>◌</sup> d	◌ <sup>◌</sup>	Breathy voiced	<sup>◌</sup> b <sup>◌</sup> a	◌ <sup>◌</sup>	Dental	<sup>◌</sup> t <sup>◌</sup> d
◌ <sup>◌</sup>	Voiced	<sup>◌</sup> s <sup>◌</sup> t	◌ <sup>◌</sup>	Creaky voiced	<sup>◌</sup> b̥ <sup>◌</sup> ḁ	◌ <sup>◌</sup>	Apical	<sup>◌</sup> t̥ <sup>◌</sup> d̥
h	Aspirated	t <sup>h</sup> d <sup>h</sup>	◌ <sup>◌</sup>	Linguolabial	<sup>◌</sup> t̚ <sup>◌</sup> d̚	◌ <sup>◌</sup>	Laminal	<sup>◌</sup> t̟ <sup>◌</sup> d̟
◌ <sup>◌</sup>	More rounded	◌ <sup>◌</sup>	◌ <sup>◌</sup>	Labialized	t <sup>w</sup> d <sup>w</sup>	◌ <sup>◌</sup>	Nasalized	ẽ
◌ <sup>◌</sup>	Less rounded	◌ <sup>◌</sup>	j	Palatalized	t <sup>j</sup> d <sup>j</sup>	n	Nasal release	d <sup>n</sup>
+	Advanced	u <sup>+</sup>	ʏ	Velarized	t <sup>ʏ</sup> d <sup>ʏ</sup>	l	Lateral release	d <sup>l</sup>
-	Retracted	e <sup>-</sup>	ɣ	Pharyngealized	t <sup>ɣ</sup> d <sup>ɣ</sup>	◌ <sup>◌</sup>	No audible release	d <sup>◌</sup>
◌ <sup>◌</sup>	Centralized	ë	◌ <sup>◌</sup>	Velarized or pharyngealized	ɫ			
×	Mid-centralized	ẽ	◌ <sup>◌</sup>	Raised	e <sup>◌</sup> (ɹ <sup>◌</sup> = voiced alveolar fricative)			
◌ <sup>◌</sup>	Syllabic	n <sup>◌</sup>	◌ <sup>◌</sup>	Lowered	e <sup>◌</sup> (β <sup>◌</sup> = voiced bilabial approximant)			
◌ <sup>◌</sup>	Non-syllabic	e <sup>◌</sup>	◌ <sup>◌</sup>	Advanced Tongue Root	e <sup>◌</sup>			
◌ <sup>◌</sup>	Rhoticity	æ̃ æ̃	◌ <sup>◌</sup>	Retracted Tongue Root	e <sup>◌</sup>			

Some diacritics may be placed above a symbol with a descender, e.g.  $\mathring{\mathfrak{h}}$

## VOWELS



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

## SUPRASEGMENTALS

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

## TONES AND WORD ACCENTS

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

## Common IPA Symbols for American English

<u>Vowels</u>	<u>Glides &amp; Diphthongs</u>	<u>Plosives &amp; Flaps</u>	<u>Fricatives &amp; Affricates</u>	<u>Nasals &amp; Liquids</u>
[i] <u>bee</u>	[i] <u>yes</u>	[p] <u>spin</u>	[f] <u>few</u>	[m] <u>my</u>
[ɪ] <u>kit</u>	[w] <u>we</u>	[t] <u>stay</u>	[v] <u>view</u>	[n] <u>now</u>
[ej] <u>face</u>	[aw] <u>cow</u>	[k] <u>skip</u>	[θ] <u>think</u>	[ŋ] <u>sing</u>
[ɛ] <u>pet</u>	[oj] <u>boy</u>	[p <sup>h</sup> ] <u>pit</u>	[ð] <u>that</u>	[l] <u>lot</u>
[æ] <u>ash</u>	[aj] <u>lie</u>	[t <sup>h</sup> ] <u>tin</u>	[s] <u>sink</u>	[t̬] <u>ball</u>
[ʌ] <u>cup</u>		[k <sup>h</sup> ] <u>cat</u>	[z] <u>zoo</u>	[ɹ] <u>red</u>
[ə] <u>about</u>		[b] <u>about</u>	[ʃ] <u>ship</u>	
[ɑ] <u>lot</u>		[d] <u>adore</u>	[ʒ] <u>measure</u>	<u>Syllabic</u>
[ɔ] <u>thought</u>		[g] <u>ago</u>	[h] <u>hit</u>	<u>consonants</u>
[ow] <u>goat</u>		[ɹ] <u>butter</u>	[tʃ] <u>chop</u>	[l] <u>bottle</u>
[ʊ] <u>foot</u>		[ʔ] <u>button</u>	[dʒ] <u>bridge</u>	[n] <u>button</u>
[u] <u>goose</u>				[ɹ] <u>better</u>