

Actividad Shiny

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```
ui <- fluidPage(  
  
  titlePanel("Probability simulator"),  
  
  selectInput(inputId = "dist", label = "Distribution", choices = c("Normal", "Gamma")),  
  sliderInput(inputId = "cant", label = "Sample size", min = 1, max = 500, value = 30),  
  sliderInput(inputId = "media", label = "Sample mean", min = 0, max = 500, value = 0),  
  sliderInput(inputId = "desvio", label = "Sample standard deviation", min = 0, max = 500, value = 1),  
  
  plotOutput("hist")  
)  
server <- function(input, output){  
  output$hist <- renderPlot({  
    if(input$dist == "Normal") {  
      tibble(x = rnorm(n = input$cant,  
                      mean = input$media,  
                      sd = input$desvio)) %>%  
  
      ggplot() +  
      geom_histogram(aes(x, y = ..density..))  
    }  
    else {  
      tibble(x = rgamma(n = input$cant,  
                      shape = (input$media / input$desvio)^2,  
                      scale = (input$desvio^2 / input$media))) %>%  
  
      ggplot() +  
      geom_histogram(aes(x, y = ..density..))  
    }  
  })  
}  
shinyApp(ui, server)
```