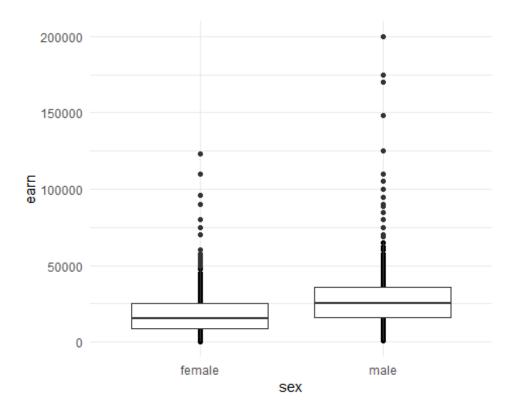
**Assignment: ASSIGNMENT 4** 

Name: Anjale, Jiteshwar

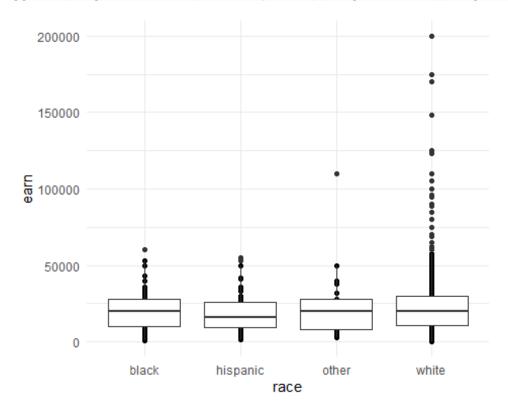
Date: 2021-04-23

## Week: 6

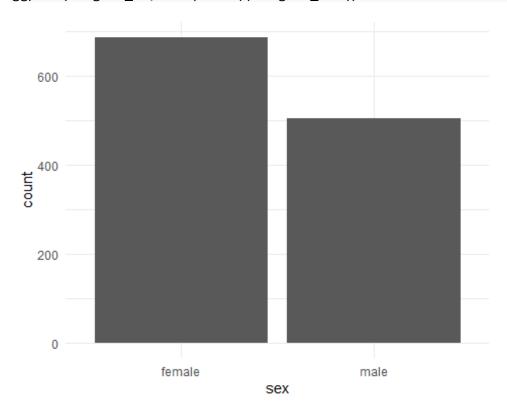
```
## Load the ggplot2 package
library(ggplot2)
theme_set(theme_minimal())
## Set the working directory to the root of your DSC 520 directory
setwd('C:/Users/anjal/OneDrive/Desktop/MS/DSC520/dsc520')
## Load the `data/r4ds/heights.csv` to
heights_df <- read.csv("data/r4ds/heights.csv")</pre>
str(heights_df)
## 'data.frame':
                  1192 obs. of 6 variables:
## $ earn : num 50000 60000 30000 50000 51000 9000 29000 32000 2000 27000
## $ height: num 74.4 65.5 63.6 63.1 63.4 ...
## $ sex : chr "male" "female" "female" "female" ...
           : int 16 16 16 16 17 15 12 17 15 12 ...
## $ ed
## $ age : int 45 58 29 91 39 26 49 46 21 26 ...
## $ race : chr "white" "white" "white" "other" ...
head(heights_df)
##
      earn
            height
                      sex ed age race
## 1 50000 74.42444
                     male 16 45 white
## 2 60000 65.53754 female 16 58 white
## 3 30000 63.62920 female 16 29 white
## 4 50000 63.10856 female 16 91 other
## 5 51000 63.40248 female 17 39 white
## 6 9000 64.39951 female 15 26 white
# https://ggplot2.tidyverse.org/reference/geom_boxplot.html
## Create boxplots of sex vs. earn and race vs. earn using `geom point()` and
`geom boxplot()`
## sex vs. earn
ggplot(heights df, aes(x=sex, y=earn)) + geom point() + geom boxplot()
```



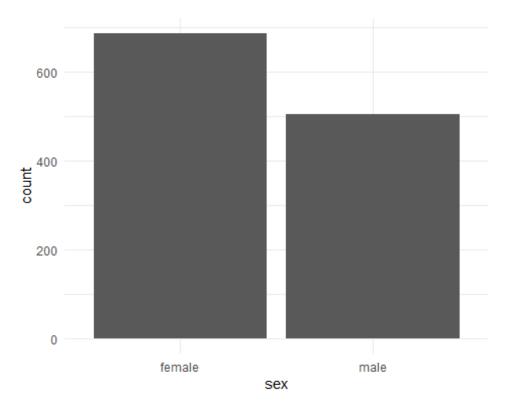
## race vs. earn
ggplot(heights\_df, aes(x=race, y=earn)) + geom\_point() + geom\_boxplot()



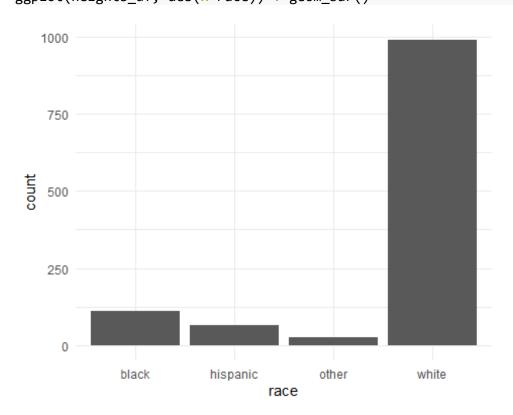
```
# https://ggplot2.tidyverse.org/reference/geom_bar.html
## Using `geom_bar()` plot a bar chart of the number of records for each
`sex`
ggplot(heights_df, aes(x=sex)) + geom_bar()
```



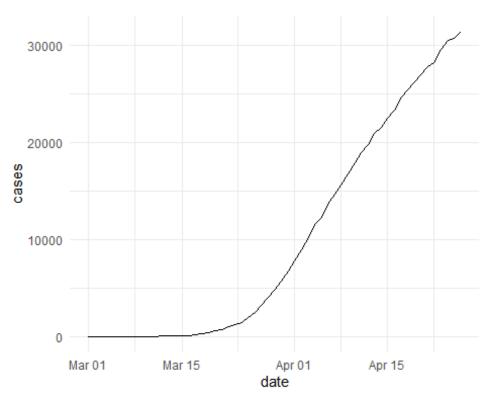
## Using `geom\_bar()` plot a bar chart of the number of records for each race
ggplot(heights\_df, aes(x=sex)) + geom\_bar()



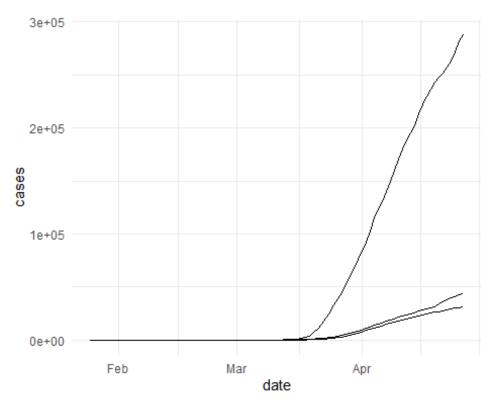
## Create a horizontal bar chart by adding `coord\_flip()` to the previous
plot
ggplot(heights\_df, aes(x=race)) + geom\_bar()



```
https://www.rdocumentation.org/packages/ggplot2/versions/3.3.0/topics/geom pa
## Load the file `"data/nytimes/covid-19-data/us-states.csv"` and
## assign it to the `covid_df` dataframe
covid_df <- read.csv("data/nytimes/covid-19-data/us-states.csv")</pre>
head(covid df)
##
                     state fips cases deaths
           date
## 1 2020-01-21 Washington
                              53
                                     1
## 2 2020-01-22 Washington
                                            0
                              53
                                     1
## 3 2020-01-23 Washington
                              53
                                     1
                                            0
## 4 2020-01-24
                              17
                                     1
                                            0
                  Illinois
## 5 2020-01-24 Washington
                              53
                                     1
                                            0
## 6 2020-01-25 California
                                     1
## Parse the date column using `as.Date()``
covid_df$date <- as.Date(covid_df$date)</pre>
## Create three dataframes named `california_df`, `ny_df`, and `florida_df`
## containing the data from California, New York, and Florida
california_df <- covid_df[ which( covid_df$state == "California"), ]</pre>
ny df <- covid df[ which( covid df$state == "New York"), ]</pre>
florida_df <- covid_df[ which( covid_df$state == "Florida"), ]
## Plot the number of cases in Florida using `geom_line()`
ggplot(data=florida_df, aes(x=date, y=cases, group=1)) + geom_line()
```



```
## Add lines for New York and California to the plot
ggplot(data=florida_df, aes(x=date, group=1)) +
  geom_line(aes(y = cases)) +
  geom_line(data=ny_df, aes(y = cases)) +
  geom_line(data=california_df, aes(y = cases))
```



```
## Use the colors "darkred", "darkgreen", and "steelblue" for Florida, New
York, and California
ggplot(data=florida_df, aes(x=date, group=1)) +
    geom_line(aes(y = cases), color = "darkred") +
    geom_line(data=ny_df, aes(y = cases), color="darkgreen") +
    geom_line(data=california_df, aes(y = cases), color="steelblue")
```

