## $assignment\_04\_BrownLincoln.R$

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## 2021-07-18

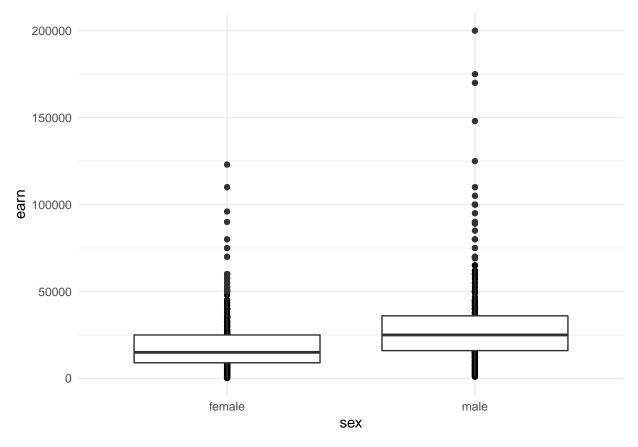
```
# Assignment: ASSIGNMENT 4
# Name: Brown, Lincoln
# Date: 2021-07-16

## Load the ggplot2 package
library(ggplot2)
theme_set(theme_minimal())

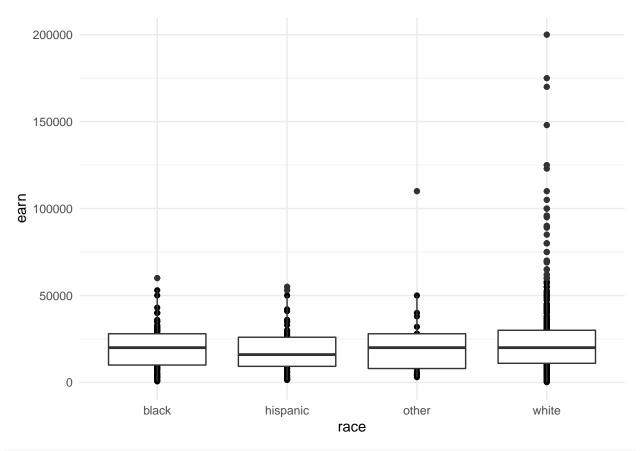
## Set the working directory to the root of your DSC 520 directory
setwd("/media/x/disk/School/DSC520/git/dsc520/")

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

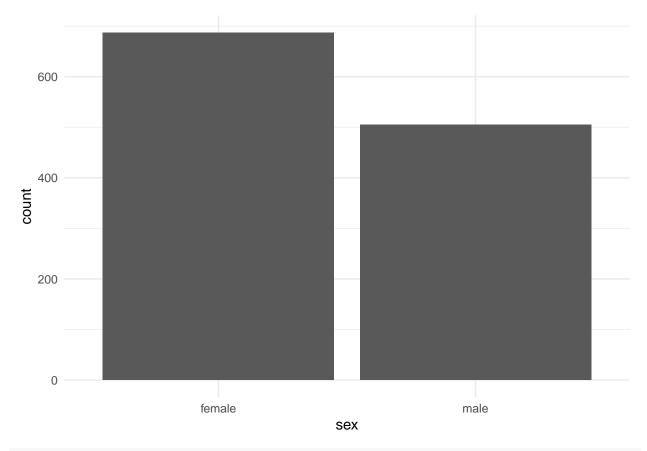
# https://ggplot2.tidyverse.org/reference/geom_boxplot.html
## Create boxplots of sex vs. earn and race vs. earn using `geom_point()` and `geom_boxplot()`
## sex vs. earn
ggplot(heights_df, aes(x=sex, y=earn)) + geom_point()+ geom_boxplot()</pre>
```



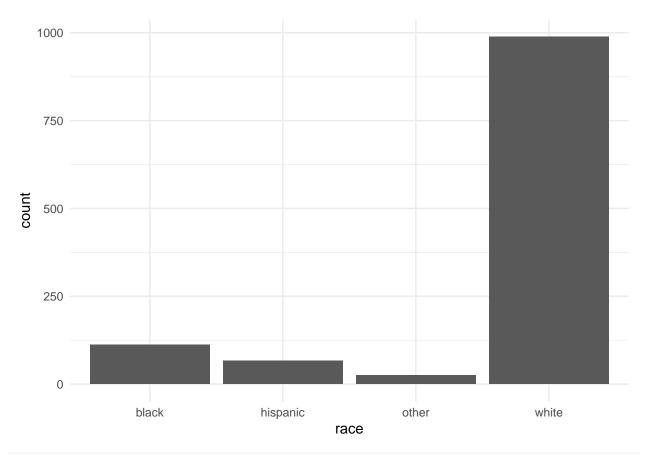
## race vs. earn
ggplot(heights\_df, aes(x=race, y=earn)) + geom\_point()+ geom\_boxplot()



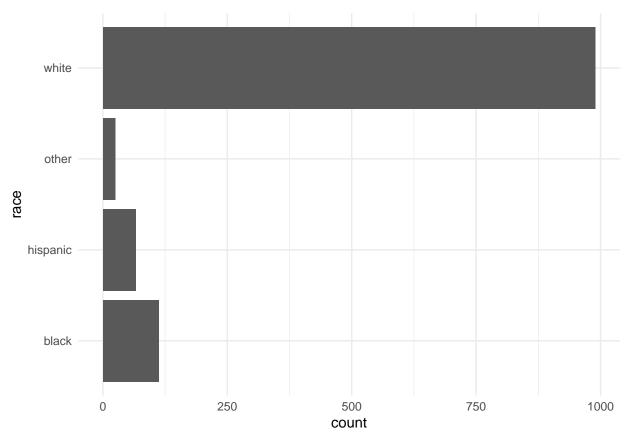
# https://ggplot2.tidyverse.org/reference/geom\_bar.html
## Using `geom\_bar()` plot a bar chart of the number of records for each `sex`
ggplot(heights\_df, aes(sex)) + geom\_bar()



## 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()

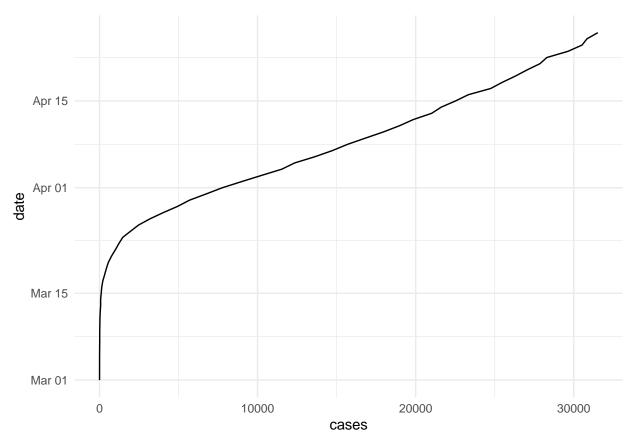


```
# https://www.rdocumentation.org/packages/ggplot2/versions/3.3.0/topics/geom_path
## Load the file `"data/nytimes/covid-19-data/us-states.csv"` and
## assign it to the `covid_df` dataframe
covid_df <- read.csv("data/nytimes/covid-19-data/us-states.csv")

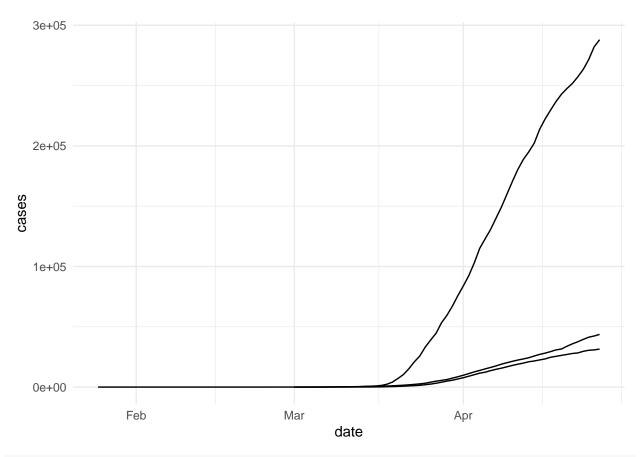
## Parse the date column using `as.Date()``
covid_df$date <- as.Date(covid_df$date)

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

