

# LABORATORY - PRAAT

**Main activities & functions**

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## 1) Download the Praat software

<http://www.fon.hum.uva.nl/praat/>

## 2) Download and install the Vocal Toolkit

<http://www.praatvocaltoolkit.com/download-installation.html>

## 3) Choose a film and find a dialog on YOUTUBE (2 PERSONS)

## 4) Extract its mp3 with <https://www.onlinevideoconverter.com/>

- length: between 3 and 3,5 minutes (in case, cut the file to reach this length)
- Italian or English language
- dialogue must be emotionally rich
- no fake laughter as in american series, no background music

▶ OPEN THE AUDIO FILE (mp3)

Open – read from file

▶ ASSOCIATE 3 LEVEL of TAG

Select the audio file into the list on the left window

Select the command: annotate – to textgrid

In all tiers name write: TXT Emotions Name

In which of this... : empty space

SAVE all the file in the left window in a dedicated folder

Txt as txt

Sound as wav

TASK 1

▶ Select the audio file and its own generated txt together from the left menu

▶ Insert the text of 15 sentences of the dialog in the first line (TXT TAG) choosing the position of tiers (red spots) at the beginning and the end of the sentence

▶ If you don't understand or voices are overlapping put " ? "

To insert the red spots, click before under the sound wave and the point you want to fix, after, click into the tag-line area (TXT) – to fix the point, click then on the red spot

- ▶ Insert into the second line the emotions corresponding to the sentence you wrote before.
- ▶ If you don't know which emotion put : “?”
- ▶ If you think there is not emotion : “neutral”
- ▶ Updating the old txt

## TASK 2

- ▶ WRITE IN THE THIRD TAG LIKE THE NAME OF EACH SENTENCE WITH THIS CODE:  
***SPEAKER\_NUMBER+R***

**EXAMPLE FRASE 1 PARLATORE A:  
A\_1R**

- ▶ SAVE ALL THE FILE AS WAV

TASK 3

### ▶ **EXTRACT SENTENCES AUDIO FILES FROM TAG-LINE N° 3**

SELECT SOUND FILE AND TXT FILE TOGETHER ON THE LEFT WINDOW, THEN:  
EXTRACT – EXTRACT NON EMPTY INTERVAL – TIER NUMBER 3

ON THE LEFT WINDOW NOW YOU MUST HAVE ALL YOUR SENTENCES AUDIO FILES, NAMED AS I THE PREVIOUS SLIDE

### ▶ **SELEZIONARLE ED ESTRARRE IL PITCH ENVELOPE**

SELECT SOUND FILES ON THE LEFT WINDOW, THEN:  
ANALYZE PERIODICITY – TO PITCH

SELECT THE PITCH OBJECT ON THE LEFT AND THEN: CONVERT - INTERPOLATE

▶ TO SEE THE PITCH : SELECT THE OBJECT AND THEN VIEW & EDIT

## TASK 4

COPY THE SCRIPT FROM THE NEXT SLIDE INTO A NEW PRAAT SCRIPT:

PRAAT – NEW PRAAT SCRIPT :

COPY THE TEXT INTO THE WHITE WINDOW

SAVE THE SCRIPT INTO YOUR FOLDER

TASK 5 – 30 MINUTI

A decorative graphic consisting of several parallel white lines of varying lengths, slanted diagonally from the bottom right towards the top right, located in the lower right quadrant of the slide.



```
dirname$ = chooseDirectory$: ""
if dirname$ <> ""
  filenames = Create Strings as file list: "Filelist", dirname$ + "/*.wav"
  numfiles = Get number of strings
  for ifile to numfiles
    selectObject: filenames
    filename$ = Get string: ifile
    ok = index_regex(filename$, "[A-0]_\d+R")
    if ok != 0
      Read from file: dirname$ + "/" + filename$
      To Pitch... 0.001 75.0 400.0
      Smooth... 3
      To Sound (hum)
      humfilename$ = replace$(filename$, "R", "H", 1)
      Save as WAV file: dirname$ + "/" + humfilename$
    endif
  endfor
endif

#interpolate
```

## ▶ TO RUN THE SCRIPT

Select all the sound files obtained with the 3<sup>rd</sup> tag line and into the script window select RUN

Select your folder

If there are no copying errors, new files will appear in the list on the left

This audio files are hum sounds obtained by the pitch extraction

# SOME USEFUL SCRIPT

[HTTP://PHONETICS.LINGUISTICS.UCLA.EDU/  
FACILITIES/ACOUSTIC/PRAAT.HTML](http://phonetics.linguistics.ucla.edu/facilities/acoustic/praat.html)

