Lyft Documentation

N:\Planning - New File Structure\GIS\VRT\_PythonScripts\Performance\Ridership\Lyft Documentation.docx

This script reads in a usage reports for NiteRide and FMLM, draws lines between origins and destinations, and outputs a shapefile to create travel maps ([example](file:///N:\Planning%20-%20New%20File%20Structure\GIS\Maps\2019\FMLM_Feb_May_19_Origins_Lines.pdf)).

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)
* [Jupyter](https://jupyter.org/documentation)/IPython

Usage

1. Run the script. A dialog box will open. Find the folder where you have your monthly usage reports saved. **TODO: connect directly to Box account.** You can also filter by month.
2. The script will output two shapefiles. One is of line segments between origin and destination census tracts, the other is of points for intra-tract travel.
3. I typically create two data driven pages maps, highlighting origins and destinations and the travel patterns to and from them. The line and point symbology are set up using Multiple Attributes, Value Fields: Trip Time, Variation by Symbol Size ([example](file:///N:\Planning%20-%20New%20File%20Structure\GIS\Maps\2019\FMLM_Feb_19.mxd)).
4. I then export to Illustrator to curve the line segments so that they are not overlapping. **TODO: figure out how to make the lines curve on their own.**