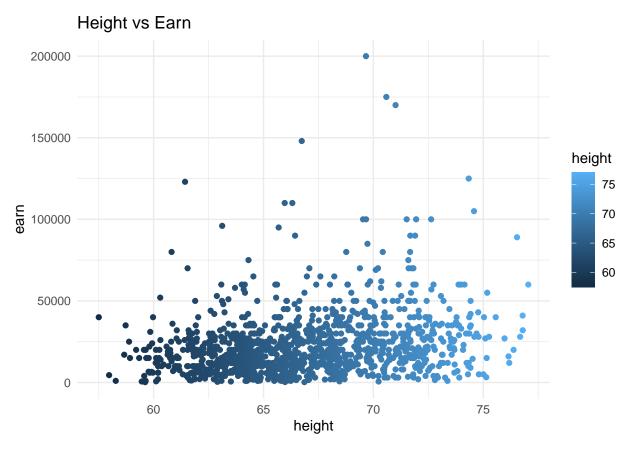
assignment_03_KummarikuntaVidyasagar.R

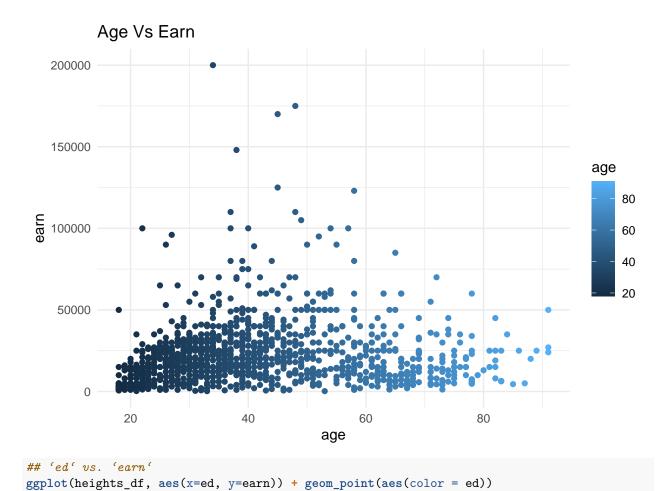
12702

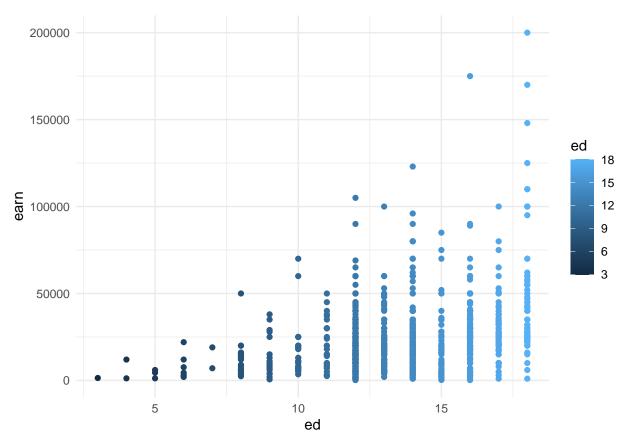
2020-09-18

```
# Assignment: ASSIGNMENT 3
# Name: Kummarikunta, Vidyasagar
# Date: 2010-02-14
## Load the ggplot2 package
library(ggplot2)
theme_set(theme_minimal())
## Set the working directory to the root of your DSC 520 directory
setwd("/Users/12702/Desktop/MODatascience/DSC-520")
## Load the 'data/r4ds/heights.csv' to
heights_df <- read.csv("data/r4ds/heights.csv")</pre>
head(heights_df)
##
      earn
            height
                      sex ed age race
## 1 50000 74.42444
                    male 16 45 white
## 2 60000 65.53754 female 16 58 white
## 3 30000 63.62920 female 16 29 white
## 4 50000 63.10856 female 16 91 other
## 5 51000 63.40248 female 17 39 white
## 6 9000 64.39951 female 15 26 white
# 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(aes(color = height)) +
           title = "Height vs Earn"
```



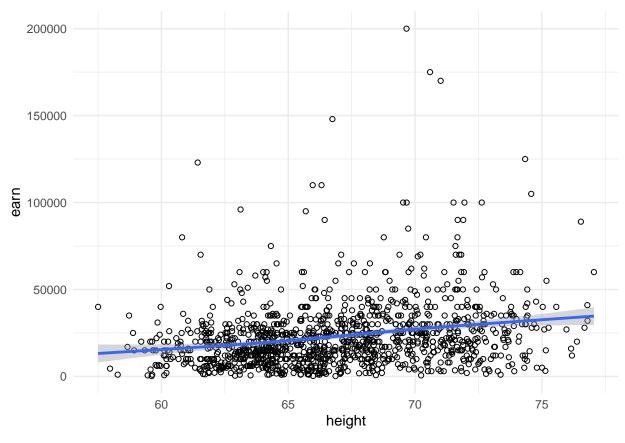
```
## 'age' vs. 'earn'
ggplot(heights_df, aes(x= age, y= earn)) + geom_point(aes(color = age)) +
    labs(
        title = "Age Vs Earn"
)
```





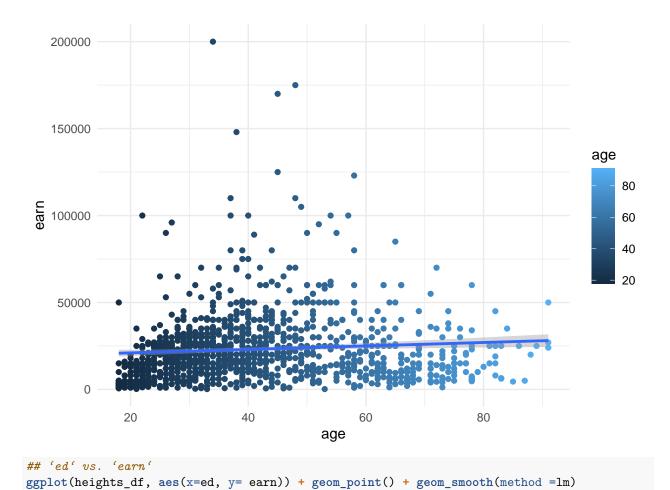
```
## Re-create the three scatterplots and add a regression trend line using
## the 'geom_smooth()' function
## 'height' vs. 'earn'
ggplot(heights_df, aes(x=height, y= earn)) + geom_point(shape = 1) + geom_smooth()
```

'geom_smooth()' using method = 'gam' and formula 'y ~ s(x, bs = "cs")'

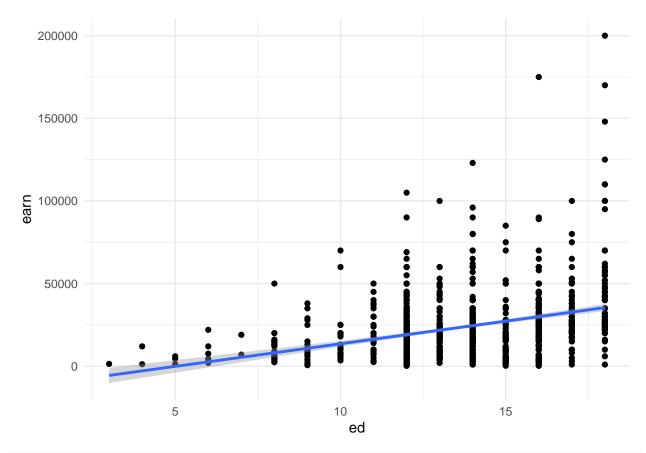


```
## 'age' vs. 'earn'
ggplot(heights_df, aes(x=age, y= earn)) + geom_point(aes(color = age)) +
geom_smooth(method = lm)
```

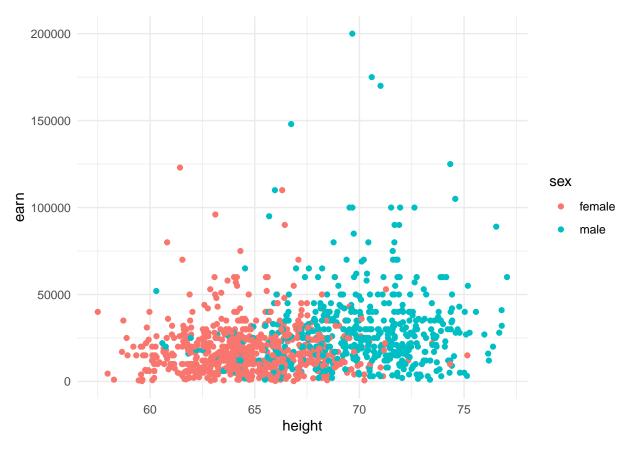
'geom_smooth()' using formula 'y ~ x'

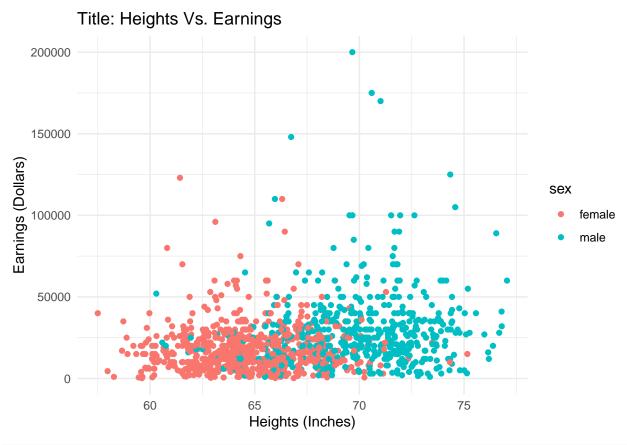


'geom_smooth()' using formula 'y ~ x'



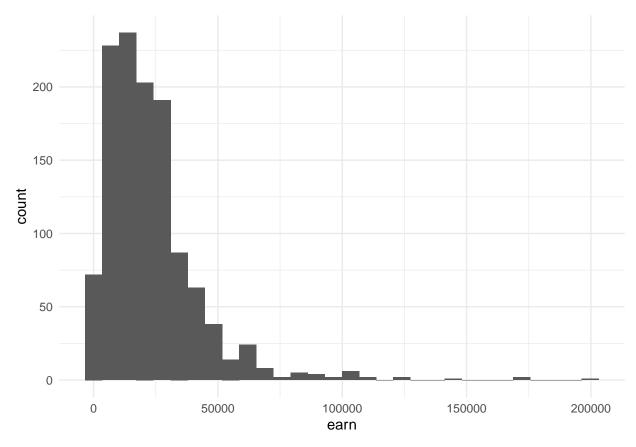
Create a scatterplot of 'height'' vs. 'earn'. Use 'sex' as the 'col' (color) attribute
ggplot(heights_df, aes(x=height, y= earn, col=sex)) + geom_point()





https://ggplot2.tidyverse.org/reference/geom_histogram.html
Create a histogram of the 'earn' variable using 'geom_histogram()'
ggplot(heights_df, aes(x=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(x = earn)) + geom_histogram(bins = 10)
```

