Shiny

from

(https://www.rstudio.com/) Get Started (tutorial/) Gallery (gallery/) Articles (articles/) Reference (reference/shiny/) Deploy (deploy/)

# Interact. Analyze. Communicate.

Take a fresh, interactive approach to telling your data story with Shiny. Let users interact with your data and your analysis. And do it all with R.

Shiny

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Shiny is an R package that makes it easy to build interactive web apps straight from R. You can host standalone apps on a webpage or embed them in R Markdown (http://rmarkdown.rstudio.com/) documents or build dashboards (http://rstudio.github.io/shinydashboard/). You can also extend your Shiny apps with CSS themes (http://rstudio.github.io/shinythemes/), htmlwidgets (http://www.htmlwidgets.org/), and JavaScript actions (https://github.com/daattali/shinyjs/blob/master/README.md).

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Shiny combines the computational power of R with the interactivity of the modern web.

Get Started (tutorial/)

See Gallery (gallery/)

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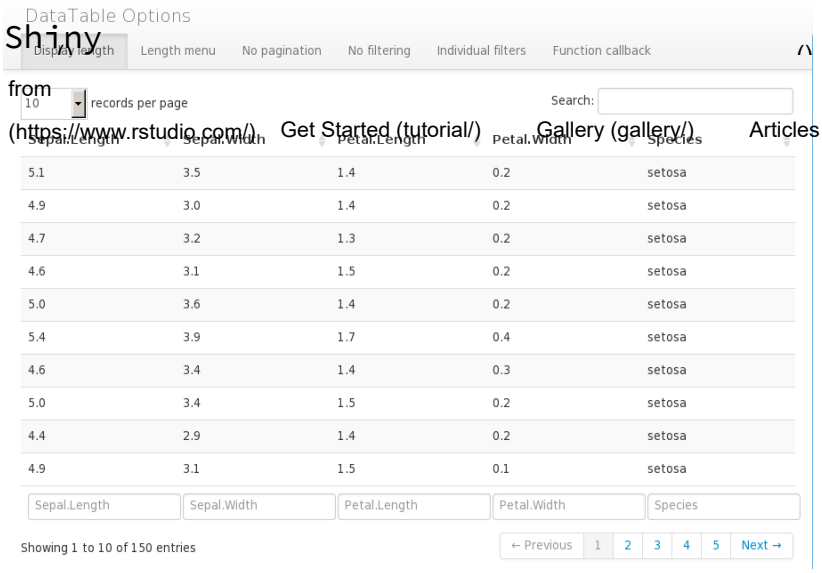


# Here is a Shiny app

Shiny apps are easy to write. No web development skills are required.

Shiny

from Google Trend Index

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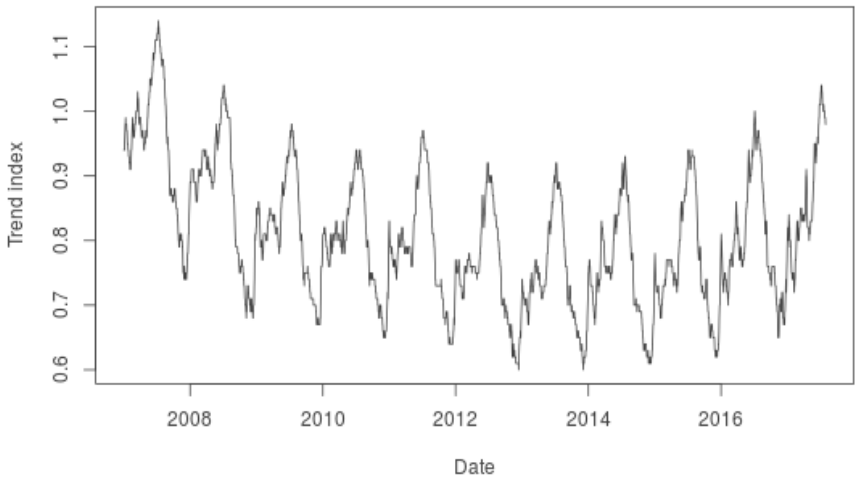
**Trend index**

Travel

**Date range**

2007-01-01 to 2017-07-31

**Overlay smooth trend line**




The Google Travel Index tracks queries related to airlines, hotels, beach, southwest, las vegas, flights, etc. The index is set to 1.0 on January 1, 2004 and is calculated only for US search traffic.
Source: Google Domestic Trends (https://www.google.com/finance/domestic_trends)

Description app.R

Shiny comes with a variety of built in input widgets. With minimal syntax it is possible to include widgets like the ones shown on the left in your apps:

Shiny

```
  # Select type of trend to plot
  selectInput(inputId = "type", label = strong("Trend index"),
              choices = unique(trend_data$type),
              selected = "Travel")
  # Select date range to be plotted
  dateRangeInput("date", strong("Date range"),
                 start = "2007-01-01", end = "2017-07-31",
                 min = "2007-01-01", max = "2017-07-31")
```

Displaying outputs is equally hassle-free:

```
mainPanel(
  plotOutput(outputId = "lineplot", height = "300px"),
  textOutput(outputId = "desc"),
  tags$a(href = "https://www.google.com/finance/domestic_trends",
         "Source: Google Domestic Trends", target = "_blank")
)
```

Build your plots or tables as you normally would in R, and make them reactive with a call to the appropriate render function:

```
  output$lineplot <- renderPlot({
    plot(x = selected_trends()$date, y = selected_trends()$close, type = "l",
         xlab = "Date", ylab = "Trend index")
  })
```

Want to find out how we built the Google Trend Index app shown on the left? See the next tab for the complete source code.

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# Hosting and Deployment

## Put your Shiny app on the web by using your own servers or RStudio's hosting service.

Learn more (/deploy)



(https://www.linkedin.com/company/rstudio) (https://twitter.com/rstudio) (https://github.com/rstudio) (https://vimeo.com/26773365)