Baltimore Crime Map

1. Objective

The general goal is to try to code up a system that reads and processes crime record data in the Baltimore Police Department and visualizes crime location patterns depending on user specified conditions.

2. Loading the data and translating dates and times

3. Transform coordinates data into numeric

In the original data, there is a column called "Location1". This variable indicates pairs of "(latitude, longitude)". Use string splitting techniques to obtain two numeric variables of longitude and latitude.

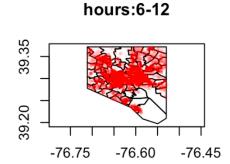
4. Summarize geographic and time patterns in assault-class of Crimes

Summarize the geographic and time patterns of crimes with the keyword "ASSAULT" in it. In terms of time patterns, split a day into 4 sections: morning (6:00 am to 12:00 pm), afternoon (12:00 pm to 6:00 pm), evening (6:00 pm to 12:00 am) and mid-night(12:00 am to 6:00 am), and separately plot the 4 geographic patterns.

hours:0-6

98.00

-76.75 -76.60 -76.45



-76.75 -76.60 -76.45

hours:12-18

