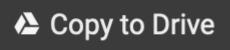
▼ Instructions

Please make a copy of this file before continuing. You can click on the "Copy to Drive" button above. It looks like this:



1 Setup

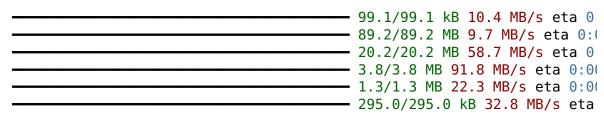
We first need to install textprocessing and pysentimiento. Loading pysentimiento will take a while so please be patient:)

```
!pip install git+https://github.com/gei1002/textprocessing.git --no-cache-dir -c
    Preparing metadata (setup.py) ... done
    Building wheel for tp (setup.py) ... done
```

If installing textprocessing directly does not work, we will need to upgrade setuptools, pip and `wheels' first. Remove the # before running the code below, only if you encounter errors when installing textprocessing.

```
#!pip install --upgrade setuptools
#!pip install --upgrade pip
pip install -q pysentimiento
```

```
- 251.2/251.2 kB 12.2 MB/s eta
                                            - 519.6/519.6 kB 42.6 MB/s eta
                                            - 175.4/175.4 kB 16.1 MB/s eta
Preparing metadata (setup.py) ... done
                                            - 670.2/670.2 MB 2.0 MB/s eta (
                                             7.7/7.7 MB 39.2 MB/s eta 0:00
                                             115.3/115.3 kB 10.3 MB/s eta
                                             194.1/194.1 kB 20.1 MB/s eta
                                             134.8/134.8 kB 9.9 MB/s eta (
                                             302.0/302.0 kB 29.9 MB/s eta
                                             23.7/23.7 MB 61.8 MB/s eta 0
                                             823.6/823.6 kB 43.2 MB/s eta
                                             14.1/14.1 MB 65.2 MB/s eta 0
                                             731.7/731.7 MB 2.3 MB/s eta (
                                             410.6/410.6 MB 2.6 MB/s eta (
                                             121.6/121.6 MB 8.1 MB/s eta (
                                             56.5/56.5 MB 12.7 MB/s eta 0
                                             124.2/124.2 MB 8.1 MB/s eta (
                                             196.0/196.0 MB 6.3 MB/s eta (
                                            - 209.8/209.8 MB <mark>5.6 MB/s</mark> eta (
```



Building wheel for emoji (setup.py) ... done ERROR: pip's dependency resolver does not currently take into account all fastai 2.7.12 requires torch<2.1,>=1.7, but you have torch 2.1.0 which is torchaudio 2.0.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which torchdata 0.6.1 requires torch==2.0.1, but you have torch 2.1.0 which is it torchtext 0.15.2 requires torch==2.0.1, but you have torch 2.1.0 which is torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which is torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which is torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which is torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which is torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which is torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which is torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which is torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which is torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which is torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which torchvision 0.15.2+cull8 requires torch==2.0.1, but you have torch 2.1.0 which you have to

🗼 2 Loading data

To see if this work, we can fetch the sample data seen in the tutorial.

```
!wget -q https://github.com/gei1002/textprocessing/raw/main/data.zip
!unzip -q data.zip
```

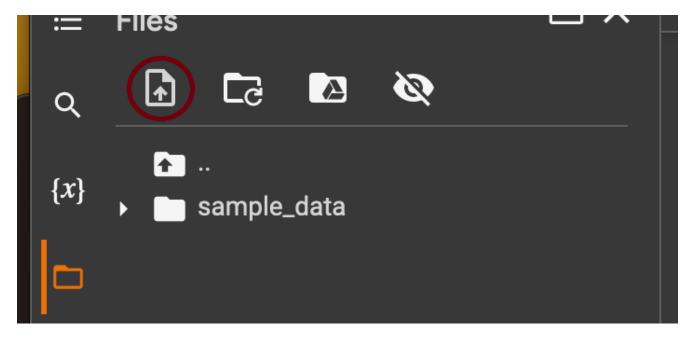
Now let's work with *our own* data. As stated in worksheet 3.3, each member of your group must label the reviews of our fictional cafe (coffee.xlsx) as 'pos', 'neg' or 'neu'. To upload this data to colab you must go to the Files navigator in Colab, add a new folder and upload the files made by your groupmates.

1) Click on the Files button on the left of the notebook.

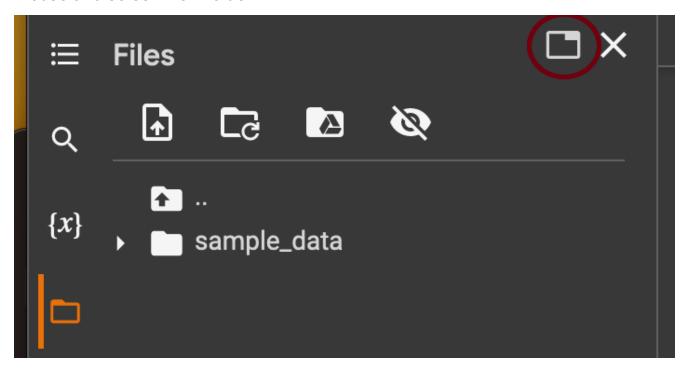


2) Click upload and select a file.

-- F1-- [7] X



3) If you want to organize your uploads into subfolders, you can click on the "add a new folder" button. If this doesn't work, click with the right button of your mouse and select "new folder".



3 Loading modules

import textprocessing as tp

Downloading (...)Ive/main

/config.json: 100%

Downloading

pytorch_model.bin: 100%

949/949 [00:00<00:00,

32.1kB/s]

540M/540M [00:03<00:00,

171MB/s]

 Downloading
 338/338 [00:00<00:00,</td>

 (...)okenizer_config.json: 100%
 8.00kB/s]

 Downloading (...)solve/main
 843k/843k [00:00<00:00,</td>

 /vocab.txt: 100%
 12.6MB/s]

4 Analysis

This is the same as what you saw in the videos for week 6.

```
tp.compare_raters("travel_blogs")

Processing travel_blogs/blogs_labeler1.xlsx...
Processing travel_blogs/blogs_labeler2.xlsx...
Processing travel_blogs/blogs_labeler3.xlsx...

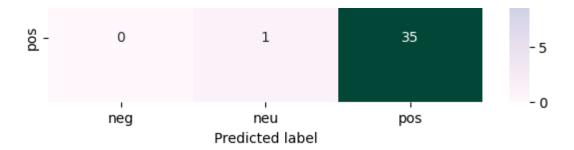
Agreement file saved at travel_blogs_output/agreement.xlsx
Fliess Kappa is 0.6592389670263585
```

If your excel files don't have an index column, you can pass in the parameter includes index = False

```
#tp.compare_raters("no_index",includes_index=False)
    ERROR: There must be at least three files in the directory.
sa = tp.sentiment_analysis("travel_blogs_output/agreement.xlsx")
    The accuracy score is 89.0
```

sa.confusion matrix()





sa.examine_labels(actual="neu",predicted="neg")

3

	sentence	blogs_labeler1	blogs_labeler2	blogs_labeler3	ground truth	prec
15	A week in the countryside was uneventful.	neu	neu	neu	neu	
65	My train journey to work was as usual,	neu	neu	neu	neu	