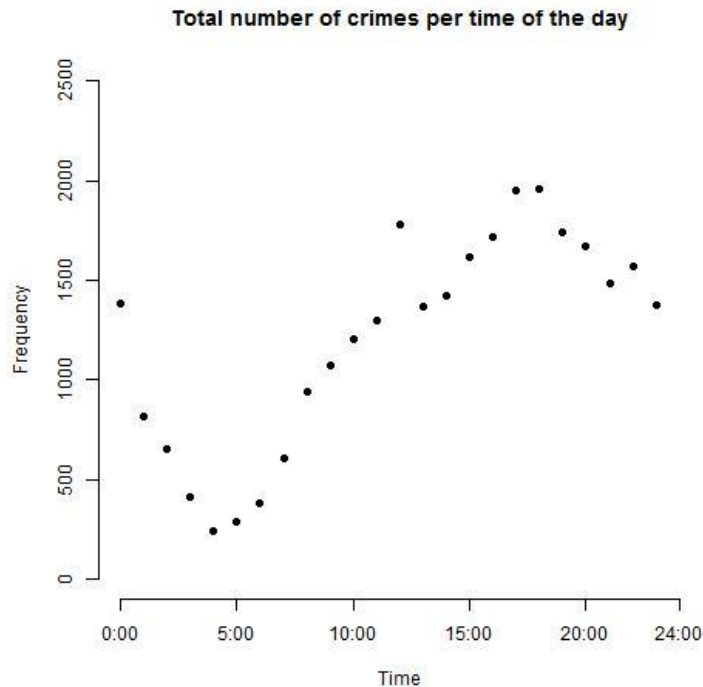


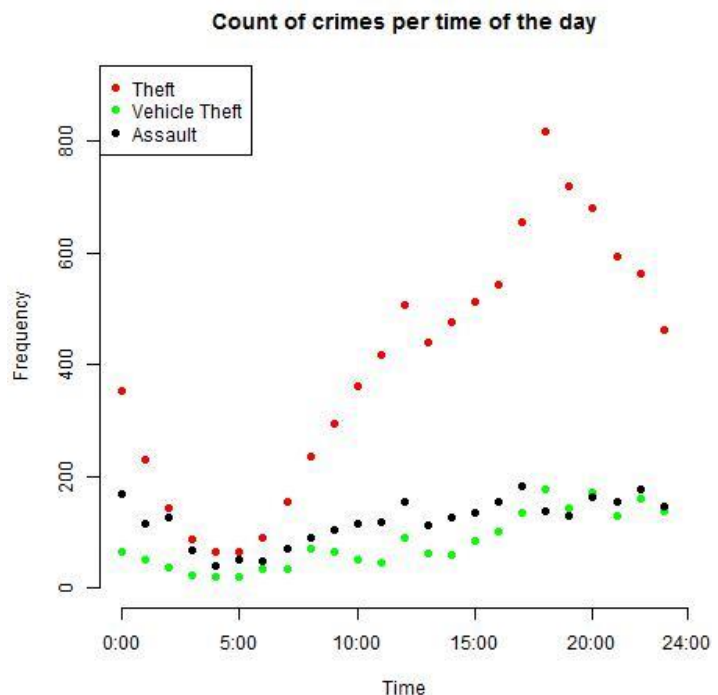
## Beware at night: crime rates highest during late hours in the summer of 2014, San Francisco

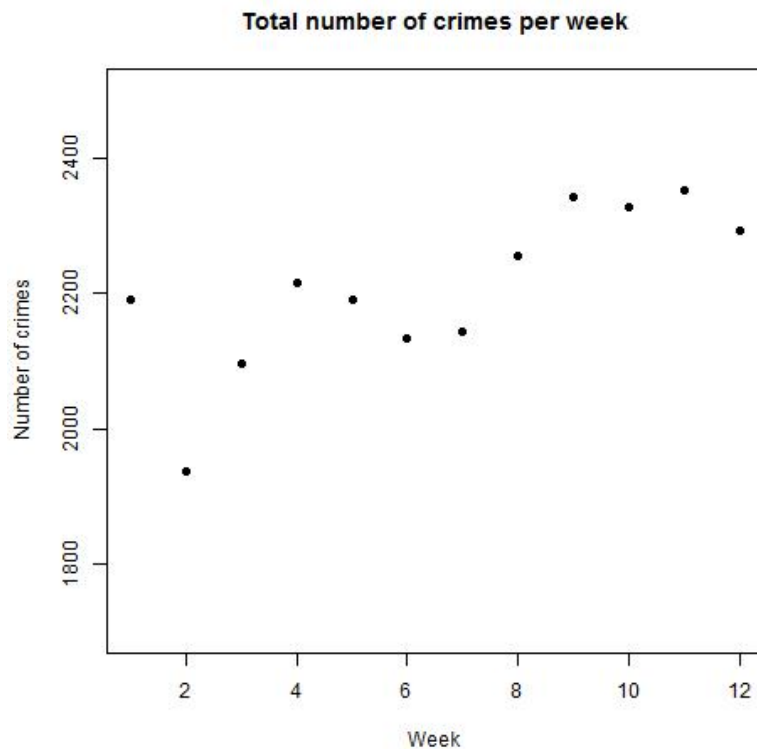
A look at the crime data of the summer of 2014 from the open depository of the San Francisco police provides some informing insights into the frequency of crimes in relation to the hour of the day.



In the graph to the left, the total number of crimes in San Francisco in the period from the 1<sup>st</sup> of June- 31<sup>st</sup> of August is grouped by the hour of the day in which they were committed/ reported. A clear trend is visible. From a relative calm early morning the crime rate rises to peak around 8 pm (diner time!!). A striking data point occurs at noon, where a sudden rise of the number of incidents occurs. Hangry for lunch?

The plot to the right shows the trend of three of the most occurrent types of crimes, again binned by the time of day. We see that theft/arcery, the crime with the highest number of reports, shows the same trend as the total of crimes. Vehicle theft and assault also have a minimum at 5:00, where all three types converge to almost zero, but the increasing trend is less prominent in this graph, as the absolute measure of the frequency axes visually suppresses the relatively smaller amount of these crimes.





The above plot displays the total number of crimes binned by the 12 weeks of the summer. The second week of the summer was relatively quiet to the police, whereas a slight, although it is questionable whether this is significant, increase in the crimes per week occurs throughout the course of the summer. Did the sun become too much for the inhabitants of SF?

This rather qualitative look into the data provides us with plenty of follow-ups in terms of quantitative analysis. Is there a relation between the temperature and the crime rate? Which sorts of crime correlate?