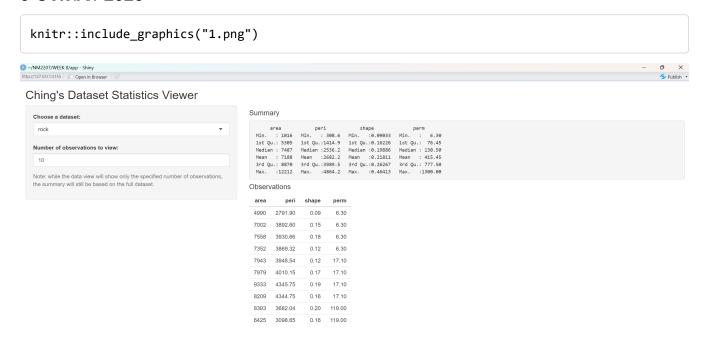
Week-8: Code-along

NM2207: Computational Media Literacy- Tang Ching Xian

9 October 2023

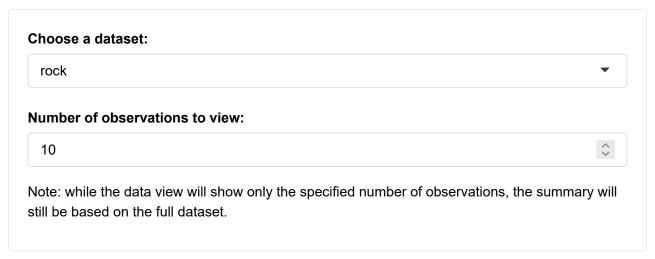


WEEK8 CODE

```
##
# This is a Shiny web application. You can run the application by clicking
# the 'Run App' button above.
# Find out more about building applications with Shiny here:
#
#
     http://shiny.rstudio.com/
#
library(shiny)
# Assuming you have a dataset named 'your_dataset' (replace with your actual dataset)
your_dataset <- mtcars
# Define UI for dataset viewer app ----
ui <- fluidPage(</pre>
  # App title ----
  titlePanel("Ching's Dataset Statistics Viewer"),
  # Sidebar Layout with input and output definitions ----
  sidebarLayout(
    # Sidebar panel for inputs ----
    sidebarPanel(
      # Input: Select a dataset ----
      selectInput("dataset", "Choose a dataset:",
                  choices = c("rock", "pressure", "cars")),
      # Input: Specify the number of observations to view ----
      numericInput("obs", "Number of observations to view:", 10),
      # Include clarifying text ----
      helpText("Note: while the data view will show only the specified",
               "number of observations, the summary will still be based",
               "on the full dataset.")
    ),
    # Main panel for displaying outputs ----
    mainPanel(
      # Output: Header + summary of distribution ----
      h4("Summary"),
      verbatimTextOutput("summary"),
      # Output: Header + table of distribution ----
      h4("Observations"),
      tableOutput("view")
    )
  )
)
# Define server logic to summarize and view selected dataset ----
```

```
server <- function(input, output) {</pre>
  # Reactive function to get the selected dataset
  datasetInput <- reactive({</pre>
    switch(input$dataset,
            "rock" = rock,
            "pressure" = pressure,
            "cars" = cars)
  })
  # Generate a summary of the dataset ----
  output$summary <- renderPrint({</pre>
    dataset <- datasetInput()</pre>
    summary(dataset)
  })
  # Show the first "n" observations ----
  output$view <- renderTable({</pre>
    head(datasetInput(), n = input$obs)
  })
}
# Create Shiny app ----
shinyApp(ui, server)
```

Ching's Dataset Statistics Viewer



Summary

```
area peri shape perm
Min. : 1016 Min. : 308.6 Min. :0.09033 Min. : 6.30
```