Anti-pattern

- App - When I click a button, display a plot

- Anti-pattern

  -

- Correct Pattern

```r
observeEvent(input$button, {
  output$badpattern <- renderPlot({
    hist(runif(input$button))
  })
})
```

```r
click_count <- eventReactive(
  input$button,
  {
    # `req()`uires a non-zero value
    # Prevents the image from appearing
    #  until button is clicked
    req(input$button)
    input$button
  }
)

output$goodpattern <- renderPlot({
  hist(runif(click_count()))
})
```

Anti-pattern

- App - When I click a button, display a plot

- Anti-pattern

-
```
observeEvent(input$button, {
  output$badpattern <- renderPlot({
    hist(runif(input$button))
  })
})
```

❌

- Correct Pattern

```
click_count <- eventReactive(
  input$button,
  {
    # `req()`uires a non-zero value
    # Prevents the image from appearing
    #  until button is clicked
    req(input$button)
    input$button
  }
)
output$goodpattern <- renderPlot({
  hist(runif(click_count()))
})
```

✓

Anti-pattern

- **Demo:** http://bit.ly/spdc-reactlog-demo

- After 1 click