LAL 6120

Assignment 1—VOT and Vowels

1. Record yourself saying the words “pat”, “tat”, and “cat” at least 5 times in two different carrier sentences:

“\_\_\_\_ is the word”

“The word is \_\_\_\_”

Analyze the VOT of these target words in Praat and put your data in a table and read it into R as a csv file. Examine the means for each place of articulation category.

1. Give the means and standard deviations of each POA (according to sentence position). (Look up how to display summary stats by group in the tidyverse using the group\_by() function)
2. Can you make any conclusions regarding VOT and place of articulation?
3. Can you make any conclusions regarding VOT and sentence position (initial or final)?
4. Can you plot the results of the VOT measurements as a boxplot in R?
5. Record yourself saying hVd words in the carrier sentence “Say the word \_\_\_\_ again”, with V = {i, u, o, a, æ, schwa}. Produce at least 5 tokens of each vowel and measure their F1 and F2 taken at the midpoint. Produce a vowel quadrilateral like the one we did in class.