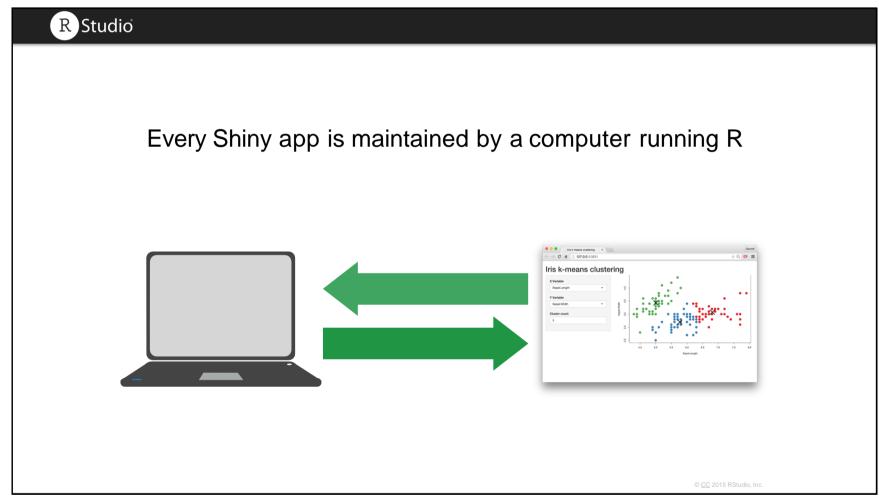
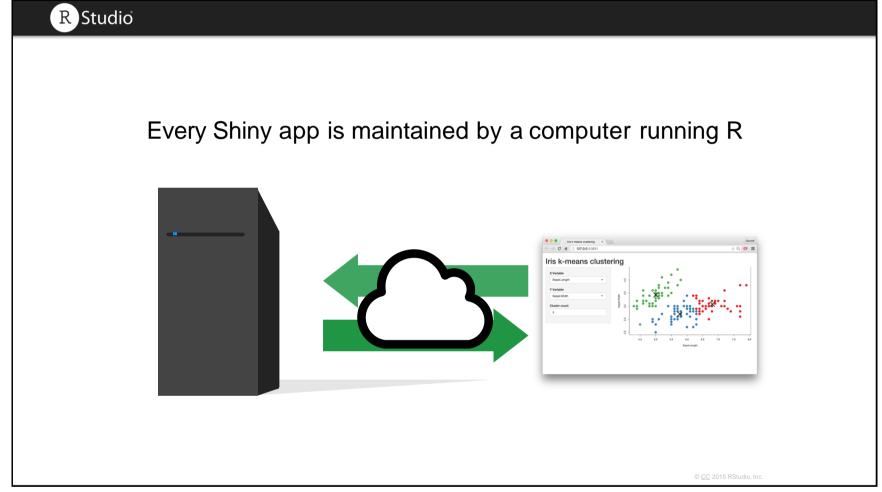


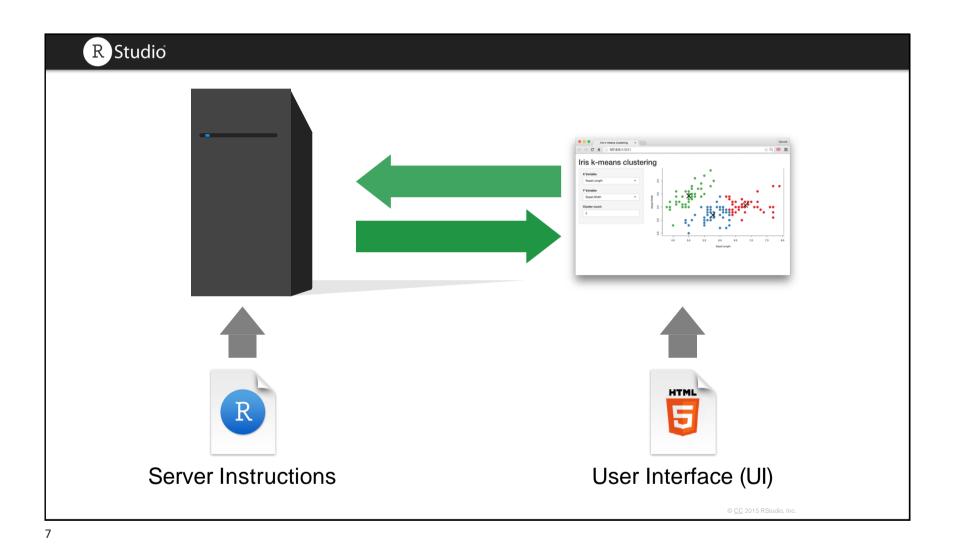


Understand the architecture

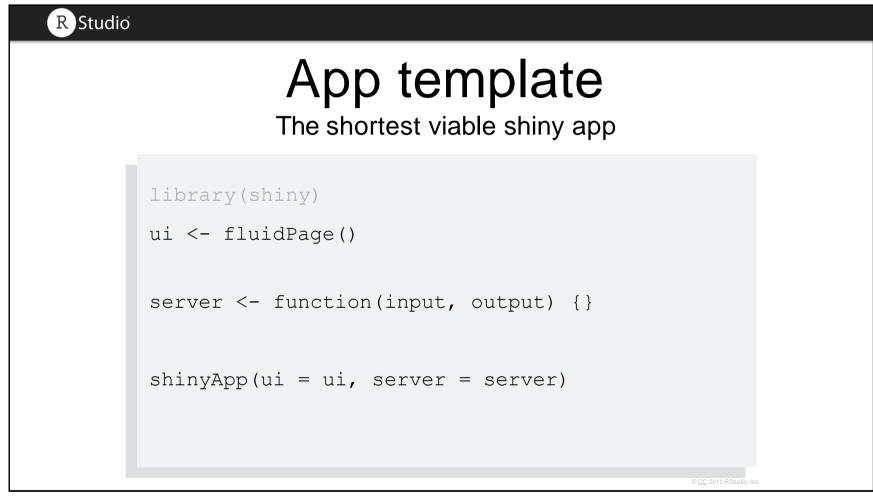


:

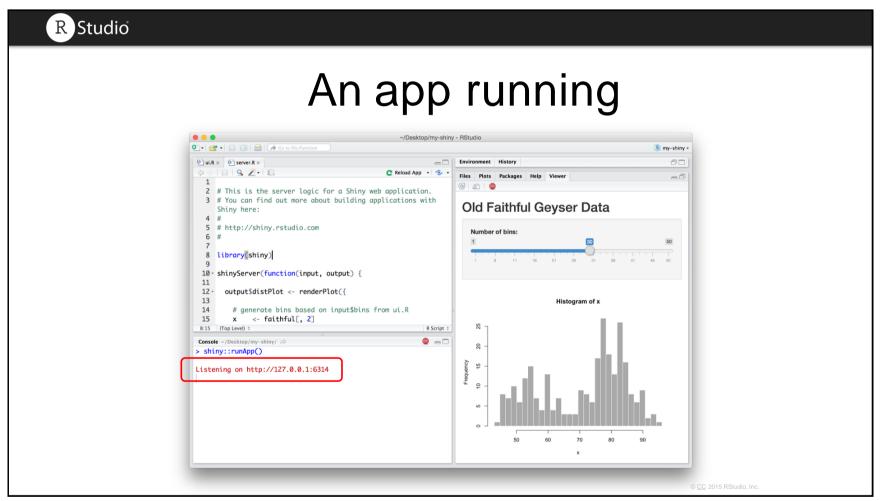


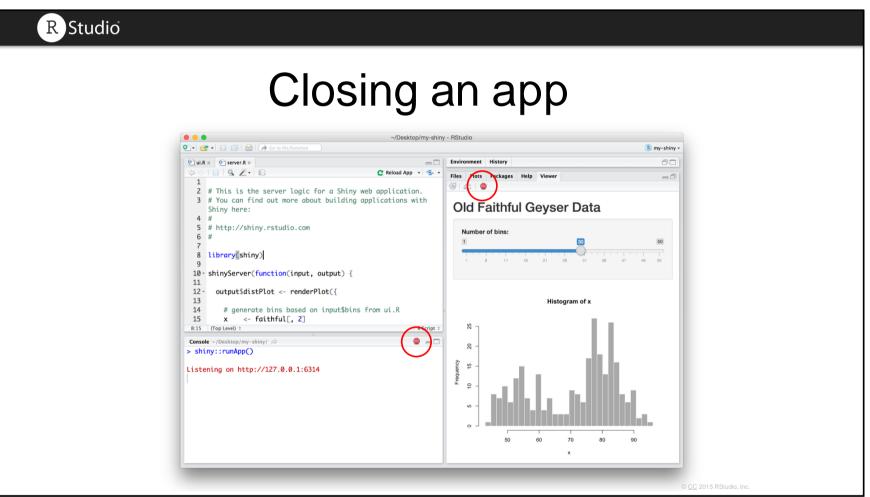


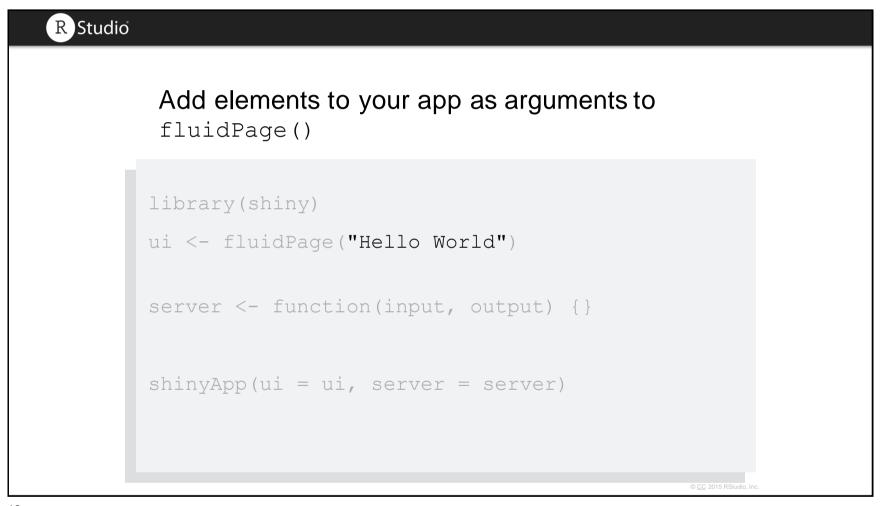
Use the template



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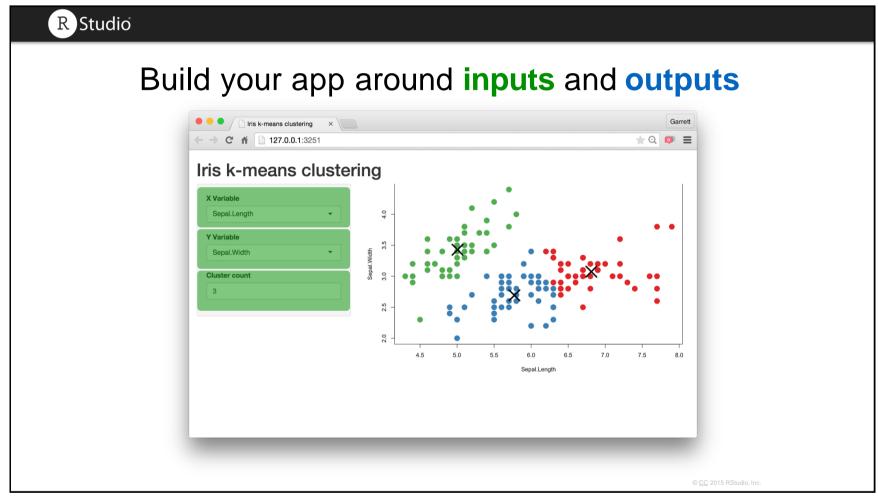


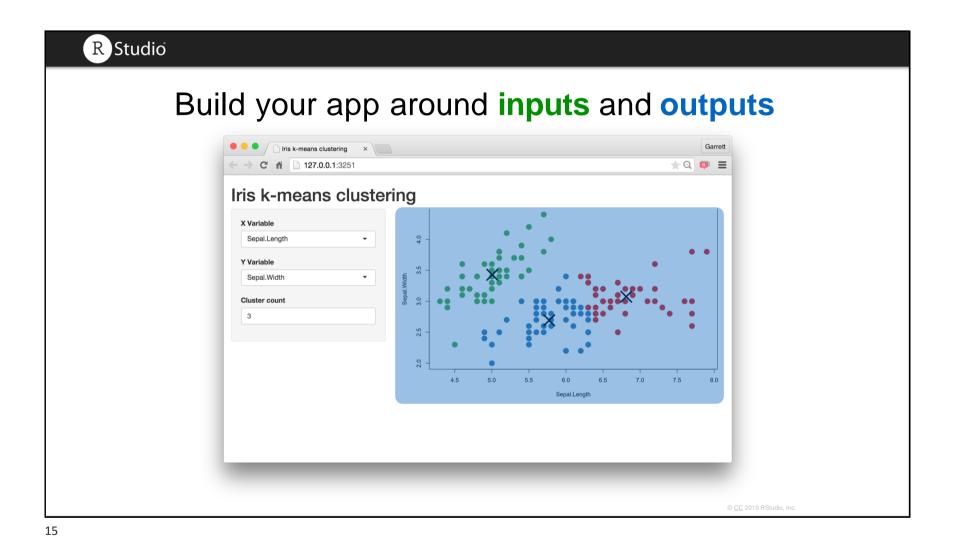




Build your apparound Inputs and Outputs

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Inputs

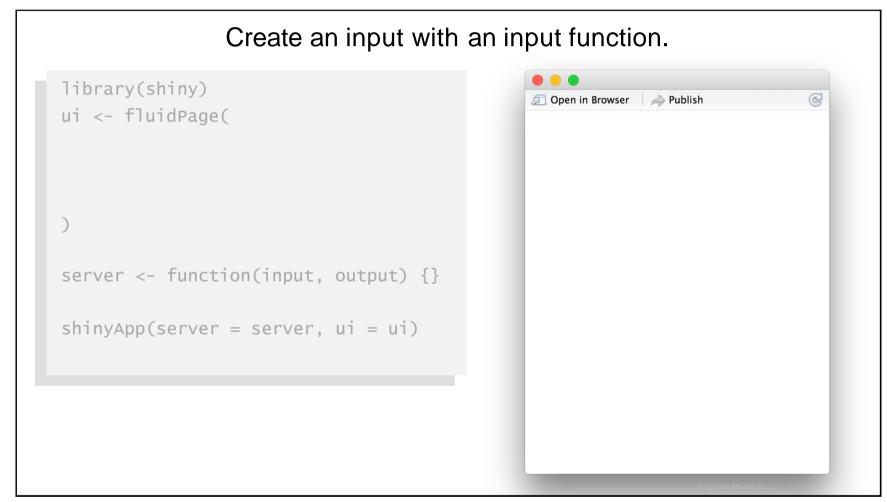
sliderInput(inputId = "num", label = "Choose a number",

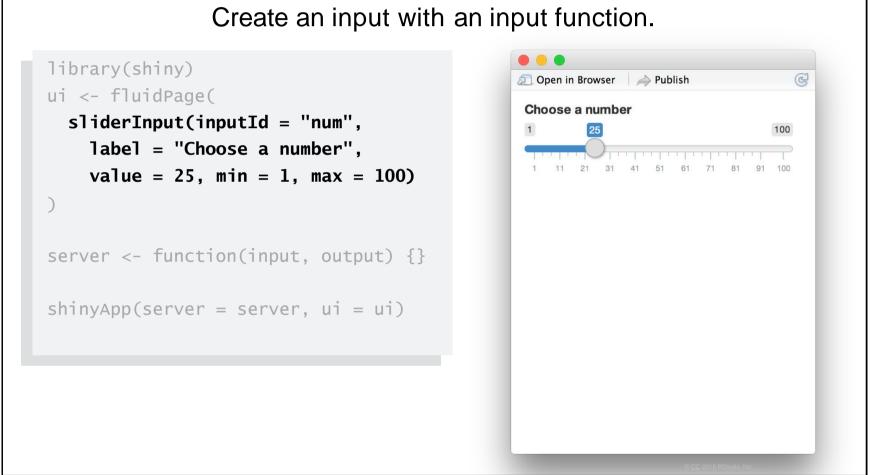
Create an input with an *Input() function.

```
<div class="form-group shiny-input-container">
   <label class="control-label" for="num">Choose a number</label>
   <input class="js-range-slider" id="num" data-min="1" data-max="100"
    data-from="25" data-step="1" data-grid="true" data-grid-num="9.9"
    data-grid-snap="false" data-prettify-separator="," data-keyboard="true"
    data-keyboard-step="1.01010101010101"/>
</div>
```

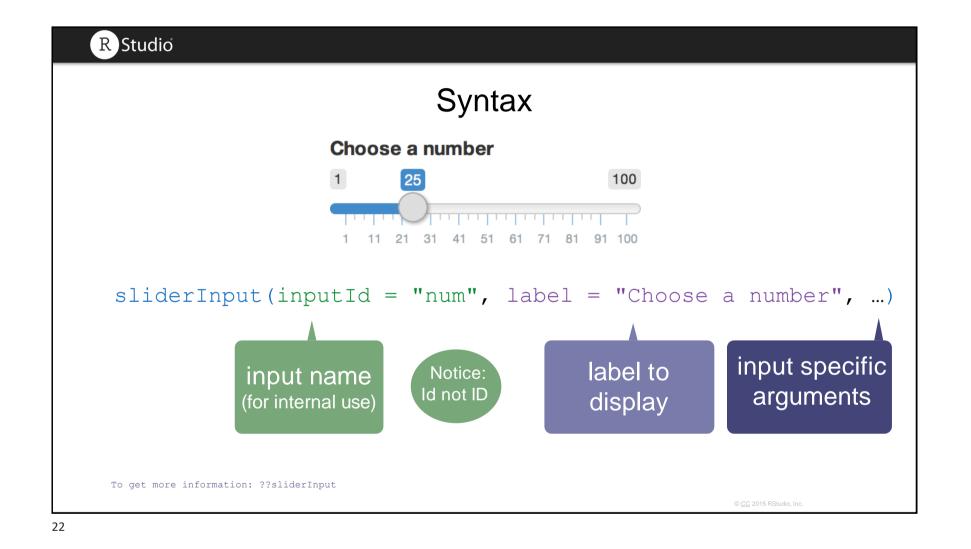
value = 25, min = 1, max = 100)

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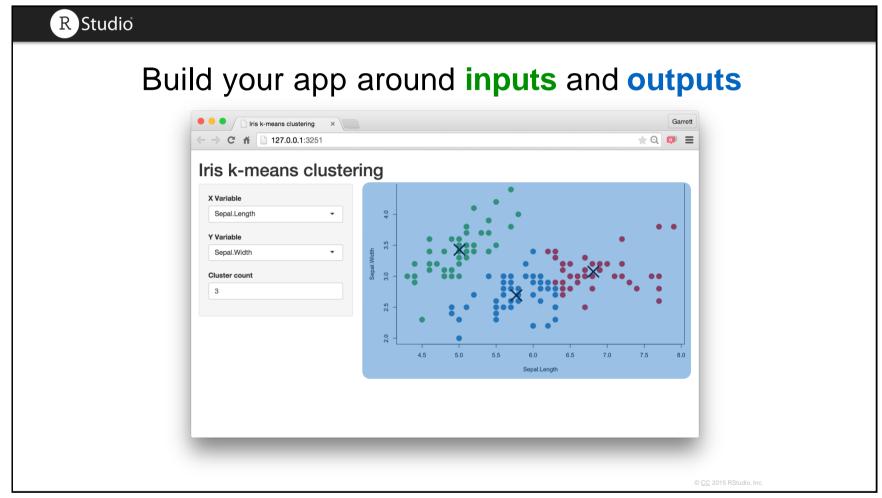




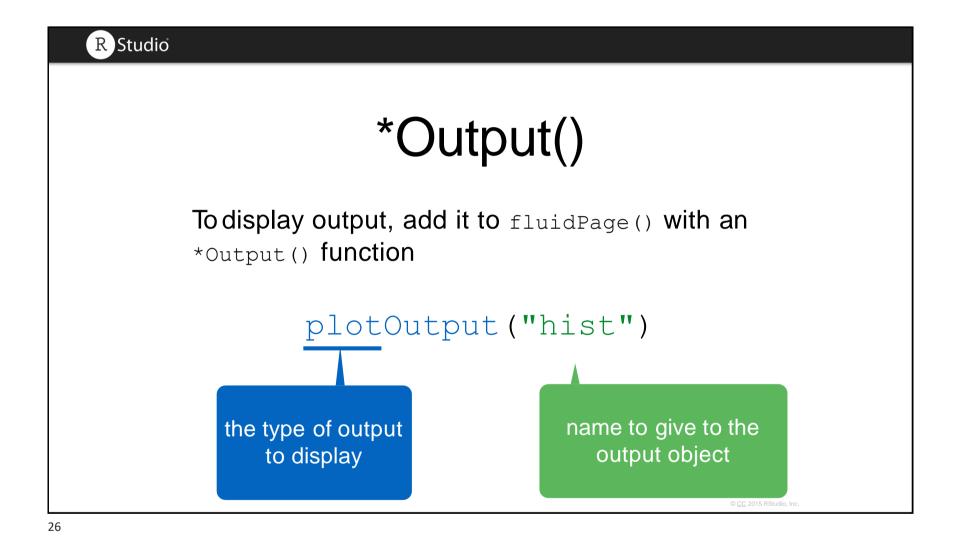


Outputs

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R Studio .	
Function	Inserts
<pre>dataTableOutput()</pre>	an interactive table
htmlOutput()	raw HTML
<pre>imageOutput()</pre>	image
plotOutput()	plot
tableOutput()	table
textOutput()	text
uiOutput()	a Shiny UI element
<pre>verbatimTextOutput()</pre>	text
	© <u>CC</u> 2015 RStudio, Inc.



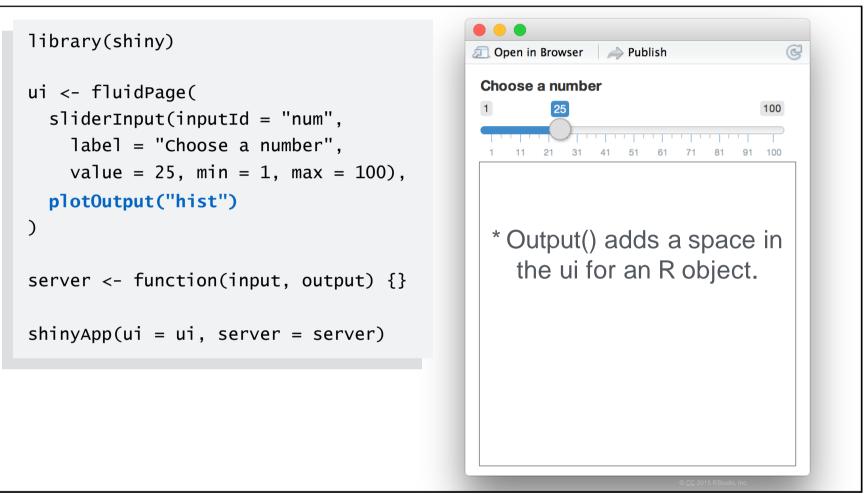
```
library(shiny)
ui <- fluidPage(
    sliderInput(inputId = "num",
        label = "Choose a number",
        value = 25, min = 1, max = 100),
    plotOutput("hist")
)
server <- function(input, output) {}
shinyApp(ui = ui, server = server)</pre>
```

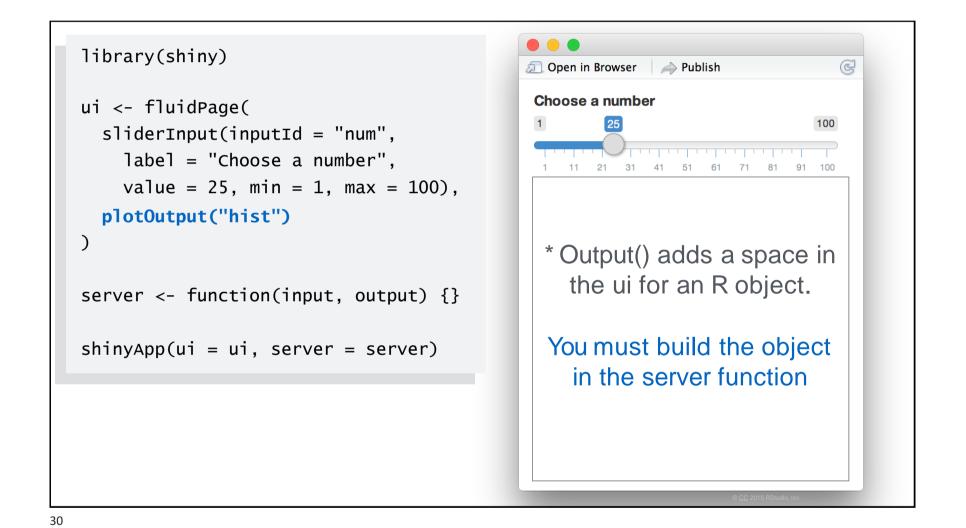
```
library(shiny)

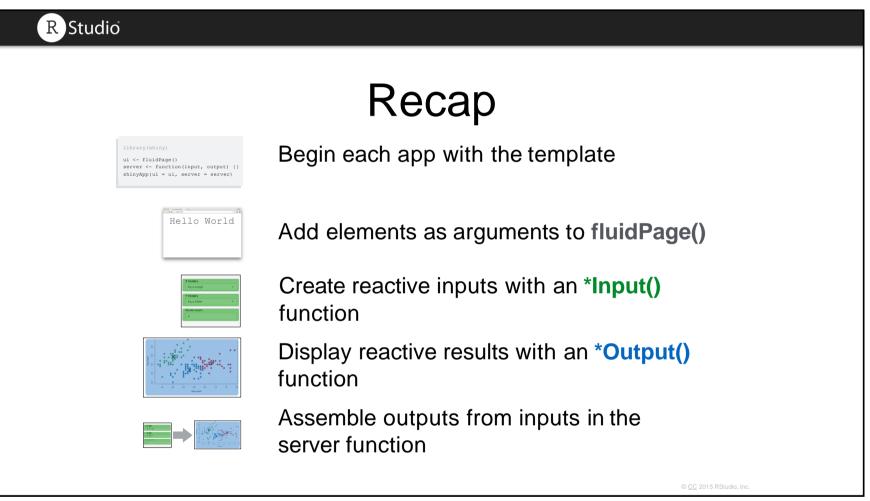
ui <- fluidPage(
    sliderInput(inputId = "num",
        label = "choose a number",
        value = 25, min = 1, max = 100),
    plotOutput("hist")
)

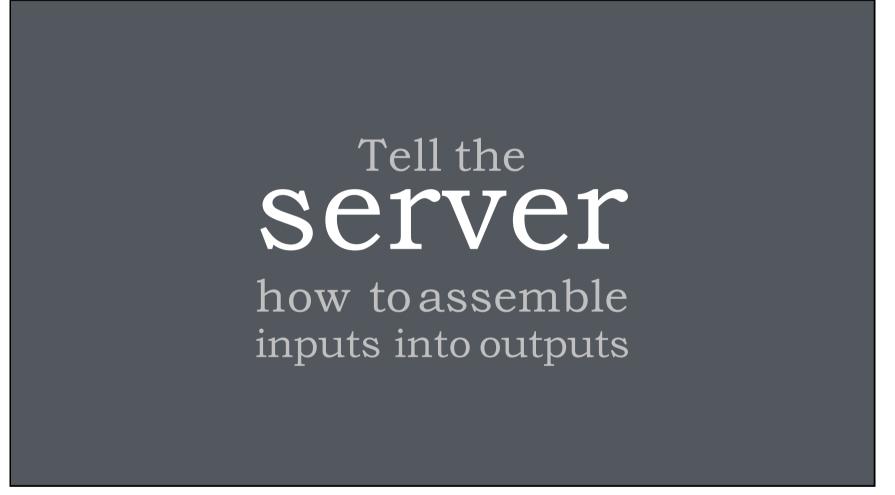
server <- function(input, output) {}

shinyApp(ui = ui, server = server)</pre>
```



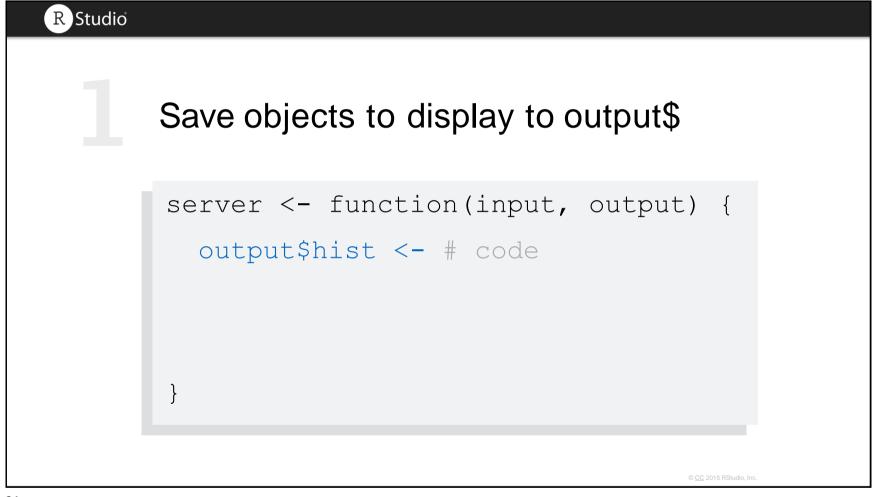


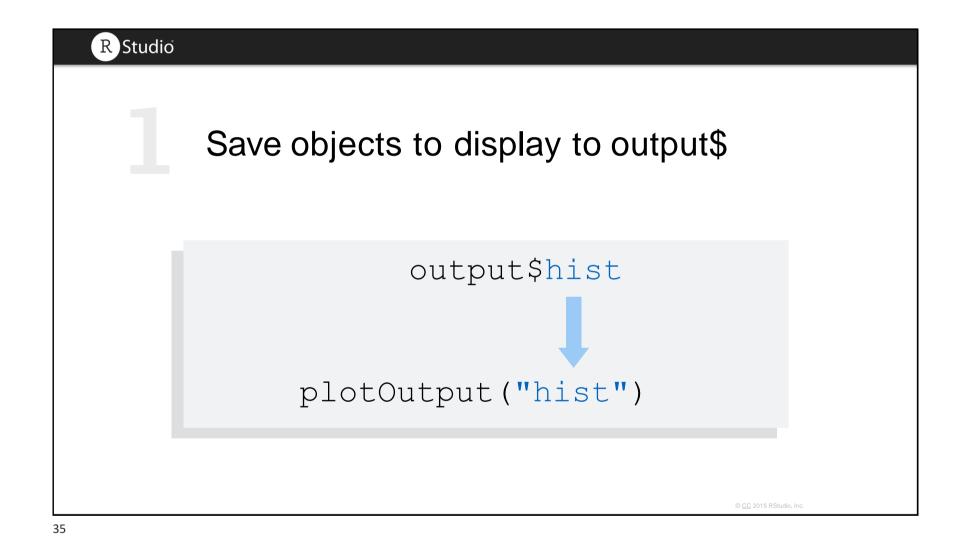


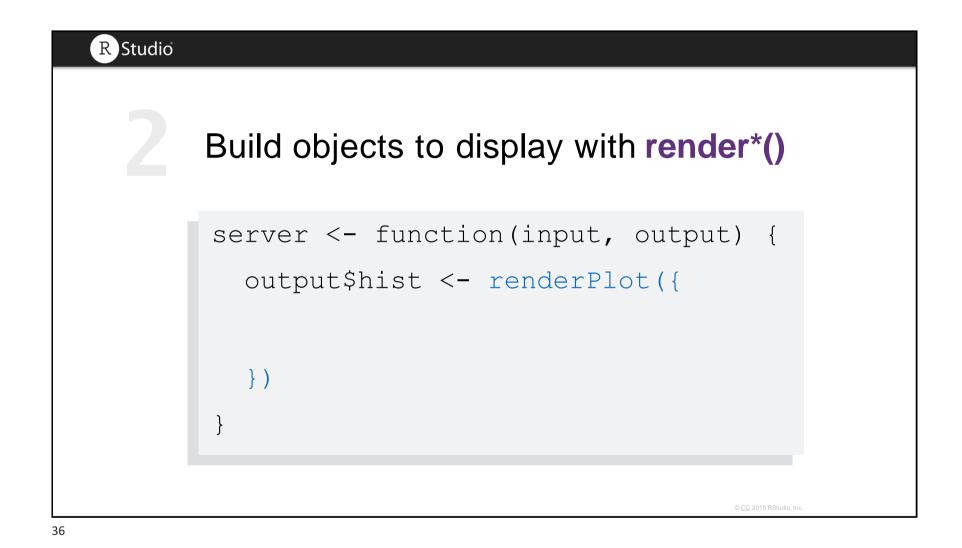


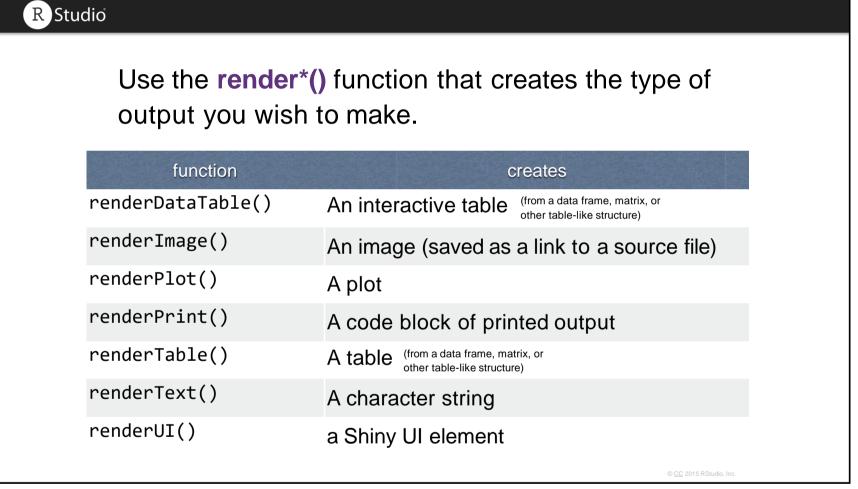
```
Use 3 rules to write the server function

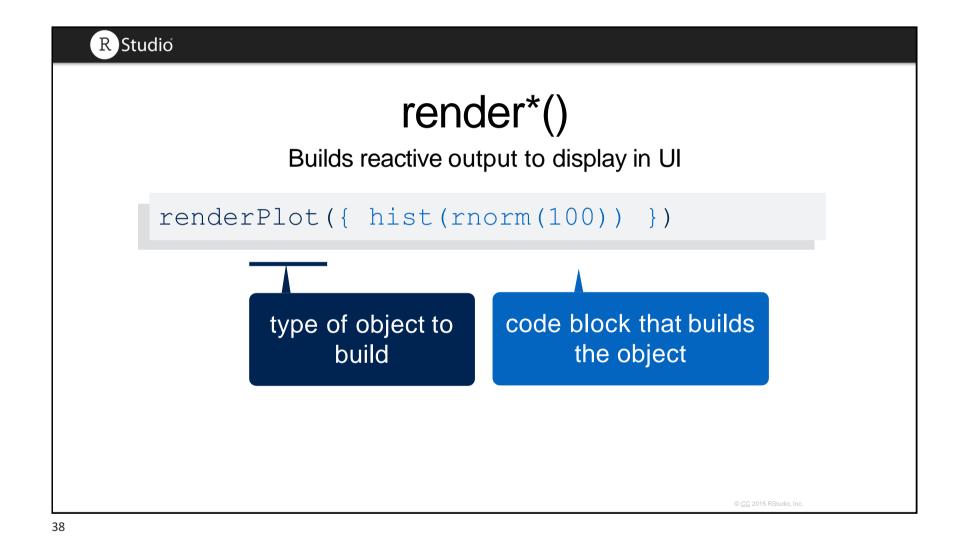
server <- function(input, output) {
}
```











```
Build objects to display with render*()

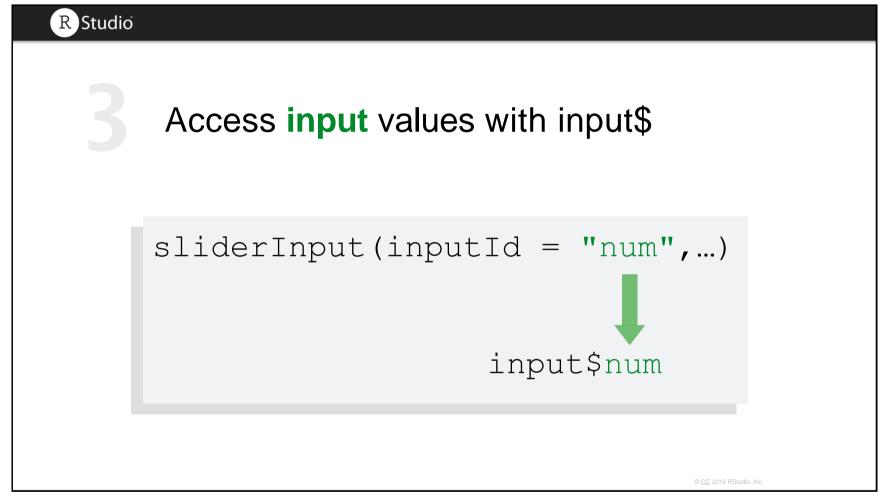
server <- function(input, output) {
  output$hist <- renderPlot({
    hist(rnorm(100))
    })
}
```

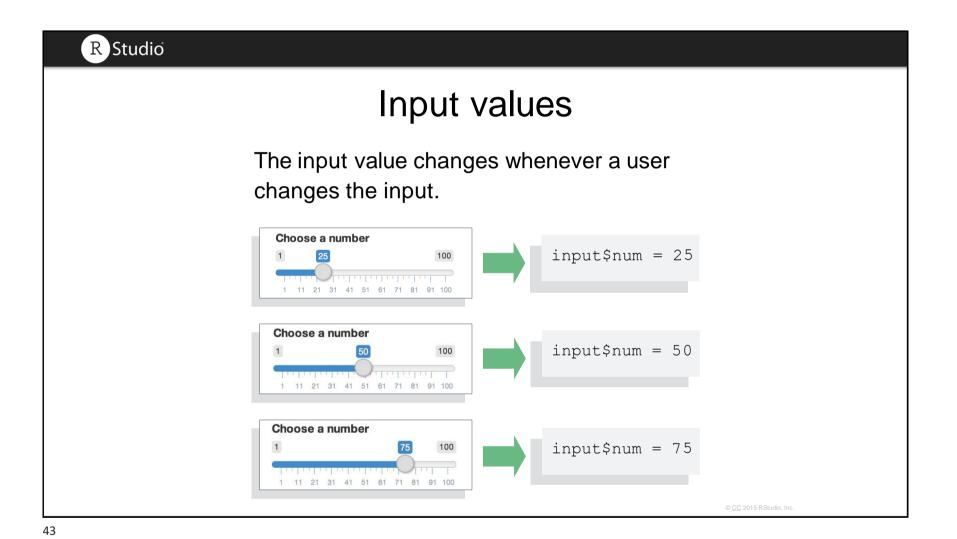
```
Build objects to display with render*()

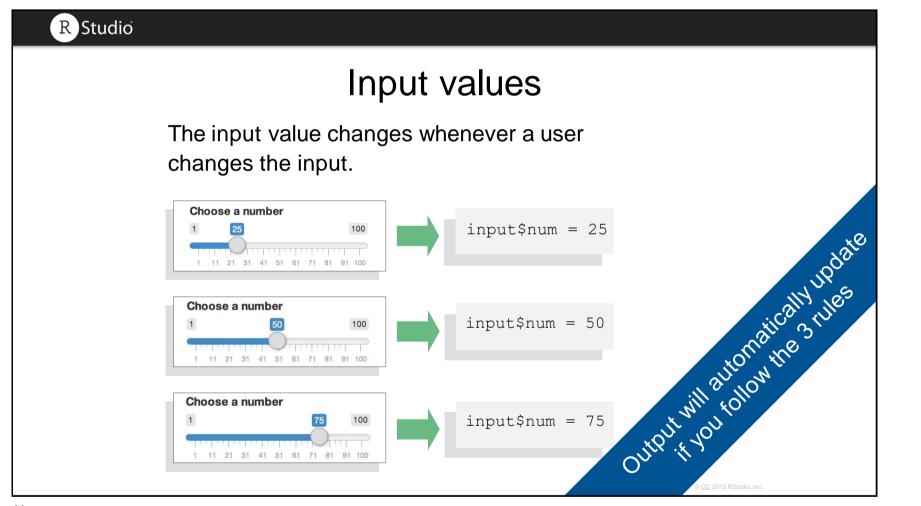
server <- function(input, output) {
  output$hist <- renderPlot({
    title <- "100 random normal values"
    hist(rnorm(100), main = title)
  })
}
```

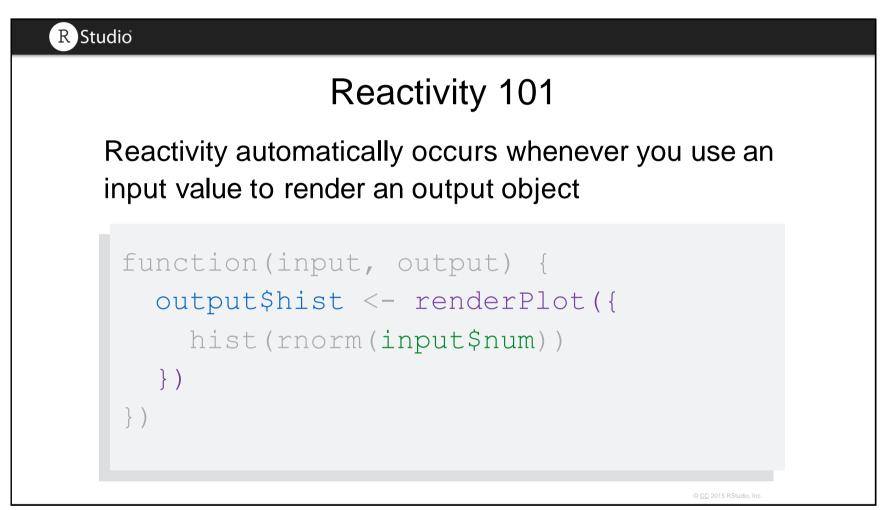
```
Access input values with input$

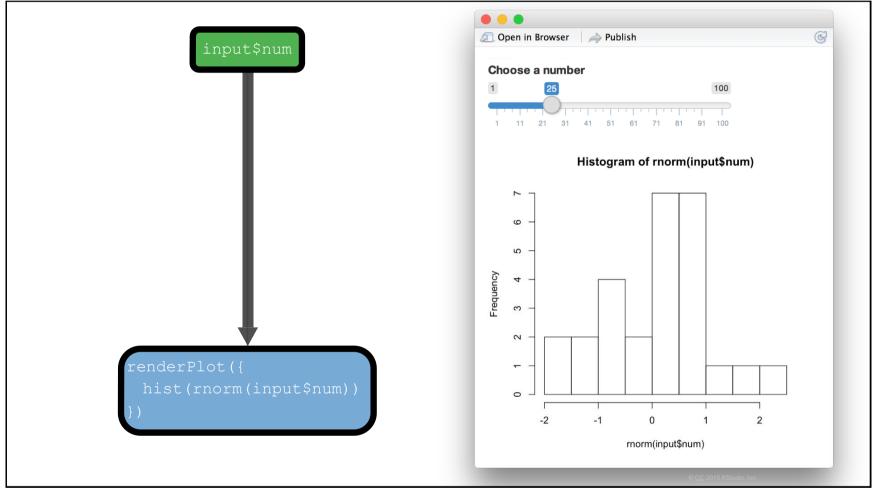
server <- function(input, output) {
  output$hist <- renderPlot({
    hist(rnorm(input$num))
  })
}
```

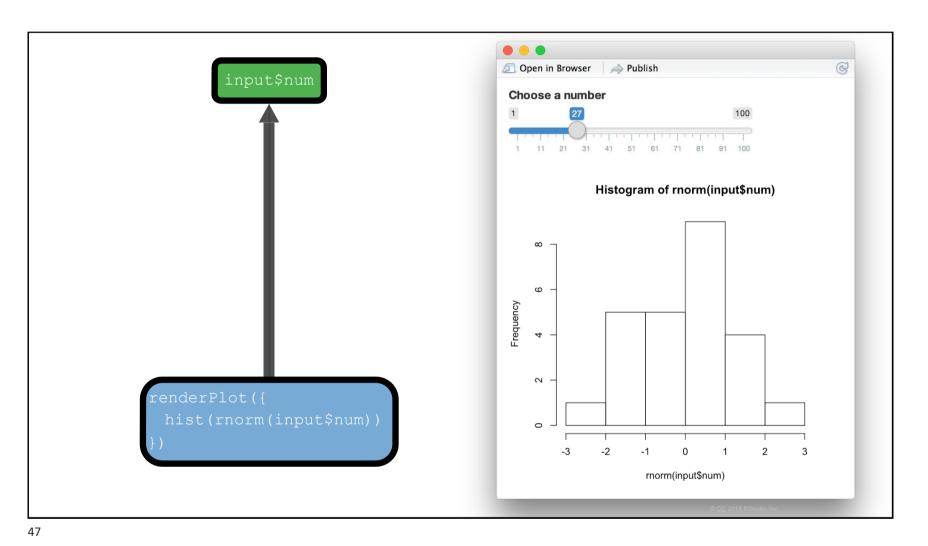












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