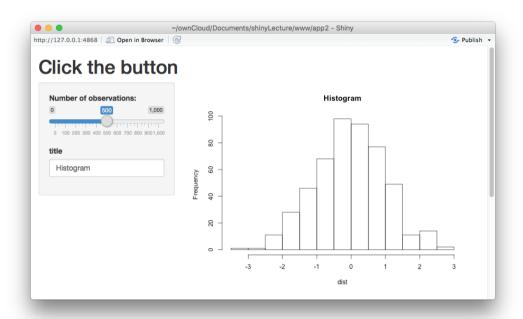
R과 Shiny를 이용한 Web Application의 제작(II)

문건웅

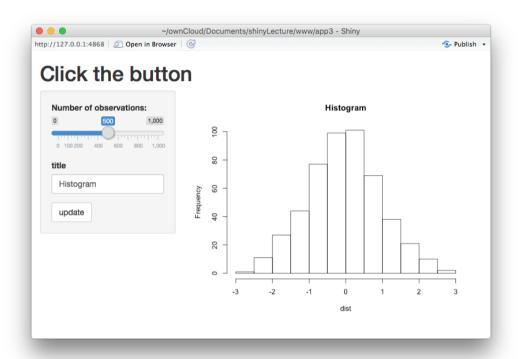
2018-3-21

2. Reactivity



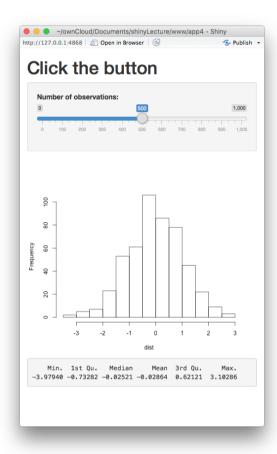
shiny::runGitHub('shinyLecture2', 'cardiomoon',subdir='inst/app2')

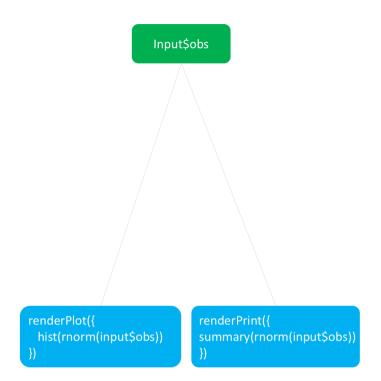
3. Stop reactions with isolate()

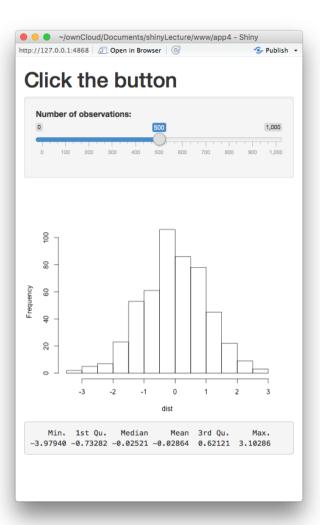


shiny::runGitHub('shinyLecture2', 'cardiomoon',subdir='inst/app3')

4. one input, two output







reactive()

• reactive 함수로 반응성 객체를 만든다.

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

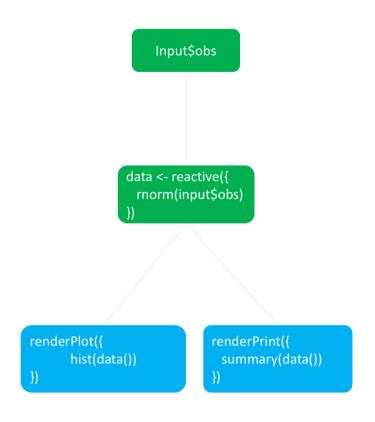
• 이 객체는 reactive value가 변할 때마다 반응한다.

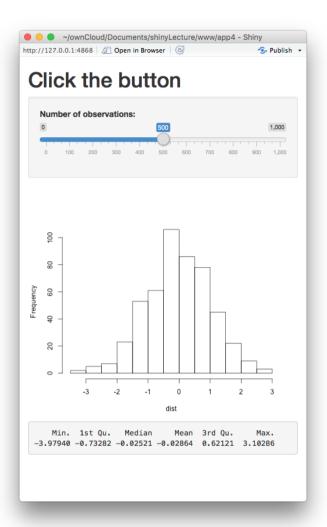
반응성 객체

반응성 객체의 두가지 면에서 특별하다.

data()

- 반응성 객체를 호출할 때는 함수처럼 호출한다.
- 반응성 객체는 그 값을 임시로 저장한다(cache).
 - ㅇ 무효화되지 않을 경우 가장 최근의 값을 반환한다.



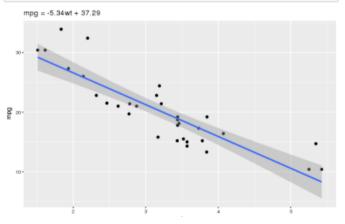


shiny::runGitHub('shinyLecture2', 'cardiomoon',subdir='inst/app5')

6. Download knitr Reports

Download a Report





shiny::runGitHub('shinyLecture2', 'cardiomoon',subdir='inst/app13')

Report.Rmd File

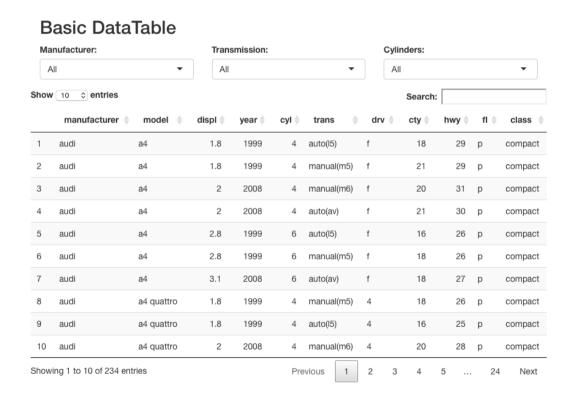
```
😜 shinyLecture.Rmd 🗴 😜 ShinyGadget.Rmd 🗴 😜 test.Rmd 🗴 😢 server.R 🗴 😢 ui.R 🗴 😜 Untitled1 🗴 😜 report.Rmd 🗴
Insert ▼ | ☆ 🔠 📑 Run ▼
 1 - ---
  2 title: "Regression Analysis"
 3 output: html_document
  5
 6 ' ```{r setup, include=FALSE}
 7 knitr::opts_chunk$set(echo = TRUE,comment=NA)
 9
10 Summary of Regression Model:
11
12 - ```{r model, echo=FALSE}
13 options(digits = 2)
14 fit <- eval(parse(text=paste0("lm( mpg ~",input$x,",data = mtcars)")))
15 b <- coef(fit)
 16
 17
18 - ```{r}
 19 summary(fit)
 20
 21
 22 The fitting result is $mpg = `r b[2]``r input$x`+`r b[1]`$.
 23 Below is a scatter plot with the regression line.
 24
 25 - ```{r plot, echo=FALSE, fig.height=4}
 26 gaplot(data=mtcars,aes_string(reg(input$x),"mpg"))+
 27
            geom_point()+
 ggtitle(regEquation())
 30
 31
```

https://github.com/cardiomoon/shinyLecture2/tree/master/inst/app13

PDF 다운로드를 위해서는

- 자신의 컴퓨터에 LaTex이 설치되어 있어야 한다. (http://ktug.or.kr)
- 또는 LaTex가 설치된 shiny server 에서 shiny app을 실행하여야 한 다.

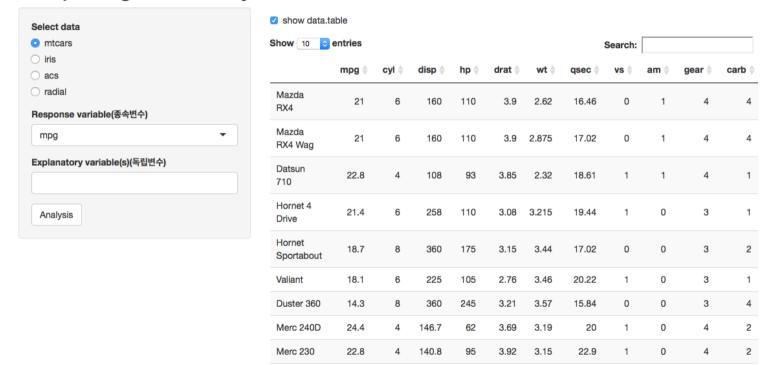
7. Basic DataTable



shiny::runGitHub('shinyLecture2', 'cardiomoon',subdir='inst/app14')

8. Advanced App - Multiple Reactive Output

Multiple Regression Analysis



shiny::runGitHub('shinyLecture2', 'cardiomoon',subdir='inst/app15')

167.6

123

3.92

3.44

18.3

Previous

0

2 3

4

Next

19.2

Showing 1 to 10 of 32 entries

Merc 280

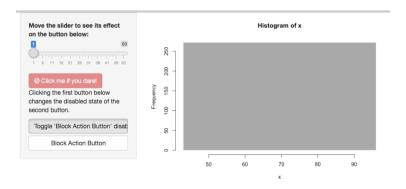
Add-on packages for shiny

1. shinyBS

homepage: https://ebailey78.github.io/shinyBS/index.html

Twitter Bootstrap Components for Shiny. Add additional functionality and interactivity to your Shiny applications.

bsButton, bsToolip, bsPopover

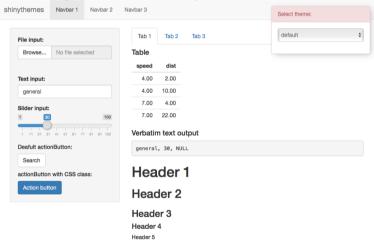


shiny::runGitHub('shinyLecture2', 'cardiomoon',subdir='inst/app16')

2. Shiny themes

Bootstrap themes

homepage: https://rstudio.github.io/shinythemes/

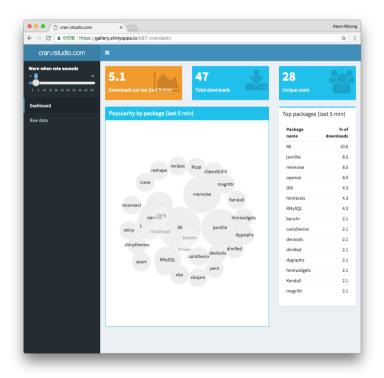


https://gallery.shinyapps.io/117-shinythemes/

3.shinydashboard

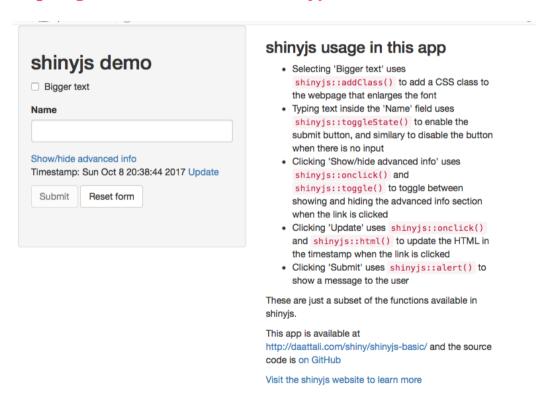
shinydashboard makes it easy to use Shiny to create dashboards like these:

homepage: https://rstudio.github.io/shinydashboard/index.html



4.shinyjs

homepage: https://github.com/daattali/shinyjs



http://daattali.com/shiny/shinyjs-basic/