Vowels, vowels, vowels (and glides)

Rogers Chapter 9

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The next chart is the one you should know for the final

- A few differences from official IPA
- More consistent with our English vowel charts
 - Similar with Rogers' charts for English in chapter p 32-34
 - Easier to learn

Master vowel chart LEARN THIS ONE

	Front	Front R	Cent	Cent R	Back	Back R
	Unr		Unr		Unr	
higher	i	у	i	u	w	u
high						
lower	I					υ
high						
higher	Α	α	_		20	0
mid	e	Ø	3		x	О
lower	ε	œ	Λ			3
mid						
higher						
low						D
10						
lower	æ				а	
low						
'super'			a			
low						

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Official IPA chart : Graphic removed Rogers p 336 Vowel diagram

Higher high

Higher mid

Lower mid

Lower low

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Differences: IPA puts these at the pointy end of arrow

(Rogers changes his mind on some Vs for English vs IPA)

_	C			,	,	
	Front	Front R	Cent	Cent R	Back	Back R
	Unr		Unr		Unr	
higher high	i	У	i	u	ш	u
lower high	I					υ
higher mid	e	Ø	3		r	О
lower mid	ε	œ	Λ		→	э
higher low	1					D
lower low	æ				а	
'super'			a			

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Variation in text (and notes)

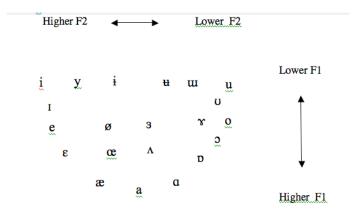
- Rogers puts the English values closer to the previous charts
- I have revised one vowel from previous handout.
 - I think [Λ] should be used for lower mid central vowel, not higher low central vowel.
 - Please check my consistency in marking quizzes

No new properties: Just new combinations

- Height, advancement and rounding
- New combinations
 - Front rounded vowels
 - Back unrounded vowels at mid and high heights
 - Some new central vowels

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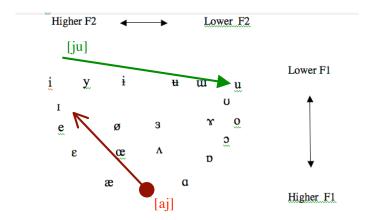
Relation of vowel chart to relative formant frequencies



Diphthongs [aj, ju]

Manitoba Vowels

- Graphic removed see:
 - http://www.umanitoba.ca/faculties/arts/ linguistics/russell/138/sec4/form2.htm



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Of course, there are diphthongs

- 'Falling' diphthongs (glidy-bit after the vowel)
 - Movements of vowels from onset target toward another part of the space
 - [aj] from [a] toward [i] (or [j]);
- 'Rising' diphthongs (glidy-bit before the vowel)
 - Movements from some part of vowel space toward a target.
 - [ju] from [j] to [u]. (These not always considered diphthongs)
- Rising/ falling has to do with increase or decrease in 'sonority' (more open vowels presumably more sonorous)

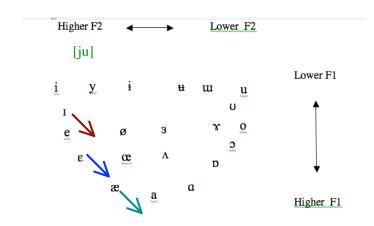
Lax vowel in English often show 'rising' diphthong patterns

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- The vowels [I ε æ] in several North American English dialects show movement toward [a [I ε æ] at the end
 - How transcribe? [1^a ε^a æ^a]
 - Not recognized as 'diphthongs' in traditional phonetics
- New term coined to cover it: 'VISC"
 - Vowel-inherent spectral change
- All diphthongs show VISC, but some other vowels may too.

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'VISC' [1 ε æ]



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F1 x F2 versus traditional chart

