

```
library(shiny)
```

```
# Define UI for application that draws a histogram
```

```
ui <- fluidPage(
```

```
  # Application title
```

```
  titlePanel("Old Faithful Geyser Data"),
```

```
  # Sidebar with a slider input for number of bins
```

```
  sidebarLayout(
```

```
    sidebarPanel(
```

```
      sliderInput("bins",
```

```
        "Number of bins:",
```

```
        min = 1,
```

```
        max = 50,
```

```
        value = 30)
```

```
    ),
```

```
    # Show a plot of the generated distribution
```

```
    mainPanel(
```

```
      plotOutput("distPlot")
```

```
    )
```

```
  )
```

```
)
```

```
# Define server logic required to draw a histogram
```

```
server <- function(input, output) {
```

```
  output$distPlot <- renderPlot({
```

```
    # generate bins based on input$bins from ui.R
```

```
    x <- faithful[, 2]
```

```
    bins <- seq(min(x), max(x), length.out = input$bins + 1)
```

```
    # draw the histogram with the specified number of bins
```

```
    hist(x, breaks = bins, col = 'darkgray', border = 'white',
```

```
        xlab = 'Waiting time to next eruption (in mins)',
```

```
        main = 'Histogram of waiting times')
```

```
  })
```

```
}
```

```
# Run the application
```

```
shinyApp(ui = ui, server = server)
```

