DepartureBoard Documentation

N:\Planning - New File Structure\GIS\VRT\_PythonScripts\ServiceChanges\Schedules\DepartureBoard Documentation.docx

This script reads in a GTFS feed and returns an Excel spreadsheet of departure times for a given stop, rounded down to the nearest 5 minutes.

Requisites

* [Python 3](https://www.python.org/)
* [GTFSTK](https://mrcagney.github.io/gtfstk_docs/)
* [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 GTFS feed you’d like to use and the location you’d like to save the data.
2. Input the stop ID you’d like to get a departure board for. Here are some useful ones:
   1. Main Street Station: 01019999
   2. Main & 8th SWC: 01010120
   3. Towne Square Mall P&R SWM: 01010845
   4. Happy Day Transit Center: 14010090
   5. Boise Airport & Airport Drive SEM: 01010188
3. Select the weekday type you’d like.
4. The script will output an Excel Spreadsheet in the folder of your choosing with the the name <stop\_id>\_<GTFS\_Feed\_Name>\_<Weekday\_Type>DepartureBoard.
5. The cells will be color coded to the GTFS route color name. Adjust the text color for readability. **TODO: change text color based on GTFS route\_text\_color.**
6. Make stylistic adjustments as needed. **TODO: Add GUI option for vertical or horizontal**