TimeOfDayOTP Documentation

N:\Planning - New File Structure\GIS\VRT\_PythonScripts\PassProgram\PassProgram Documentation.docx

This script reads should read in a GTFS feed and returns rough zones based on levels of service.

Requisites

* [Python 3](https://www.python.org/)
* [Geopandas](http://geopandas.org)
* [Pandas](https://pandas.pydata.org/pandas-docs/stable/)
* [TKInter](https://docs.python.org/3/library/tkinter.html)
* [Shapely](https://shapely.readthedocs.io/en/stable/manual.html)
* [GTFSTK](https://mrcagney.github.io/gtfstk_docs/)
* [Numpy](https://www.numpy.org/)
* [Jupyter](https://jupyter.org/documentation)/IPython

Usage

1. Run the script. A dialog box will open asking a GTFS feed and locations to save output files. You can also set the number of bins, the buffer size, and the distance between grid points. Smaller buffers and larger grids make the program run faster, but are less granular. The employers file needs to have “Latitude” and “Longitude” columns.
2. The output will be 2 shapefiles. One will be zones, the other will be employers and the zone that they would fall into.