ASSIGNMENT 4

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Load the ggplot2 package

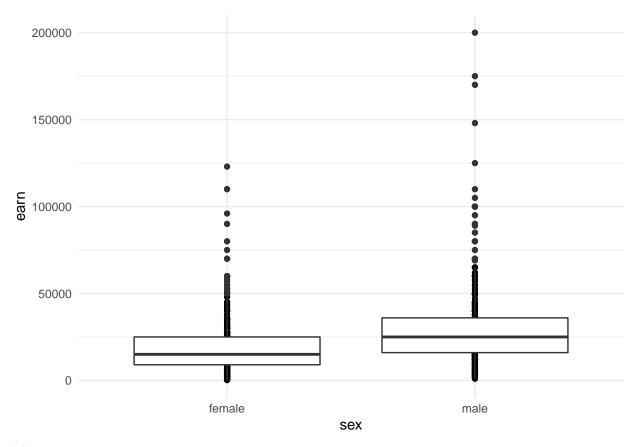
```
library(ggplot2)
theme_set(theme_minimal())

## Set the working directory to the root of your DSC 520 directory
setwd("C:/Users/katie/OneDrive/Documents/GitHub/dsc520")

## Load the 'data/r4ds/heights.csv' to
heights_df <- read.csv("data/r4ds/heights.csv")</pre>
```

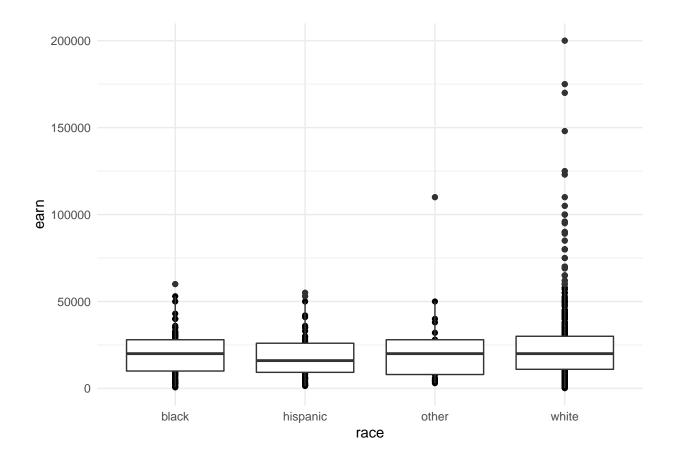
Create boxplots of sex vs. earn and race vs. earn using geom_point()
and geom_boxplot()
sex vs. earn

```
ggplot(heights_df, aes(x=sex, y=earn)) + geom_point()+ geom_boxplot()
```



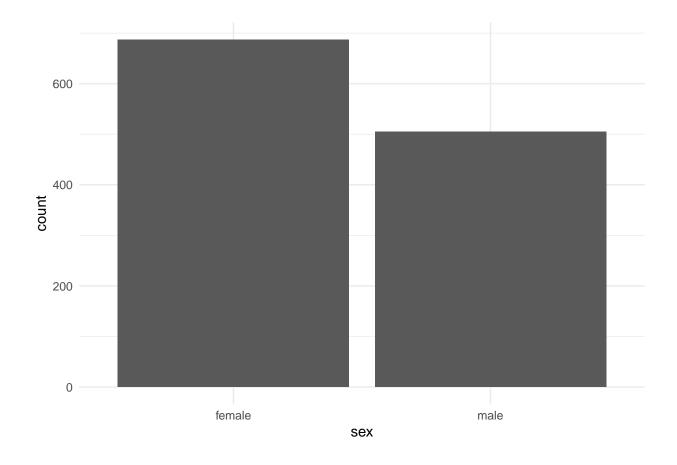
##race vs. earn

ggplot(heights_df, aes(x=race, y=earn)) + geom_point()+ geom_boxplot()



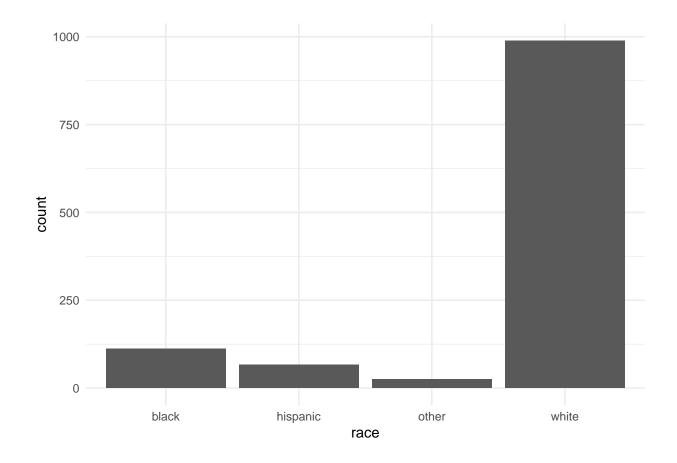
Using geom_bar() plot a bar chart of the number of records for each sex

```
ggplot(heights_df, aes(sex)) + geom_bar()
```



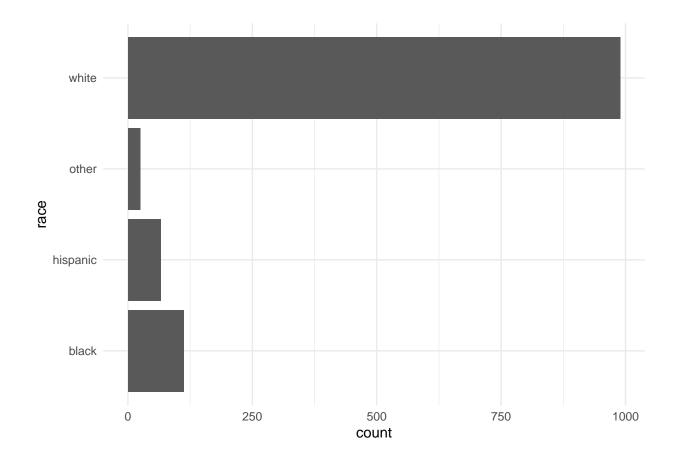
Using geom_bar() plot a bar chart of the number of records for each race

```
ggplot(heights_df, aes(race)) + geom_bar()
```



Create a horizontal bar chart by adding <code>coord_flip()</code> to the previous plot

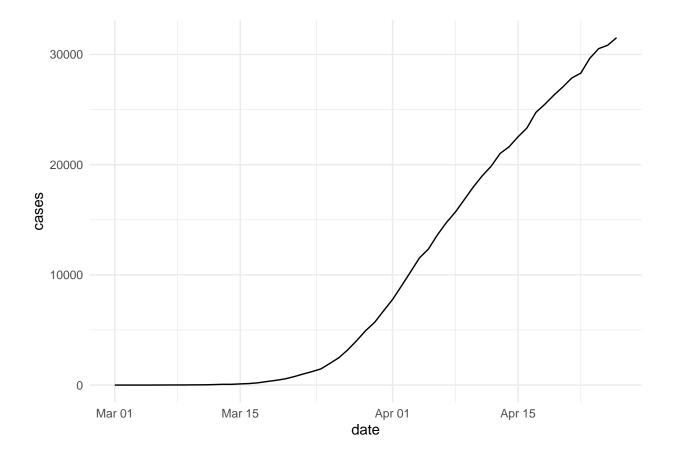
```
ggplot(heights_df, aes(race)) + geom_bar() + coord_flip()
```



Load the file "data/nytimes/covid-19-data/us-states.csv" and assign it to the covid_df dataframe

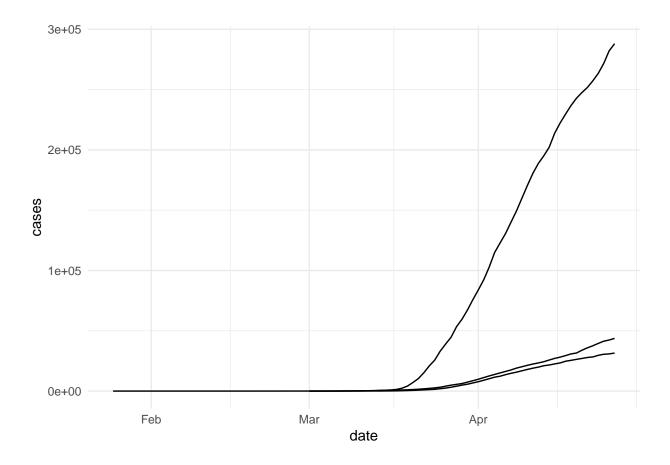
Plot the number of cases in Florida using geom_line()

```
ggplot(data=florida_df, aes(x=date, y=cases, group=1)) + geom_line()
```



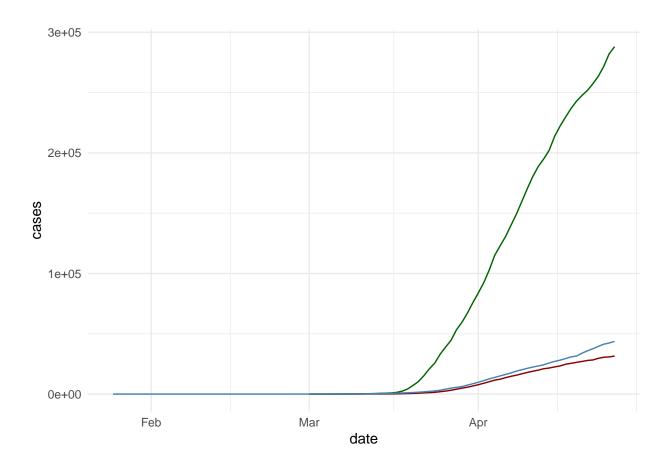
Add lines for New York and California to the plot

```
ggplot(data=florida_df, aes(x=date, group=1)) +
  geom_line(aes(y = cases)) +
  geom_line(data=california_df, aes(y = cases)) +
  geom_line(data=ny_df, aes(y = cases))
```



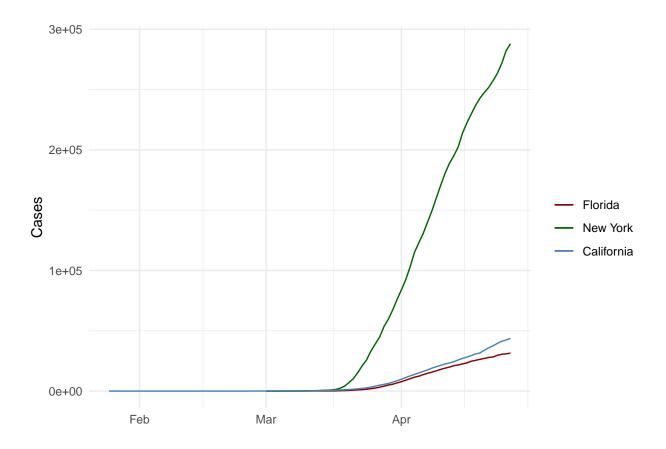
Use the colors "darkred", "darkgreen", and "steelblue" for Florida, New York, and California

```
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")
```



Add a legend to the plot using scale_colour_manual

Add a blank (" ") label to the x-axis and the label"Cases" to the y axis



Scale the y axis using scale_y_log10()

