

Week-8

Annette

2023-10-09

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

Code Along

```
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
```

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

```
library(shiny)
```

```
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 ----
```

```

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)
```