## assignment\_04\_Torres\_Gloria.R

## 2023-04-22

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# Assignment: ASSIGNMENT 4
# Name: Torres, Gloria
# Date: 2023-04-23

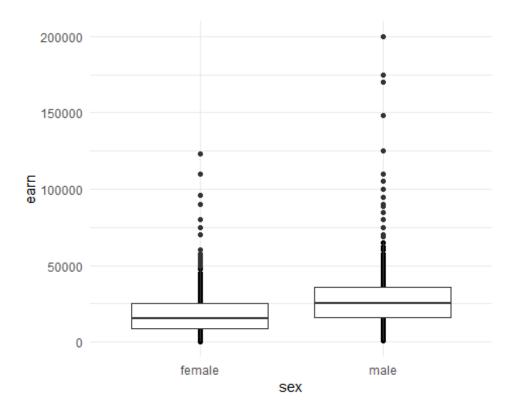
### Load the ggplot2 package
library(ggplot2)
theme_set(theme_minimal())

## Set the working directory to the root of your DSC 520 directory

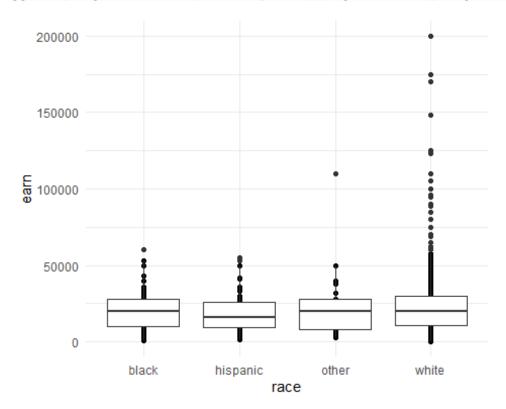
setwd('C:/Users/glori/OneDrive/Documents/Gloria GIT/Gloria_Torres_DSC_520')

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

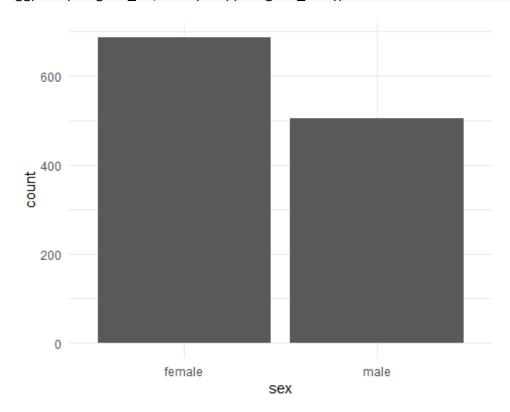
## https://ggplot2.tidyverse.org/reference/geom_boxplot.html
## Create boxplots of sex vs. earn and race vs. earn using `geom_point()` and `geom_boxplot()`
## sex vs. earn
ggplot(heights_df, aes(x=sex, y=earn)) + geom_point() + geom_boxplot()</pre>
```



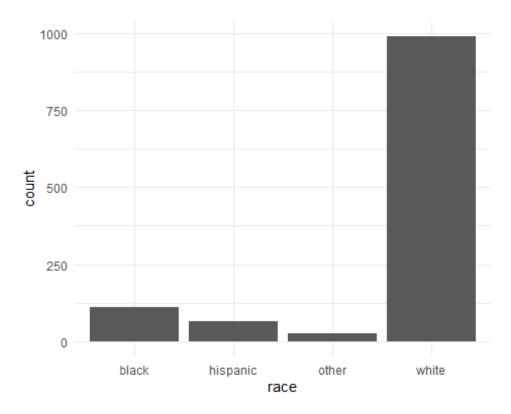
## race vs. earn
ggplot(heights\_df, aes(x=race, y=earn)) +geom\_point() + geom\_boxplot()



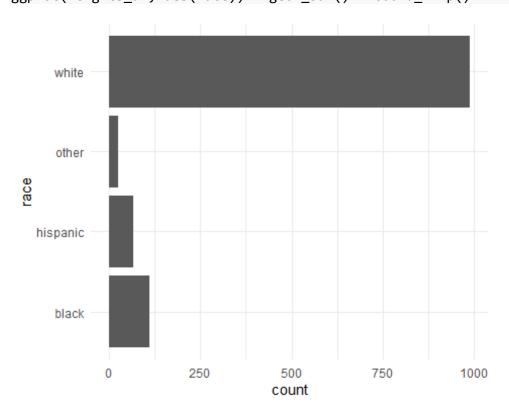
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## https://ggplot2.tidyverse.org/reference/geom_bar.html
## Using `geom_bar()` plot a bar chart of the number of records for each
`sex`
ggplot(heights_df, aes(sex)) + geom_bar()
```



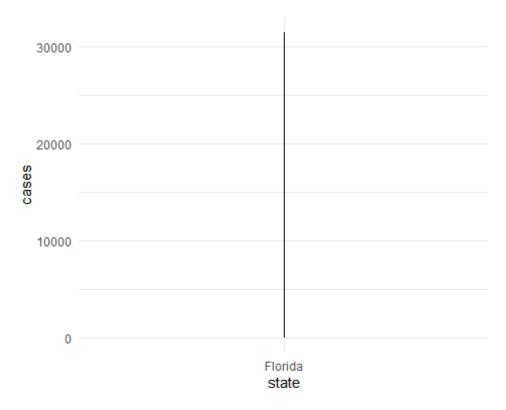
## Using `geom\_bar()` plot a bar chart of the number of records for each race
ggplot(heights\_df, aes(race)) + geom\_bar()



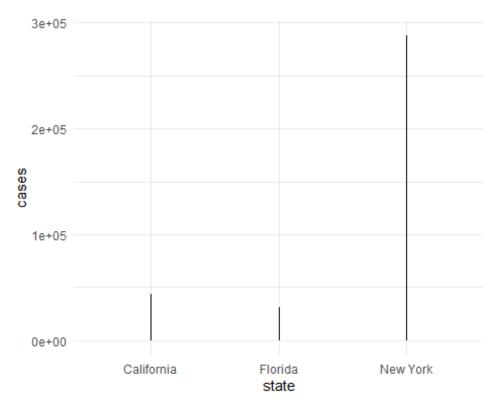
## Create a horizontal bar chart by adding `coord\_flip()` to the previous
plot
ggplot(heights\_df, aes(race)) + geom\_bar() + coord\_flip()



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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>
## Parse the date column using `as.Date()``
covid_df$date <- as.Date(c(covid_df$date))</pre>
head(covid df$date)
## [1] "2020-01-21" "2020-01-22" "2020-01-23" "2020-01-24" "2020-01-24"
## [6] "2020-01-25"
## Create three dataframes named `california_df`, `ny_df`, and `florida_df`
## containing the data from California, New York, and Florida
california_df <- covid_df[ which( covid_df$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=state, y=cases, group=1)) + geom line()
```



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## Add lines for New York and California to the plot
ggplot(data=florida_df,aes(x=state, 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=state, 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")
```

