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# Assignment: ASSIGNMENT 3-1
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# Date: 2022-12-14
## 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/kyles/OneDrive/Documents/GitHub/dsc520")
## Load the `data/r4ds/heights.csv` to
heights df <- read.csv("data/r4ds/heights.csv")</pre>
# 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`
qqplot(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(binwidth=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()
```