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# Assignment: ASSIGNMENT 4
# Name: Kalaikkovan, Vasanthakumar
# Date: 2021-04-21
## Load the ggplot2 package
library(ggplot2)
theme_set(theme_minimal())
## Set the working directory to the root of your DSC 520 directory
setwd("E:/Repos/StatisticsR/DSC520-Statistics/assignment04")
## Load the `data/r4ds/heights.csv` to
heights_df <- read.csv("E:/Repos/StatisticsR/DSC520-
Statistics/data/r4ds/heights.csv")
# https://ggplot2.tidyverse.org/reference/geom_boxplot.html
## Create boxplots of sex vs. earn and race vs. earn using `geom_point()`
and `geom_boxplot()`
## sex vs. earn
ggplot(heights_df, aes(x=sex, y=earn)) + geom_point()+ geom_boxplot()
## race vs. earn
ggplot(heights_df, aes(x=race, y=earn)) + geom_point()+ geom_boxplot()
# https://ggplot2.tidyverse.org/reference/geom_bar.html
## Using `geom_bar()` plot a bar chart of the number of records for each
`sex`
ggplot(heights_df, aes(sex)) + geom_bar()
## Using `geom_bar()` plot a bar chart of the number of records for each
race
ggplot(heights_df, aes(race)) + geom_bar()
## Create a horizontal bar chart by adding `coord_flip()` to the previous
plot
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ggplot(heights_df, aes(race)) + geom_bar() + coord_flip()
#
https://www.rdocumentation.org/packages/ggplot2/versions/3.3.0/topics/geom
## Load the file `"data/nytimes/covid-19-data/us-states.csv"` and
## assign it to the `covid df` dataframe
covid_df <- read.csv("E:/Repos/StatisticsR/DSC520-</pre>
Statistics/data/nytimes/covid-19-data/us-states.csv")
## Parse the date column using `as.Date()``
covid_df$date <- as.Date(covid_df$date)</pre>
## Create three dataframes named `california_df`, `ny_df`, and
`florida df`
## containing the data from California, New York, and Florida
california_df <- covid_df[ which( covid_df$state == "California"), ]</pre>
ny_df <- covid_df[ which( covid_df$state == "New York"), ]</pre>
florida_df <- covid_df[ which( covid_df$state == "Florida"), ]
## Plot the number of cases in Florida using `geom_line()`
ggplot(data=florida_df, aes(x=date, y=cases, group=1)) + geom_line()
## Add lines for New York and California to the plot
ggplot(data=florida_df, aes(x=date, group=1)) +
  geom_line(aes(y = cases)) +
  geom_line(data=ny_df, aes(y = cases)) +
  geom_line(data=california_df, aes(y = cases))
## Use the colors "darkred", "darkgreen", and "steelblue" for Florida, New
York, and California
ggplot(data=florida df, aes(x=date, group=1)) +
  geom_line(aes(y = cases), color = "darkred") +
  geom_line(data=ny_df, aes(y = cases), color="darkgreen") +
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geom_line(data=california_df, aes(y = cases), color="steelblue")
## Add a legend to the plot using `scale_colour_manual`
## Add a blank (" ") label to the x-axis and the label "Cases" to the y
axis
ggplot(data=florida_df, aes(x=date, group=1)) +
  geom_line(aes(y = cases, colour = "Florida")) +
  geom_line(data=ny_df, aes(y = cases,colour="New York")) +
  geom_line(data=california_df, aes(y = cases, colour="California")) +
  scale_colour_manual("",
                      breaks = c("Florida", "New York", "California"),
                      values = c("darkred", "darkgreen", "steelblue")) +
  xlab(" ") + ylab("Cases")
## Scale the y axis using `scale_y_log10()`
ggplot(data=florida_df, aes(x=date, group=1)) +
  geom_line(aes(y = cases, colour = "Florida")) +
  geom line(data=ny df, aes(y = cases,colour="New York")) +
  geom_line(data=california_df, aes(y = cases, colour="California")) +
  scale_colour_manual("",
                      breaks = c("Florida", "New York", "California"),
                      values = c("darkred", "darkgreen", "steelblue")) +
  xlab(" ") + ylab("Cases") + scale y log10()
install.packages("devtools")
library(devtools)
install github('Rapporter/pander')
install.packages('pander')
```