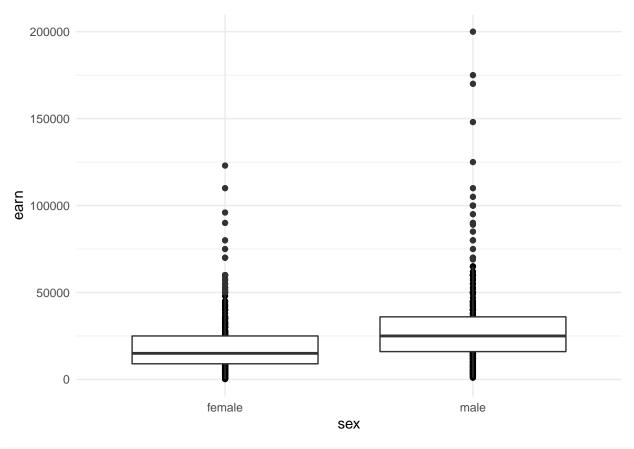
## $assignmnet\_04\_VidyasagarKummarikunta.R$

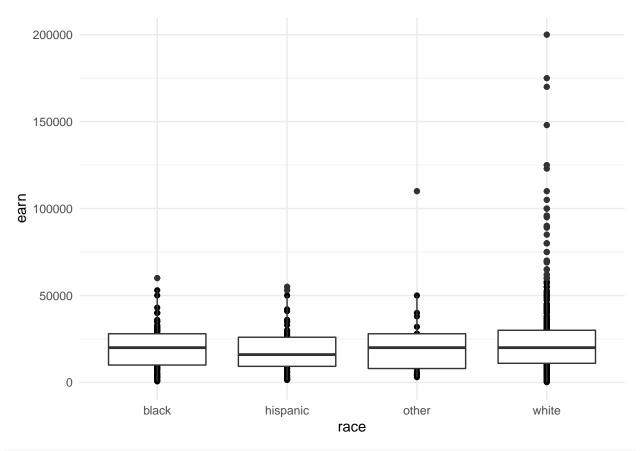
## 12702

## 2020-09-25

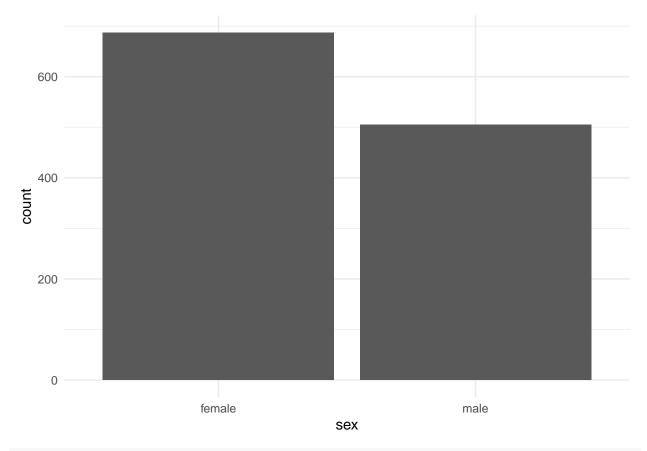
```
# Assignment: ASSIGNMENT 4
# Name: Kummarikunta, vidyasagar
# Date: 2020-09-25
## Load the ggplot2 package
library(ggplot2)
theme_set(theme_minimal())
## Set the working directory to the root of your DSC 520 directory
setwd("/Users/12702/Desktop/MODatascience/DSC-520")
## Load the 'data/r4ds/heights.csv' to
heights_df <- read.csv("data/r4ds/heights.csv")
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()
```



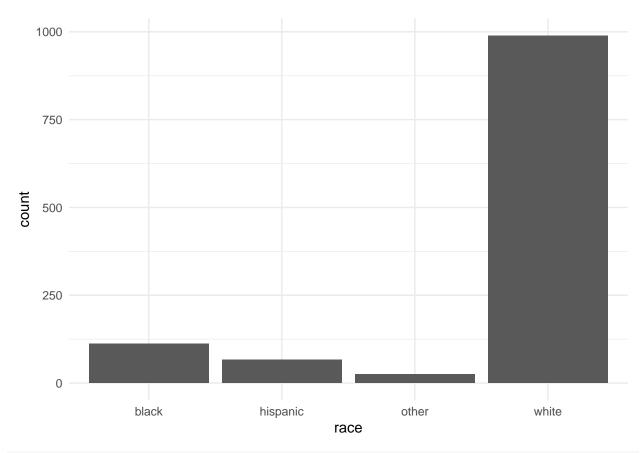
```
## race vs. earn
ggplot(heights_df, aes(x=race, y=earn)) + geom_point()+ geom_boxplot()
```



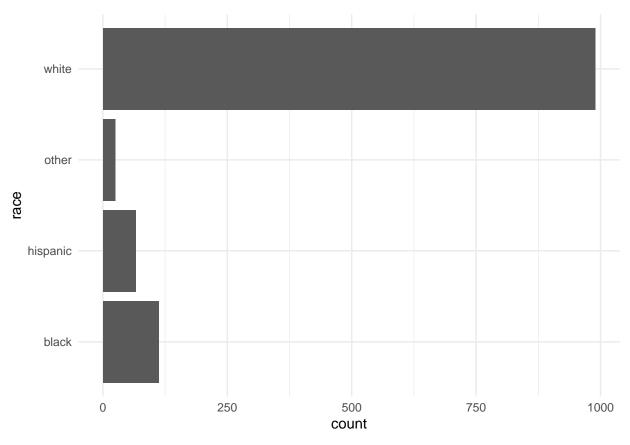
```
# https://ggplot2.tidyverse.org/reference/geom_bar.html
## Using 'geom_bar()' plot a bar chart of the number of records for each 'sex'
ggplot(heights_df, aes(sex)) + geom_bar()
```



## 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 'coord\_flip()' to the previous plot
ggplot(heights\_df, aes(race)) + geom\_bar() + coord\_flip()

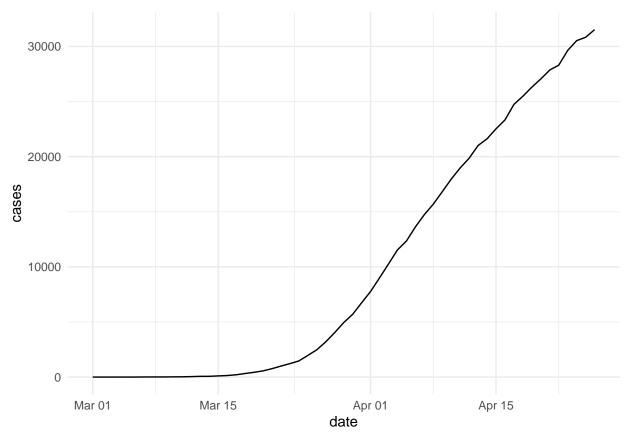


```
# https://www.rdocumentation.org/packages/ggplot2/versions/3.3.0/topics/geom_path
## Load the file '"data/nytimes/covid-19-data/us-states.csv"' and
## assign it to the 'covid_df' dataframe
covid_df <- read.csv("data/nytimes/covid-19-data/us-states.csv")

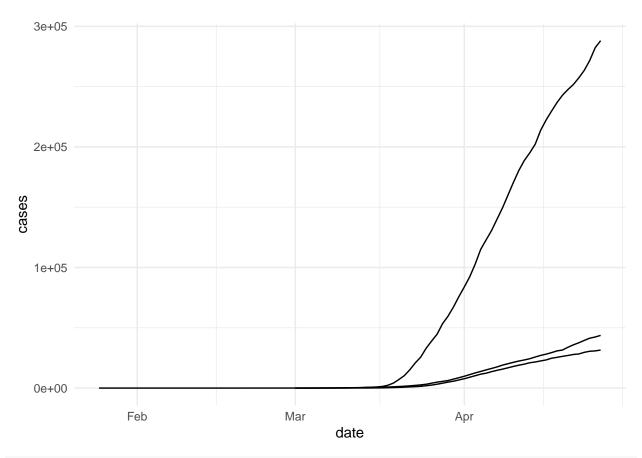
## Parse the date column using 'as.Date()''
covid_df$date <- as.Date(covid_df$date)

## 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$state == "California"), ]
ny_df <- covid_df[which(covid_df$state == "New York"), ]
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()</pre>
```



```
## 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" , size =2) +
  geom_line(data=ny_df, aes(y = cases), color= "darkgreen", size =2) +
  geom_line(data=california_df, aes(y = cases), color="steelblue", size =2)
```

