# English sounds

John Goldsmith

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John Goldsmith ()

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イロン イロン イヨン イヨン

Short vowels			Long vowels		
pit	i	[I]	by	ī	[aj]
pet	ĕ	[٤]	Pete	ē	[ij]
pat	ă	[æ]	pate	ā	[ej]

★ロト ★課 と ★注 と ★注 と 一注

Short	vowe	ls	Long vowels			
put putt bought pot	ŏо ŭ ô ŏ	[ʊ] [ʌ] [ɔ] [a]	boot bound boat	ōo ou ō	[uw] [æw] [ow]	

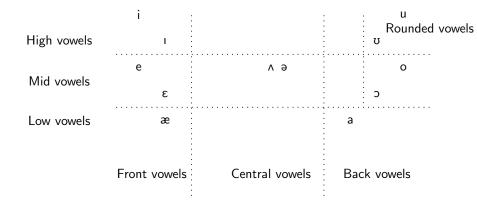
★ロト ★課 と ★注 と ★注 と 一注

	English vowels					
American	h—d	h—	b—d	h—t	k—d	
ij	heed	he	bead	heat	keyed	
I	hid		bid	hit	kid	
ej	hayed	hay	bayed	hate	Cade	
З	head		bed			
æ	had		bad	hat	cad	
а	hod	ha!	bod	hot	cod	
С	hawed	haw	bawd	haughty	cawed	
υ	hood				could	
ow	hoed	hoe	abode	Hoat	code	
uw	who'd	who	booed	hoot	cooed	
۸	Hudd		bud	hut	cud	
3r	herd	her	bird	hurt	curd	
aj	hide	high	bide	height		
æw		how	bowed		cowed	
сj		ahoy	Boyd	Hoyt		
u**		here	beard			
eរ**		hair	bared		cared	
ju	hued	hue			cued	
From Ladefored, but modified a bit						

From Ladefoged, but modified a bit

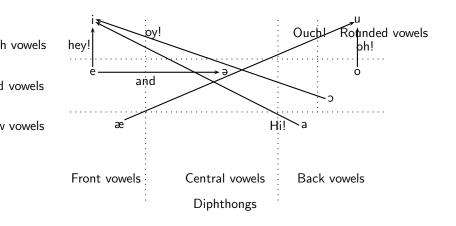
・ロト ・回ト ・ヨト ・ヨト

# English vowel space

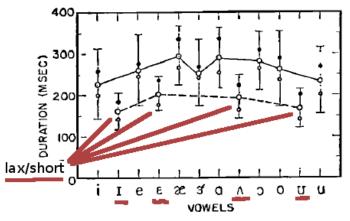


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### Diphthongs: motion in vowel space

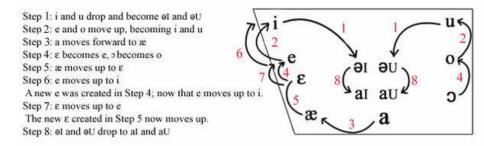


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Arthur House (1960) On vowel duration in English (*JASA*). The large unfilled circles are means for each vowel in 14 contexts spoken by 3 subjectgs. The upper terminus of each vertical bar shows the average vowel duration in voiced contexts; the lower terminus is for voiceless contexts. The filled circle on each vertical bar shows the average vowel duration in frcative environments; the small unfilled circle is for stop environments. Lower line is lax vowels, the solid is the others.

# The Great Vowel Shift (GVS)



From facweb.furman.edu/ mmenzer/gvs/what.htm

1300	1400		1500	1600	1700	1800	present
driven	i:	ıi	ei	εi	۸i	ai	
house	u:	ΰW	ow	зw	ΛW	aw	
feet	e:		i:				
fool	o:		u:				
beat	ε:				e:	i:	
foal	<b>с</b> :				o:		əu
take	a:		æ:	ε:	e:	ei	
sail	ai		æi	εί	e:	ei	
law	aw		bw	ם:		<b>э</b> :	

This nice graphic based on material from Raymond Hickey, at www-uni-due.de, on Studying The History of English.

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### Northern Cities Vowel Shift

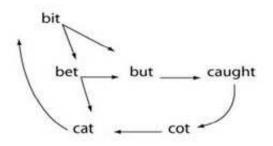


The region of the NCVS

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### Northern Cities Vowel Shift



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