| Lab Assignment #01 | Using Praat / Consonants of English |
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Due M Aug 22 at 11:15am on Sakai (Tests & Quizzes)
20 points total

*Lab session:* Class on F Aug 19 is a lab session for this assignment. You will have an opportunity to collaborate with classmates, get help with Praat, or ask questions about the assignment.

## Purpose

This assignment guides you in installing and using the Praat speech-analysis software, and provides an opportunity to practice with the consonant sounds of English and their IPA symbols.

## Task

A.  Prepare to complete the lab assignment

Links to all of the materials and resources listed here are provided on the "Lab assignments" page on the course web site.

- **Read** Praat handouts #1–4, linked from the "Lab assignments" page

- **Download** the Praat software from https://www.praat.org and **install** Praat on your computer, as explained in Praat handout #1 and on the praat.org download pages
  - There are many options, including Windows, Mac, Linux, and Chromebook (using Unix)
  - Please let me know ASAP if none of the available options work for you

- **Download** the following files from the "Lab assignments" page and **save them on your computer** so that you can open them with Praat:
  [lab01_words.wav]
  [lab01_words.TextGrid]

- Open Praat, load the [lab01_words.wav] and [lab01_words.TextGrid] files into the Objects window, and then highlight both files and click on the View & Edit button in the right-side menu to **open a TextGrid window** (see Praat handouts #2–4 for help)

- In the TextGrid window, you should see a sound file with a TextGrid that labels a series of words from 1 to 11 — **if you can see this, you are ready to start the lab assignment**

B.  Answer questions (1)–(3) directly in Sakai

- Go to Tests & Quizzes, "Lab 01 | Using Praat / Consonants of English"

- Reminder: Use Praat handouts #2–4 to help you navigate in Praat, open sound files and TextGrids, play sounds, and take a screenshot

(1)     Which **number** on the TextGrid corresponds to each of the following English words? *Type the number in the response box on Sakai.*                                                    *(5 points)*

| | | | |
|---|---|---|---|
| bagel | furnace | match | squish |
| diving | houses | pocket | youth |
| either | lodge | rouge | |

(2)	For each of the following consonants, give the number of **one** word that contains the consonant. (There may be more than one correct answer, but just give one.)  *Type the number in the response box on Sakai.*			*(10 points)*

| [p] | [f] | [ʃ] | [n] |
| [t] | [v] | [ʒ] | [ŋ] |
| [k] | [θ] | [h] | [l] |
| [b] | [ð] | [ʧ] | [ɹ] |
| [d] | [s] | [ʤ] | [w] |
| [g] | [z] | [m] | [j] |

(3)	Submit a file containing a **screenshot** of part of this TextGrid, as follows.	*(5 points)*

(a)	Find a word that contains the consonant [ʃ].

(b)	Use the TextGrid interval and the `sel` button to zoom in so that this whole word, but only this word, is showing in the TextGrid window. (See Praat handouts #3 and #4 for help.)

(c)	Click and drag your mouse to highlight the area of the sound file that actually corresponds to the [ʃ] sound.  You can figure this out by  selecting and listening to pieces of the word until you figure out where the [ʃ] portion is.  (Don't click the `sel` button this time; keep the whole word showing in the TextGrid window.)

(d)	With the [ʃ] highlighted, take a screenshot of your Praat TextGrid window, paste it into your word processor or graphics program, and save it as a file **in .pdf format**. Then upload your file where indicated on Sakai.  (Please remember to include your name in your document.)

## Criteria for success

This lab assignment is worth a total of 20 points, as distributed above.  Points will be awarded for accuracy, and partial credit will be given where appropriate.