

Instructions for usage:

To run the user interface classification program with Python3, type into terminal:

```
python3 HandWriteGUI.py
```

To run the nearest neighbor program on data and see accuracy:

```
python3 NearestNeighbor.py
```

Unfortunately, for either of these to work you must have the following files within the directory (which are too large to include in the zipped file):

Emnist-letters-mapping.txt

Emnist-letters-test.csv

Emnist-letters-train.csv

All three of the files can be downloaded from the following Google Drive links:

<https://drive.google.com/open?id=1jAlcTq-Y3EJgbt3wkLX7fVi0XmkYwet>

https://drive.google.com/open?id=1Cvbbu7bnF6Y5zvdwhx2Hb7xKARVH_M12

<https://drive.google.com/open?id=1MfbslKhW6EE5ybvUGVyTrH6k1AZJI8X7>