

# Codealong and Challenge-8

Insert your name here

2023-10-11

# Shiny Text

Choose a dataset:

rock

Number of observations to view:

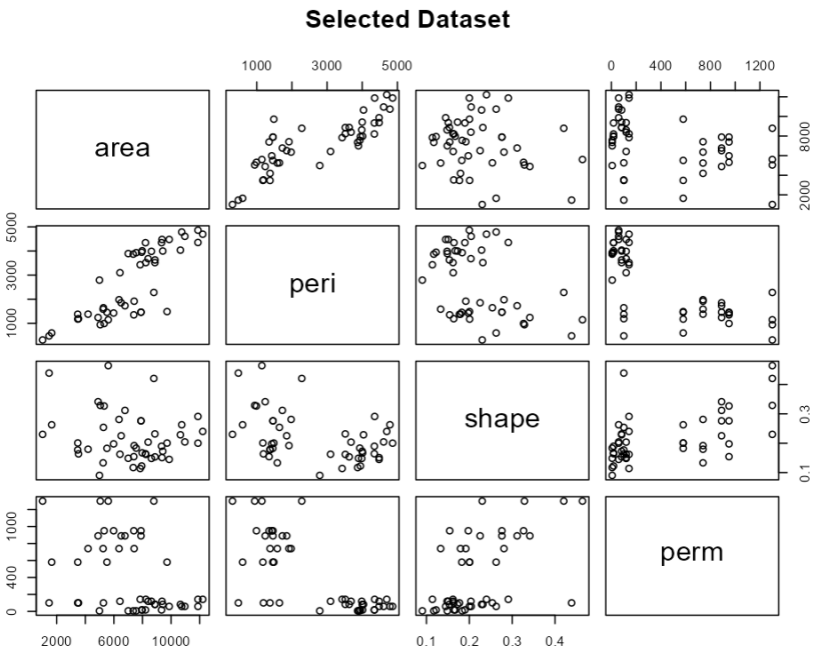
10

area	peri	shape
Min. : 1016	Min. : 308.6	Min. : 0.09033
1st Qu.: 5305	1st Qu.:1414.9	1st Qu.:0.16226
Median : 7487	Median :2536.2	Median :0.19886
Mean : 7188	Mean :2682.2	Mean :0.21811
3rd Qu.: 8870	3rd Qu.:3989.5	3rd Qu.:0.26267
Max. :12212	Max. :4864.2	Max. :0.46413

perm
Min. : 6.30
1st Qu.: 76.45
Median :130.50
Mean : 415.45
3rd Qu.: 777.50
Max. :1300.00

area	peri	shape	perm
4990	2791.90	0.09	6.30
7002	3892.60	0.15	6.30
7558	3930.66	0.18	6.30
7352	3869.32	0.12	6.30
7943	3948.54	0.12	17.10
7979	4010.15	0.17	17.10
9333	4345.75	0.19	17.10
8209	4344.75	0.16	17.10
8393	3682.04	0.20	119.00
6425	3098.65	0.16	119.00



```

library(shiny)

# Define UI for dataset viewer app
ui <- fluidPage(
  titlePanel("Shiny Text"),
  sidebarLayout(
    sidebarPanel(
      selectInput(inputId = "dataset",
        label = "Choose a dataset:",
        choices = c("rock", "pressure", "cars")),
      numericInput(inputId = "obs",
        label = "Number of observations to view:",
        value = 10)
    ),
    mainPanel(
      verbatimTextOutput("summary"),
      tableOutput("view"),
      plotOutput("scatterplot")
    )
  )
)

# Define server logic to summarize and view selected dataset
server <- function(input, output) {
  datasetInput <- reactive({
    switch(input$dataset,
      "rock" = rock,
      "pressure" = pressure,
      "cars" = cars)
  })

  output$summary <- renderPrint({
    dataset <- datasetInput()
    summary(dataset)
  })

  output$view <- renderTable({
    head(datasetInput(), n = input$obs)
  })

  # Additional scatterplot
  output$scatterplot <- renderPlot({
    dataset <- datasetInput()
    if (input$dataset == "cars") {
      plot(dataset$dist, dataset$speed, xlab = "Distance", ylab = "Speed",
        main = "Scatterplot for Cars Dataset", pch = 19, cex = 1.5)
    } else {
      plot(dataset, main = "Selected Dataset", pch = 19, cex = 1.5)
    }
  }, height = 600)
}

shinyApp(ui = ui, server = server)

```