

the international phonetic alphabet (2005)

consonants  
(pulmonic)

Consonants (pulmonic)	LABIAL		CORONAL				DORSAL			LARYNGEAL		
	Bilabial	Labio-dental	Dental	Alveolar	Palato-alveolar	Retroflex	Alveolo-palatal	Palatal	Velar	Uvular	Pharyngeal	Glottal
Nasal	m	ɱ	n			ɳ	ɲ		ŋ	ɴ		
Plosive	p b		t d			ʈ ɖ	c ɟ		k ɡ	q ɢ	ʔ	ʔ
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ɕ ɟ̥	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Approximant		ʋ	ɹ			ɻ	j		ɰ			
Tap, flap		ɹ̥	ɾ			ɽ						
Trill	ʙ		r							ʀ	ʁ	
Lateral fricative			ɬ ɮ			ɬ̪ ɮ̪	ɬ̺ ɮ̺		ɮ̺			
Lateral approximant			l			ɭ	ʎ		ʟ			
Lateral flap			ɭ			ɭ̥						

Where symbols appear in pairs, the one to the right represents a modally voiced consonant, except for murmured *h*.

Shaded areas denote articulations judged to be impossible. Light grey letters are unofficial extensions of the IPA.

consonants (non-pulmonic)

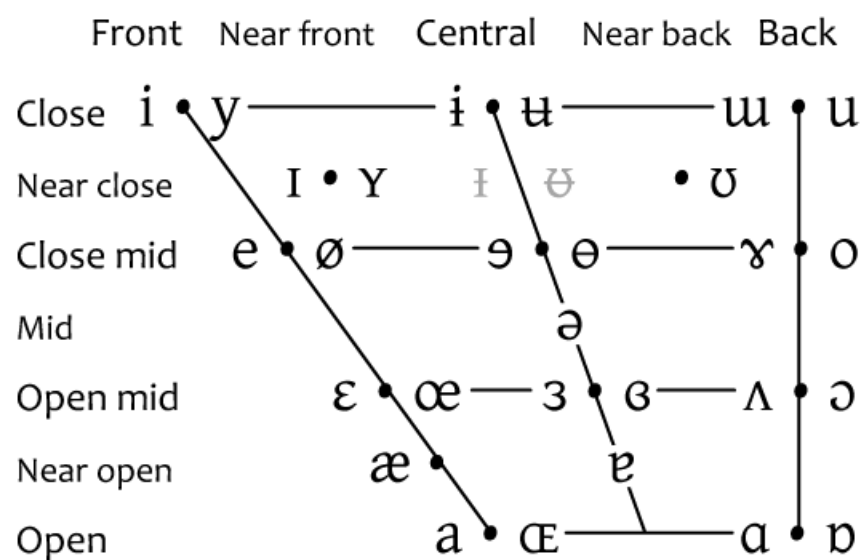
clicks	implosives	ejectives
⊙ Bilabial	ɓ Bilabial	' examples:
Laminal alveolar fricated ("dental")	ɗ Dental or alveolar	p' Bilabial
! Apical (post)alveolar abrupt ("retroflex")	ɖ Retroflex	t' Dental or alveolar
‡ Laminal postalveolar abrupt ("palatal")	f Palatal	k' Velar
Lateral alveolar fricated ("lateral")	ɠ Velar	tʃ' Lateral affricate
Ɂ Velar (back released)	ʛ Uvular	s' Alveolar fricative

consonants (co-articulated)

<b>M</b>	Voiceless labialized velar approximant	//morphophonemic//
<b>W</b>	Voiced labialized velar approximant	/phonemic/
<b>ɥ</b>	Voiced labialized palatal approximant	[phonetic]
<b>ɸ</b>	Simultaneous x and ʃ (existence disputed)	<orthographic>
<b>tʃ</b>	Affricates and double articulations	
<b>ɡb</b>	may be joined by a tie bar	

## brackets

vowels



Vowels at right & left of bullets are rounded & unrounded.

suprasegmentals

'	Primary stress	"	Extra stress
ˌ	Secondary stress		[ˌfəʊnəˈtɪʃən]
eː	Long	e˞	Half-long
e	Short	ě	Extra-short
.	Syllable break	t̪ə	Linking (no break)
<b>intonation</b>			
	Minor (foot) break		
	Major (intonation) break		
↗	Global rise	↘	Global fall

(tone)

<b>level tones</b>	<b>contour tones (e.g.)</b>
é ǀ Top	ě ǀ Rising
é ǁ High	ê ǁ Falling
ē ǂ Mid	ẽ ǂ High rising
è ǃ Low	ẽ ǃ Low rising
è Ǆ Bottom	ē Ǆ High falling
<b>tone terracing</b>	è Ǆ Low falling
↑ Upstep	ẽ ǂ Peaking
↓ Downstep	ẽ ǃ Dipping

diacritics

Diacritics may be moved to fit a letter, as *ḥ* or *ḥ̣*. Other letters may be used as diacritics of phonetic detail:

*t*<sup>s</sup> (fricative release), *b*<sup>h</sup> (breathy voice), *m*<sup>ʔ</sup> (glottalized), *ə* (epenthetic schwa), *o*<sup>w</sup> (off-glide), *u*<sup>b</sup> (compressed).

SYLLABICITY & RELEASES		PHONATION		PRIMARY ARTICULATION		SECONDARY ARTICULATION			
$\underset{\cdot}{n} \underset{\cdot}{ɹ}$	Syllabic	$\underset{\circ}{n} \underset{\circ}{d}$	Voiceless <i>or</i> Slack voice	$\underset{\_}{t} \underset{\_}{b}$	Dental	$t^w d^w$	Labialized	$\underset{\cdot}{ɔ} \underset{\cdot}{x}$	More rounded
$\underset{\sim}{e} \underset{\sim}{ʊ}$	Non-syllabic	$\underset{\sim}{s} \underset{\sim}{d}$	Modal voice <i>or</i> Stiff voice	$\underset{\_}{t} \underset{\_}{d}$	Apical	$t^j d^j$	Palatalized	$\underset{\cdot}{ɔ} \underset{\cdot}{x}^w$	Less rounded
$t^h \text{ } ^h t$	(Pre)aspirated	$\underset{\cdot}{n} \underset{\cdot}{a}$	Breathy voice	$\underset{\circ}{t} \underset{\circ}{d}$	Laminal	$t^{\text{ʁ}} d^{\text{ʁ}}$	Velarized	$\tilde{e} \tilde{z}$	Nasalized
$d^n$	Nasal release	$\underset{\cdot}{n} \underset{\cdot}{a}$	Creaky voice	$\underset{\_}{u} \underset{\_}{t}$	Advanced	$t^{\text{ʁ}} d^{\text{ʁ}}$	Pharyngealized	$\text{ʁ} \text{ } 3^{\text{ʁ}}$	Rhoticity
$d^l$	Lateral release	$\underset{\sim}{n} \underset{\sim}{a}$	Strident	$\underset{\_}{i} \underset{\_}{t}$	Retracted	$\underset{\cdot}{t} \underset{\cdot}{z}$	Velarized or pharyngealized	$\underset{\cdot}{e} \underset{\cdot}{o}$	Advanced tongue root
$t^{\text{ʁ}}$	No audible release	$\underset{\sim}{n} \underset{\sim}{d}$	Linguolabial	$\underset{\cdot}{a} \underset{\cdot}{j}$	Centralized	$\underset{\cdot}{u}$	Mid- centralized	$\underset{\cdot}{e} \underset{\cdot}{o}$	Retracted tongue root
$\underset{\cdot}{e} \underset{\cdot}{\beta}$	Lowered ( $\beta$ is a bilabial approximant)			$\underset{\cdot}{e} \underset{\cdot}{ɹ}$	Raised ( $\underset{\cdot}{ɹ}$ is a voiced alveolar non-sibilant fricative, $\underset{\cdot}{r}$ a fricative trill)				