# DSC640\_Exercise6\_2\_Asumbaraju\_R

### Sumbaraju Aditya

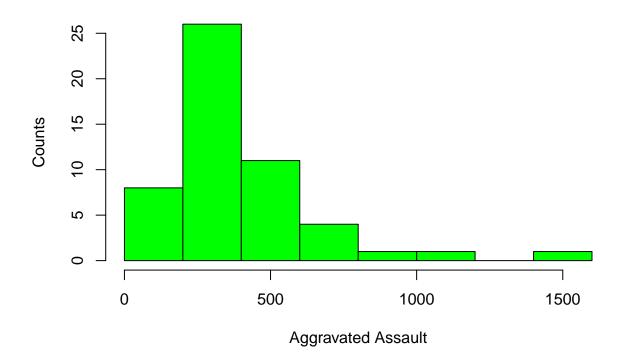
8/6/2021

```
library(ggplot2)
library(reshape2)
library("dplyr")
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
       intersect, setdiff, setequal, union
crime_df <- read.csv("C:/BU/DSC640/wk9-10/ex6-2/crimeratesbystate-formatted.csv")</pre>
crime_df <- crime_df[!(crime_df$state=='United States'),]</pre>
print(is.data.frame(crime_df))
## [1] TRUE
```

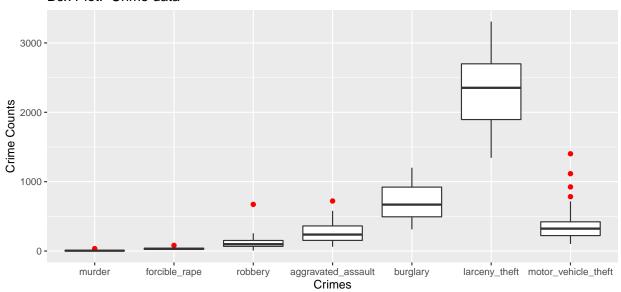
### Histogram

```
hist(crime_df$motor_vehicle_theft,
    main="Aggravated Assault Counts",
    xlab="Aggravated Assault",
    ylab="Counts",
    col="green",
    freq=TRUE)
```

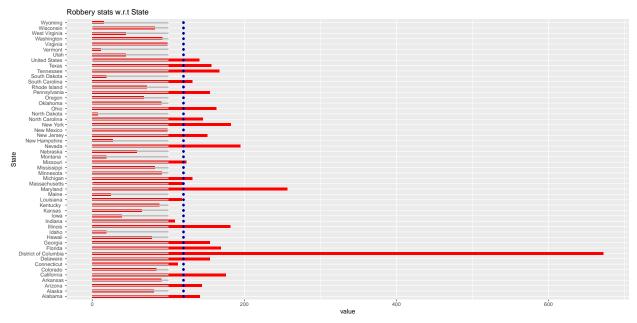
## **Aggravated Assault Counts**



#### Box Plot: Crime data



#### # bullet chart



# an additional charts of choice – Pie Chart

```
mycols <- c("#0073C2FF", "#EFC000FF", "#868686FF", "#CDC686FF", "#CD534CFF")
cr_df=filter(cr_df, robbery > 178)
cr_df <- cr_df %>% arrange(desc(state)) %>% mutate(lab.ypos = cumsum(robbery) - 0.5*robbery)
cr_df
##
                    state robbery mean target lab.ypos
## 1
                New York 182.7 100
                                         120
                                                91.35
## 2
                 Nevada
                            194.7 100
                                         120
                                               280.05
## 3
                           256.7 100
                                         120
                                               505.75
                Maryland
                           181.7 100
## 4
                Illinois
                                         120
                                               724.95
## 5 District of Columbia 672.1 100
                                         120 1151.85
ggplot(cr_df, aes(x = "", y = robbery, fill = state)) +
  geom_bar(width = 1, stat = "identity", color = "white") +
  coord_polar("y", start = 0)+
  geom_text(aes(y = lab.ypos, label = robbery), color = "white")+
  scale_fill_manual(values = mycols) +
  theme_void()
```

