ASSIGNMENT 3

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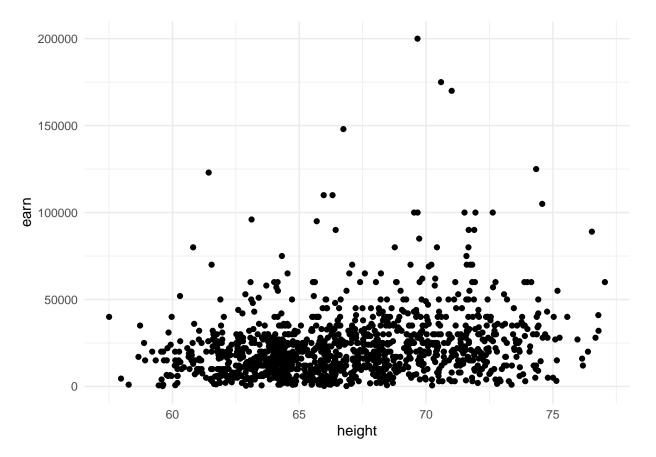
2022-06-22

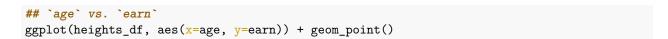
```
## Load the ggplot2 package
library(ggplot2)
theme_set(theme_minimal())

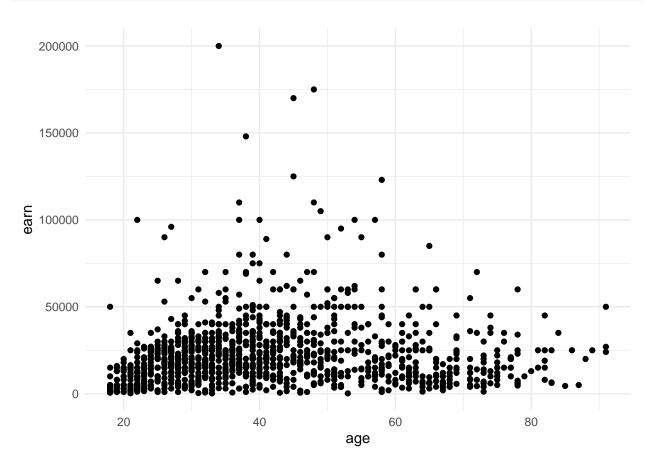
## Set the working directory to the root of your DSC 520 directory
setwd("C:\\Users\\desaTuration\\OneDrive - Bellevue University\\DSC520-T301 Statistics for Data Science

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

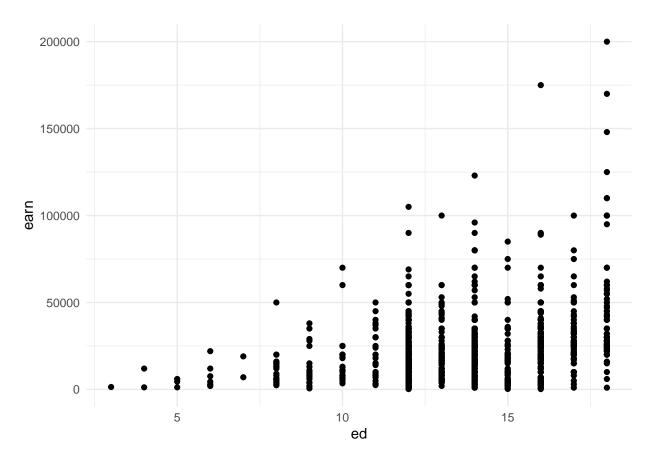
# https://ggplot2.tidyverse.org/reference/geom_point.html
## Using `geom_point()` create three scatterplots for
## `height` vs. `earn`
ggplot(heights_df, aes(x=height, y=earn)) + geom_point()</pre>
```





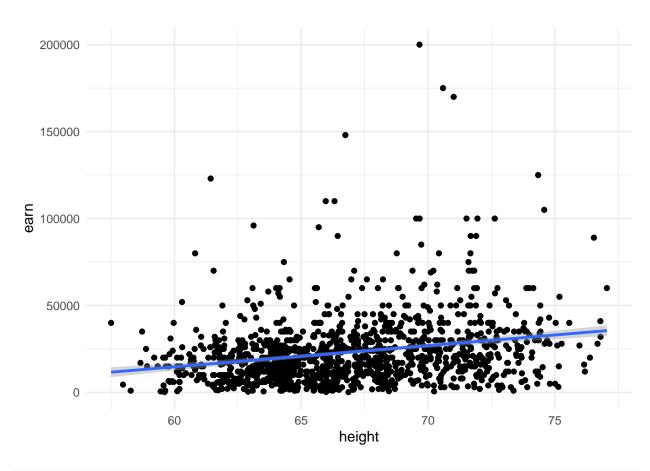


'ed' vs. 'earn'
ggplot(heights_df, aes(x=ed, y=earn)) + geom_point()



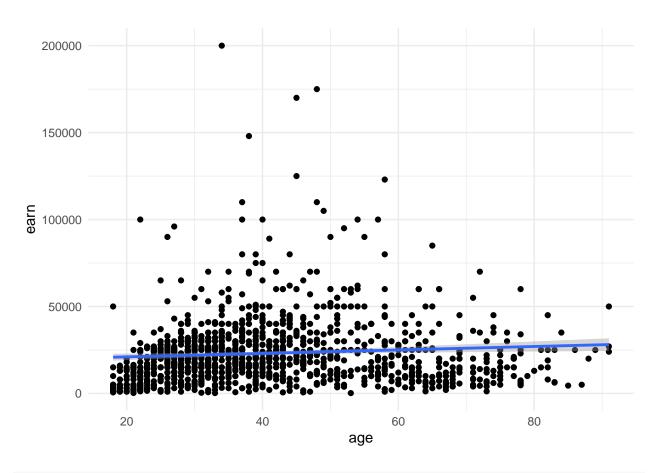
```
## Re-create the three scatterplots and add a regression trend line using
## the `geom_smooth()` function
## `height` vs. `earn`
ggplot(heights_df, aes(x=height, y=earn)) + geom_point() + geom_smooth(method = lm)
```

'geom_smooth()' using formula 'y ~ x'



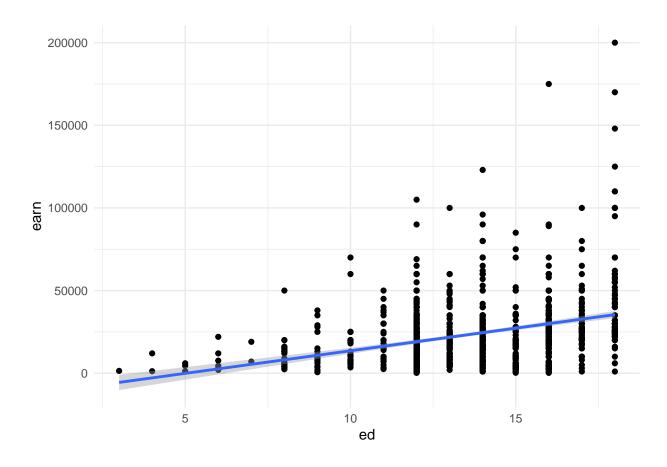
```
## `age` vs. `earn`
ggplot(heights_df, aes(x=age, y=earn)) + geom_point() + geom_smooth(method = lm)
```

'geom_smooth()' using formula 'y ~ x'

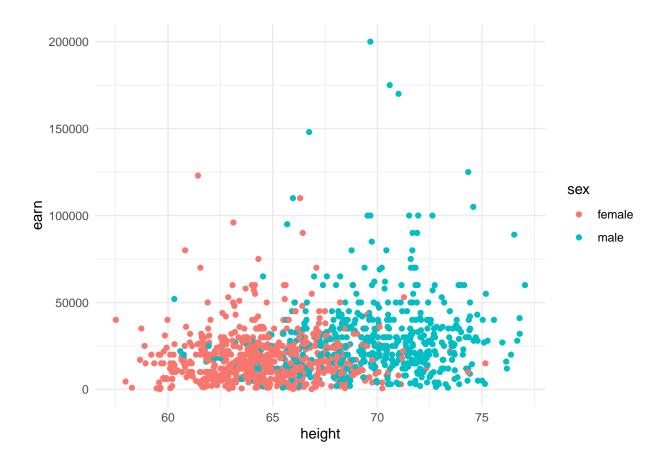


```
## `ed` vs. `earn`
ggplot(heights_df, aes(x=ed, y=earn)) + geom_point() + geom_smooth(method = lm)
```

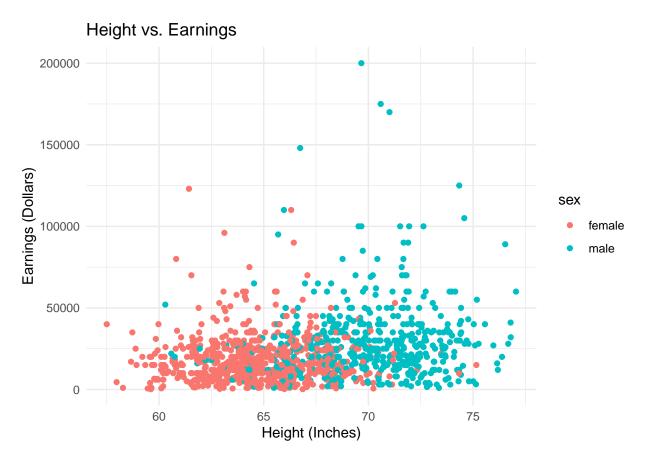
'geom_smooth()' using formula 'y ~ x'



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()

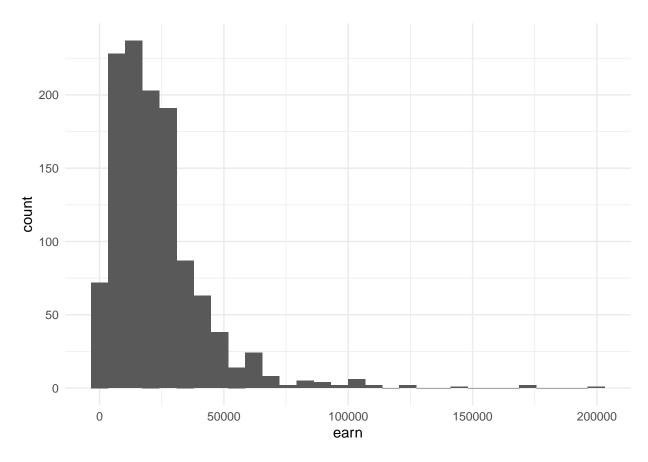


```
## Using `ggtitle()`, `xlab()`, and `ylab()` to add a title, x label, and y label to the previous plot
## Title: Height vs. Earnings
## X label: Height (Inches)
## Y Label: Earnings (Dollars)
ggplot(heights_df, aes(x=height, y=earn, col=sex)) + geom_point() + ggtitle("Height vs. Earnings") + xl
```

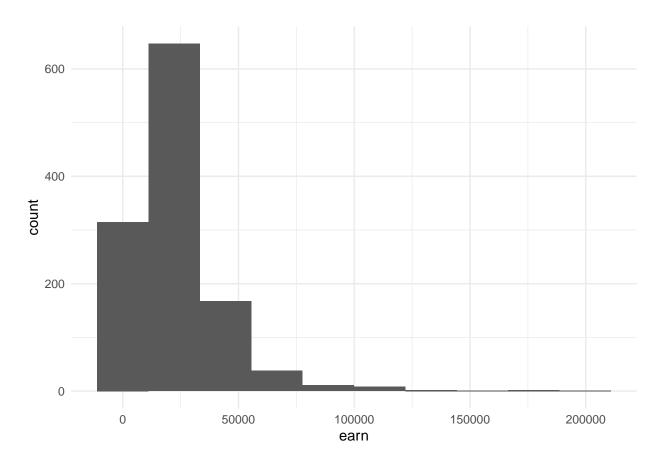


```
# https://ggplot2.tidyverse.org/reference/geom_histogram.html
## Create a histogram of the `earn` variable using `geom_histogram()`
ggplot(heights_df, aes(earn)) + geom_histogram()
```

'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.



```
## 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()

