

Running extractFormants with 560 data files:

(example files: PH10-2-5-A-TonyMarianne.wav
PH10-2-5-A-TonyMarianne.TextGrid etc.)

1. Put the sound file PH10-2-5-A-TonyMarianne.wav and the TextGrid file PH10-2-5-A-TonyMarianne.TextGrid into the extract formants directory.
2. Run *extractFormants*:

```
python bin/extractFormants.py --config=config.txt PH10-2-5-A-  
TonyMarianne.wav PH10-2-5-A-TonyMarianne.TextGrid PH10-2-5-A-Tony-  
r.plt
```

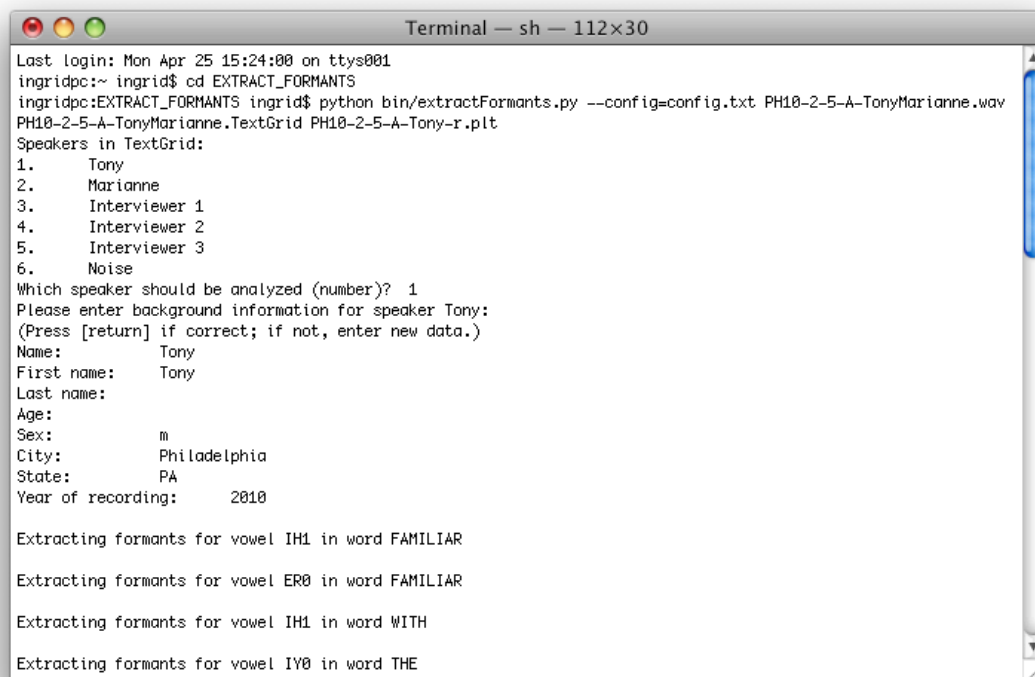
The first argument has to be the sound file, the second argument is the TextGrid, and the third the name of the output file (in the example above, in Plotnik (“.plt”) format).

The **config.txt** file contains the options for extract formants, e.g. which method of measurement to use, and what the format of the output file should be. See “README.txt” for details on all available options.

The following configuration of options is suggested:



3. After starting *extractFormants*, you will be prompted by the program to indicate **which speaker to analyze**. A list of all the tiers in the TextGrid is displayed. Enter the number of the speaker that you wish to analyze, and hit [RETURN].



```
Terminal — sh — 112x30
Last login: Mon Apr 25 15:24:00 on ttys001
ingridpc:~ ingrid$ cd EXTRACT_FORMANTS
ingridpc:EXTRACT_FORMANTS ingrid$ python bin/extractFormants.py --config=config.txt PH10-2-5-A-TonyMarianne.wav
PH10-2-5-A-TonyMarianne.TextGrid PH10-2-5-A-Tony-r.plt
Speakers in TextGrid:
1. Tony
2. Marianne
3. Interviewer 1
4. Interviewer 2
5. Interviewer 3
6. Noise
Which speaker should be analyzed (number)? 1
Please enter background information for speaker Tony:
(Press [return] if correct; if not, enter new data.)
Name: Tony
First name: Tony
Last name:
Age:
Sex: m
City: Philadelphia
State: PA
Year of recording: 2010

Extracting formants for vowel IH1 in word FAMILIAR

Extracting formants for vowel ER0 in word FAMILIAR

Extracting formants for vowel IH1 in word WITH

Extracting formants for vowel IY0 in word THE
```

4. You will also be prompted to supply **background information** about the speaker. If you are using the “mahalanobis” method of formant measurements, you *must* specify the speaker’s sex (“m” for male; “f” for female.)
5. After this, *extractFormants* begin extracting formants for the vowel in each word (see screen shot above).