> install.packages("googleVis")

Installing package into ‘C:/Users/crmo/Documents/R/win-library/3.2’

(as ‘lib’ is unspecified)

trying URL 'https://cran.rstudio.com/bin/windows/contrib/3.2/googleVis\_0.5.10.zip'

Content type 'application/zip' length 935639 bytes (913 KB)

downloaded 913 KB

package ‘googleVis’ successfully unpacked and MD5 sums checked

The downloaded binary packages are in

C:\Users\crmo\AppData\Local\Temp\RtmpoF4CSj\downloaded\_packages

> library(googleVis)

Welcome to googleVis version 0.5.10

Please read the Google API Terms of Use

before you start using the package:

https://developers.google.com/terms/

Note, the plot method of googleVis will by default use

the standard browser to display its output.

See the googleVis package vignettes for more details,

or visit http://github.com/mages/googleVis.

To suppress this message use:

suppressPackageStartupMessages(library(googleVis))

> make.state.abbreviation <- function(x) {}

> make.state.abbreviation <- function(x) { + }

Error: unexpected '}' in "make.state.abbreviation <- function(x) { + }"

> make.state.abbreviation <- function(x) {switch(x, "Alaska" = "AK", "Alabama" = "AL", "Arkansas" = "AR",

+ "Arizona" = "AZ", "California" = "CA",

+ "Colorado" = "CO", "Connecticut" = "CT", "District of Columbia" = "DC",

+ "Delaware" = "DE", "Florida" = "FL",

+ "Georgia" = "GA", "Hawaii" = "HI", "Iowa" = "IA",

+ "Idaho" = "ID", "Illinois" = "IL", "Indiana" = "IN",

+ "Kansas" = "KS", "Kentucky" = "KY", "Louisiana" = "LA",

+ "Massachusetts" = "MA", "Maryland" = "MD", "Maine" = "ME",

+ "Michigan" = "MI", "Minnesota" = "MN", "Missouri" = "MO",

+ "Mississippi" = "MS", "Montana" = "MT",

+ "North Carolina" = "NC", "North Dakota" = "ND",

+ "Nebraska" = "NE", "New Hampshire" = "NH", "New Jersey" = "NJ",

+ "New Mexico" = "NM", "Nevada" = "NV", "New York" = "NY",

+ "Ohio" = "OH", "Oklahoma" = "OK", "Oregon" = "OR",

+ "Pennsylvania" = "PA",

+ "Rhode Island" = "RI", "South Carolina" = "SC", "South Dakota" = "SD",

+ "Tennessee" = "TN", "Texas" = "TX",

+ "Utah" = "UT", "Virginia" = "VA", "Vermont" = "VT",

+ "Washington" = "WA", "Wisconsin" = "WI",

+ "West Virginia" = "WV", "Wyoming" = "WY", "")}

> my.data.frame <- read.csv("data\_sat\_scores\_2013.csv", header = TRUE)

> my.data.frame$State <- as.character(my.data.frame$State)

> my.data.frame$state <- rep("", length = nrow(my.data.frame))

> for(index.for.state in seq(along = my.data.frame$State))

+ my.data.frame$state[index.for.state] <- make.state.abbreviation(my.data.frame$State[index.for.state])

> print(my.data.frame[,c("State", "state")])

State state

1 Illinois IL

2 North Dakota ND

3 Michigan MI

4 Minnesota MN

5 Missouri MO

6 Wisconsin WI

7 Iowa IA

8 South Dakota SD

9 Wyoming WY

10 Kansas KS

11 Kentucky KY

12 Nebraska NE

13 Colorado CO

14 Tennessee TN

15 Arkansas AR

16 Oklahoma OK

17 Utah UT

18 Mississippi MS

19 Louisiana LA

20 Ohio OH

21 New Mexico NM

22 Alabama AL

23 Montana MT

24 New Hampshire NH

25 Massachusetts MA

26 Arizona AZ

27 Vermont VT

28 Oregon OR

29 Washington WA

30 Connecticut CT

31 Virginia VA

32 New Jersey NJ

33 West Virginia WV

34 California CA

35 Alaska AK

36 Maryland MD

37 Pennsylvania PA

38 North Carolina NC

39 Indiana IN

40 Rhode Island RI

41 New York NY

42 Florida FL

43 Nevada NV

44 Hawaii HI

45 Georgia GA

46 Texas TX

47 South Carolina SC

48 District of Columbia DC

49 Maine ME

50 Idaho ID

51 Delaware DE

> my.value.gradient <- c(min(my.data.frame$SAT),

+ median(my.data.frame$SAT),

+ max(my.data.frame$SAT))

> print(my.value.gradient)

[1] 1351 1551 1807

> javascript.us.map.object <- gvisGeoChart(my.data.frame, "state", "SAT",

+ options=list(region="US",

+ displayMode="regions",

+ resolution="provinces",

+ colorAxis = "{values: [1351, 1551, 1807], colors: [\'coral', \'lightgray', \'blue']}",

+ width=700, height=500))

> plot(javascript.us.map.object)

**CODE EDIT ITERATIONS FOR LSAT AVERAGES BY STATE:**

> make.state.abbreviation <- function(x) {

+ switch(x,

+ "Alaska" = "AK", "Alabama" = "AL", "Arkansas" = "AR",

+ "Arizona" = "AZ", "California" = "CA",

+ "Colorado" = "CO", "Connecticut" = "CT", "District of Columbia" = "DC",

+ "Delaware" = "DE", "Florida" = "FL",

+ "Georgia" = "GA", "Hawaii" = "HI", "Iowa" = "IA",

+ "Idaho" = "ID", "Illinois" = "IL", "Indiana" = "IN",

+ "Kansas" = "KS", "Kentucky" = "KY", "Louisiana" = "LA",

+ "Massachusetts" = "MA", "Maryland" = "MD", "Maine" = "ME",

+ "Michigan" = "MI", "Minnesota" = "MN", "Missouri" = "MO",

+ "Mississippi" = "MS", "Montana" = "MT",

+ "North Carolina" = "NC", "North Dakota" = "ND",

+ "Nebraska" = "NE", "New Hampshire" = "NH", "New Jersey" = "NJ",

+ "New Mexico" = "NM", "Nevada" = "NV", "New York" = "NY",

+ "Ohio" = "OH", "Oklahoma" = "OK", "Oregon" = "OR",

+ "Pennsylvania" = "PA",

+ "Rhode Island" = "RI", "South Carolina" = "SC", "South Dakota" = "SD",

+ "Tennessee" = "TN", "Texas" = "TX",

+ "Utah" = "UT", "Virginia" = "VA", "Vermont" = "VT",

+ "Washington" = "WA", "Wisconsin" = "WI",

+ "West Virginia" = "WV", "Wyoming" = "WY", "")

+ }

> my.data.frame <- read.csv("LSAT\_Scores\_by\_School.csv", header = TRUE)

Error in file(file, "rt") : cannot open the connection

In addition: Warning message:

In file(file, "rt") :

cannot open file 'LSAT\_Scores\_by\_School.csv': No such file or directory

> setwd("C:/Users/crmo/Desktop/Northwestern Stuff/Data Visualization/Assignment4/Google Vis")

> setwd("C:/Users/crmo/Desktop/Northwestern Stuff/Data Visualization/Assignment4/LSAT Code")

> my.data.frame <- read.csv("LSAT\_Scores\_by\_School.csv", header = TRUE)

Error in file(file, "rt") : cannot open the connection

In addition: Warning message:

In file(file, "rt") :

cannot open file 'LSAT\_Scores\_by\_School.csv': No such file or directory

> setwd("C:/Users/crmo/Desktop/Northwestern Stuff/Data Visualization/Assignment4/LSAT Code")

> make.state.abbreviation <- function(x) {

+ switch(x,

+ "Alaska" = "AK", "Alabama" = "AL", "Arkansas" = "AR",

+ "Arizona" = "AZ", "California" = "CA",

+ "Colorado" = "CO", "Connecticut" = "CT", "District of Columbia" = "DC",

+ "Delaware" = "DE", "Florida" = "FL",

+ "Georgia" = "GA", "Hawaii" = "HI", "Iowa" = "IA",

+ "Idaho" = "ID", "Illinois" = "IL", "Indiana" = "IN",

+ "Kansas" = "KS", "Kentucky" = "KY", "Louisiana" = "LA",

+ "Massachusetts" = "MA", "Maryland" = "MD", "Maine" = "ME",

+ "Michigan" = "MI", "Minnesota" = "MN", "Missouri" = "MO",

+ "Mississippi" = "MS", "Montana" = "MT",

+ "North Carolina" = "NC", "North Dakota" = "ND",

+ "Nebraska" = "NE", "New Hampshire" = "NH", "New Jersey" = "NJ",

+ "New Mexico" = "NM", "Nevada" = "NV", "New York" = "NY",

+ "Ohio" = "OH", "Oklahoma" = "OK", "Oregon" = "OR",

+ "Pennsylvania" = "PA",

+ "Rhode Island" = "RI", "South Carolina" = "SC", "South Dakota" = "SD",

+ "Tennessee" = "TN", "Texas" = "TX",

+ "Utah" = "UT", "Virginia" = "VA", "Vermont" = "VT",

+ "Washington" = "WA", "Wisconsin" = "WI",

+ "West Virginia" = "WV", "Wyoming" = "WY", "")}

> my.data.frame <- read.csv("LSAT\_Scores\_by\_School.csv", header = TRUE)

Error in file(file, "rt") : cannot open the connection

In addition: Warning message:

In file(file, "rt") :

cannot open file 'LSAT\_Scores\_by\_School.csv': No such file or directory

> my.data.frame <- read.csv("LSAT\_Scores\_by\_School.csv", header = TRUE)

> my.data.frame$State <- as.character(my.data.frame$State)

Error in `$<-.data.frame`(`\*tmp\*`, "State", value = character(0)) :

replacement has 0 rows, data has 55

> my.data.frame$Rank <- as.character(my.data.frame$Rank)

> my.data.frame$Rank <- rep("", length = nrow(my.data.frame))

> for(index.for.rank in seq(along = my.data.frame$Rank))

+ my.data.frame$Rank[index.for.rank] <- make.rank.abbreviation(my.data.frame$Rank[index.for.rank])

Error: could not find function "make.rank.abbreviation"

> for(index.for.state in seq(along = my.data.frame$Rank))

+ my.data.frame$Rank[index.for.state] <- make.state.abbreviation(my.data.frame$Rank[index.for.state])

> print(my.data.frame[,c("Rank", "rank")])

Error in `[.data.frame`(my.data.frame, , c("Rank", "rank")) :

undefined columns selected

> print(my.data.frame[,c("State", "state")])

Error in `[.data.frame`(my.data.frame, , c("State", "state")) :

undefined columns selected

> my.value.gradient <- c(min(my.data.frame$Median.LSAT),

+ median(my.data.frame$Median.LSAT),

+ max(my.data.frame$Median.LSAT))

> print(my.value.gradient)

[1] 160 164 173

> javascript.us.map.object <- gvisGeoChart(my.data.frame, "Rank", "Median LSAT",

+ options=list(region="US",

+ displayMode="regions",

+ resolution="provinces",

+ colorAxis = "{values: [160, 164, 173], colors: [\'coral', \'lightgray', \'blue']}",

+ width=700, height=500))

> plot(javascript.us.map.object)

> plot(javascript.us.map.object)

> javascript.us.map.object <- gvisGeoChart(my.data.frame, "Rank", "State",

+ options=list(region="US",

+ displayMode="regions",

+ resolution="provinces",

+ colorAxis = "{values: [160, 164, 173], colors: [\'coral', \'lightgray', \'blue']}",

+ width=700, height=500))

> plot(javascript.us.map.object)

> javascript.us.map.object <- gvisGeoChart(my.data.frame, "State", "Median LSAT",

+ options=list(region="US",

+ displayMode="regions",

+ resolution="provinces",

+ colorAxis = "{values: [160, 164, 173], colors: [\'coral', \'lightgray', \'blue']}",

+ width=700, height=500))

> plot(javascript.us.map.object)

> print(my.data.frame[,c("State", "state")])

Error in `[.data.frame`(my.data.frame, , c("State", "state")) :

undefined columns selected