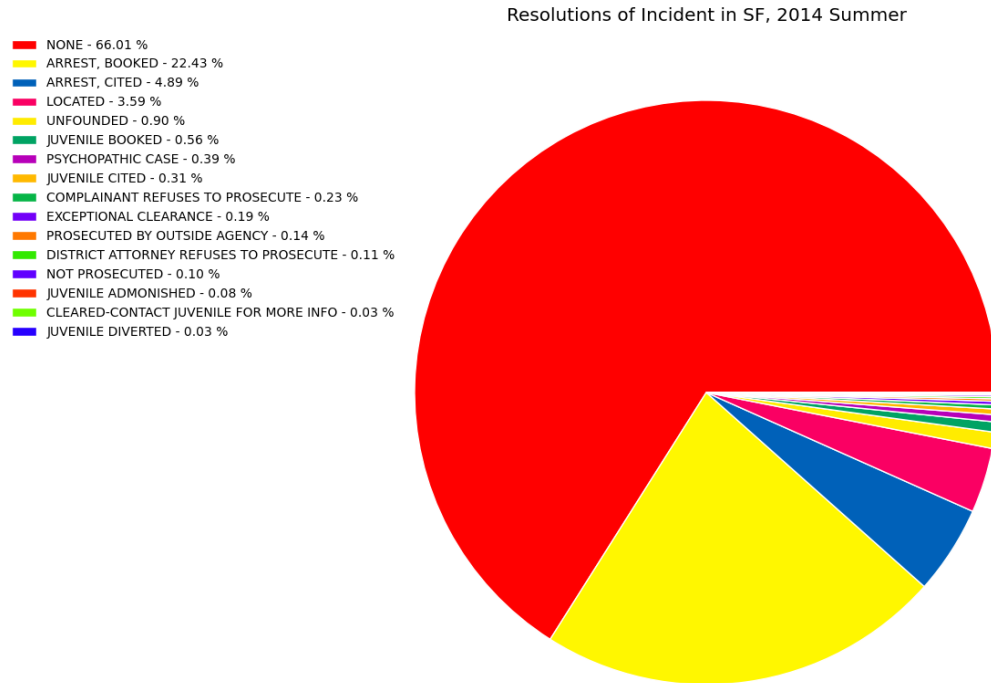
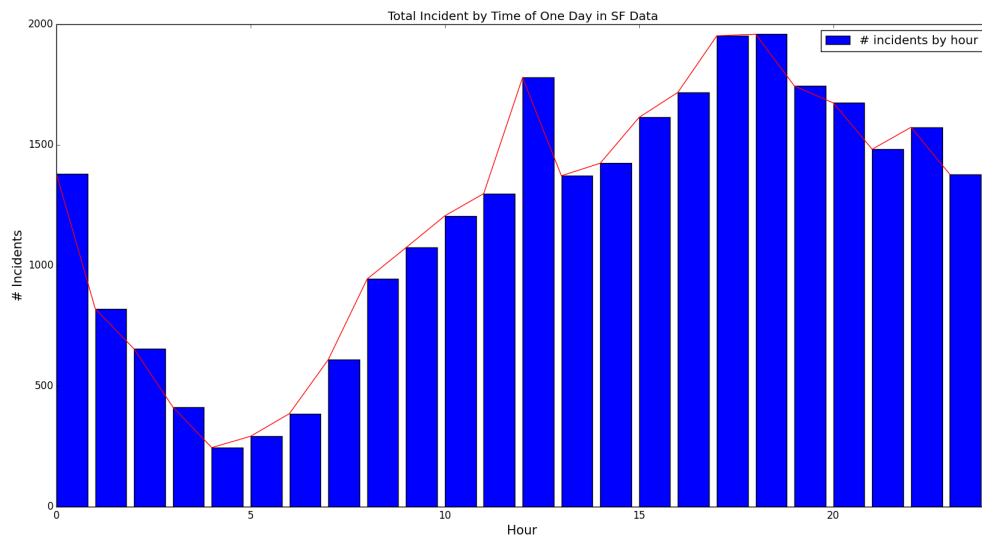


Report on Crime Data in San Francisco 2014 Summer

The research in to San Francisco 2014 Crime Data reveals that crime rate grows higher on weekend and in the evening.

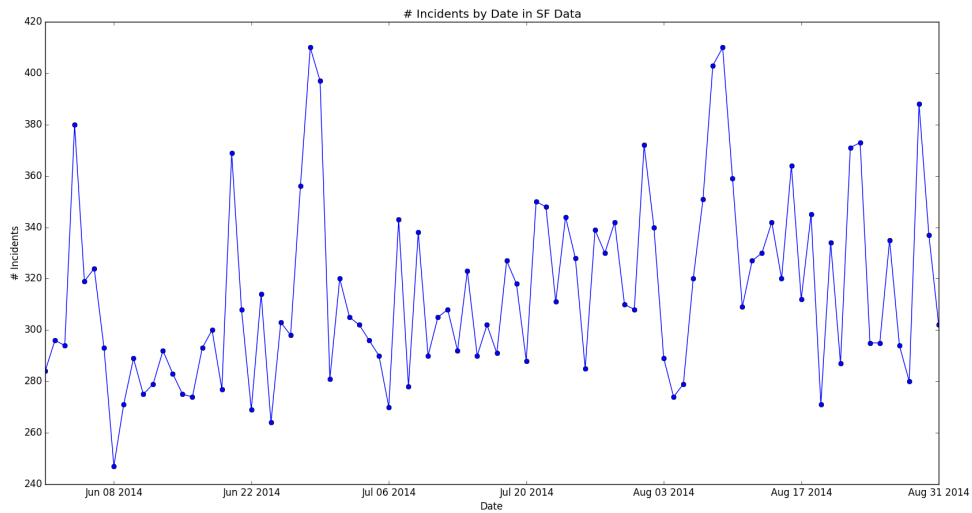


First, I observed that up to 2/3 of the crime reported remain unsolved in San Francisco at 2014 Summer. This gives rise to a question: why most of the incidents failed in resolution?

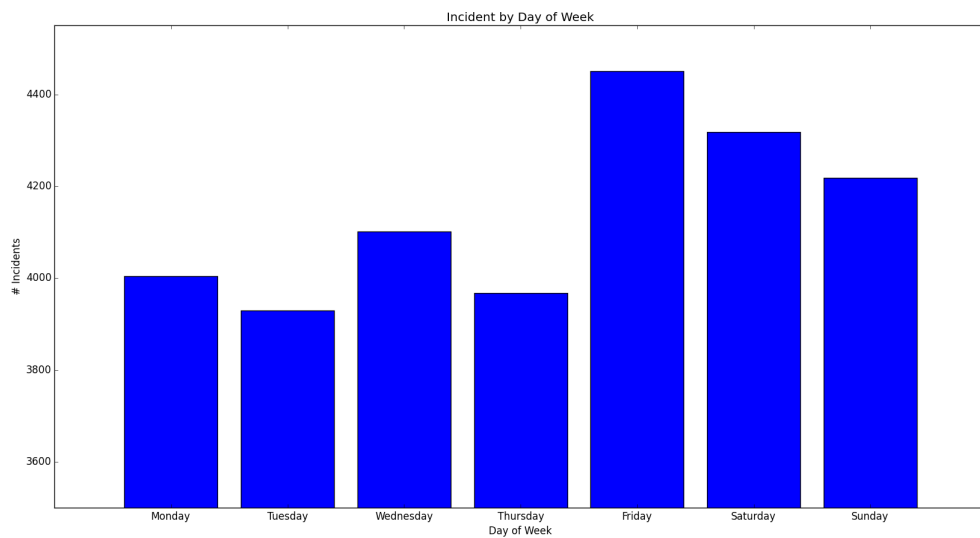


To solve this question, I first calculated by-hours time series, It showed that more crime happened at around 5-6pm. Another noticeable period is 12pm, where crime rate also tends to be much higher than its neighboring periods.

Then I started to wonder: are there any other crime pattern for time-serialized data?



So I had a closer look on time series data. An analysis by date shows that mean crime rate is going up during summer. Also, I also observed that there exist some days when crime rate is relatively higher than its neighboring days. And those days seem to have periodical patterns.



Thus I analyzed by-weekday time series. The result showed that more crime happened on Friday, Saturday and Sunday. It illustrated that there does exist crime pattern in terms of weekdays.