

Week 7 quiz

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A. Define the symbol—use the **correct order**: *height advancement rounding*

1. [ø] : breathy-voiced upper mid front rounded vowel
 2. [ũ] : nasalized high central rounded vowel

1.1 DefineSymbol
2

B. Give the symbol that fits the definition

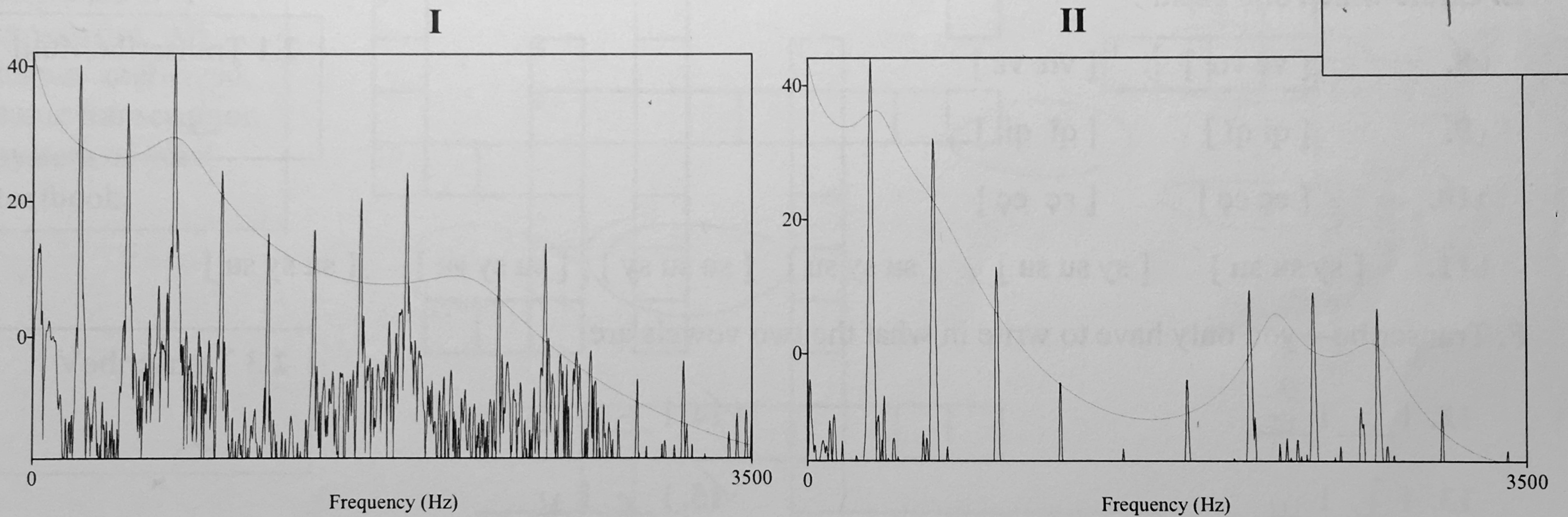
3. lower-mid back unrounded vowel : [ʌ]
 4. low back unrounded vowel: [ɑ]

1.2 GiveSymbol
2

C. Acoustics again

5. What kinds of plots are these: sound spectrum

4.3 IdentifyDisplay
1

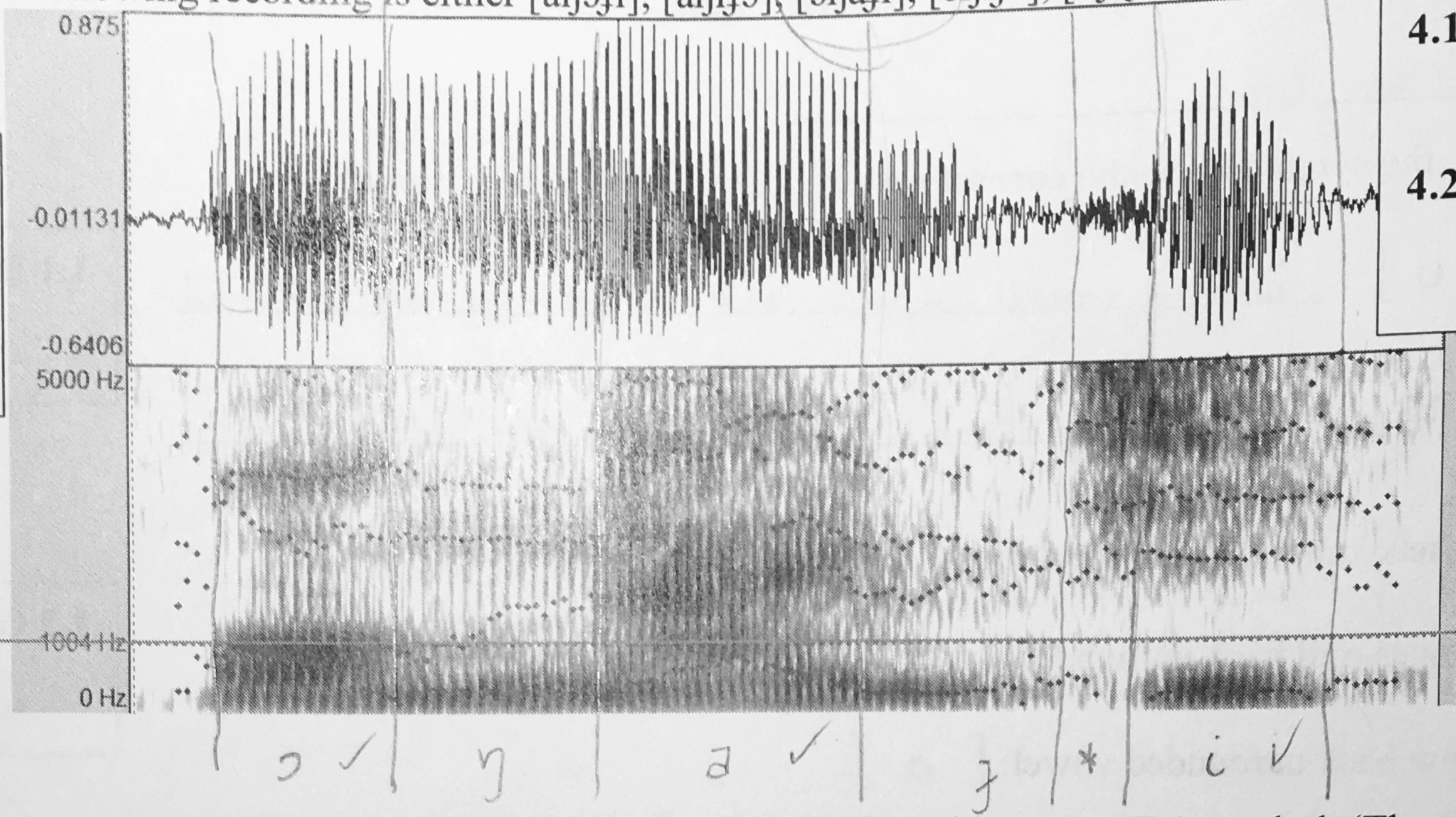


6. Which of the two vowels above is **fronter**, I or II: II. Briefly **explain** how you knew.

4.5 HarmonicsFormants
1

The first peak corresponds with the first formant and the second corresponds with the second formant. II shows a higher second formant, corresponding to a fronter vowel, right!

D. The following recording is either [aŋɔʝi], [aŋiɔ], [ɔŋaʝi], [ɔŋiɔ], [iŋaʝɔ], or [iŋɔʝa].



Horizontal line at 1000 Hz is just to help you compare formants

4.1 SegmentSpectro
4.2 ReadSpectro

7. Draw vertical lines to segment it, and label each slice with correct IPA symbol. (The release of the voiced stop is quite fricated, by the way—this is common with palatal stops.)

E. Circle which one I said

8. [vɛ vœ] [vœ vɛ]

9. [qi qĩ] [qĩ qi]

10. [eç εç] [εç eç]

11. [sy sʌ su] [sy su sʌ] [sʌ sy su] [sʌ su sy] [su sy sʌ] [su sy sʌ]

2.1 TranscribeMulti
3

F. Transcribe—you only have to write in what the two vowels are

12. 1 a 1 œ

14. 1 o 1 ɔ

13. 1 e 1 u

15. 1 e 1 y

2.3 TranscribeV
2

G. A couple of weeks ago in section, you made a formant chart for some of your own English vowels. If you made the same chart for a small child's English vowels, how would it be different and why?

A child has a much shorter vocal tract than a grown person so the formants would likely be closer together and have a smaller range of frequencies, so that the plots would be closer together for all of the vowels.

Remember source vs. filter: fundamental frequency (rate of vocal fold vibration) is separate from formants (resonances). You can think about how size affected formants when we derived the formants of [ə] (more room on the back if you need it)

5 Apply

a baby ..

