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# Assignment: ASSIGNMENT 3
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Name: Anjale, Jiteshwar

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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/anjal/OneDrive/Desktop/MS/DSC520/dsc520')

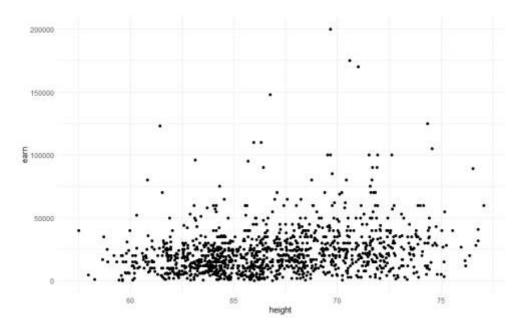
Load the `data/r4ds/heights.csv` to
heights_df <- read.csv("data/r4ds/heights.csv")</pre>

 ${\tt\#\,https://ggplot2.tidyverse.org/reference/geom_point.html}$

Using `geom_point()` create three scatterplots for

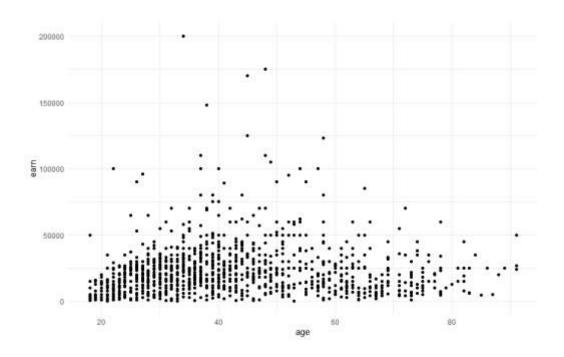
`height` vs. `earn`

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

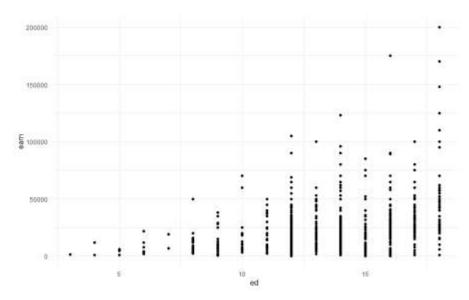


'age' vs. 'earn'

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

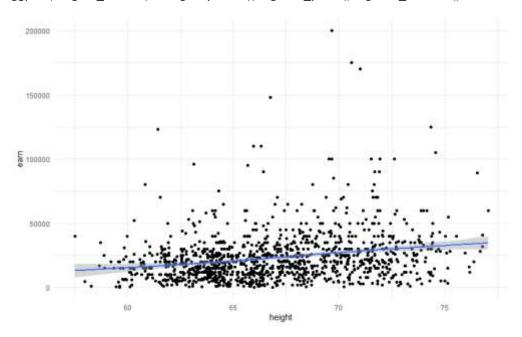


`ed` vs. `earn`
ggplot(heights_df, aes(x=ed, y=earn)) + geom_point()

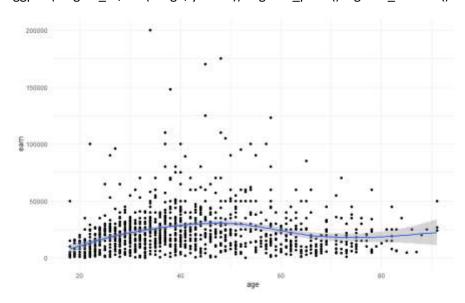


Re-create the three scatterplots and add a regression trend line using
the `geom_smooth()` function
`height` vs. `earn`

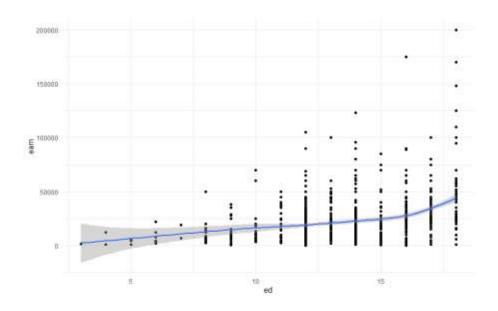
ggplot(heights_df, aes(x=height, y=earn)) + geom_point() + geom_smooth()



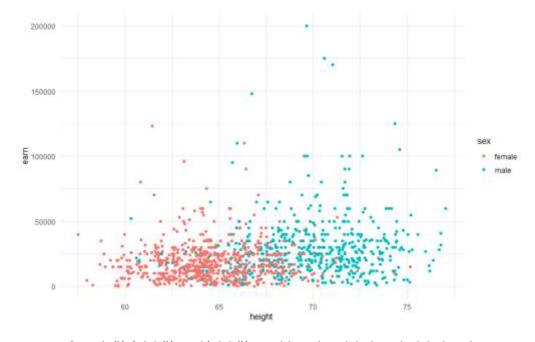
`age` vs. `earn`
ggplot(heights_df, aes(x=age, y=earn)) + geom_point() + geom_smooth()



'ed' vs. 'earn'
ggplot(heights_df, aes(x=ed, y=earn)) + geom_point() + geom_smooth()



Create a scatterplot of `height`` vs. `earn`. Use `sex` as the `col` (color) attribute ggplot(heights_df, aes(x=height, y=earn, col=sex)) + geom_point()



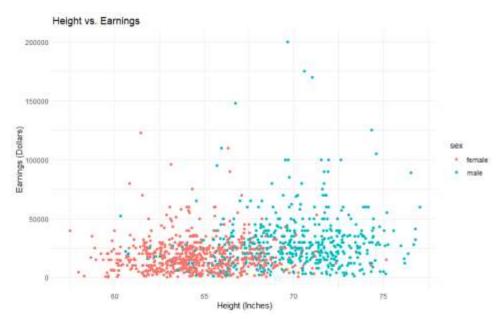
Using `ggtitle()`, `xlab()`, and `ylab()` to add a title, x label, and y label to the previous plot

Title: Height vs. Earnings

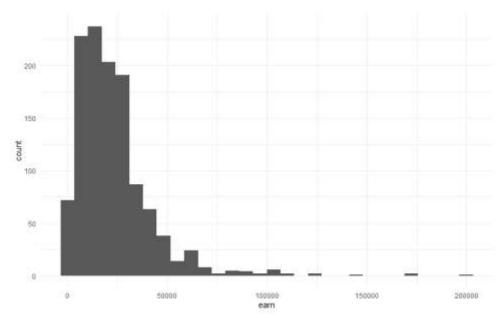
X label: Height (Inches)

Y Label: Earnings (Dollars)

ggplot(heights_df, aes(x=height, y=earn, col=sex)) + geom_point() + ggtitle("Height vs. Earnings") +
xlab("Height (Inches)") +ylab("Earnings (Dollars)")

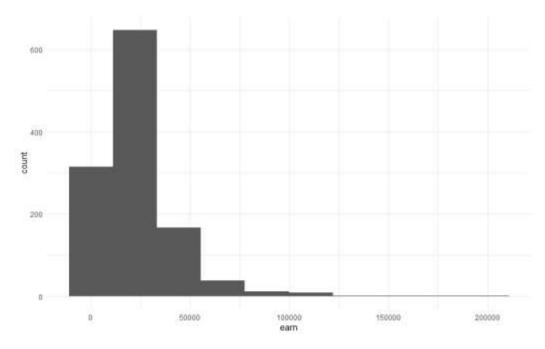


https://ggplot2.tidyverse.org/reference/geom_histogram.html
Create a histogram of the `earn` variable using `geom_histogram()`
ggplot(heights_df, aes(earn))+ geom_histogram()



Create a histogram of the `earn` variable using `geom_histogram()`
Use 10 bins

ggplot(heights_df, aes(earn)) + geom_histogram(bins = 10)



https://ggplot2.tidyverse.org/reference/geom_density.html
Create a kernel density plot of `earn` using `geom_density()`
ggplot(heights_df, aes(earn)) + geom_density()

