

Week 7 & 8

Code ▾

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```
#load libraries
library(ggplot2)
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

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```
library(tidyr)
library(hrbrthemes)
```

Registered S3 methods overwritten by 'htmltools':

method	from
print.html	tools:rstudio
print.shiny.tag	tools:rstudio
print.shiny.tag.list	tools:rstudio

Registering Windows fonts with R

NOTE: Either Arial Narrow or Roboto Condensed fonts are required to use these themes.
Please use `hrbrthemes::import_roboto_condensed()` to install Roboto Condensed and
if Arial Narrow is not on your system, please see <https://bit.ly/arialnarrow>

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```
library(pivottabler)
```

Registered S3 method overwritten by 'htmlwidgets':

method	from
print.htmlwidget	tools:rstudio

Registered S3 method overwritten by 'data.table':

method	from
print.data.table	

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```
library(areaplot)
```

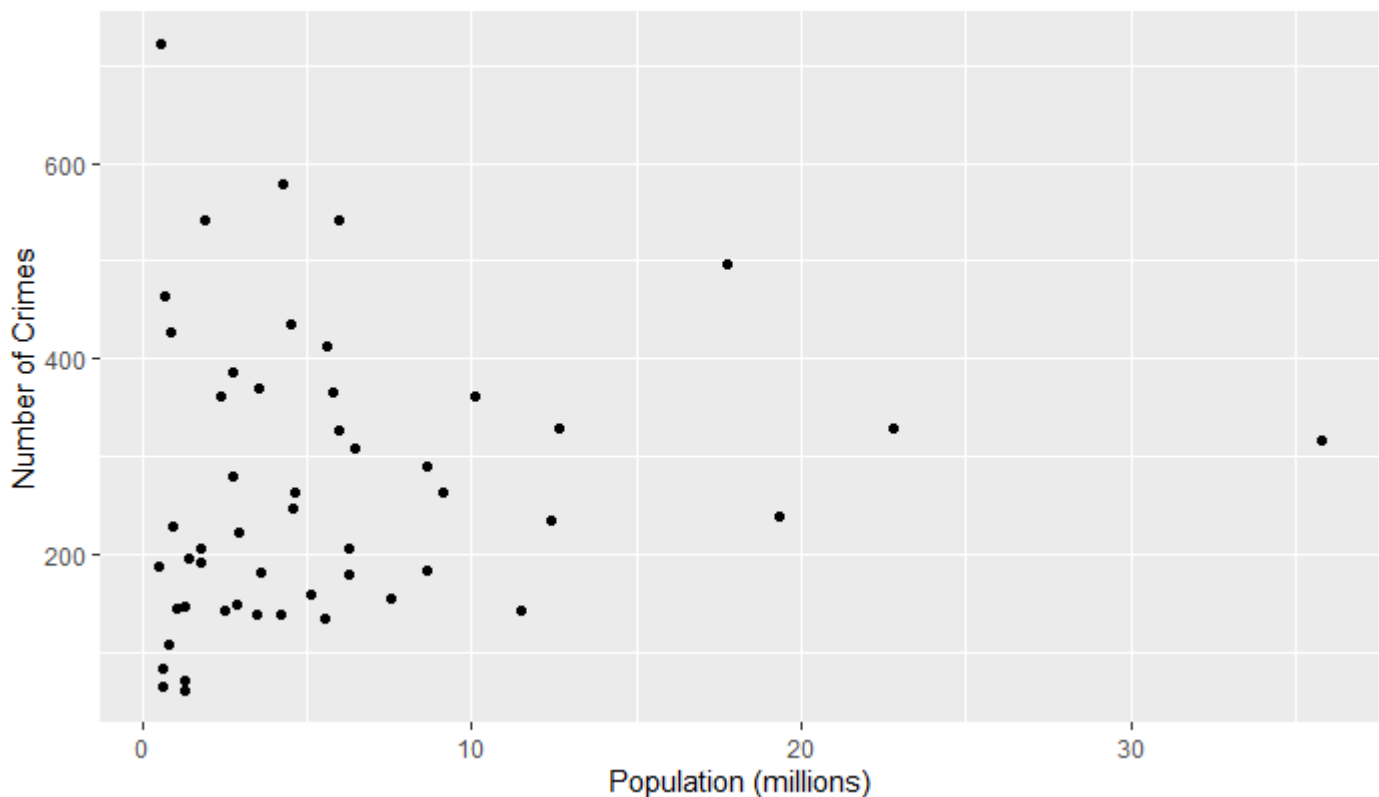
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```
#import data
data = read.csv("C:\\Users\\longr\\Documents\\DSC 640\\Week 7 & 8\\4.2 Exercises\\crimerates-by-state-2005.csv")
data <- data[-c(1), ]
data$PopinM <- round(data$population/1000000,2)
```

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```
ggplot(data, aes(x=PopinM, y=aggravated_assault)) + geom_point()+
  xlab("Population (millions)") + ylab("Number of Crimes")+
  ggtitle("R - Scatter Plot: Aggravated Assault by State Population - 2005")
```

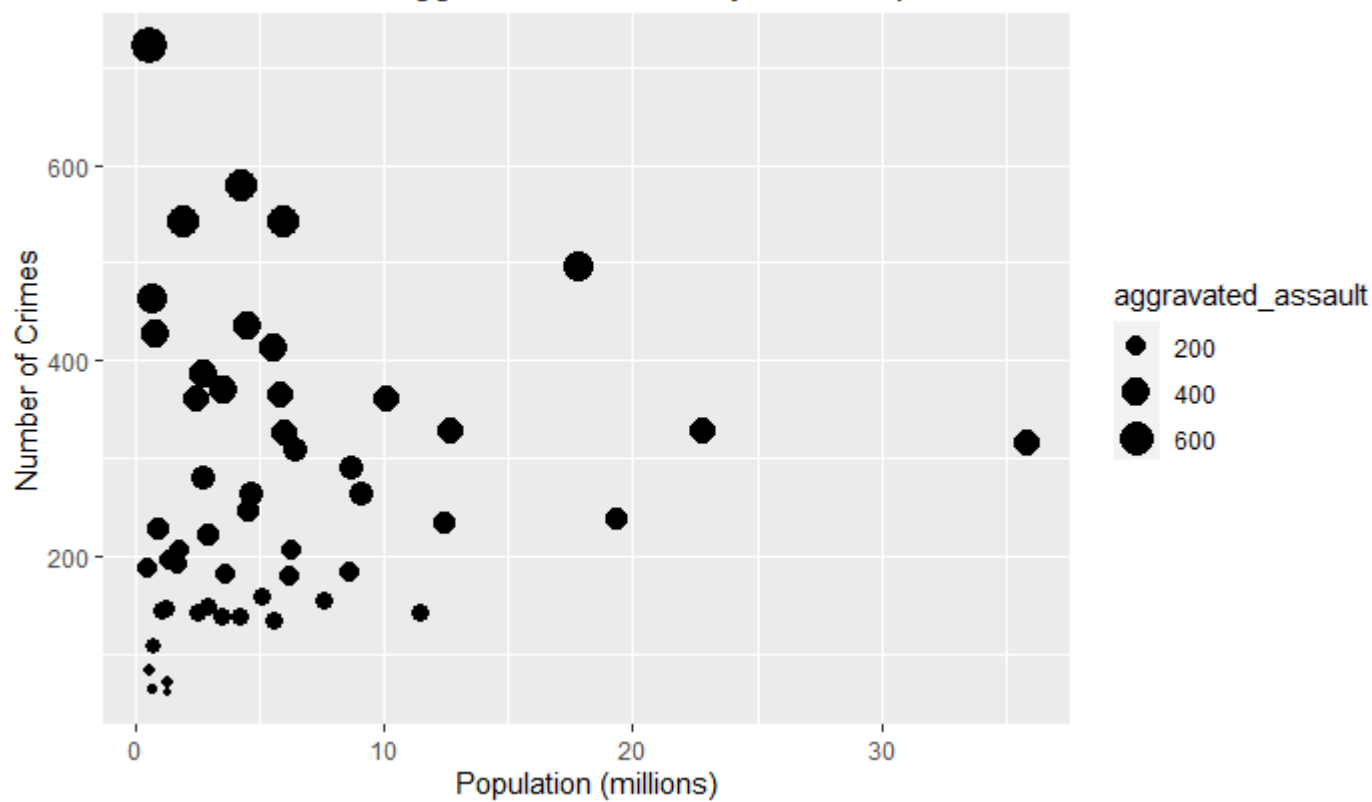
R - Scatter Plot: Aggravated Assault by State Population - 2005



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```
ggplot(data, aes(x=PopinM, y=aggravated_assault)) +
  geom_point(aes(size=aggravated_assault))+
  xlab("Population (millions)") + ylab("Number of Crimes")+
  ggtitle("R - Bubble Chart: Aggravated Assault by State Population - 2005")
```

R - Bubble Chart: Aggravated Assault by State Population - 2005

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```
d <- density(data$aggravated_assault)
plot(d, main="R - Density Plot: State Aggravated Assault - 2005")
polygon(d, col="red", border="blue")
```

