

## Introduction

This is a short documentation for GenerateWav.py, whose purpose is to create empty .wav files from a .xlsx file containing a digitized Basaa-French dictionary for alignment. I've written it as a Research Assistant under Dr Fatima Hamlaoui at the University of Toronto from July to August 2018.

The code can be found at: <https://github.com/Dragonic/wav-files-from-basaa-french-dict>

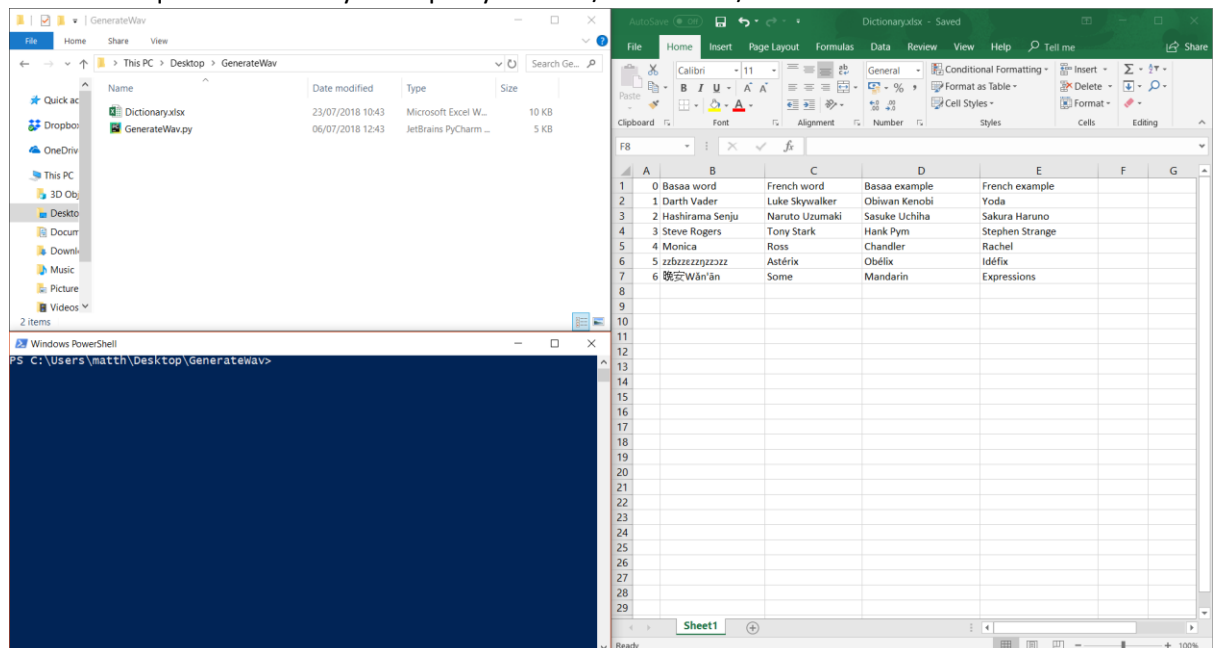
Should you need any clarification, you can contact me at: [matthieuchange@gmail.com](mailto:matthieuchange@gmail.com)

## Requirements

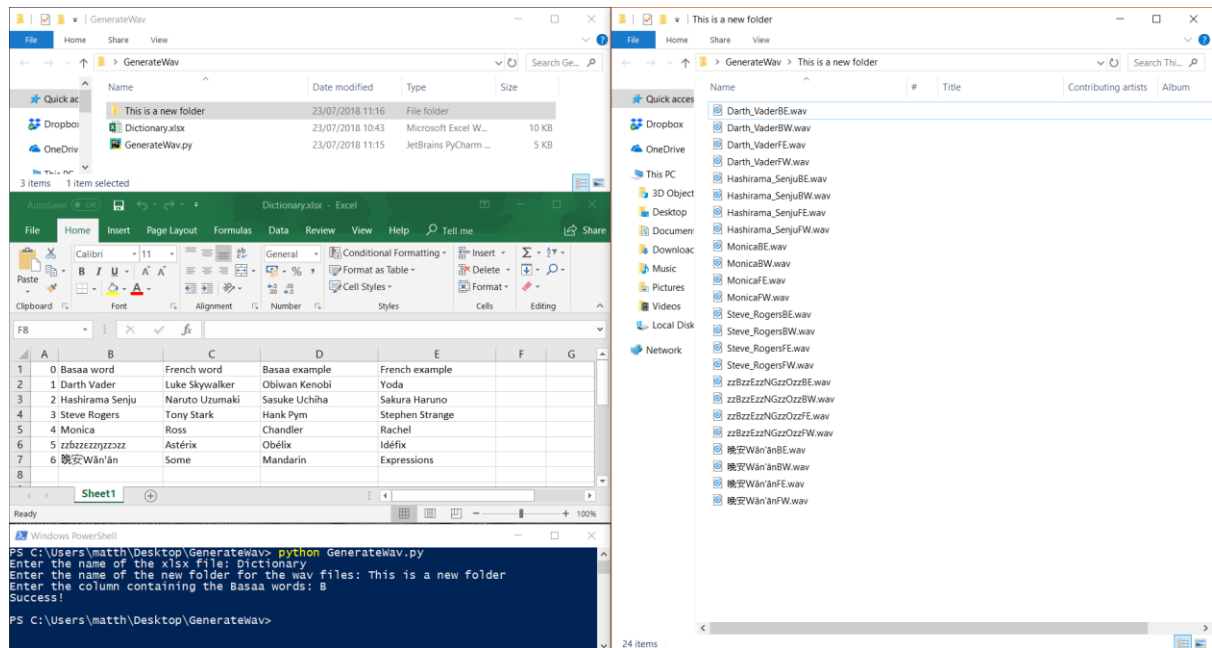
- The .xlsx file and GenerateWav.py must be in the same folder.
- You must have Python 3 installed.

## Use

1. Have the required files ready and open your cmd/PowerShell/Terminal.



- Run GenerateWav.py and follow the instructions. A new folder containing the .wav files should be created.



## Notes

### Errors

In the following cases, an error message will be displayed and .wav files will be generated up to the point the error is encountered:

- The .xlsx file does not exist.
- The name you entered for the new folder is already used.
- The column name you entered is not alphabetic.
- Any of the following characters was used in a 'Basaa word' entry of the .xlsx file or to name the new folder to contain the .wav files:

\, /, :, \*, ?, ", <, >, |

### Special characters

Some Basaa words contain special characters which must be replaced. The current mappings are:

- 'b' to 'B'
- 'ε' to 'E'
- 'η' to 'NG'
- 'v' to 'O'

## Naming conventions

- For each Basaa word, 4 .wav files are created. They are named by the following rule:  

<Basaa word><Ending>.wav

 <Ending> may be one of BW, FW, BE, or FE, respectively standing for Basaa Word, French Word, Basaa Example and French Example.
- Spaces are replaced by the underscore character \_ .

## Assumptions

- The Basaa-French dictionary is on the first sheet of the .xlsx file.
- The entries for the dictionary start on the second row, with the first row presumably containing the headings for each column.