The results below are generated from an R script.

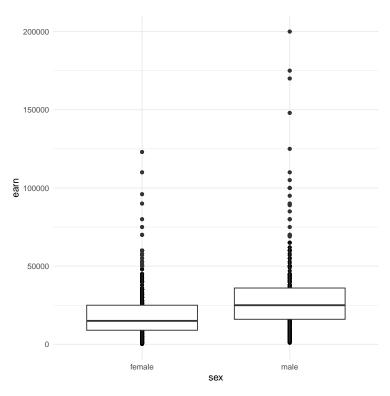
```
# Assignment: ASSIGNMENT 6
# Name: Reppeto, Reppeto
# Date: 2023-07-14

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

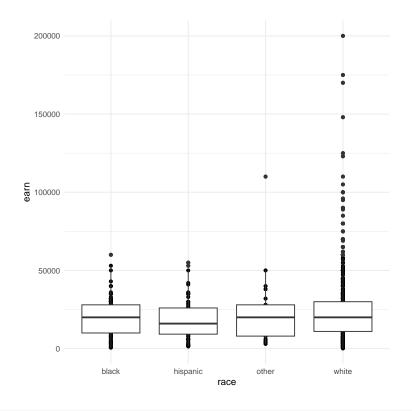
## Set the working directory to the root of your DSC 520 directory
setwd("~/DSC520/dsc520")

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

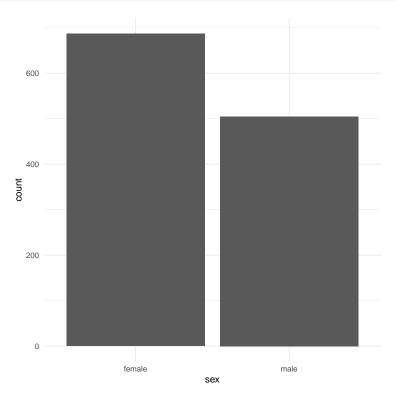
# https://ggplot2.tidyverse.org/reference/geom_boxplot.html
## Create boxplots of sex vs. earn and race vs. earn using `geom_point()` and `geom_boxplot()`
## sex vs. earn
ggplot(heights_df, aes(x=sex, y=earn)) + geom_point()+ geom_boxplot()</pre>
```



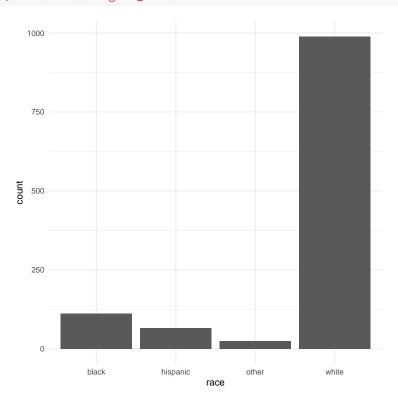
```
## race vs. earn
ggplot(heights_df, aes(x=race, y=earn)) + geom_point()+ geom_boxplot()
```



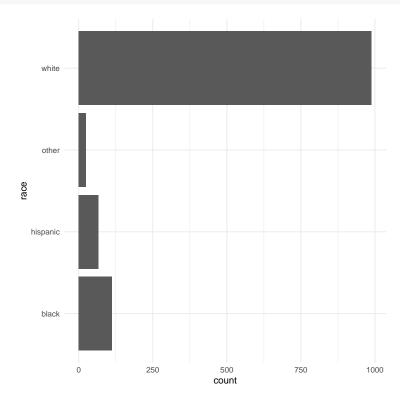
https://ggplot2.tidyverse.org/reference/geom_bar.html
Using `geom_bar()` plot a bar chart of the number of records for each `sex`
ggplot(heights_df, aes(sex)) + geom_bar()



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()



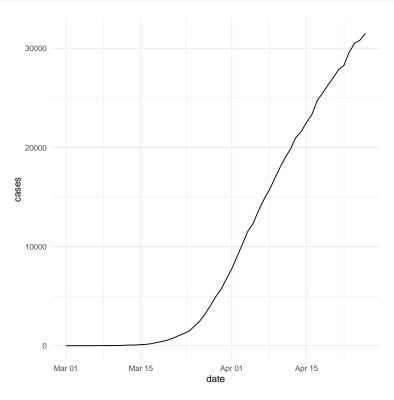
```
# https://www.rdocumentation.org/packages/ggplot2/versions/3.3.0/topics/geom_path
## Load the file `"data/nytimes/covid-19-data/us-states.csv"` and
## assign it to the `covid_df` dataframe
covid_df <- read.csv("data/nytimes/covid-19-data/us-states.csv")

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

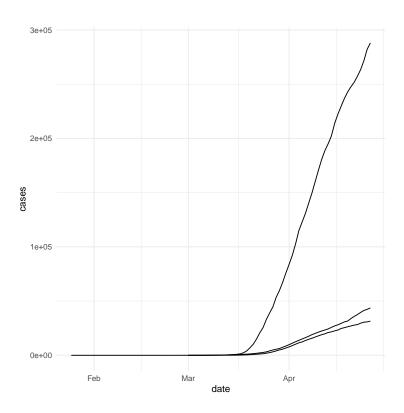
## Create three dataframes named `california_df`, `ny_df`, and `florida_df`
## containing the data from California, New York, and Florida
california_df <- covid_df[which( covid_df$state == "California"), ]
ny_df <- covid_df[covid_df$state == "New York", ]
florida_df <- covid_df[covid_df$state == "Florida", ]

#View(ny_df)

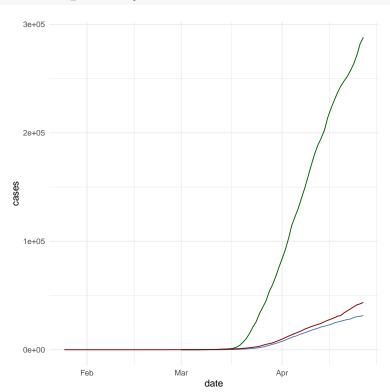
## Plot the number of cases in Florida using `geom_line()`
ggplot(data=florida_df, aes(x=date, y=cases, group=1)) + geom_line()</pre>
```

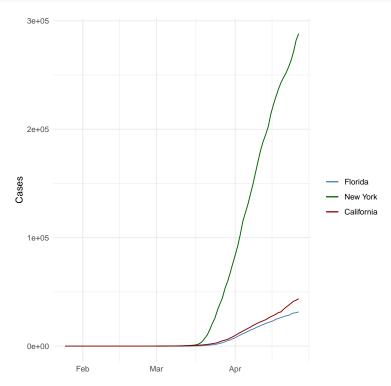


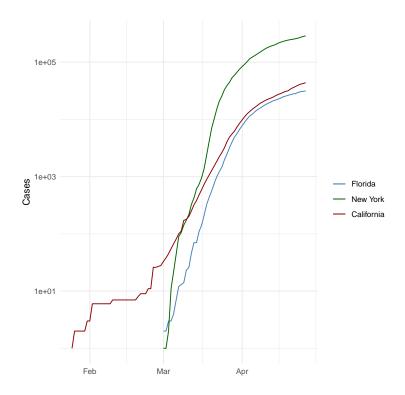
```
## Add lines for New York and California to the plot
ggplot(data=florida_df, aes(x=date, group=1)) +
  geom_line(aes(y = cases)) +
  geom_line(data=california_df , aes(y = cases)) +
  geom_line(data=ny_df, aes(y = cases))
```



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







The R session information (including the OS info, R version and all packages used):

```
sessionInfo()
## R version 4.3.0 (2023-04-21)
## Platform: aarch64-apple-darwin20 (64-bit)
## Running under: macOS Ventura 13.4.1
## Matrix products: default
## BLAS: /System/Library/Frameworks/Accelerate.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/Versions/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/A/Framework/
## LAPACK: /Library/Frameworks/R.framework/Versions/4.3-arm64/Resources/lib/libRlapack.dylib; LAPACK versions/4.3-arm64/Resources/lib/libRlapack.dylib; LAPACK versions/4.3-arm64/Resources/lib/libRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlapack.dylibRlap
## locale:
## [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
##
## time zone: America/New_York
## tzcode source: internal
##
## attached base packages:
                                                                          graphics grDevices utils
## [1] stats
                                                                                                                                                                                                            datasets methods
                                                                                                                                                                                                                                                                                                     base
##
## other attached packages:
## [1] pandoc_0.1.0 knitr_1.43
                                                                                                                                                       tinytex_0.45 readr_2.1.4
##
## loaded via a namespace (and not attached):
## [1] gtable_0.3.3
                                                                                                            dplyr_1.1.2
                                                                                                                                                                                       compiler_4.3.0
                                                                                                                                                                                                                                                                                                                                            tidyselect_1.2.0
                                                                                                                                                                                                                                                                highr_0.10
## [6] scales_1.2.1
                                                                                                            yaml_2.3.7
                                                                                                                                                                                                                                                                R6_2.5.1
                                                                                                                                                                                                                                                                                                                                            labeling_0.4.2
                                                                                                                                                                                       fastmap_1.1.1
## [11] generics_0.1.3 tibble_3.2.1
                                                                                                                                                                                                                                                                                                                                            tzdb_0.4.0
                                                                                                                                                                                       munsell_0.5.0
                                                                                                                                                                                                                                                                pillar_1.9.0
## [16] rlang_1.1.1
                                                                                                            utf8_1.2.3
                                                                                                                                                                                       xfun_0.39
                                                                                                                                                                                                                                                                fs_1.6.2
                                                                                                                                                                                                                                                                                                                                            cli_3.6.1
## [21] withr_2.5.0
                                                                                                                                                                                       digest_0.6.31
                                                                                                                                                                                                                                                                  grid_4.3.0
                                                                                                                                                                                                                                                                                                                                            rstudioapi_0.14
                                                                                                            magrittr_2.0.3
## [26] rappdirs_0.3.3
                                                                                                                                                                                       lifecycle_1.0.3 vctrs_0.6.3
                                                                                                                                                                                                                                                                                                                                            evaluate_0.21
                                                                                                       hms_1.1.3
```