lab0

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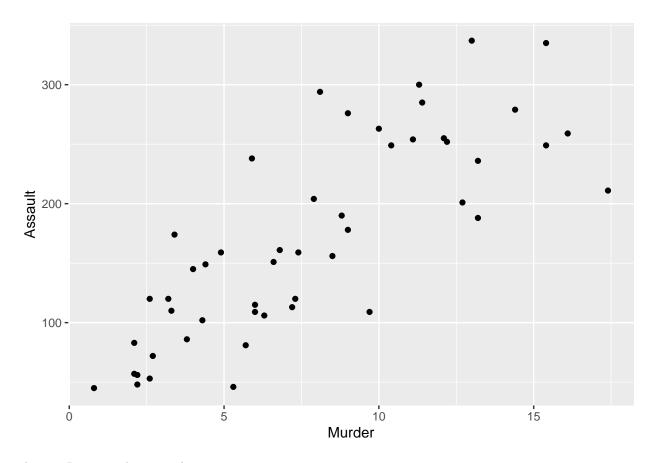
Loading the data

```
data("USArrests")
library(readr)
stateCoord <- read_table2("stateCoord.txt")</pre>
## Parsed with column specification:
## cols(
##
     state = col_character(),
     long = col_double(),
##
     lad = col_double()
## )
library(tidyverse)
## -- Attaching packages ----- tidyverse 1.3.0 --
## v ggplot2 3.3.2 v dplyr 1.0.2
## v tibble 3.0.0 v stringr 1.4.0
## v tidyr 1.1.1 v forcats 0.5.0
## v purrr
              0.3.4
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                       masks stats::lag()
```

Visualizing the data

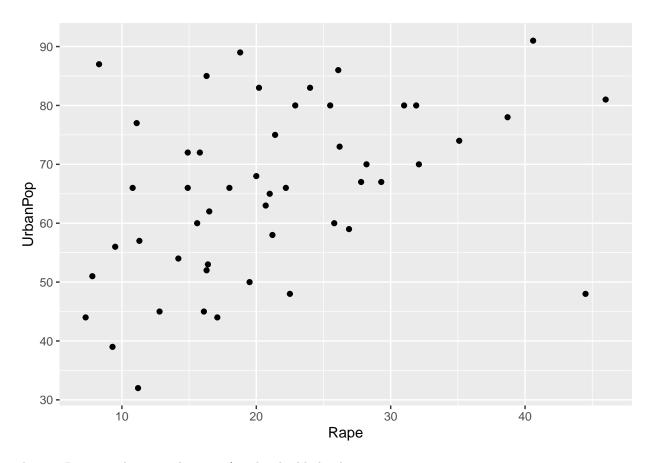
plotting Murder v Assault

```
library(ggplot2)
ggplot(USArrests, aes(x=Murder, y=Assault)) +
  geom_point()
```



plotting Rape v urban population

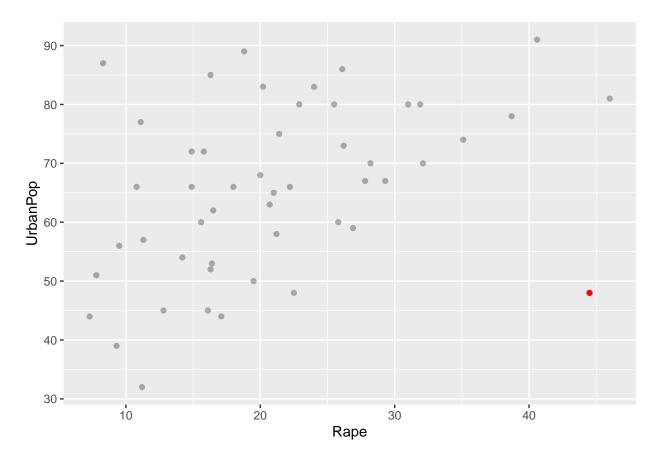
```
ggplot(USArrests, aes(x=Rape, y=UrbanPop)) +
geom_point()
```



plotting Rape v urban population w/ outlier highlighted

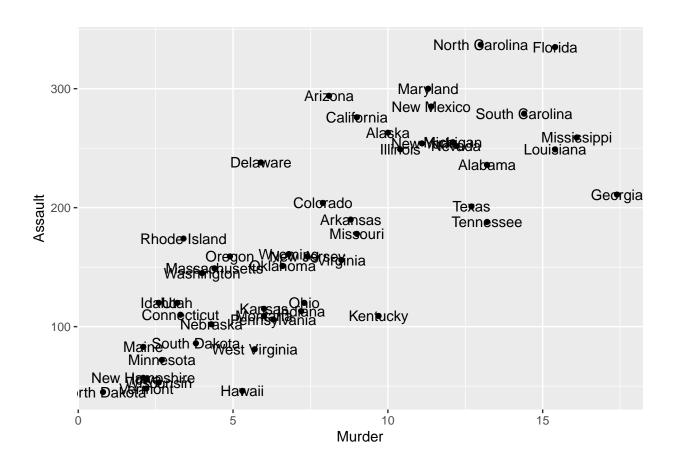
```
USArrests_outliers <- USArrests %>%
  filter(UrbanPop < 55 & Rape > 40)

USArrests %>%
  ggplot(aes(x=Rape, y=UrbanPop)) +
  geom_point(alpha=0.3) +
  geom_point(data=USArrests_outliers, aes(x=Rape, y=UrbanPop), color='red')
```



Re-make the plots with the state names

```
ggplot(USArrests, aes(x=Murder, y=Assault)) +
geom_point() + geom_text(aes(label=rownames(USArrests)))
```



Not continuing the lab: feel comfortable with using Rmarkdown and git.