APC\_Cities Documentation

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This script reads in a stop summary report, filters the results by the city of your choice, and returns a shapefile and Excel spreadsheet of boardings and alightings by route. The formatting of the shapefile allows for the use of charts symbology. The output is in daily averages.

Requisites

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

Usage

1. Run the script. A dialog box will open. Find the stop summary report you’d like to use and the location you’d like to save the data. Select a jurisdiction or choose “All.”
2. The script will output an Excel Spreadsheet and a shapefile of boardings and alightings by route within the selected jurisdiction. Refer to the ArcMap documentation for [using chart symbology](http://desktop.arcgis.com/en/arcmap/10.3/map/working-with-layers/drawing-features-to-show-quantities-drawing-pie-ch.htm). I typically exclude Main Street Station, Main & 8th, and Towne Square Mall to keep the pie charts sized reasonably.
3. Make appropriate cartographic additions and adjustments.