

# R Shiny - Part II

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Workshop on Plotting in R

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NBIS, SciLifeLab

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# Reactivity

```
# 02-two-outputs

library(shiny)

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

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

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

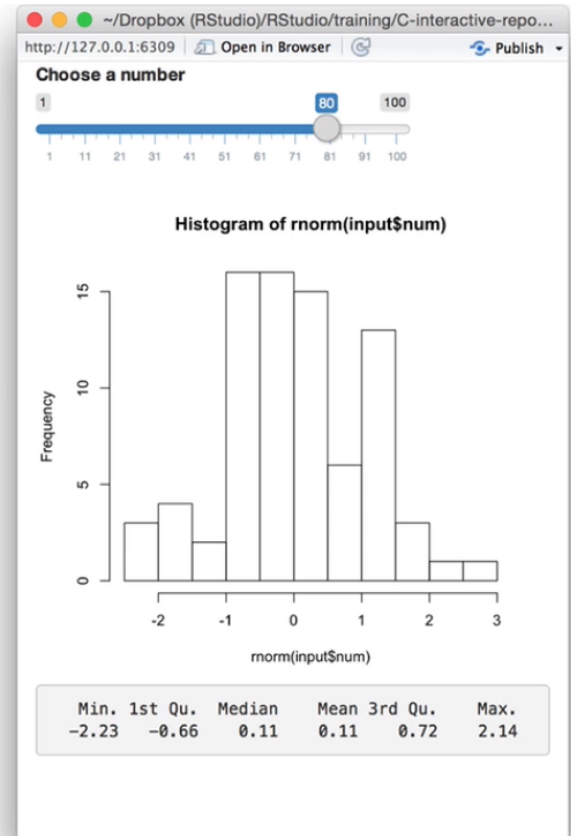


# Reactivity

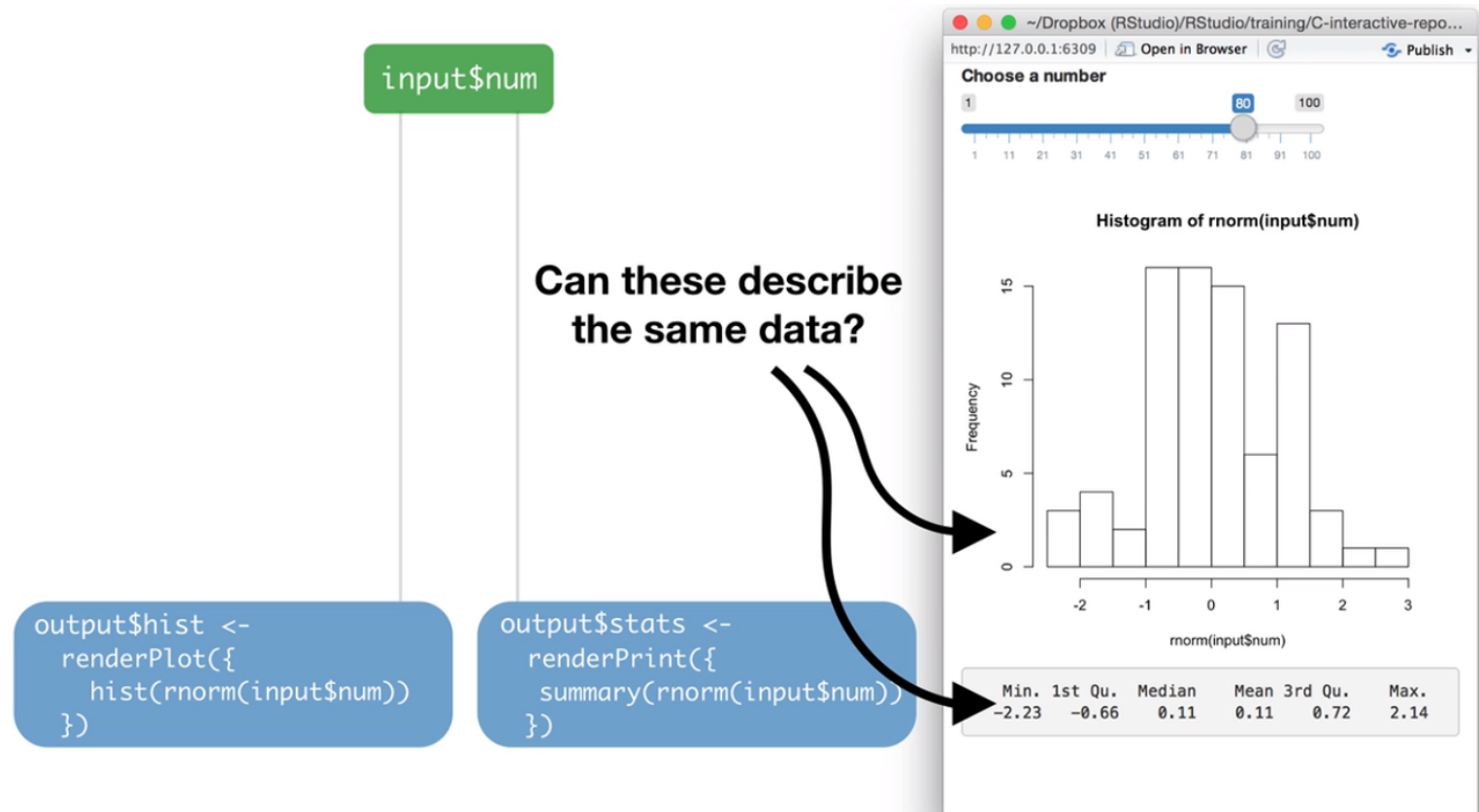
input\$num

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

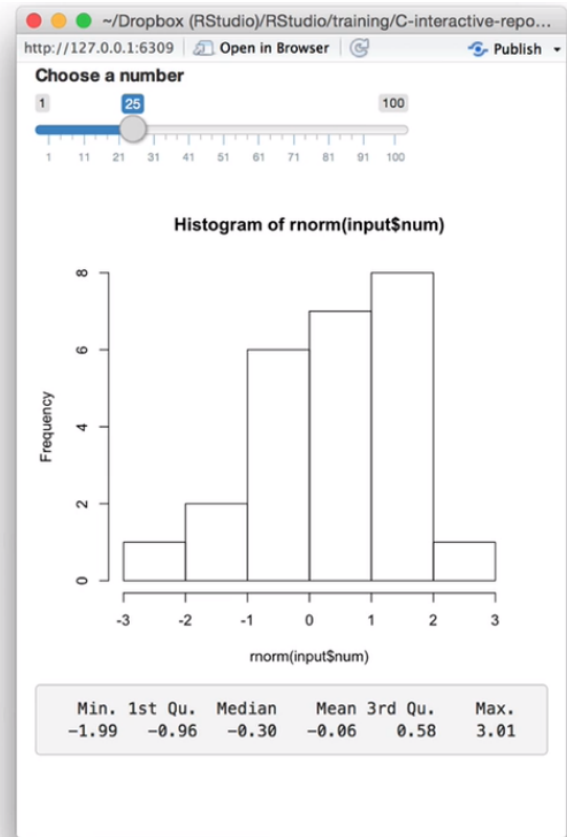
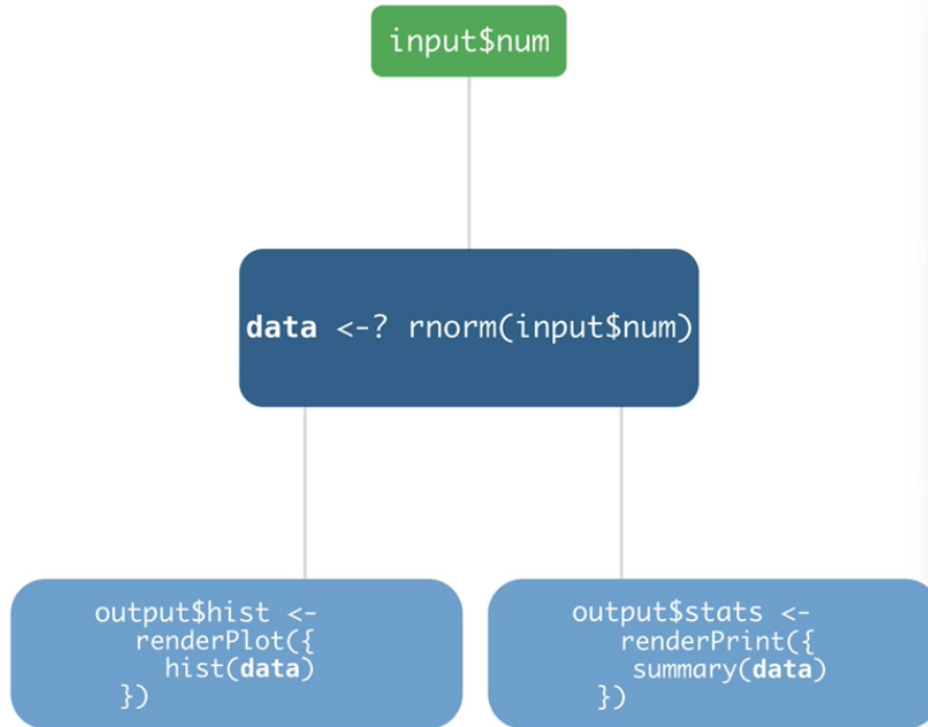
```
output$stats <-  
  renderPrint({  
    summary(rnorm(input$num))  
  })
```



# Reactivity



# Reactivity



## reactive()

Builds a reactive object (reactive expression)

```
data <- reactive( { rnorm(input$num) } )
```





# Thank you. Questions?

Slide courtesy: Roy Francis (NBIS, RaukR2021)

R version 4.1.0 (2021-05-18)

Platform: x86\_64-pc-linux-gnu (64-bit)

OS: Ubuntu 18.04.5 LTS

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Built on: 📅 22-Jul-2021 at 🕒 14:05:05

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