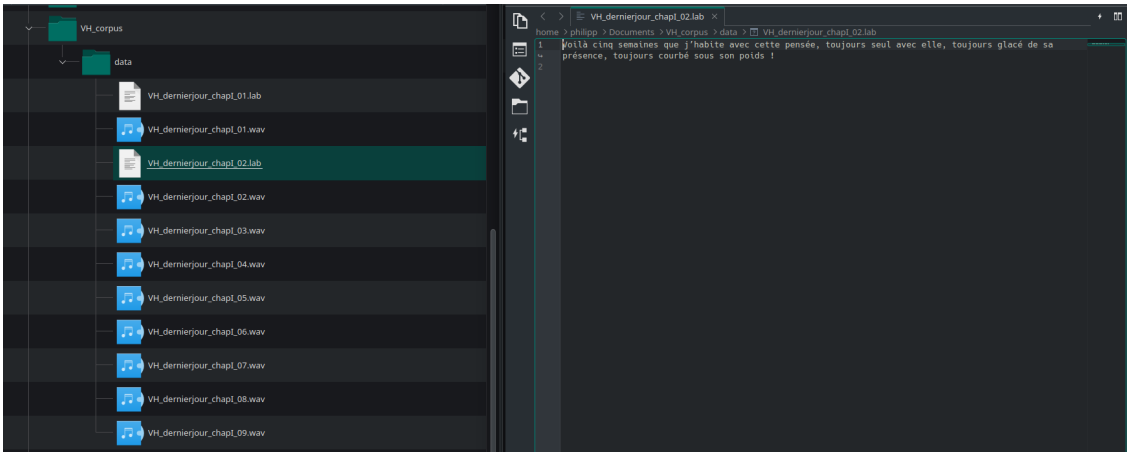
Use Case 2: alignment of a French audiobook

In this tutorial we will align utterances from an audiobook. As an example, we will align some sentences from the LibriVox audiobook of "Le dernier jour d'un condamné" of Victor Hugo. The audiobook can be found here: https://librivox.org/le-dernier-jour-by-victor-hugo/ . As the MFA works with wav files, the audiobook has to be converted into wav. In the file UseCase2_audio_data.zip you will find the first sentences of the first chapter that are already converted into wav. The corresponding text can be found here: https://fr.wikisource.org/wiki/Le_Dernier_Jour_d%E2%80%99un_Condamn%C3%A9/01 .

1) Create a folder that will contain the corpus data and copy the audio files.

2) Create transcriptions

In this step, we create transcriptions for each of the sentenes. Use a text editor and copy the respective sentence into the file. Save the file with the corresponding file name of the audio and add the ending .lab instead of .txt (note: do not include .wav!)



If you want to skip this step, you can copy the .lab files from the UseCase2_transcriptions.zip

3) Open your terminal and activate your anaconda environment

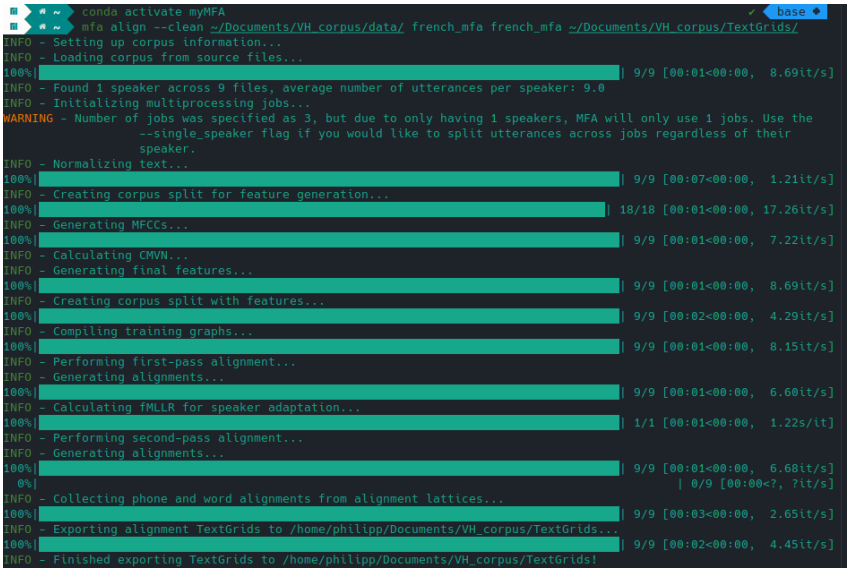
```
[ ]: conda activate myMFA
```

4) Generate alignments

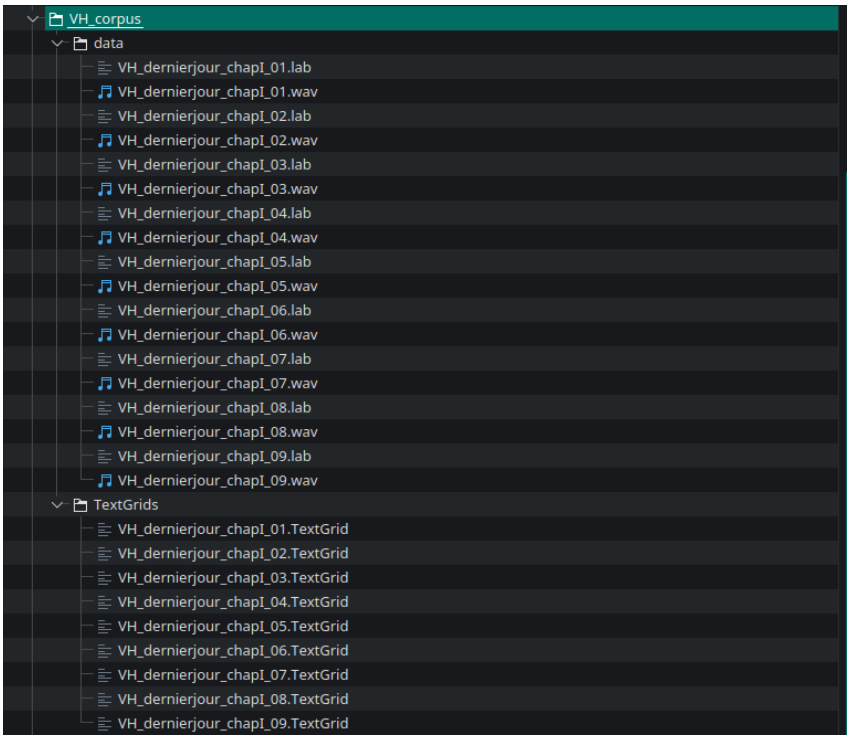
Since we already downloaded the acoustic model for french and a dictionary, we can align the data directly. In this example, the corpus data is in the directory ~/Documents/VH_corpus/data/ and the alignments will be stored in ~/Documents/VH_corpus/TextGrids/

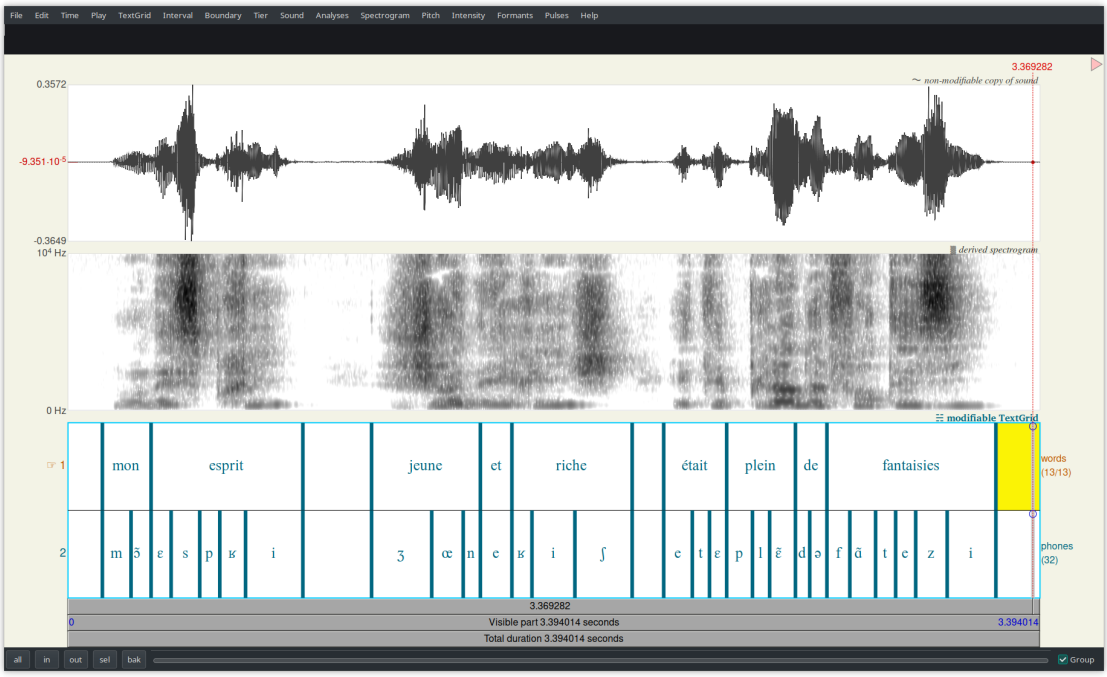
```
[ ]: mfa align --clean ~/Documents/VH_corpus/data/ french_mfa french_mfa ~/Documents/
     ↪VH_corpus/TextGrids/
```

The whole alignment is depicted in this screenshot:



The TextGrids can be found in the TextGrid folder of the VH_corpus directory:


VH_corpus
data
VH_dernierjour_chapI_01.lab
VH_dernierjour_chapI_01.wav
VH_dernierjour_chapI_02.lab
VH_dernierjour_chapI_02.wav
VH_dernierjour_chapI_03.lab
VH_dernierjour_chapI_03.wav
VH_dernierjour_chapI_04.lab
VH_dernierjour_chapI_04.wav
VH_dernierjour_chapI_05.lab
VH_dernierjour_chapI_05.wav
VH_dernierjour_chapI_06.lab
VH_dernierjour_chapI_06.wav
VH_dernierjour_chapI_07.lab
VH_dernierjour_chapI_07.wav
VH_dernierjour_chapI_08.lab
VH_dernierjour_chapI_08.wav
VH_dernierjour_chapI_09.lab
VH_dernierjour_chapI_09.wav
TextGrids
VH_dernierjour_chapI_01.TextGrid
VH_dernierjour_chapI_02.TextGrid
VH_dernierjour_chapI_03.TextGrid
VH_dernierjour_chapI_04.TextGrid
VH_dernierjour_chapI_05.TextGrid
VH_dernierjour_chapI_06.TextGrid
VH_dernierjour_chapI_07.TextGrid
VH_dernierjour_chapI_08.TextGrid
VH_dernierjour_chapI_09.TextGrid


File Edit Time Play TextGrid Interval Boundary Tier Sound Analyses Spectrogram Pitch Intensity Formants Pulses Help
3.369282
non-modifiable copy of sound
0.3572
-9.351·10⁻⁵
-0.3649
derived spectrogram
10⁴ Hz
0 Hz
modifiable TextGrid
mon esprit jeune et riche était plein de fantaisies
words (13/13)
m ɔ̃ e s p ʁ i ʒ œ n e ʁ i ʃ e t ɛ p l ɛ̃ d ə f ɑ̃ t e z i
phones (32)
3.369282
0
Visible part 3.394014 seconds
3.394014
Total duration 3.394014 seconds
all in out sel bak
Group