assignment03_Torres_Gloria.R

glori

2023-04-02

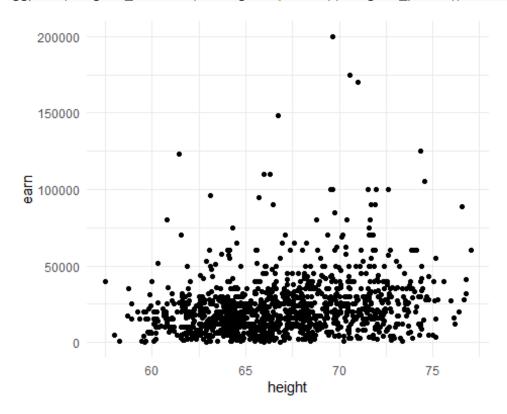
```
# Assignment: ASSIGNMENT 3
# Name: Torres, Estrada
# Date: 2023-03-29

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

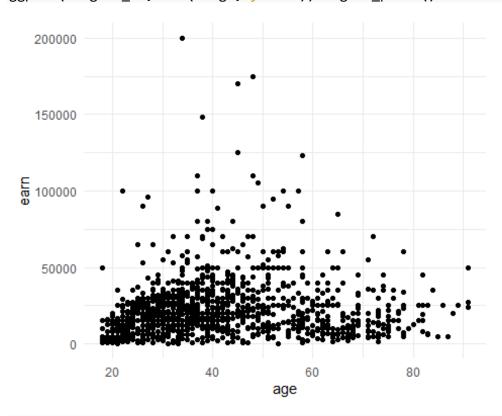
## Set the working directory to the root of your DSC 520 directory
setwd('C:/Users/glori/OneDrive/Documents/Gloria GIT/Gloria_Torres_DSC_520')

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

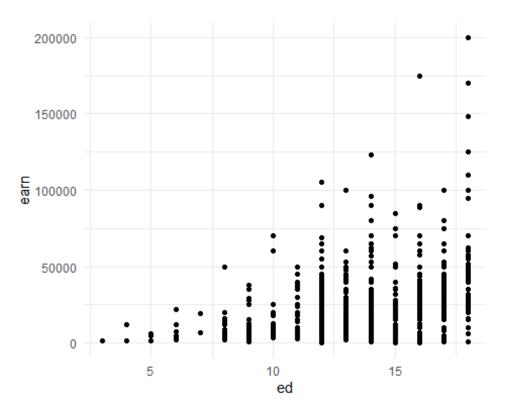
# https://ggplot2.tidyverse.org/reference/geom_point.html
## Using `geom_point()` create three scatterplots for
## height` vs. `earn`
ggplot(heights_df, aes(x=height, y=earn)) + geom_point()</pre>
```



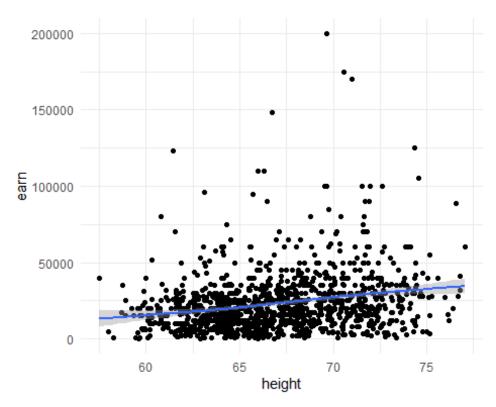
```
## `age` vs. `earn`
ggplot(heights_df, aes(x=age, y=earn)) + geom_point()
```



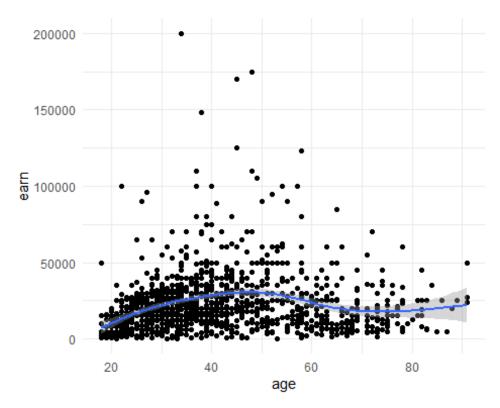
`ed` vs. `earn`
ggplot(heights_df, aes(x=ed, y=earn)) + geom_point()



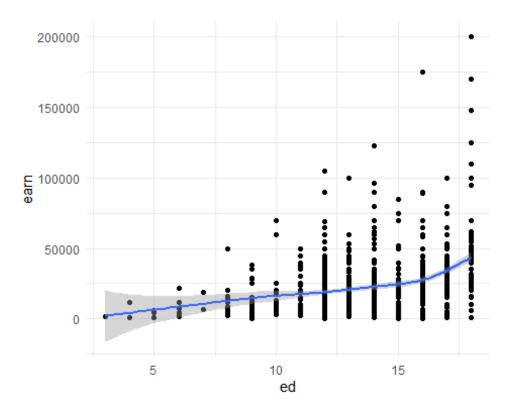
```
## Re-create the three scatterplots and add a regression trend line using
## the `geom_smooth()` function
## `height` vs. `earn`
ggplot(heights_df, aes(x=height, y=earn)) + geom_point() + geom_smooth()
## `geom_smooth()` using method = 'gam' and formula = 'y ~ s(x, bs = "cs")'
```



```
## `age` vs. `earn`
ggplot(heights_df, aes(x=age, y=earn)) + geom_point() + geom_smooth()
## `geom_smooth()` using method = 'gam' and formula = 'y ~ s(x, bs = "cs")'
```



```
## `ed` vs. `earn`
ggplot(heights_df, aes(x=ed, y=earn)) + geom_point() + geom_smooth()
## `geom_smooth()` using method = 'gam' and formula = 'y ~ s(x, bs = "cs")'
```



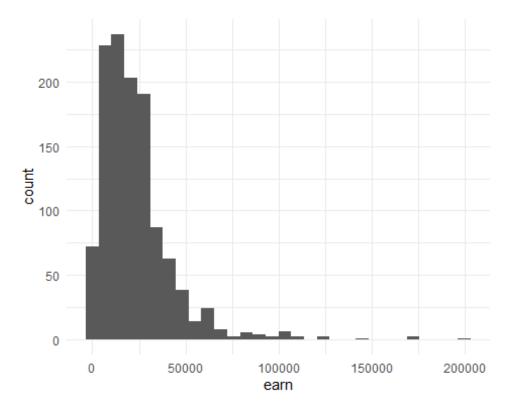
Create a scatterplot of `height`` vs. `earn`. Use `sex` as the `col`
(color) attribute
ggplot(heights_df, aes(x=height, y=earn, col=sex)) + geom_point()



```
## 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()
## `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)

