

Rough Analysis of all Graphs

This data was taken from the National transit center and the percent change from month to month of the usage of each form of transit is shown in the usage graph delineated by month. All graphs stretch from January of 2012 to December of 2015

Each usage graph has two respective derivative graphs, one minima and one maxima that are derived from it. Additionally these two graphs are looping the sense that they loop around each year and count the frequencies of the local maxima and minima for the transit data over the course of 5 years. Spikes in these graphs represent higher or lower transit use during the specific month that the spike correlates to for the past 5 years.

After these graphs are compiled graphs, where the percent change graphs are overlaid and the maxima and minima graphs are also overlaid. This is to search for general trends within all transit data.

This provided some interesting correlations in the graphs where, when percentage use of a specific type of transit increased or decreased, all types of transit would increase or decrease accordingly. Thus, the transit systems for the city are likely used by the same people and an increase or decrease in the usage of one system may reflect a general trend in the attitudes of the people using all systems. Further analysis needs to be done on this because the data is so segregated by month instead of by day but that extra data is what the app will provide.