Using sliders

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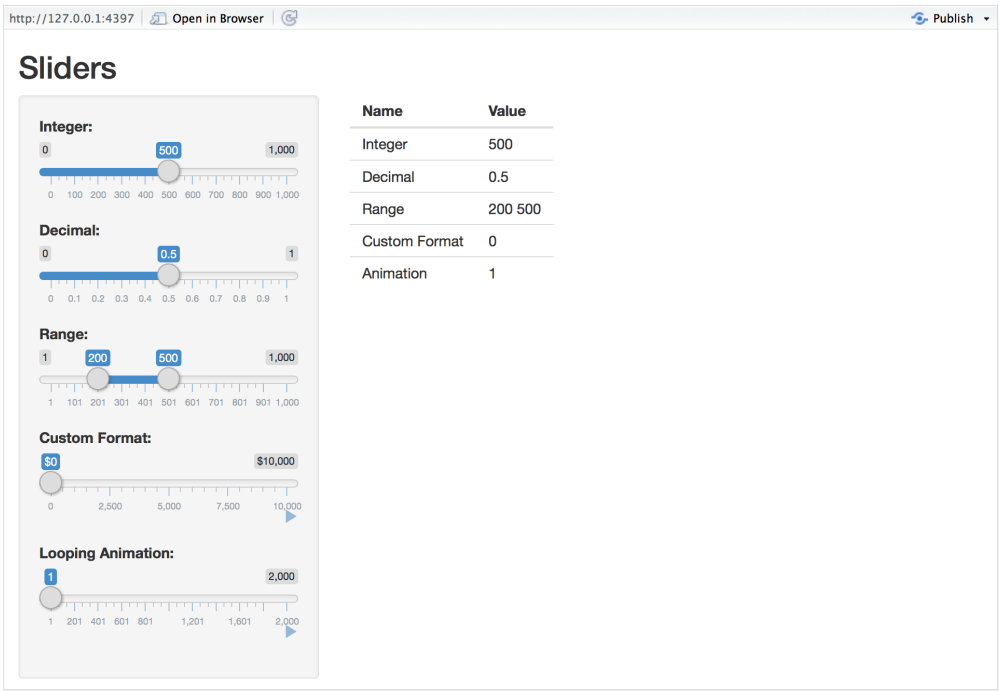
The Sliders app (/gallery/sliders.html) demonstrates the many capabilities of slider controls, including the ability to run an animation sequence.



To run the example locally type:

```
library(shiny)
runExample("05_sliders")
```

Customizing Sliders

Shiny slider controls are extremely capable and customizable. Features supported include:

- The ability to input both single values and ranges
- Custom formats for value display (e.g for currency)
- The ability to animate the slider across a range of values

Slider controls are created by calling the `sliderInput` function. The UI demonstrates using sliders with a variety of options:

ui

Shiny (/)
from
(https://www.rstudio.com/) Get Started (/tutorial/) Gallery (/gallery/) Articles (/articles/) App Stories (/app-stories/) Refere

```
# Define UI for slider demo app ----
ui <- fluidPage(

  # App title ----
  titlePanel("Sliders"),

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

    # Sidebar to demonstrate various slider options ----
    sidebarPanel(

      # Input: Simple integer interval ----
      sliderInput("integer", "Integer:",
                  min = 0, max = 1000,
                  value = 500),

      # Input: Decimal interval with step value ----
      sliderInput("decimal", "Decimal:",
                  min = 0, max = 1,
                  value = 0.5, step = 0.1),

      # Input: Specification of range within an interval ----
      sliderInput("range", "Range:",
                  min = 1, max = 1000,
                  value = c(200,500)),

      # Input: Custom currency format for with basic animation ----
      sliderInput("format", "Custom Format:",
                  min = 0, max = 10000,
                  value = 0, step = 2500,
                  pre = "$", sep = ",",
                  animate = TRUE),

      # Input: Animation with custom interval (in ms) ----
      # to control speed, plus looping
      sliderInput("animation", "Looping Animation:",
                  min = 1, max = 2000,
                  value = 1, step = 10,
                  animate =
                    animationOptions(interval = 300, loop = TRUE))

    ),

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

      # Output: Table summarizing the values entered ----
      tableOutput("values")

    )
```

```
  )
)
```

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Server Script

The server side of the Slider application is very straightforward – it creates a data frame containing all of the input values and then renders it as an HTML table:

server

```
# Define server logic for slider examples ----
server <- function(input, output) {

  # Reactive expression to create data frame of all input values ----
  sliderValues <- reactive({

    data.frame(
      Name = c("Integer",
               "Decimal",
               "Range",
               "Custom Format",
               "Animation"),
      Value = as.character(c(input$integer,
                             input$decimal,
                             paste(input$range, collapse = " "),
                             input$format,
                             input$animation)),
      stringsAsFactors = FALSE)

  })

  # Show the values in an HTML table ----
  output$values <- renderTable({
    sliderValues()
  })

}
```

If you have questions about this article or would like to discuss ideas presented here, please post on RStudio Community (https://community.rstudio.com/c/shiny). Our developers monitor these forums and answer questions periodically. See help (/help) for more help with all things Shiny.