Week-8

Annette

2023-10-09

```r
knitr::opts_chunk$set(echo = TRUE)
```

Code Along

```r
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ---------------------- tidyverse 2.0.0 --
## v dplyr     1.1.2     v readr     2.1.4
## v forcats   1.0.0     v stringr   1.5.0
## v ggplot2   3.4.3     v tibble    3.2.1
## v lubridate 1.9.2     v tidyr     1.3.0
## v purrr     1.0.2
## -- Conflicts ---------------------------------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```r
#install.packages("shiny")
library(shiny)
```

```r
ui <- fluidPage(

  tags$head(
    tags$style(HTML("
      body {
        background-color: maroon;
        color: white; /* Set text color to white */
      }
    ")) 
  ),

  # App title ----
  titlePanel("Annette's Week 8 Challenge"),

  # Sidebar layout with input and output definitions ----
  sidebarLayout(

    # Sidebar panel for inputs ----
```

```r
  sidebarPanel(

    # Input: Selector for choosing dataset ----
    selectInput(inputId = "dataset",
                label = "Choose a dataset:",
                choices = c("rock", "pressure", "cars")),

    # Input: Numeric entry for number of obs to view ----
    numericInput(inputId = "obs",
                 label = "Number of observations to view:",
                 value = 15)
  ),

  # Main panel for displaying outputs ----
  mainPanel(


    # Output: Verbatim text for data summary ----
    verbatimTextOutput("summary"),

    # Output: HTML table with requested number of observations ----
    tableOutput("view"),

    # Container for the image ----
    div(
      img(src = "rock_image.jpeg", height = 140, width = 300),
      img(src = "car_image.png", height = 140, width = 200)
    )

  )
 )
)

# Define server logic to summarize and view selected dataset ----
server <- function(input, output) {

  # Return the requested dataset ----
  datasetInput <- reactive({
    switch(input$dataset,
           "rock" = rock,
           "pressure" = pressure,
           "cars" = cars)
  })

  # Generate a summary of the dataset ----
  output$summary <- renderPrint({
    dataset <- datasetInput()
    summary(dataset)
  })

  # Show the first "n" observations ----
  output$view <- renderTable({
    head(datasetInput(), n = input$obs)
```

```
  })



}

# Create Shiny app ----
shinyApp(ui = ui, server = server)
```

Explanation

In this file I used the example and I included two images(rock and car), changed the background of the page to be maroon, change the text colour to be white, and changed the number of observations to 15 instead of 10.

```
knitr::include_graphics("screenshot.png")
```
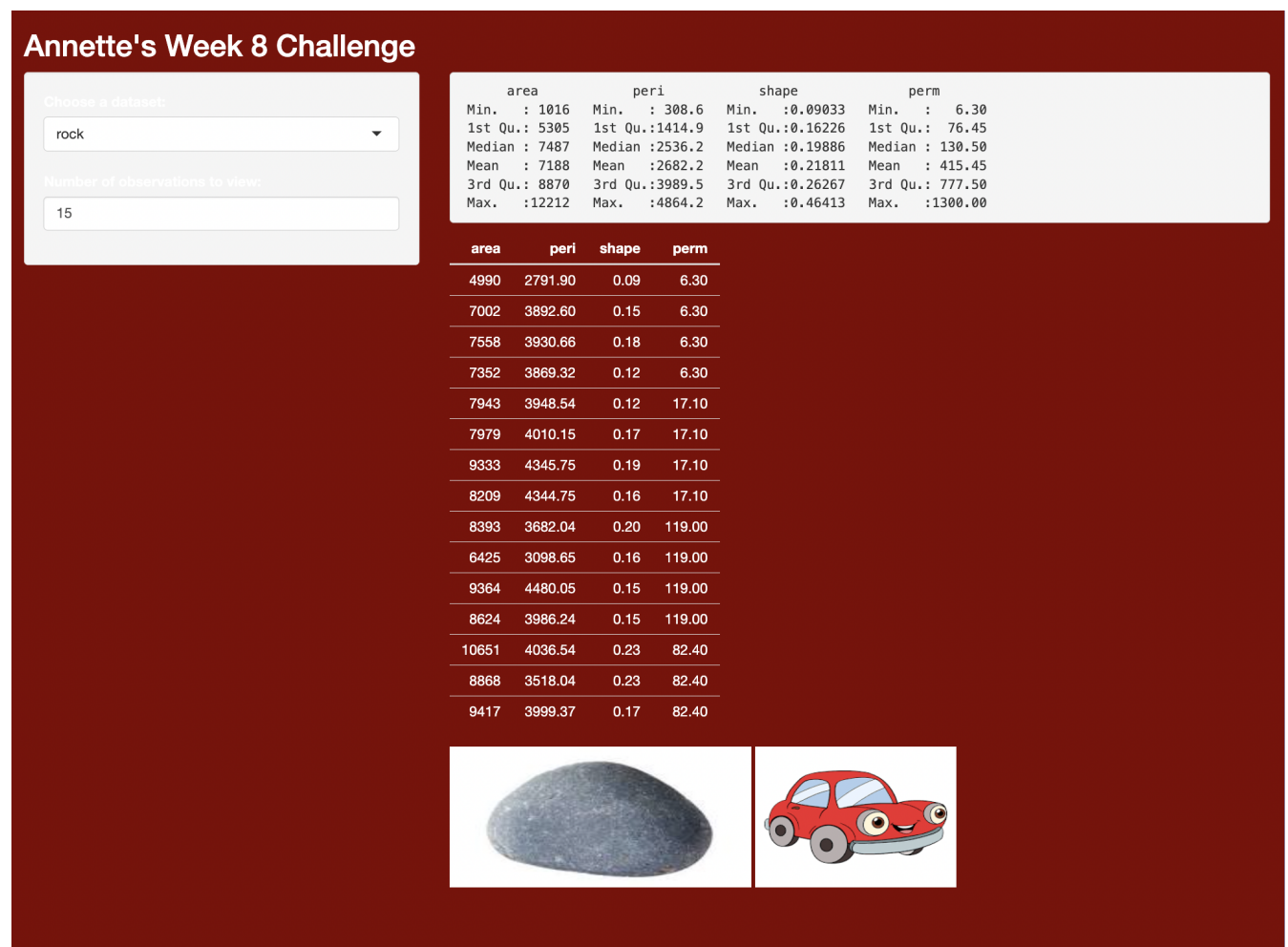

Figure 1: As the image could not be rendered, TA suggested I put in a screenshot of when it is working.