

# Workflow

## Importing Data



## Cleaning Data



## Analysis



## Reports



**Some text here to explain what is going on**

**shinyApp()**



## Shiny Apps



```
# app.R
library(shiny)

ui <- fluidPage(
  numericInput(inputId = "n",
    "Sample size", value = 25),
  plotOutput(outputId = "hist")
)
```

## Building an App

A **Shiny app** is a web page (**ui**) connected to a computer (**server**) running a R session (**server**).

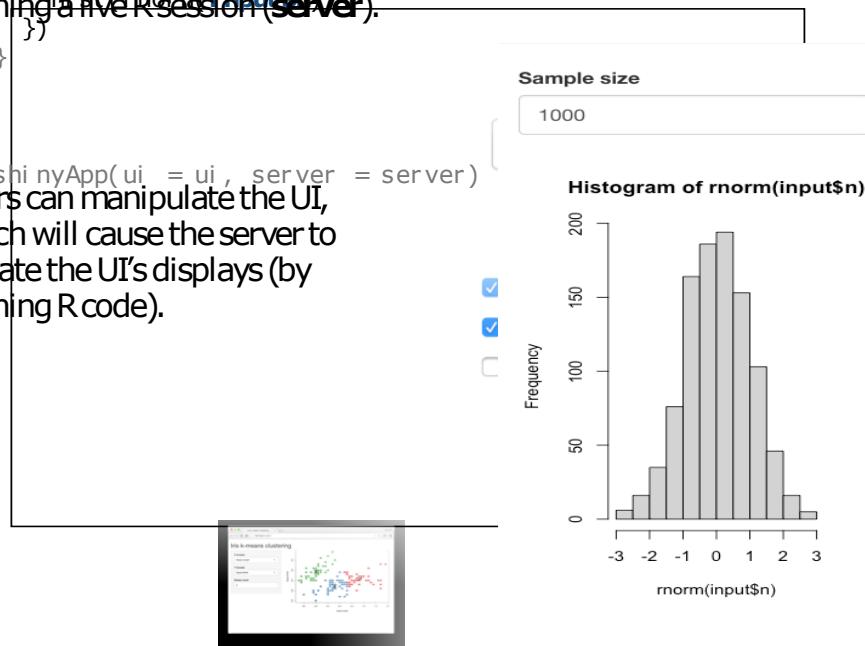
Shiny apps can be run in a browser.

Users can manipulate the UI,

which will cause the server to

update the UI's displays (by

running R code).



See annotated examples of Shiny apps by running **runExample(<example name>)**. Run **runExample()** with no arguments for a list of example names.



Call **shinyApp()** to combine ui and server into an interactive app!



Share your app in three ways:

1. [Host it on shinyapps.io](#), a cloud based service from Posit. To deploy Shiny apps:

Create a free or professional account at [shinyapps.io](#)

Click the Publish icon in RStudio IDE, or run: `rsconnect::deployApp("path to directory")`

2. [Purchase Posit Connect](#), a publishing platform for R and Python. [posit.co/products/enterprise/connect/](#)

3. [Build your own Shiny Server](#) [posit.co/products/open-source/shinyserver/](#)

## Outputs

`render*`() and `*Output()` functions work together to add R output to the UI.

**DT**: `renderDataTable(expr, options, searchDelay, callback, escape, env, quoted, outputArgs)`

`renderImage(expr, env, quoted, deleteFile, outputArgs)`

`renderPlot(expr, width, height, res, ..., alt, env, quoted, execOnResize, outputArgs)`

`renderPrint(expr, env, quoted, width, outputArgs)`

`renderTable(expr, striped, hover, bordered, spacing, width, align, rownames, colnames, digits, na, ..., env, quoted, outputArgs)`

`renderText(expr, env, quoted, outputArgs, sep)`

`renderUI(expr, env, quoted, outputArgs)`

`dataTableOutput(outputId)`

`imageOutput(outputId, width, height, click, dblclick, hover, brush, inline)`

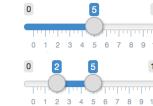
`plotOutput(outputId, width, height, click, dblclick, hover, brush, inline)`

`verbatimTextOutput(outputId, placeholder)`

`tableOutput(outputId)`

`textOutput(outputId, container, inline)`

`uiOutput(outputId, inline, container, ...)`



## Inputs

Collect values from the user.

Access the current value of an input object with `input$<inputId>`. Input values are **reactive**.

`actionButton(inputId, label, icon, width, ...)`

`actionLink(inputId, label, icon, ...)`

`checkboxGroupInput(inputId, label, choices, selected, inline, width, choiceNames, choiceValues)`

`checkboxInput(inputId, label, value, width)`

`dateInput(inputId, label, value, min, max, format, startview, weekstart, language, width, autoclose, datesdisabled, daysofweekdisabled)`

`dateRangeInput(inputId, label, start, end, min, max, format, startview, weekstart, language, separator, width, autoclose)`

`fileInput(inputId, label, multiple, accept, width, buttonLabel, placeholder)`

`numericInput(inputId, label, value, min, max, step, width)`

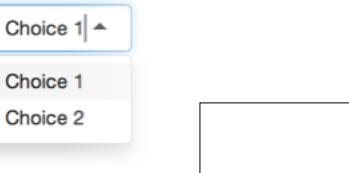
`passwordInput(inputId, label, value, width, placeholder)`

`radioButtons(inputId, label, choices, selected, inline, width, choiceNames, choiceValues)`

`selectInput(inputId, label, choices, selected, multiple, selectize, width, size)`  
Also `selectizeInput()`

`sliderInput(inputId, label, min, max, value, step, round, format, locale, ticks, animate, width, sep, pre, post, dateFormat, timezone, dragRange)`

`textInput(inputId, label, value, width, placeholder)`  
Also `textAreaInput()`



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