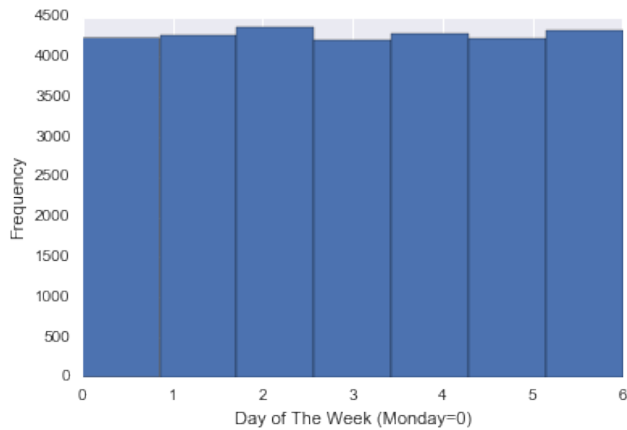


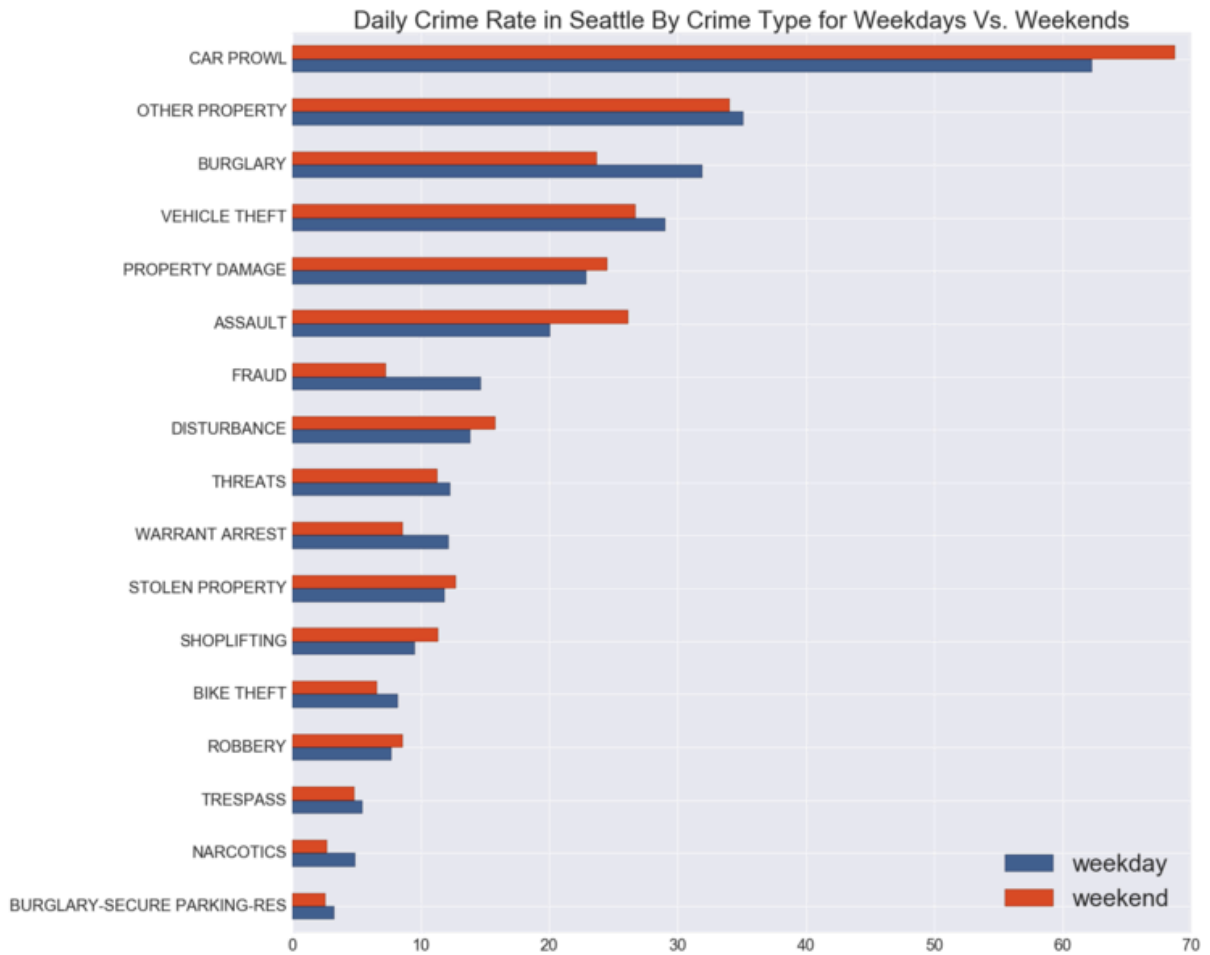
Avoid Downtown Seattle on the Weekend

Following the instructions in https://github.com/uwescience/datasci_course_materials/blob/master/assignment6/crimeanalytics.md, I analyze Seattle crime data from the summer of 2014. Jupyter code can be found here: https://github.com/noam3/communicating_data_science_assignment1/blob/master/crime_visualization_clean.ipynb.

For starters, let's see the distribution of incidents by weekday. Since some incidents (9% of the rows) last longer than a day, we exclude them.



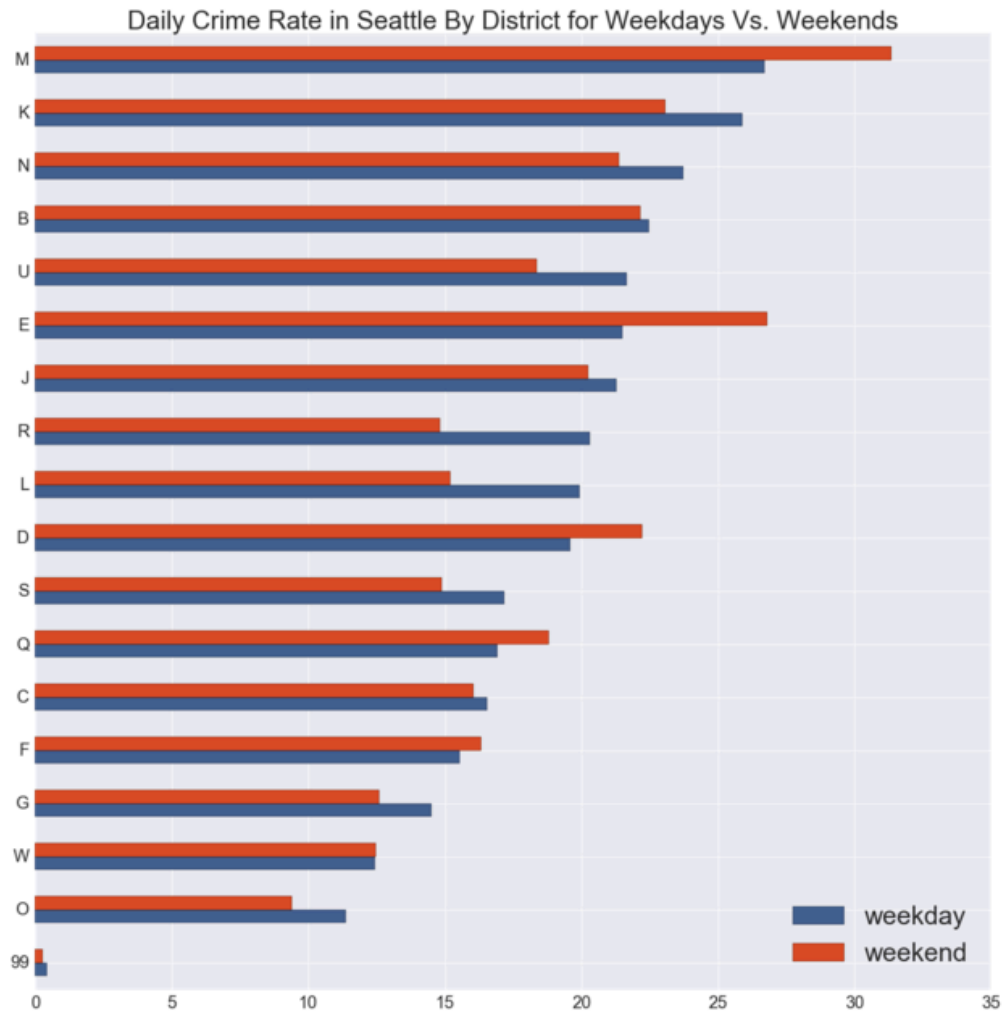
Days 5 and 6 (Saturday and Sunday, respectively) look similar to the rest of the week in terms of total crime incidents. Let's look instead at each crime type: does it occur more often on the weekend or during the work week?



It appears that Car Prowl and Assault incidents are more common on the weekend, whereas Burglary and Fraud are more common during the work-week. It also appears that property crimes (automotive and other) are the most common incidents in Seattle.

How Do Crime Incidents Differ by District?

We can repeat the analysis but look at district rather than crime type.



There are several districts where crimes are more common on the weekend, for example: M, E, D, Q. Meanwhile, other districts such as K, N, U, R, and L have more crime incidents on the weekdays (during the work-week). For reference, a district map of Seattle can be found here: http://www.seattle.gov/police/maps/precinct_map.htm

The districts with more crime on the weekend (M, E, D, Q) are at downtown Seattle. Therefore, it may be advisable to avoid downtown Seattle on the weekends.