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# Assignment: ASSIGNMENT 3
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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\\sksmi\\PeytoAccess\\Personal\\Bellevue\\DSC520\\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`
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'
qqplot(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()`
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ggplot(heights_df, aes(earn)) + geom_density()















