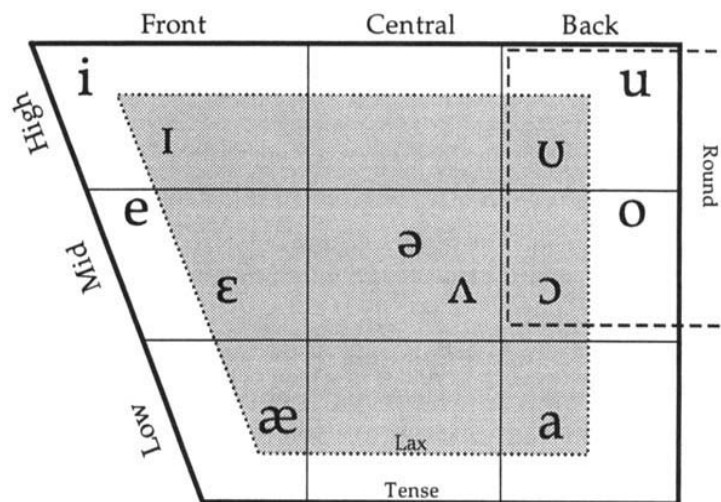


THE VOWELS AND CONSONANTS OF ENGLISH

● DIAGRAM OF CARDINAL VOWELS

- The diagram represents the oral cavity, the space within which the tongue moves
- introduced by Daniel Jones in 1917



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ILLUSTRATIONS:

1	↓	↓	↓	↓	↓	
i	heed	he	bead	heat	keyed	lower-case <i>i</i>
ɪ	hid		bid	hit	kid	small capital <i>I</i>
eɪ	hayed	hay	bayed	hate	Cade	lower-case <i>e</i>
ε	head		bed			epsilon
æ	had		bad	hat	cad	ash
ɑ	hard		bard	heart	card	script <i>a</i>
ɑ	hod		bod	hot	cod	(2) turned script <i>a</i>
ɔ	hawed	haw	bawd		cawed	open <i>o</i>
ʊ	hood				could	upsilon
oʊ	hoed	hoe	bode		code	lower-case <i>o</i>
u	who 'd	who	bood	hoot	cood	lower-case <i>u</i>
ʌ	Hudd		bud	hut	cud	turned <i>v</i>
ɜ	herd	her	bird	hurt	curd	reversed epsilon
aɪ	hide	high	bide	height		lower case <i>a</i> (+ <i>ɪ</i>)
aʊ		how	bowed		cowed	(as noted above)
ɔɪ		(a)hoy	Boyd			(as noted above)
ɪr		here	beard			(as noted above)
ɛr		hair	bared		cared	(as noted above)
aɪr	hired	hire				(as noted above)
ju	hued	hue	Bude		cued	(as noted above)

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● CONSONANTS:

		Place of Articulation													
		Bilabial		Labiodental		Interdental		Alveolar		Palatal		Velar		Glottal	
Manner of Articulation	Stop	p	b					t	d			k	g	ʔ	
	Fricative			f	v	θ	ð	s	z	ʃ	ʒ			h	
	Affricate									č	ǰ				
	Nasal		m						n				ŋ		
	Lateral Liquid								l						
	Retroflex Liquid								r						
	Glide	ʋ	w									y			

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ILLUSTRATIONS:

	↓	↓	↓	
p	pie	pea		lower-case <i>p</i>
t	tie	tea		lower-case <i>t</i>
k	kye	key		lower-case <i>k</i>
b	by	bee		lower-case <i>b</i>
d	dye	D		lower-case <i>d</i>
g	guy			lower-case <i>g</i>
m	my	me	ram	lower-case <i>m</i>
n	nigh	knee	ran	lower-case <i>n</i>
ŋ			rang	eng (or angma)
f	fie	fee		lower-case <i>f</i>
v	vie	V		lower-case <i>v</i>
θ	thigh			theta
ð	thy	thee		eth
s	sigh	sea	listen	lower-case <i>s</i>
z		Z	mizzen	lower-case <i>z</i>
ʃ (š)	shy	she	mission	esh (or long <i>s</i>)
ʒ (ž)			vision	long <i>z</i> (or yogh)
l	lie	lee		lower-case <i>l</i>
w	why	we		lower-case <i>w</i>
r (r)	rye			lower-case <i>r</i>
j (y)		ye		lower-case <i>j</i>
h	high	he		lower-case <i>h</i> v
Note also the following:				
tʃ (tš)	chi(me)	chea(p)		
dʒ (dž)	ji(ve)	G		

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ONLINE RESOURCES:

- Material by Mathias Jilka: <http://ifla.uni-stuttgart.de/~jilka/teaching/basic1/basic1.html>
- A course in phonetics by Peter Ladefoged (with acoustic examples):
<http://hctv.humnet.ucla.edu/departments/linguistics/VowelsandConsonants/course/contents.html>