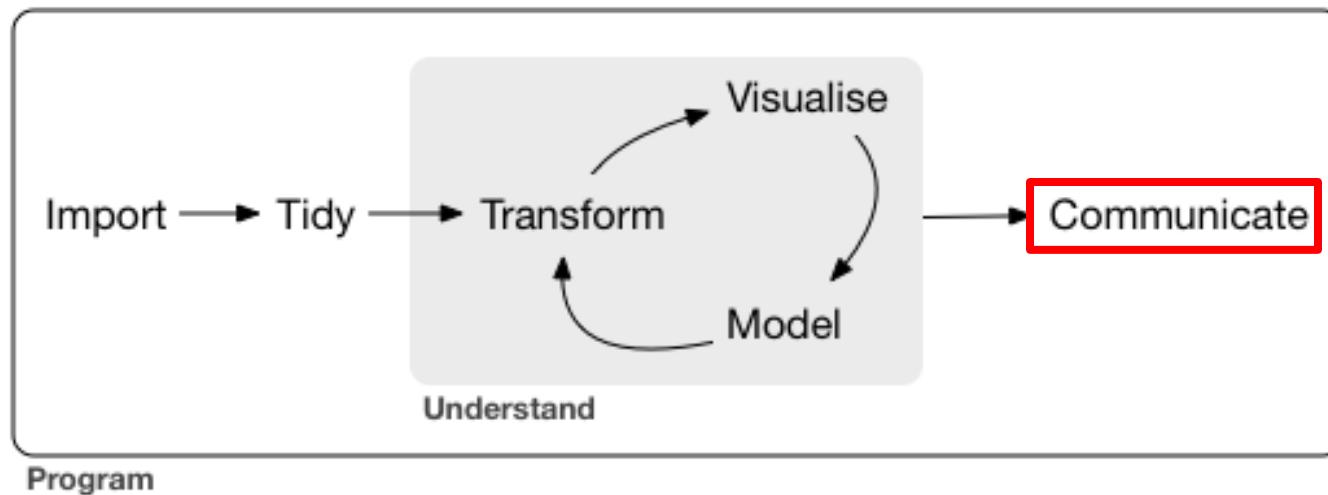


RShiny and RMarkdown

The Data Science Pipeline



Old Faithful Data



faithful {datasets}

R Documentation

Old Faithful Geyser Data

Description

Waiting time between eruptions and the duration of the eruption for the Old Faithful geyser in Yellowstone National Park, Wyoming, USA.

Usage

`faithful`

Format

A data frame with 272 observations on 2 variables.

[,1] eruptions numeric Eruption time in mins
[,2] waiting numeric Waiting time to next eruption (in mins)

```
> as.tibble(faithful)
# A tibble: 272 x 2
  eruptions waiting
*     <dbl>    <dbl>
1      3.6      79
2      1.8      54
3      3.33     74
4      2.28     62
5      4.53     85
6      2.88     55
7      4.7      88
8      3.6      85
9      1.95     51
10     4.35     85
# ... with 262 more rows
```

RShiny | RMarkdown

```
1 ---  
2 title: "Old Faithful Initial"  
3 author: "Bivin"  
4 date: "4/4/2019"  
5 output: html_document  
6 runtime: shiny  
---  
8  
9 ```{r setup, include=FALSE}  
10 knitr::opts_chunk$set(echo = TRUE)  
11  
12  
13 ```{r echo = FALSE}  
14  
15 library(shiny) ←  
16  
17 ui <- fluidPage(  
18  
19 # App title ----  
20 titlePanel("Ole Faithful App!"),  
21  
22 # Sidebar layout with input and output definitions ----  
23 sidebarLayout(  
24  
25 # Sidebar panel for inputs ----  
26 sidebarPanel(  
27  
28 #Input: Slider for the number of bins ----  
29 sliderInput(inputId = "bins",  
30   label = "Number of bins:",  
31   min = 1,  
32   max = 50,  
33   value = 30)  
34 ),# end sidebarPanel  
35  
36 # Main panel for displaying outputs ----  
37 mainPanel(  
38  
39 # Output: Histogram ----  
40 plotOutput(outputId = "distPlot")  
41  
42 ) # end main_sidebarLayout_fluid_page  
43 Output: Histogram ↓
```

```
43  
44 # Define server logic required to draw a histogram ----  
45 server <- function(input, output) {  
46  
47 # Histogram of the Old Faithful Geyser Data ----  
48 # with requested number of bins  
49 # This expression that generates a histogram is wrapped in a call  
50 # to renderPlot to indicate that:  
51 #  
52 # 1. It is "reactive" and therefore should be automatically  
53 # re-executed when inputs (input$bins) change  
54 # 2. Its output type is a plot  
55 output$distPlot <- renderPlot({  
56  
57  
58 x <- faithful$waiting  
59 bins <- seq(min(x), max(x), length.out = input$bins + 1)  
60  
61 hist(x, breaks = bins, col = "#75AADB", border = "white",  
62 xlab = "Waiting time to next eruption (in mins)",  
63 main = "Histogram of waiting times")  
64  
65 })  
66  
67 }  
68  
69 shinyApp(ui, server)  
70  
71 ...  
43:1 # Output: Histogram ↓ R Markdown ↓
```

RShiny | RMarkdown

~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/MSDS 6306 Spring 2019/Unit3-Tools For Data Science/RSTUDIO/Section407 - master - RStudio Section407

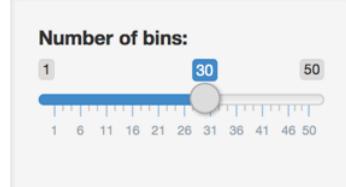
Run Document

```
1 ---  
2 title: "Old Faithful Initial"  
3 author: "Bivin"  
4 date: "4/4/2019"  
5 output: html_document  
6 runtime: shiny  
7 ---  
8  
9 ```{r setup, include=FALSE}  
10 knitr::opts_chunk$set(echo = TRUE)  
11 ```  
12  
13 ```{r echo = FALSE}  
14  
15 library(shiny)  
16  
17 ui <- fluidPage(  
18  
19 # App title ----  
20 titlePanel("Ole Faithful App!"),  
21  
22 # Sidebar layout with input and output definitions ----  
23 sidebarLayout(  
24  
25 # Sidebar panel for inputs ----  
26 sidebarPanel(  
27  
28 #Input: Slider for the number of bins ----  
29 sliderInput(inputId = "bins",  
30   label = "Number of bins:",  
31   min = 1,  
32   max = 50,  
33   value = 30)  
34 ),# end sidebarPanel
```

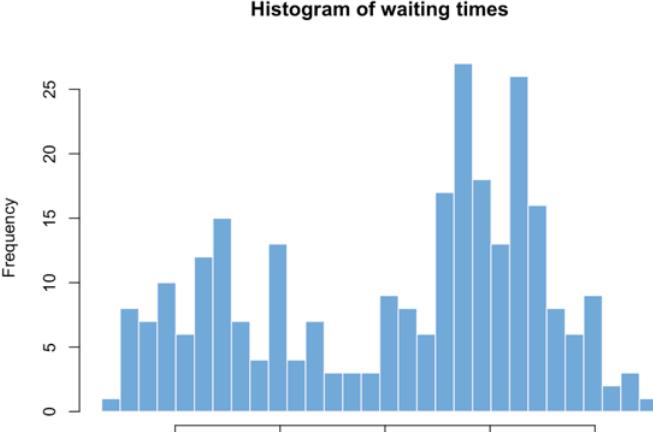
Old Faithful Initial
Bivin
4/4/2019

Ole Faithful App!

Number of bins:



Histogram of waiting times



RShiny | Separate Client and Server

```
1 library(shiny)
2
3 ui <- fluidPage(
4
5   # App title ----
6   titlePanel("Hello Shiny!"),
7
8   # Sidebar layout with input and output definitions ----
9   sidebarLayout(
10
11     # Sidebar panel for inputs ----
12     sidebarPanel(
13
14       # Input: Slider for the number of bins ----
15       sliderInput(inputId = "bins",
16                   label = "Number of bins:",
17                   min = 1,
18                   max = 50,
19                   value = 30),
20
21     ),
22
23
24   # Main panel for displaying outputs ----
25   mainPanel(
26
27     # Output: Histogram ----
28     plotOutput(outputId = "distPlot")
29
30   )
31
32 )
33
```

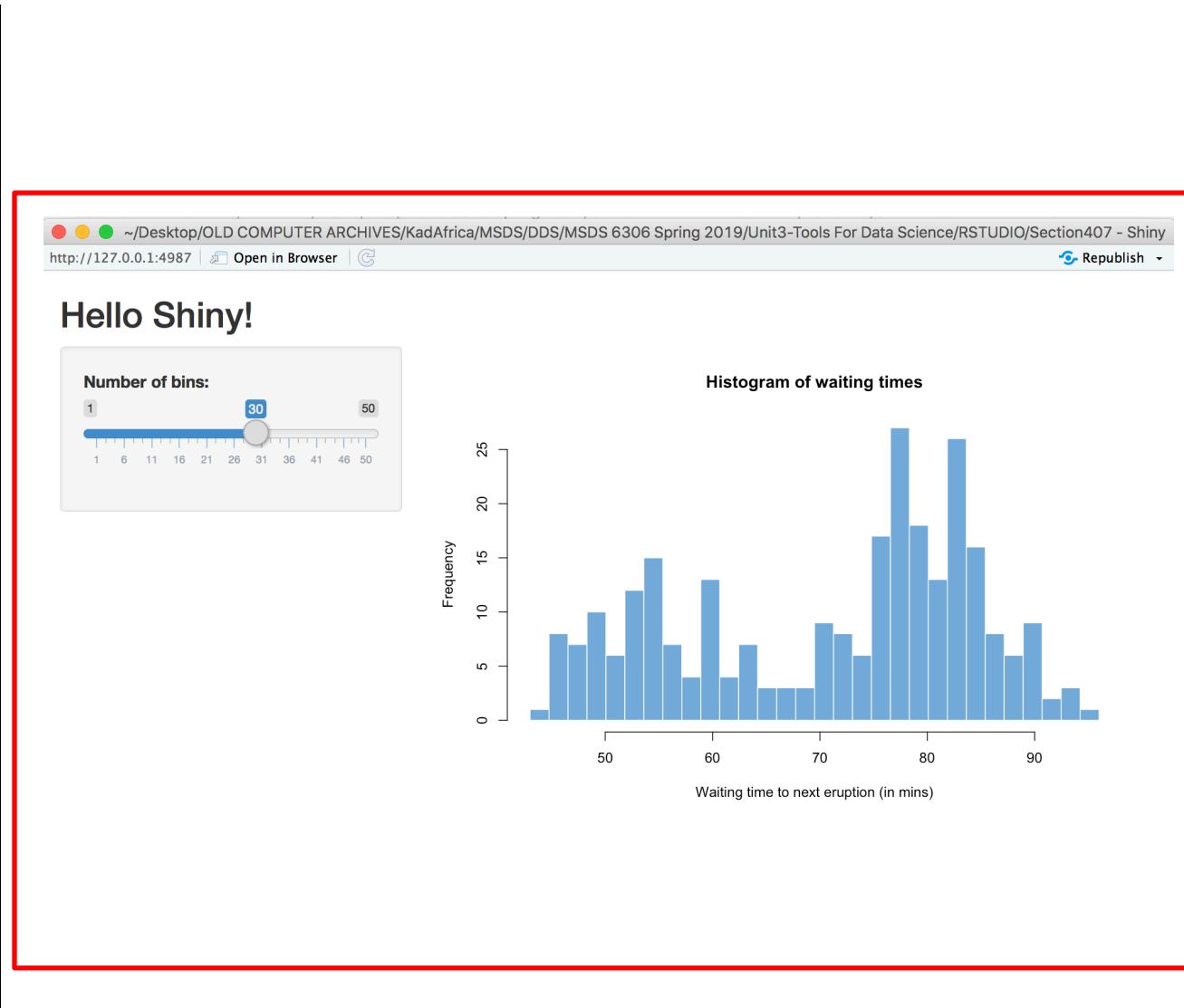
```
1 # Define server logic required to draw a histogram ----
2 server <- function(input, output) {
3
4   # Histogram of the Old Faithful Geyser Data ----
5   # with requested number of bins
6   # This expression that generates a histogram is
7   # wrapped in a call to renderPlot to indicate that:
8   #
9   # 1. It is "reactive" and therefore should be automatically
10  #    re-executed when inputs (input$bins) change
11  # 2. Its output type is a plot
12  output$distPlot <- renderPlot{
13
14    x      <- faithful$waiting
15    bins <- seq(min(x), max(x), length.out = input$bins + 1)
16
17    hist(x, breaks = bins, col = "#75AADB", border = "white",
18          xlab = "Waiting time to next eruption (in mins)",
19          main = "Histogram of waiting times")
20
21  }
22
23 }
```

```
> runApp()
```

RShiny | Separate Client and Server

```
ui.R x server.R x
Source on Save | Source
1 library(shiny)
2
3 ui <- fluidPage(
4
5   # App title ----
6   titlePanel("Hello Shiny!"),
7
8   # Sidebar layout with input and output definitions ----
9   sidebarLayout(
10
11     # Sidebar panel for inputs ----
12     sidebarPanel(
13
14       # Input: Slider for the number of bins ----
15       sliderInput(inputId = "bins",
16                   label = "Number of bins:",
17                   min = 1,
18                   max = 50,
19                   value = 30)
20
21     ),
22
23     # Main panel for displaying outputs ----
24     mainPanel(
25
26       # Output: Histogram ----
27       plotOutput(outputId = "distPlot")
28
29     )
30   )
31
32 )
33
```

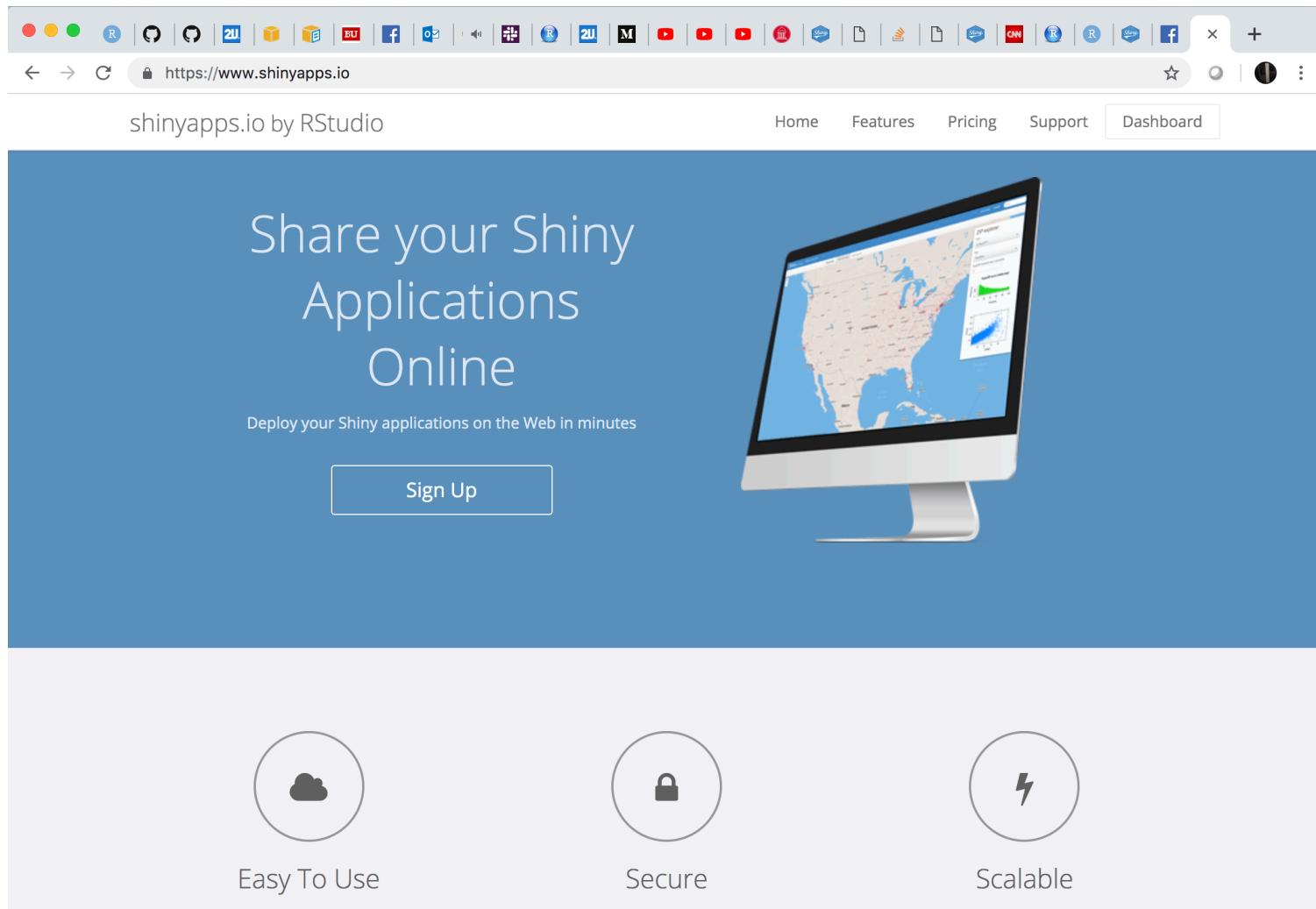
```
ui.R x server.R x
Run App | Deploy
1 # Define server logic required to draw a histogram ----
2 server <- function(input, output) {
3
4   # Histogram of the Old Faithful Geyser Data ----
5   # with requested number of bins
6   # This expression that generates a histogram is
7   # wrapped in a call to renderPlot to indicate that:
8   #
9   # 1. It is "reactive" and therefore should be automatically
10  #    re-executed when inputs ($bins) change
11  # 2. Its output type is a plot
12  output$distPlot <- renderPlot({
13
14   x <- faithful$waiting
15   bins <- seq(min(x), max(x), length.out = input$bins + 1)
16
17   hist(x, breaks = bins, col = "#75AADB", border = "white",
18         xlab = "Waiting time to next eruption (in mins)",
19         main = "Histogram of waiting times")
20
21 })
22
23 }
```



DataScience@SMU

RShiny and Shinyapps.io

Rshiny | Deploy to Shinyapps.io



A screenshot of a web browser displaying the shinyapps.io homepage. The URL https://www.shinyapps.io is visible in the address bar. The page features a large blue header with the text "Share your Shiny Applications Online" and a "Sign Up" button. To the right is an image of a computer monitor displaying a map-based Shiny application. Below the header, there are three circular icons with the text "Easy To Use", "Secure", and "Scalable" underneath them.

shinyapps.io by RStudio

Home Features Pricing Support Dashboard

Share your Shiny Applications Online

Deploy your Shiny applications on the Web in minutes

Sign Up

Easy To Use

Secure

Scalable

<https://www.shinyapps.io/>

Rshiny | Deploy to Shinyapps.io

The screenshot shows the shinyapps.io administration interface. The left sidebar has a dark blue background with white icons and text. It includes sections for Dashboard, Applications (with sub-options All, Running, Sleeping, Archived), and Account. The main content area has a light gray background. At the top, there's a search bar labeled "Search..." and a title "APPLICATIONS / ALL". Below that is a table with columns: Id, Name, Status, Instances, Deployed Date, and Created Date. Two rows are listed:

| Id | Name | Status | Instances | Deployed Date | Created Date |
|--------|---------------|----------|-----------|---------------|--------------|
| 839241 | AppNumber2 | Sleeping | 1 | Apr 4, 2019 | Apr 4, 2019 |
| 838224 | FirstShinyApp | Sleeping | 1 | Apr 4, 2019 | Apr 4, 2019 |

At the bottom, there are buttons for "Show 10 entries per page", navigation arrows, and links for First, Last, and page 1. The footer contains the text "© 2017 RStudio Inc. | All Rights Reserved | Terms Of Use".

<https://www.shinyapps.io/>

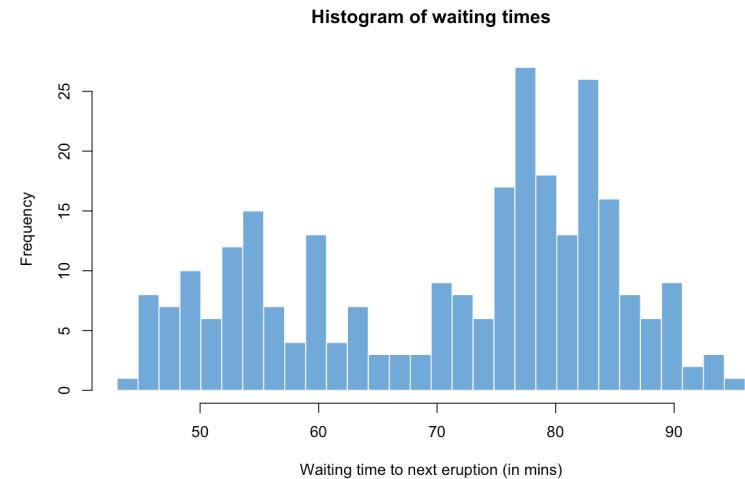
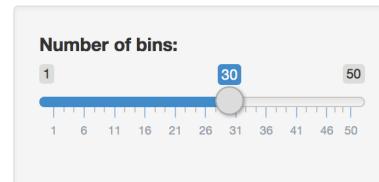
RShiny | Separate Client and Server

```
ui.R x server.R x
Source on Save | Source
1 library(shiny)
2
3 ui <- fluidPage(
4   # App title ----
5   titlePanel("Hello Shiny!"),
6
7   # Sidebar layout with input and output definitions ----
8   sidebarLayout(
9     # Sidebar panel for inputs ----
10    sidebarPanel(
11      # Input: Slider for the number of bins ----
12      sliderInput(inputId = "bins",
13                   label = "Number of bins:",
14                   min = 1,
15                   max = 50,
16                   value = 30)
17
18    ),
19
20    # Main panel for displaying outputs ----
21    mainPanel(
22      # Output: Histogram ----
23      plotOutput(outputId = "distPlot")
24    )
25  )
26
27  )
28
29
30  )
31
32  )
33 )
```

```
ui.R x server.R x
Run App | Deploy
1 # Define server logic required to draw a histogram ----
2 server <- function(input, output) {
3
4   # Histogram of the Old Faithful Geyser Data ----
5   # with requested number of bins
6   # This expression that generates a histogram is
7   # wrapped in a call to renderPlot to indicate that:
8   #
9   # 1. It is "reactive" and therefore should be automatically
10  #    re-executed when inputs (input$bins) change
11  # 2. Its output type is a plot
12  output$distPlot <- renderPlot({
13
14   x   <- faithful$waiting
15   bins <- seq(min(x), max(x), length.out = input$bins + 1)
16
17   hist(x, breaks = bins, col = "#75AADB", border = "white",
18         xlab = "Waiting time to next eruption (in mins)",
19         main = "Histogram of waiting times")
20
21 })
22
23 }
```

~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/MSDS 6306 Spring 2019/Unit3-Tools For Data Science/RSTUDIO/Section407_Shiny
http://127.0.0.1:4987 | Open in Browser | C Republish

Hello Shiny!

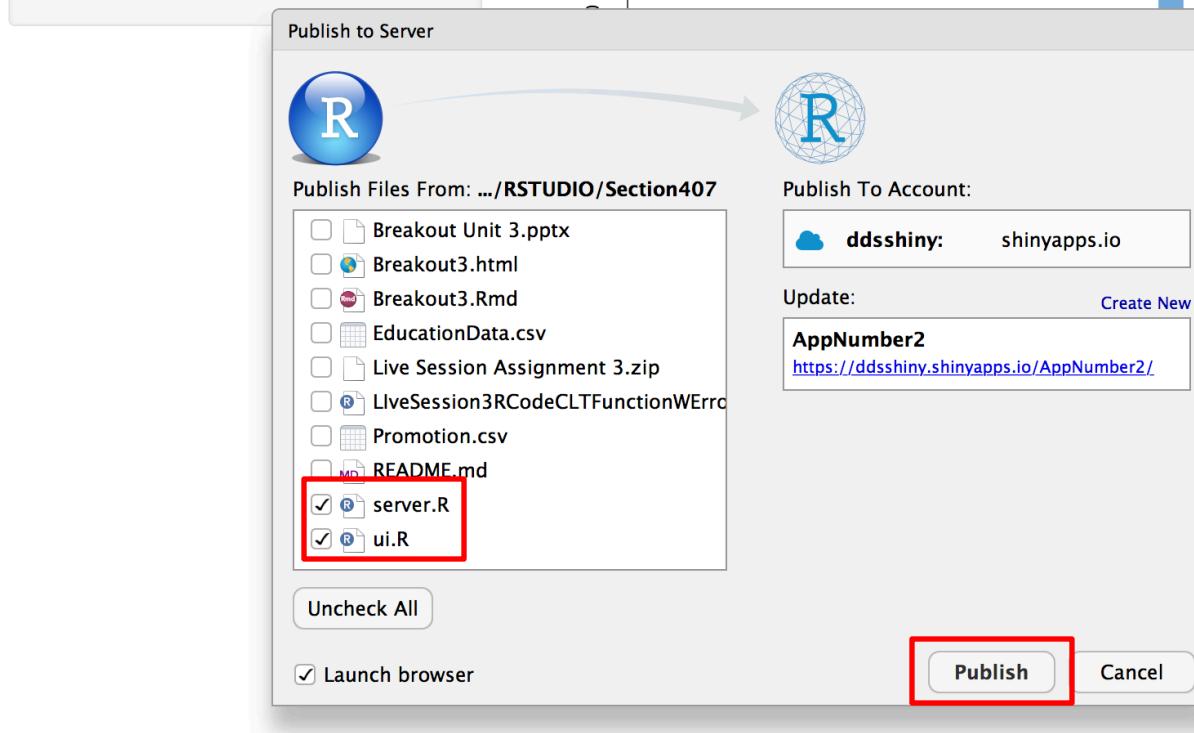
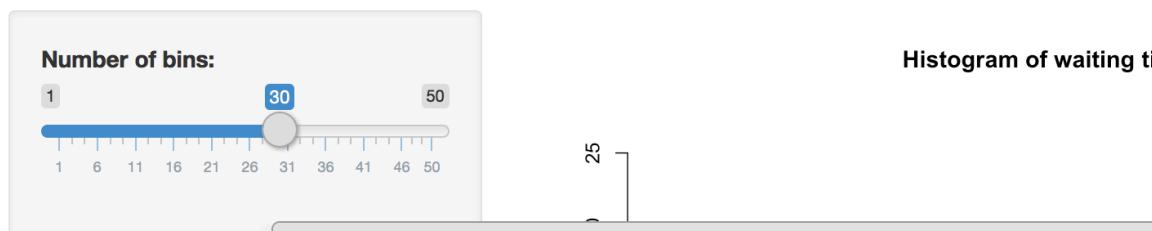


Console Terminal R Markdown Deploy
~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/MSDS 6306 Spring 2019
> runApp()

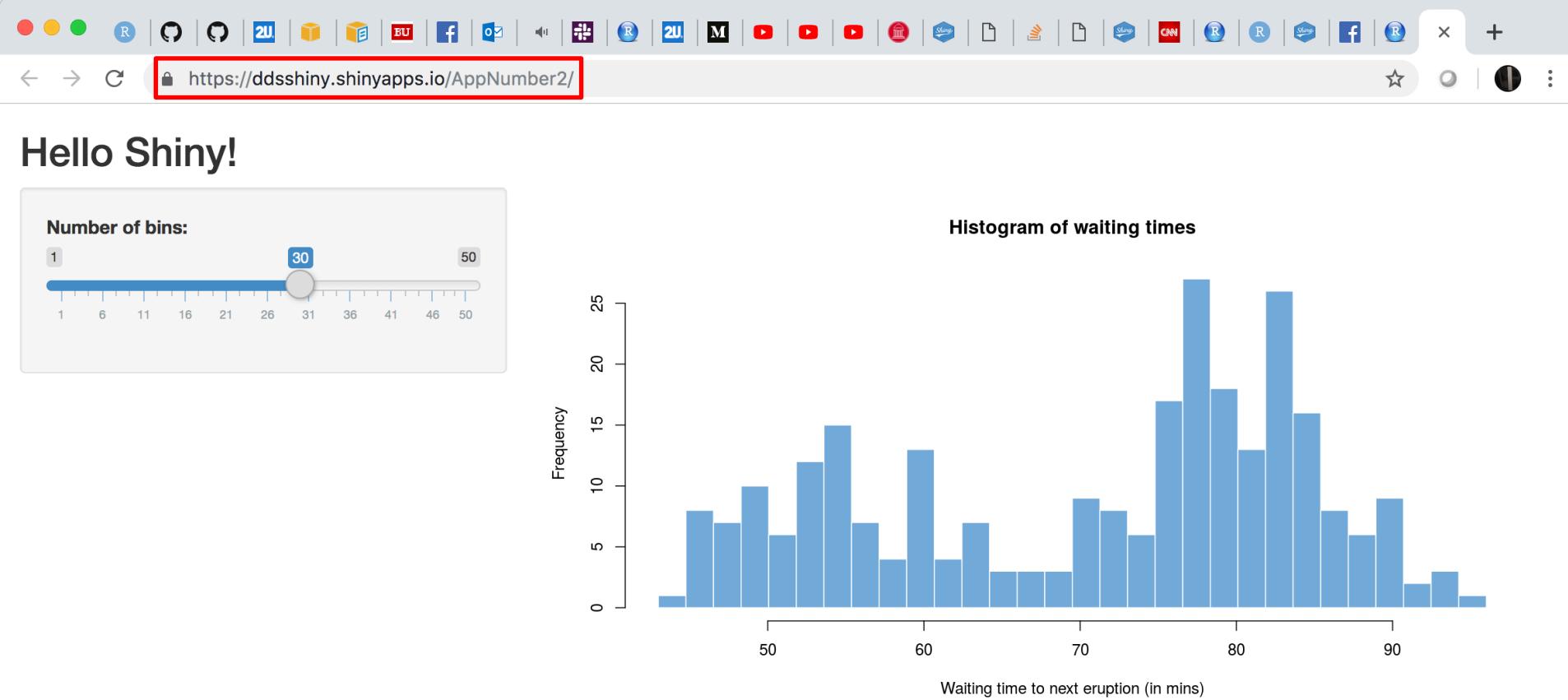
Rshiny | Deploy to Shinyapps.io



Hello Shiny!



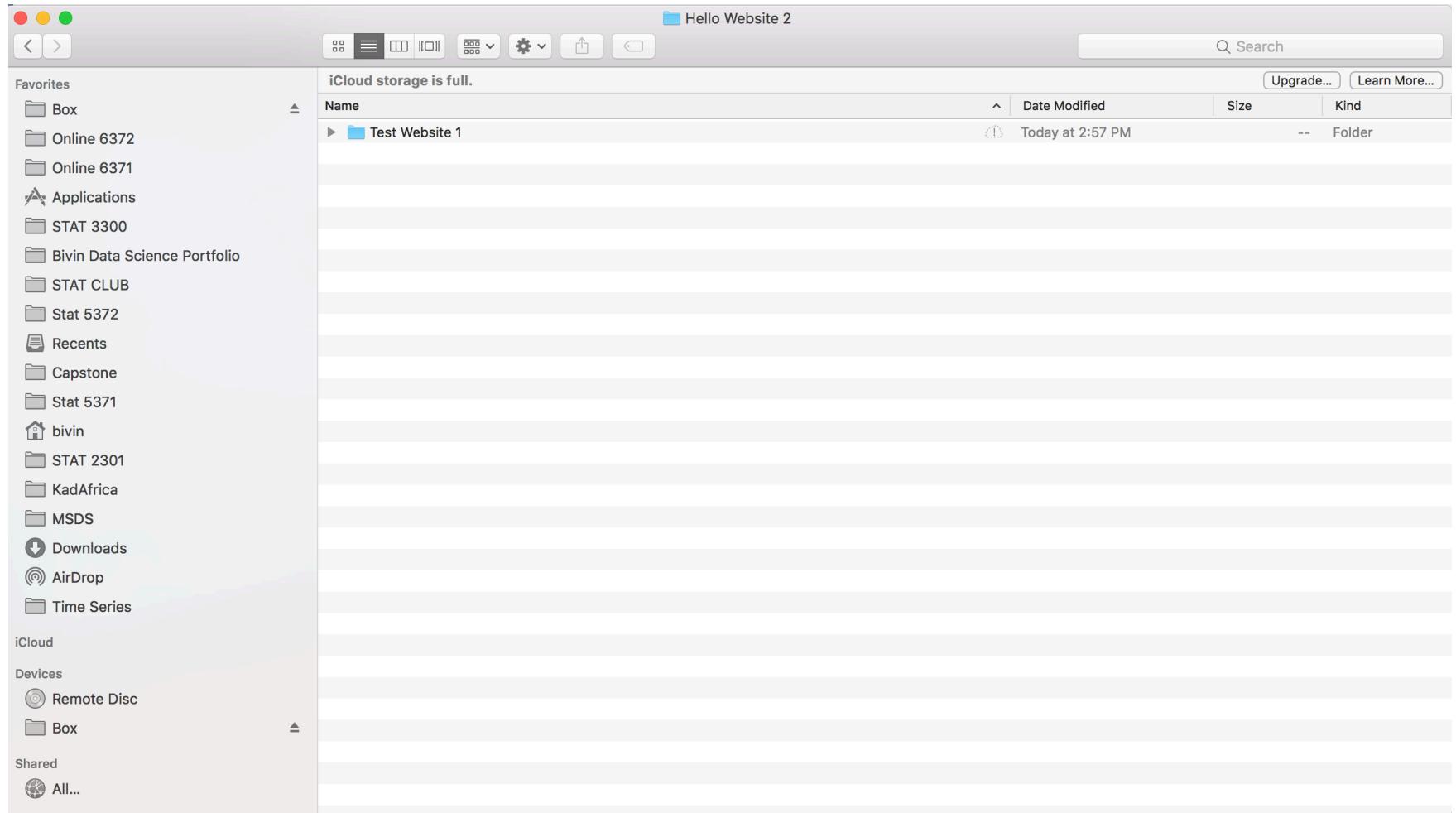
Rshiny | Deploy to Shinyapps.io



DataScience@SMU

Example 1: The Simplest Website

Websites with GitHub! | Simplest



Websites with GitHub! | Simplest

Screenshot of RStudio showing the "File" menu open with "New Project..." selected. A modal window titled "Create Project" is displayed, showing three options: "New Directory", "Existing Directory", and "Version Control". The "Version Control" option is highlighted with a red box.

The RStudio interface includes:

- File menu: New File, New Project... (highlighted), Open File..., Reopen with Encoding..., Recent Files, Open Project..., Open Project in New Session..., Recent Projects, Import Dataset, Save, Save As..., Save with Encoding..., Save All, Knit Document, Compile Report..., Print..., Close, Close All, Close All Except Current, Close Project, Console, Quit Session...
- Code editor: Untitled35* showing R code related to Old Faithful Geyser Data.
- Plots: A scatter plot titled "Old Faithful Geyser Data" showing the relationship between waiting time and eruption time.
- Packages: faithful (datasets) documentation.
- Help: R Documentation.
- Viewer: A search bar and a message about the Old Faithful geyser data.
- Bottom status bar: Platform: x86_64-apple-darwin15.6.0 (64-bit)
- Bottom left: R license information.
- Bottom right: A snippet of R code related to Twitter search.

Websites with GitHub! | Simplest

The screenshot shows the RStudio interface with several windows open. On the left, the 'R Code.R' editor window displays R code for KNN and K-Means analysis. In the center, the 'Old Faithful Geyser Data' documentation page is visible. A modal dialog box titled 'Create Project from Version Control' is prominently displayed in the foreground. This dialog has two main options: 'Git' (represented by a green plus sign icon) and 'SVN' (represented by a blue minus sign icon). The 'Git' option is highlighted with a red rectangular border. Below each option is a brief description: 'Clone a project from a Git repository' for Git and 'Checkout a project from a Subversion repository' for SVN. At the bottom right of the dialog is a 'Cancel' button.

```
# Unit 6 KNN and K-Means
# Simple Example Credit Rating as a Function of income and debt
dfTrain = data.frame(income = c(34,67,70,110,89,90,102,104,110,120,1
                               CreditRating = c(750,680,670,675,710,690,
                               Qualify = c("Yes","No","No","Yes","No","N
dfTest = data.frame(income = 92, CreditRating =
knn(dfTrain[,1:2], dfTest, dfTrain$Qualify, k =
##KNN Classification example on credit data --
#http://nbviewer.jupyter.org/github/aramain/Mac
#rename columns to english
# read and attach the dataset
# read and attach the dataset
Platform: x86_64-apple-darwin15.6.0 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details
Natural language support but running in an English locale
R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

[Workspace loaded from ~/.RData]
```

R: Old Faithful Geyser Data

faithful {datasets}

Old Faithful Geyser Data

Description

for the Old Faithful geyser in Yellowstone National Park, Wyoming,

heavily rounded times originally in seconds, where multiples of 5 are

or a better version of the eruption times, see the example below.

```
b
b = searchTwitter('Dallas', geocode='32.46,-96.46,10mi')
b
b = searchTwitter('Dallas', geocode='32.46,96.46,10mi')
b = searchTwitter('Cowboys', geocode='32.46,-96.46,10mi')
b = searchTwitter('Cowboys', geocode='32.46,-96.46,100mi')
b
b = searchTwitter('Cowboys', geocode='32.46,-96.46,10mi')
b = searchTwitter('Cowboys', geocode='32.46,-96.46,50mi')
b
b = searchTwitter('Cowboys', geocode='32.7767,-96.7970,10mi')
```

Websites with GitHub! | Simplest

The screenshot shows the RStudio interface with several windows open:

- R Code.R** window: Displays R code for KNN and K-Means analysis, including data loading and model training.
- Console** window: Shows the R startup message and workspace details.
- Viewer** window: Displays the "Old Faithful Geyser Data" documentation from the datasets package.
- Clone Git Repository** dialog box: Overlays the main RStudio area. It has fields for "Repository URL" (empty), "Project directory name" (empty), and "Create project as subdirectory of" (set to ~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS). There is also a "Browse..." button and a "Create Project" button.

Websites with GitHub! | Simplest

The screenshot shows a GitHub repository page for the user BivinSadler. The repository name is BivinSadler / BivinSadler.github.io. The page includes a navigation bar with links for Pull requests, Issues, Marketplace, and Explore. Below the navigation bar, there are buttons for Watch (0), Star (0), and Fork (0). The main content area displays the repository's statistics: 33 commits, 1 branch, 0 releases, 1 environment, and 2 contributors. It also shows a dropdown for Branch: master and a button for New pull request. A prominent 'Clone or download' button is highlighted with a red box, showing the URL <https://github.com/BivinSadler/BivinSadler.github.io>. Other options shown are 'Open in Desktop' and 'Download ZIP'. The footer of the page includes links for Contact GitHub, Pricing, API, Training, Blog, and About.

Websites with GitHub! | Simplest

The screenshot shows the RStudio interface with several windows open:

- Code Editor:** An R script titled "R Code.R" containing code related to KNN and K-Means.
- Console:** Displays R startup messages, system information (Platform: x86_64-apple-darwin15.6.0 (64-bit)), and help text for the 'R' command.
- Help Viewer:** A search results page for "Old Faithful Geyser Data".
- Project Dialog:** A "Clone Git Repository" dialog box is open, prompting for a Repository URL (<https://github.com/BivinSadler/BivinSadler.github.io.git>), Project directory name (Simple Website), and Create project as subdirectory of (~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS). The URL and Project directory name fields are highlighted with red boxes.

Websites with GitHub! | Simplest

RStudio

Project: (None)

R Code.R

```
1 # Unit 6 KNN and K-Means
2
3
4 # Simple Example Credit Rating as a Function of income and debt
5
6 dfTrain = data.frame(income = c(34,67,70,110,89,90,102,104,110,120,1
7 CreditRating = c(750,680,670,675,710,690,
8 Qualify = c("Yes","No","No","Yes","No","N
9
10 dfTest = data.frame(income = 92, CreditRating =
11
12 knn(dfTrain[,1:2], dfTest, dfTrain$Qualify, k =
13
14
15
16 ##KNN Classification example on credit data --
17 #http://nbviewer.jupyter.org/github/argmain/Mach
18
19 #rename columns to english
20
21 # read and attach the dataset
```

Go to file/function Addins

Files Plots Packages Help Viewer

R: Old Faithful Geyser Data Find in Topic

faithful {datasets}

R Documentation

Old Faithful Geyser Data

Description

or the Old Faithful geyser in Yellowstone National Park, Wyoming,

New Project

Clone Git Repository

Back

Repository URL: <https://github.com/BivinSadler/BivinSadler.github.io.git>

Project directory name: Simple Website

Create project as subdirectory of: ~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS

Browse...

Hello Website

Cancel Open

Favorites

- Recents
- Box
- Online 6372
- Online 6371

iCloud storage is full.

| Name | Size | Kind | Date Modified |
|-----------------|------|--------|--------------------|
| FirstShinyApp | -- | Folder | Today at 3:05 PM |
| Hello Website 2 | -- | Folder | Today at 2:58 PM |
| Test Website 1 | -- | Folder | Today at 3:18 PM |
| Hello Website 1 | -- | Folder | Apr 2, 2019 at 10: |

Upgrade... Learn More...

Cancel Open

RStudio

Addins

R Code.R x Untitled23* x Untitled32* x Untitled33* x Untitled34 x Addins

Source on Save | Run | Source

```

1 # Unit 6 KNN and K-Means
2
3
4 # Simple Example Credit Rating as a Function of income and debt
5
6 dfTrain = data.frame(income = c(34, 67, 70, 110, 89, 90, 102, 104, 110, 120, 1
7   CreditRating = c(750, 680, 670, 675, 710, 690,
8   Qualify = c("Yes", "No", "No", "Yes", "No", "N
9
10 dfTest = data.frame(income = 92, CreditRating =
11
12 knn(dfTrain[,1:2], dfTest, dfTrain$Qualify, k =
13
14
15
16 ##KNN Classification example on credit data --
17 #http://nbviewer.jupyter.org/github/aramain/Mach
18
19 #rename columns to english
20
21 # read and attach the dataset
6:35 (Top Level) :
```

Console Terminal

Platform: x86_64-apple-darwin15.6.0 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
 You are welcome to redistribute it under certain conditions.
 Type 'license()' or 'licence()' for distribution details.

Natural language support but running in an English locale

R is a collaborative project with many contributors.
 Type 'contributors()' for more information and
 'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
 'help.start()' for an HTML browser interface to help.
 Type 'q()' to quit R.

[Workspace loaded from ~/.RData]

> |

Files Plots Packages Help Viewer

R: Old Faithful Geyser Data Find in Topic

faithful {datasets}

Old Faithful Geyser Data

Description

R Documentation

New Project

Clone Git Repository

Back

Repository URL: <https://github.com/BivinSadler/BivinSadler.github.io.git>

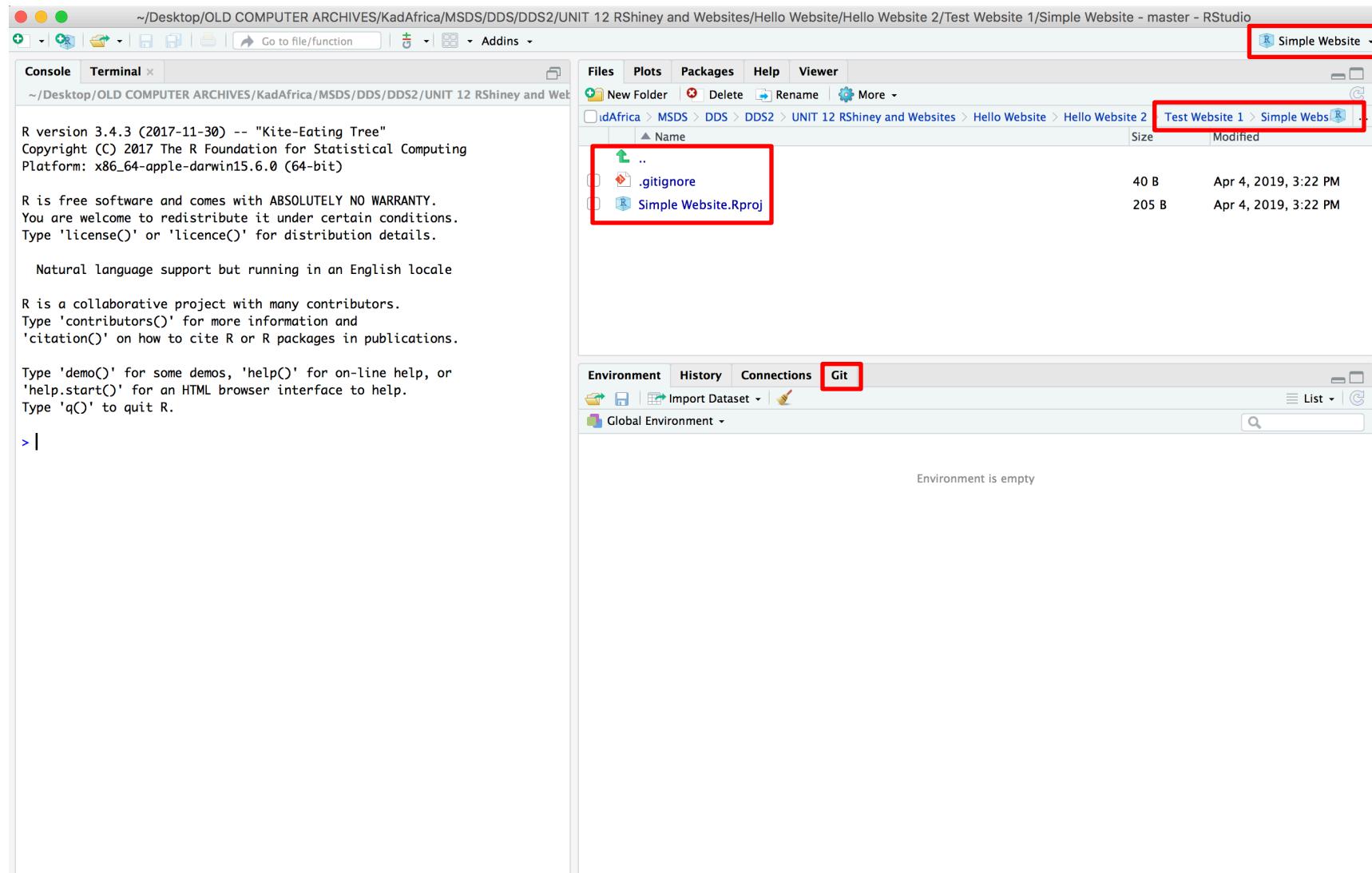
Project directory name: Simple Website

Create project as subdirectory of: ~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS

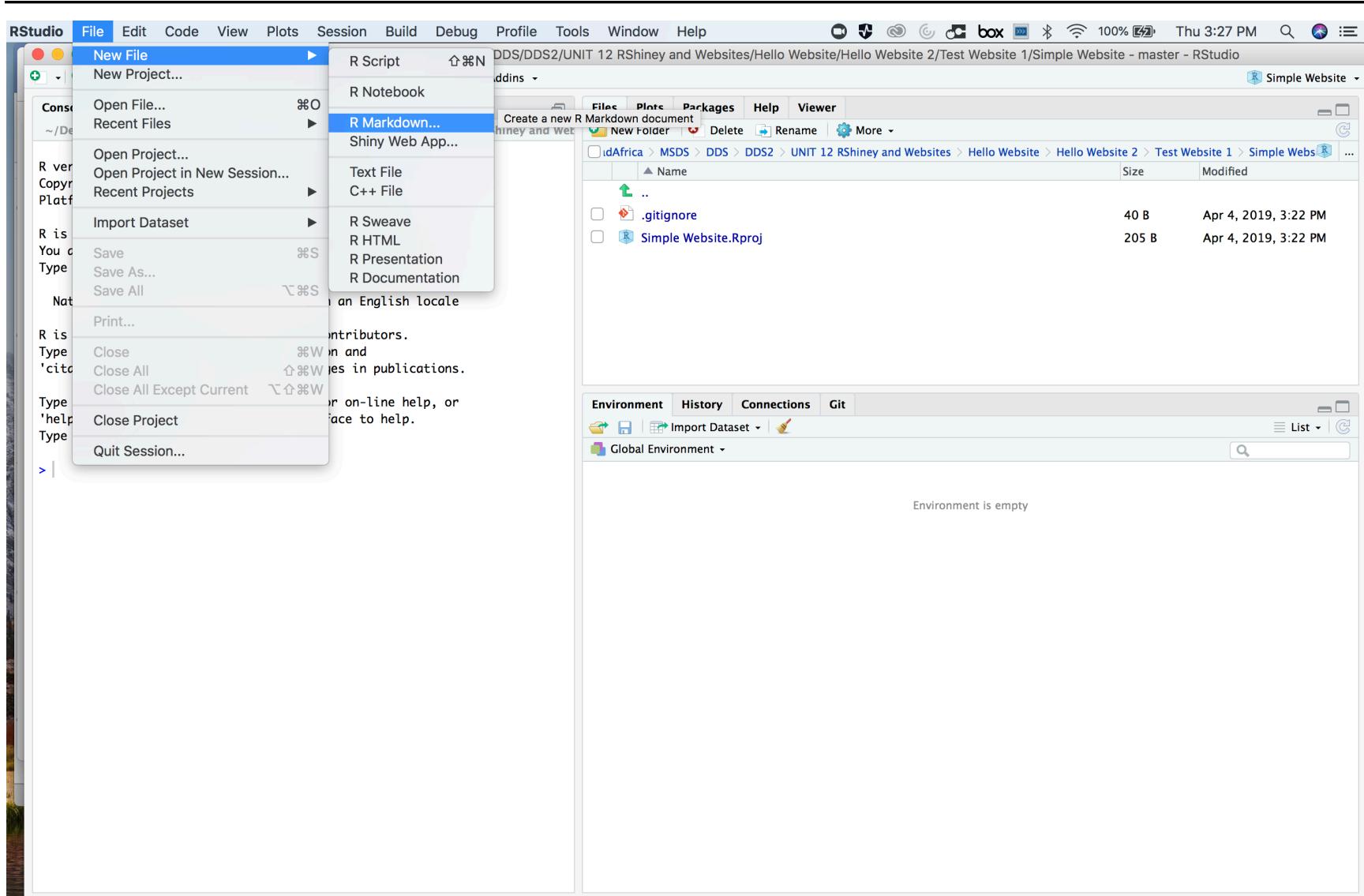
Open in new session

b = searchTwitter('Dallas', geocode='32.46,-96.46,10mi')
 b = searchTwitter('Dallas', geocode='32.46,96.46,10mi')
 b = searchTwitter('Cowboys', geocode='32.46,-96.46,10mi')
 b = searchTwitter('Cowboys', geocode='32.46,-96.46,100mi')
 b = searchTwitter('Cowboys', geocode='32.46,-96.46,10mi')
 b = searchTwitter('Cowboys', geocode='32.46,-96.46,50mi')
 b = searchTwitter('Cowboys', geocode='32.7767,-96.7970,10mi')

Websites with GitHub! | Simplest



Websites with GitHub! | Simplest



Websites with GitHub! | Simplest

The screenshot shows the RStudio interface with the following components:

- Code Editor:** Displays the `index.Rmd` file content. The "Knit" button in the toolbar is highlighted with a red box.
- File Explorer:** Shows the project structure under "Simple Website". The `index.Rmd` file is highlighted with a red box.
- Git Panel:** Shows the local Git repository with the `index.Rmd` file staged for commit. Both the folder and the file are highlighted with red boxes.
- Console:** Displays the R startup message and the command `knitr::knit("index.Rmd")`.

```
1 ---  
2 title: "index"  
3 author: "Bivin"  
4 date: "4/4/2019"  
5 output: html_document  
6 ---  
7  
8 #The Simple Yet Awesome Website  
9 ## Note: the 6 lines of text above are the YAML tags  
10 ### We will Knit this Rmd to a html file next.  
11 Then push index.html to the <username>.github.io repo
```

```
11:54 [?] We will Knit this Rmd to a html file next. R Markdown  
Console Terminal  
~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/DDS2/UNIT 12 RShiney and Web  
R is free software and comes with ABSOLUTELY NO WARRANTY.  
You are welcome to redistribute it under certain conditions.  
Type 'license()' or 'licence()' for distribution details.  
Natural language support but running in an English locale  
R is a collaborative project with many contributors.  
Type 'contributors()' for more information and  
'citation()' on how to cite R or R packages in publications.  
Type 'demo()' for some demos, 'help()' for on-line help, or  
'help.start()' for an HTML browser interface to help.  
Type 'q()' to quit R.
```

Websites with GitHub! | Simplest

The screenshot shows the RStudio interface with the following components:

- Code Editor:** Displays the file `index.Rmd` containing R Markdown code. A red arrow points to the file `index.html` in the file tree.
- File Tree:** Shows the directory structure: `rica > MSDS > DDS > DDS2 > UNIT 12 RShiney and Websites > Hello Website > Hello Website 2 > Test Website 1 > Simple Website`. The file `index.html` is highlighted with a red arrow.
- Git Panel:** Shows the Git status of the files. The file `index.html` is staged for commit, indicated by a yellow question mark icon. A red arrow points to this icon.
- Console:** Displays the R startup message and the command `# We will Knit this Rmd to a html file next.`
- Output:** Shows the results of the R session, including the R license information and natural language support.

Websites with GitHub! | Simplest

The screenshot shows a GitHub repository page for the user BivinSadler. The repository name is BivinSadler / BivinSadler.github.io. The page includes a navigation bar with links for Pull requests, Issues, Marketplace, and Explore. Below the navigation bar, there are buttons for Watch (0), Star (0), and Fork (0). The main content area displays the repository's statistics: 33 commits, 1 branch, 0 releases, 1 environment, and 2 contributors. It also shows a dropdown for Branch: master and a button for New pull request. A prominent 'Clone or download' button is highlighted with a red box, showing the URL <https://github.com/BivinSadler/BivinSadler.github.io>. Other options shown are 'Open in Desktop' and 'Download ZIP'. The footer of the page includes links for Contact GitHub, Pricing, API, Training, Blog, and About.

Websites with GitHub! | Simplest

The screenshot shows the RStudio interface with several panes:

- Code Editor (left):** Displays the file `index.Rmd` containing R Markdown code. The code includes YAML front matter and instructions to knit the document into an HTML file.
- File Explorer (top right):** Shows the directory structure of the GitHub repository. It includes files like `.gitignore`, `Simple Website.Rproj`, `index.Rmd`, and `index.html`.
- Git Panel (bottom right):** Shows the Git status of the repository. The "Commit" button is highlighted with a red box. The commit history shows changes for `Simple Website.Rproj`, `index.Rmd`, and `index.html`.
- Console (bottom left):** Displays the R startup message and basic information about the R environment.

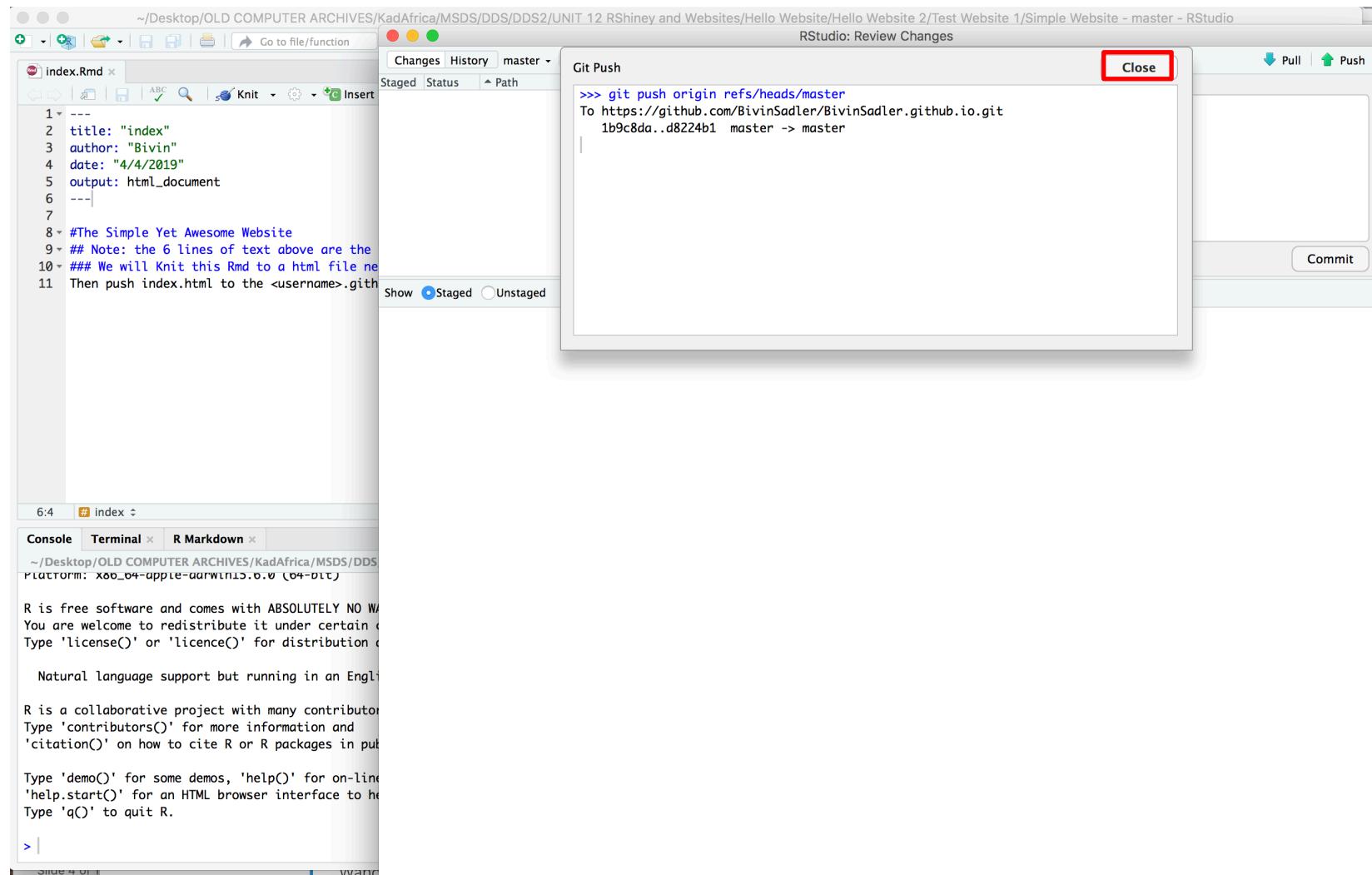
Websites with GitHub! | Simplest

The screenshot shows the RStudio interface with the following components:

- Top Bar:** Shows the path `~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/DDS2/UNIT 12 RShiney and Websites/Hello Website/Hello Website 2/Test Website 1/Simple Website - master - RStudio` and the title `RStudio: Review Changes`.
- Left Panel:** An `index.Rmd` file is open, displaying R Markdown code. It includes a note: "Then push index.html to the <username>.github.io".
- Center Panel:** The `Changes` tab is selected, showing three files staged for commit: `Simple Website.Rproj`, `index.Rmd`, and `index.html`. The `index.html` file is highlighted.
- Right Panel:** A `Commit message` field is present, along with a for "Amend previous commit" and a red-bordered `Commit` button.
- Bottom Center:** A yellow warning icon with an exclamation mark is displayed, with the text: "This diff is extremely large (720.7 KB) and may cause RStudio to slow down or even hang." Below it is the question "Are you sure you want to continue?" and a `Show Diff` button.
- Bottom Left:** The `Console` tab is active, showing the R startup message and basic usage information.

A red box highlights the `Push` button in the top right corner of the Changes panel, and another red box highlights the `Commit` button in the bottom right corner of the Commit message panel.

Websites with GitHub! | Simplest



Websites with GitHub! | Simplest

The screenshot shows the RStudio interface with a project titled "Simple Website - master".

Left Panel (Code Editor): The file "index.Rmd" is open, displaying R Markdown code. The code includes YAML front matter with fields like title, author, date, and output, followed by comments about knitting to HTML and pushing to GitHub.

```
1 ---  
2 title: "index"  
3 author: "Bivin"  
4 date: "4/4/2019"  
5 output: html_document  
6 ---  
7  
8 #The Simple Yet Awesome Website  
9 ## Note: the 6 lines of text above are the YAML tags  
10 ### We will Knit this Rmd to a html file next.  
11 Then push index.html to the <username>.github.io repo
```

Right Panel (File Explorer): A file tree for the "Simple Website" directory is shown, containing ".gitignore", "Simple Website.Rproj", "index.Rmd", and "index.html".

| Name | Size | Modified |
|----------------------|----------|----------------------|
| .gitignore | 40 B | Apr 4, 2019, 3:22 PM |
| Simple Website.Rproj | 205 B | Apr 4, 2019, 3:22 PM |
| index.Rmd | 264 B | Apr 4, 2019, 3:32 PM |
| index.html | 720.3 KB | Apr 4, 2019, 3:37 PM |

Bottom Panel (Terminal): The terminal window shows the R startup process, including the R license, natural language support, and basic information about the R environment.

```
6:4 index R Markdown  
Console Terminal R Markdown  
~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/DDS2/UNIT 12 RShiney and Web  
Platform: x86_64-apple-darwin15.6.0 (64-bit)  
  
R is free software and comes with ABSOLUTELY NO WARRANTY.  
You are welcome to redistribute it under certain conditions.  
Type 'license()' or 'licence()' for distribution details.  
  
Natural language support but running in an English locale  
  
R is a collaborative project with many contributors.  
Type 'contributors()' for more information and  
'citation()' on how to cite R or R packages in publications.  
  
Type 'demo()' for some demos, 'help()' for on-line help, or  
'help.start()' for an HTML browser interface to help.  
Type 'q()' to quit R.  
>
```

Websites with GitHub! | Simplest

No description, website, or topics provided.

Manage topics

34 commits 1 branch 0 releases 1 environment 2 contributors

Branch: master ▾ New pull request Create new file Upload files Find File Clone or download ▾

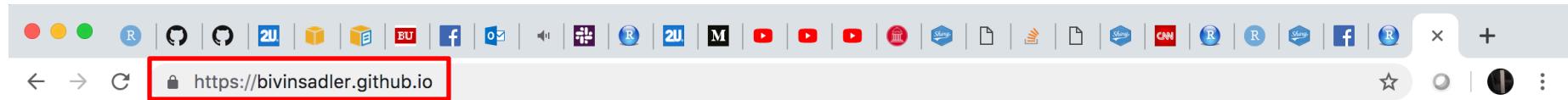
bsnatr ad Latest commit d8224b1 4 minutes ago

.gitignore lk 3 days ago
Simple Website.Rproj ad 4 minutes ago
index.Rmd ad 4 minutes ago
index.html ad 4 minutes ago

Help people interested in this repository understand your project by adding a README.

Add a README

Websites with GitHub! | Simplest



index

Bivin

4/4/2019

The Simple Yet Awesome Website

Note: the 6 lines of text above are the YAML tags

We will Knit this Rmd to a html file next.

Then push index.html to the .github.io repo

Summary: Websites with GitHub!

- Create a repository by the name of **<username>.github.io**
- Clone the repository to a directory in RStudio
- Create index.Rmd
- Knit index.Rmd
- Commit changes in the Git tab
- Push changes in the Git tab
- Checkout your website at <http://<username>.github.io>

DataScience@SMU

Example 2: Adding R Markdown Pages and YAML

Summary: Websites with GitHub!

- Create a repository by the name of **<username>.github.io**
- Clone the repository to a directory in RStudio
- Create index.Rmd
- Knit index.Rmd
- Commit changes in the Git tab
- Push changes in the Git tab
- Checkout your website at <http://<username>.github.io>
- Here we are! We would now like to use YAML and Rmarkdown to add more information and make it look nice!

Websites with GitHub! | Simple

The screenshot shows the RStudio interface with the following components:

- Top Bar:** Shows the path: ~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/DDS2/UNIT 12 RShiney and Websites/Hello Website/Hello Website 2/Test Website 1/Simple Website - master - RStudio.
- Left Panel (Code Editor):** Displays the file `index.Rmd` containing R Markdown code. The code includes YAML front matter and instructions to knit the document to an HTML file and push it to a GitHub repository.
- Right Panel (File Explorer):** Shows the directory structure of the website. It includes files like `.gitignore`, `Simple Website.Rproj`, `index.Rmd`, and the generated `index.html`.
- Bottom Panel (Console):** Shows the R environment starting up, displaying the R license, natural language support, and basic information about the R project.

Websites with GitHub! | Simple

The screenshot shows a GitHub repository page for the user 'BivinSadler' with the repository name 'BivinSadler.github.io'. The page includes a header with navigation links like Pull requests, Issues, Marketplace, and Explore. Below the header, there's a search bar and sections for Code, Issues (0), Pull requests (0), Projects (0), Wiki, Insights, and Settings. A prominent red bar highlights the 'Code' section. The main content area displays commit history, showing 34 commits, 1 branch, 0 releases, 1 environment, and 2 contributors. The latest commit is by 'bsnatr ad' at 4 minutes ago. The commit list includes '.gitignore', 'Simple Website.Rproj', 'index.Rmd', and 'index.html'. At the bottom, there's a call to action to 'Add a README'.

No description, website, or topics provided.

Manage topics

34 commits 1 branch 0 releases 1 environment 2 contributors

Branch: master ▾ New pull request Create new file Upload files Find File Clone or download ▾

bsnatr ad .gitignore Simple Website.Rproj index.Rmd index.html

Latest commit d8224b1 4 minutes ago lk 3 days ago ad 4 minutes ago ad 4 minutes ago ad 4 minutes ago

Help people interested in this repository understand your project by adding a README.

Add a README

Websites with GitHub! | Simple

~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/DDS2/UNIT 12 RShiney and Websites/Hello Website/Hello Website 2/Test Website 1/Simple Website - master - RStudio

Simple Website

index.Rmd x CLT_2.Rmd x ABC Knit Insert Run

Files Plots Packages Help Viewer

CLT_2.Rmd

1 ---
2 title: "L1ive Session 2 CLT"
3 author: "Bivin"
4 date: "9/6/2018"
5 output:
6 html_document:
7 df_print: paged

9
10 ````{r setup, include=FALSE}
11 knitr::opts_chunk\$set(echo = TRUE)
12
13
14 # Simulator to Demonstrate CLT
15
16 ## Control Parameters
17 ````{r}
18 df = read.table("/Users/bivin/Desktop/OLD COMPUTER
ARCHIVES/KadAfrica/MSDS/DDS/MSDS 6306/Unit
5/yob2016.txt", stringsAsFactors = FALSE, header = FALSE, sep
= ";")
19 n1 = 10 # sample size per sample for 1st distribution
20 n2 = 100 # sample size per sample for 2nd distribution (we
will compare these distributions)

50:134 C Chunk 5 R Markdown

Console Terminal R Markdown

~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/DDS2/UNIT 12 RShiney
> hist(xbar_holder1, col = "blue", main = paste("Distribution of the sample mean: n = ", n1), xlab = "Dist 1 Sample Means", xlim = c(-1,1))
> hist(xbar_holder2, col = "red", main = paste("Distribution of the sample mean: n = ", n2), xlab = "Dist 2 Sample Means", xlim = c(-1,1))
> summary(xbar_holder1) #5 number summary and the mean
Min. 1st Qu. Median Mean 3rd Qu. Max.
-1.252957 -0.195515 0.010713 0.001877 0.210838 1.185183
> summary(xbar_holder2) #5 number summary and the mean
Min. 1st Qu. Median Mean 3rd Qu. Max.
-0.311753 -0.068516 -0.002266 -0.002498 0.062215 0.292238
> sd(xbar_holder1) # standard deviation of distribution 1
[1] 0.3113417
> sd(xbar_holder2) #standard deviation of distribution 2
[1] 0.1000677
>

1 Sample Means

par(mfrow = c(2,1))
hist(xbar_holder1, col = "blue", main = paste("Distribution of the sample mean: n = ", n1), xlab = "Dist 1 Sample Means", xlim = c(-1,1))
hist(xbar_holder2, col = "red", main = paste("Distribution of the sample mean: n = ", n2), xlab = "Dist 2 Sample Means", xlim = c(-1,1))

Distribution of the sample mean: n = 10

Distribution of the sample mean: n = 100

summary statistics of the distribution of the simulated sample means.

Environment History Connections Git

Websites with GitHub! | Simple

The screenshot shows a desktop environment with several windows open:

- RStudio Main Window:** The left pane displays an R Markdown file named "CLT_2.Rmd". The "Knit" button in the toolbar is highlighted with a red box. The code includes sections for setting up a live session, defining parameters, and reading data from a CSV file. The right pane shows a file browser with a directory structure under "Hello Website 2 / Test Website 1 / Simple Website". The files listed are: .., .gitignore, .Rhistory, index.html, index.Rmd, Simple Website.Rproj, and CLT_2.Rmd.
- Console Window:** Shows the R command-line interface. It starts with the standard R welcome message, followed by a check for natural language support, and then information about the collaborative nature of the R project. It also lists available demos and help functions.
- GitHub Git Tab:** Located at the bottom right, this tab shows the repository status with "CLT_2.Rmd" staged for commit. It includes buttons for Diff, Commit, Pull, Push, History, and More, along with options for creating a new branch and switching between master and other branches.

Websites with GitHub! | Simple

The screenshot shows the RStudio interface with two main panes. The left pane displays an R Markdown file named `CLT_2.Rmd`. The code includes a title block and several R code chunks. The right pane shows a file browser and a GitHub repository interface.

File Browser:

| Name | Size | Modified |
|----------------------|----------|----------------------|
| .. | 40 B | Apr 4, 2019, 4:59 PM |
| .gitignore | 5.7 KB | Apr 4, 2019, 4:59 PM |
| .Rhistory | 720.3 KB | Apr 4, 2019, 4:59 PM |
| index.html | 264 B | Apr 4, 2019, 4:59 PM |
| index.Rmd | 205 B | Apr 4, 2019, 4:59 PM |
| Simple Website.Rproj | 2 KB | Apr 4, 2019, 5:02 PM |
| CLT_2.Rmd | 876.8 KB | Apr 4, 2019, 5:02 PM |
| CLT_2.html | | |

A red arrow points to the `CLT_2.html` file in the list.

GitHub Repository:

The GitHub interface shows a repository with the following structure:

- Environment
- History
- Connections
- Git

Staged Status Path

| Path |
|------------|
| CLT_2.Rmd |
| CLT_2.html |

A red arrow points to the `CLT_2.html` file in the staged list.

Websites with GitHub! | Simple

The screenshot shows the RStudio interface with the following details:

- File Menu:** The "File" menu is open, showing options like "New File", "New Project...", "Open File...", and "Text File".
- Project Explorer:** A sidebar on the left lists files and folders: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 51:13.
- Console:** The console output shows R startup messages, including the license and contributors information.
- Git Panel:** The bottom right panel shows a Git repository with branches "master" and "New Branch".
- File List:** A file browser on the right shows the contents of the "Simple Website" folder, including ".gitignore", ".Rhistory", "index.html", "index.Rmd", "Simple Website.Rproj", "CLT_2.Rmd", and "CLT_2.html".

Websites with GitHub! | Simple

The screenshot shows the RStudio interface with the following components:

- Left Panel:** Displays the code editor for `CLT_2.Rmd` and the file `_site.yml`, which is highlighted with a red box.
- Right Panel:** Shows a file browser with the following directory structure and file list:
 - ica > MSDS > DDS > DDS2 > UNIT 12 RShiney and Websites > Hello Website > Hello Website 2 > Test Website 1 > Simple Website
 - Files listed include: .gitignore, Rhistory, index.html, index.Rmd, Simple Website.Rproj, CLT_2.Rmd, CLT_2.html, and _site.yml. The `_site.yml` file is also highlighted with a red arrow.
- Bottom Left:** The R console output, which includes the R startup message, information about the platform (x86_64-apple-darwin15.6.0 (64-bit)), and several blocks of text related to R's license and documentation.
- Bottom Right:** The Git tab of the RStudio interface, showing the repository status for the `_site.yml` file. The file is staged and has a yellow status indicator, with a red arrow pointing to it.

Websites with GitHub! | Simple

The screenshot shows the RStudio interface with several panes:

- Code Editor:** Displays `_site.yml` configuration file content:1 name: "Simple"
2 navbar:
3 title: "Simple"
4 left:
5 - text: "Home"
6 href: index.html
7 - text: "CLT"
8 href: CLT_2.html
- File Explorer:** Shows the directory structure of the website. A red arrow points to the `_site` folder.
- Console:** Shows R code being run:

```
>
>
> library(rmarkdown)
> render_site()
```
- Git:** Shows the GitHub repository status with the `_site` folder highlighted.

Websites with GitHub! | Simple

The screenshot shows the RStudio interface with the following components:

- Code Editor:** Displays `CLT_2.Rmd` and `_site.yml`. The `_site.yml` file contains the following YAML configuration:

```
1 name: "Simple"
2 navbar:
3   title: "Simple"
4   left:
5     - text: "Home"
6       href: index.html
7     - text: "CLT"
8       href: CLT_2.html
```

- File Explorer:** Shows the directory structure for the website. The `_site` folder is highlighted with a red box. The contents of the `_site` folder are listed:

| Name | Size | Modified |
|-------------|--------|----------------------|
| CLT_2.html | 9.9 KB | Apr 4, 2019, 5:16 PM |
| CLT_2_files | | |
| index.html | 7.1 KB | Apr 4, 2019, 5:16 PM |
| site_libs | | |

- Console:** Shows the command used to generate the website and the output:

```
~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/DDS2/UNIT 12 RShiney and Websites/Hello Website/Hello Website 2/Test Website 1//Rtmpceqyz/rmarkdown-strd92d0d4ec.html --mathjax --variable 'mathjax-url:https://mathjax.rstudio.com/latest/MathJax.js?config=TeX-AMS-MML_HTMLorMML'
!.....| 100%
ordinary text without R code
```

```
/Applications/RStudio.app/Contents/MacOS/pandoc +RTS -K512m -RTS index.utf8.md --to html4 --from markdown+autolink_bare_uris+ascii_identifiers+tex_math_single_backslash --output index.html --smart --email-obfuscation none --standalone --section-divs --template /Library/Frameworks/R.framework/Versions/3.4/Resources/library/rmarkdown/rmd/h/ --no-highlight --variable highlightjs=1 --include-before-body /var/folders/7d/g852v_5j5l123dtqnr2wxpk0000gp/T//Rtmpceqyz/markdown-strdbf97b2b8ceb.html --variable navbar=1 --variable body_padding=51 --variable header_padding=56 --variable 'theme:bootstrap' --include-in-header /var/folders/7d/g852v_5j5l123dtqnr2wxpk0000gp/T//Rtmpceqyz/markdown-strdbf96830d779.html --mathjax --variable 'mathjax-url:https://mathjax.rstudio.com/latest/MathJax.js?config=TeX-AMS-MML_HTMLorMML'
```

- Output:** Shows the message `Output created: _site/index.html`.
- Git Panel:** Shows the Git status of the files. The `_site.yml` file is highlighted with a red box.

Websites with GitHub! | Simple

The screenshot shows the RStudio interface with several windows open, illustrating the process of creating a website.

- Code Editor:** Shows `CLT_2.Rmd` and `_site.yml` files. `CLT_2.Rmd` contains R Markdown code for a navbar with "Home" and "CLT" links. `_site.yml` defines the site structure.
- File Explorer:** Shows the file structure of the website. A red box highlights the checked files: `CLT_2.html`, `CLT_2_files`, `index.html`, and `site_libs`.
- Cloud Storage:** Shows a list of files in iCloud storage, including `_site`, `_site.yml`, `CLT_2.Rmd`, `Simple Website.Rproj`, and `index.Rmd`.
- Console:** Shows the command used to build the website:

```
/Applications/RStudio.app/Contents/MacOS/pandoc +RTS -K512m -RTS index.utf8.md --to html4 --from markdown+autolink_bare_uris+ascii_identifiers+tex_math_single_backslash --output index.html --smart --email-obfuscation none --standalone --section-divs --template /Library/Frameworks/R.framework/Versions/3.4/Resources/library/rmarkdown/rmd/h/default.html --no-highlight --variable highlightjs=--include-before-body /var/folders/7d/g852v_5j5l123dtgnr2wxpk0000gp/T//RtmpceqVyz/rmarkdown-strdbf97p2b8ceb.html --variable navbar=1 --variable body_padding=51 --variable header_padding=56 --variable 'theme:bootstrap' --include-in-header /var/folders/7d/g852v_5j5l123dtgnr2wxpk0000gp/T//RtmpceqVyz/rmarkdown-strdbf96830d779.html --mathjax --variable 'mathjax-url:https://mathjax.rstudio.com/latest/MathJax.js?config=TeX-AMS-MML_HTMLorMML'
```
- Output:** Shows the message "Output created: _site/index.html".
- Git View:** Shows the local Git repository with the following staged changes:
 - `CLT_2.html` (D)
 - `_site/` (?)
 - `_site.yml` (M)
 - `index.html` (D)

Websites with GitHub! | Simple

The screenshot shows the RStudio interface with the following components:

- File Explorer:** Shows the directory structure for the "Simple Website" project. It includes files like .gitignore, .Rhistory, _site, _site.yml, CLT_2.html, CLT_2.Rmd, index.html, index.Rmd, and Simple Website.Rproj.
- Code Editor:** Displays the contents of _site.yml, which defines a navbar with two items: "Home" and "CLT".
- Console:** Shows the command used to generate the website: `rmarkdown::render("index.Rmd", output_dir = "index.html")`.
- Output:** Shows the generated file "index.html" has been created in the _site directory.
- Git:** Shows the current status of the Git repository, indicating changes to CLT_2.html, _site/, and _site.yml.

Websites with GitHub! | Simple

The screenshot shows the RStudio interface with the following components:

- Left Panel:** Displays the file `CLT_2.Rmd` and the configuration file `_site.yml`. The `_site.yml` content is as follows:

```
1 name: "Simple"
2 navbar:
3   title: "Simple"
4   left:
5     - text: "Home"
6       href: index.html
7     - text: "CLT"
8       href: CLT_2.html
```

- Right Panel:** Shows a file browser with the following files and their details:

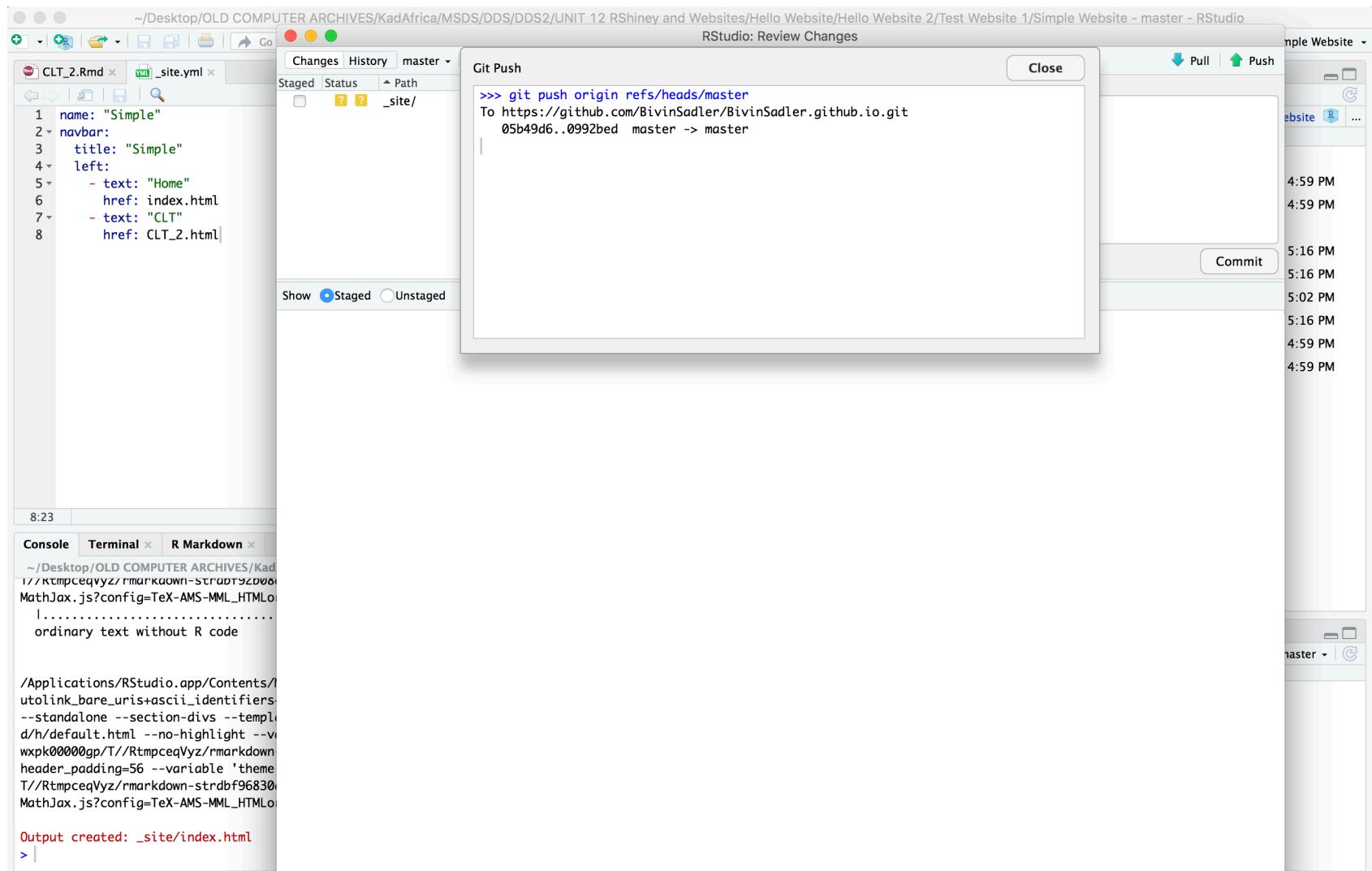
| Name | Size | Modified |
|----------------------|--------|----------------------|
| .. | | |
| .gitignore | 40 B | Apr 4, 2019, 4:59 PM |
| .Rhistory | 5.7 KB | Apr 4, 2019, 4:59 PM |
| _site | | |
| _site.yml | 131 B | Apr 4, 2019, 5:16 PM |
| CLT_2.html | 9.9 KB | Apr 4, 2019, 5:16 PM |
| CLT_2.Rmd | 2 KB | Apr 4, 2019, 5:02 PM |
| index.html | 7.1 KB | Apr 4, 2019, 5:16 PM |
| index.Rmd | 264 B | Apr 4, 2019, 4:59 PM |
| Simple Website.Rproj | 205 B | Apr 4, 2019, 4:59 PM |

- Bottom Panel:** Shows the Git commit interface. The "Commit" button is highlighted with a red box.
- Console Output:** Displays the command used to build the website and its progress:

```
~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/DDS2/UNIT 12 RShiney and Websites/Hello Website/Hello Website 2/Test Website
!//Rtmpceqyz/rmarkown-strdbf9680d779.html --mathjax --variable 'mathjax-url:https://mathjax.rstudio.com/latest/MathJax.js?config=TeX-AMS-MML_HTMLorMML'
|.....| 100%
ordinary text without R code
```

Output created: _site/index.html

Websites with GitHub! | Simple



Websites with GitHub! | Simple

The screenshot shows the RStudio interface with the following components:

- File Explorer:** Shows the directory structure of the website. It includes files like `.gitignore`, `.Rhistory`, `_site`, `_site.yml`, `CLT_2.html`, `CLT_2.Rmd`, `index.html`, `index.Rmd`, and `Simple Website.Rproj`.
- Code Editor:** Displays `_site.yml` content:1 name: "Simple"
2 navbar:
3 title: "Simple"
4 left:
5 - text: "Home"
6 href: index.html
7 - text: "CLT"
8 href: CLT_2.html
- Terminal:** Shows the command used to build the website:

```
~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/DDS2/UNIT 12 RShiney and Websites/Hello Website/Hello Website 2/Test Website
!//RtmpceqVyz/rmarkdown-strdbf92b8ceb.html --mathjax --variable 'mathjax-url:https://mathjax.rstudio.com/latest/MathJax.js?config=TeX-AMS-MML_HTMLorMML'
```
- Output:** Shows the output of the terminal command, indicating the creation of `_site/index.html`.
- Git Panel:** Located at the bottom right, it shows the Git status for the `_site` folder.

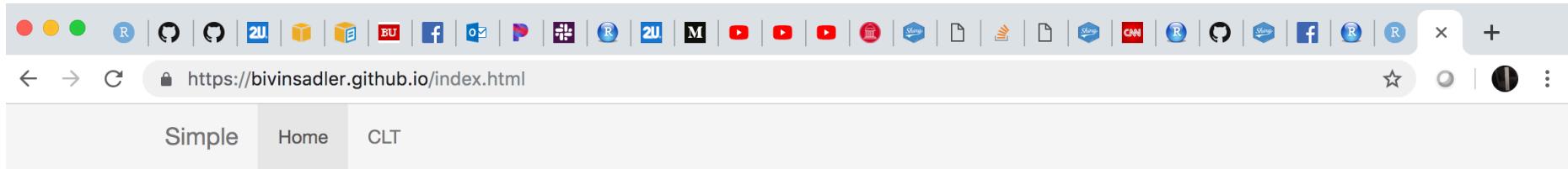
Websites with GitHub! | Simple

The screenshot shows a GitHub repository page for the user BivinSadler. The repository name is BivinSadler/BivinSadler.github.io. The page includes a navigation bar with links for Pull requests, Issues, Marketplace, and Explore. Below the navigation bar, there are buttons for Watch (0), Star (0), and Fork (0). The main content area displays a message: "No description, website, or topics provided." There is an "Edit" button and a "Manage topics" link. A summary bar at the top provides statistics: 40 commits, 1 branch, 0 releases, 1 environment, and 2 contributors. Below this, a "Clone or download" button is visible. The commit history lists several files and their changes:

| File | Type | Commit Message | Time Ago |
|-------------------------|-----------------------|----------------|----------------|
| CLT_2_files/figure-html | d | | a minute ago |
| site.libs | d | | a minute ago |
| .gitignore | lk | | 3 days ago |
| CLT_2.Rmd | Commit CLT_2 | | 28 minutes ago |
| CLT_2.html | d | | a minute ago |
| Simple Website.Rproj | ad | | 2 hours ago |
| _site.yml | Commit new index.html | | 11 minutes ago |
| index.Rmd | ad | | 2 hours ago |
| index.html | Commit new index.html | | 11 minutes ago |

At the bottom, there is a note: "Help people interested in this repository understand your project by adding a README." and a "Add a README" button.

Websites with GitHub! | Simple



index

Bivin

4/4/2019

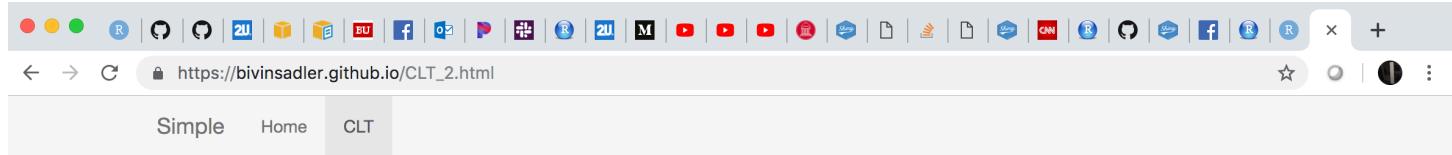
The Simple Yet Awesome Website

Note: the 6 lines of text above are the YAML tags

We will Knit this Rmd to a html file next.

Then push index.html to the .github.io repo

Websites with GitHub! | Simple



Live Session 2 CLT

Bivin

9/6/2018

Simulator to Demonstrate CLT

Control Parameters

```
df = read.table("/Users/bivin/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/MSDS 6306/Unit 5/yob2016.txt",stringsAsFactors = FALSE,header = FALSE,sep = ";")
n1 = 10 # sample size per sample for 1st distribution
n2 = 100 # sample size per sample for 2nd distribution (we will compare these distributions)
simulations = 1000 #number of samples and thus number of xbars we will generate.
mu = 0; # mean parameter for use with normal distributions
sigma = 1; # standard deviation parameter for use with normal distributions
```

Data Holder

```
xbar_holder1 = numeric(simulations) # This will hold all the sample means for the first distribution.
xbar_holder2 = numeric(simulations) # This will hold all the sample means for the second distribution.
```

Simulate and Store

Generate 1000 samples each of size 10 and find the mean of each sample. Then store each mean in the xbar_holder vector.

```
for (i in 1:simulations)
{
  sample1 = rnorm(n1,mean = mu, sd = sigma)
  sample2 = rnorm(n2,mean = mu, sd = sigma)
  xbar1 = mean(sample1)
  xbar2 = mean(sample2)
  xbar_holder1[i] = xbar1
  xbar_holder2[i] = xbar2
}
```

Websites with GitHub!

- **Files you need in root GitHub directory:**
 - index.html
 - any other html docs from knitting Rmarkdown
 - _site.yml
 - Note: Shiny Files can be in Rmarkdown documents but can't be included in Github Pages websites.
- **Flow**
 - Create a repository by the name of **<username>.github.io**
 - Clone the repository to a directory in RStudio
 - Create index.Rmd
 - Knit index.Rmd
 - Commit changes in the Git tab
 - Push changes in the Git tab
 - make all other Rmds
 - knit each Rmd to make html documents
 - make _site.yml (these are the instructions to combine all the html files into a nice looking website)
 - use package rmarkdown::render_site() to make/update _site directory
 - **copy all contents of _site directory to the root directory of project**
 - commit changes
 - Push Changes to GitHub
 - Check out your website!

DataScience@SMU

Example 3: Adding RShiny Apps to GitHub Page Websites

Websites with GitHub! |

Simple + Shiny App

The screenshot shows the RStudio interface with the following components:

- Left Panel (Code Editor):** Displays the content of `CLT_2.Rmd`. A red box highlights the file tab. Another red box highlights the line of code: `Old Faithful Histogram App`.
- Right Panel (File Explorer):** Shows the project structure under `OldWebsite`. A red box highlights the `index.html` file in the `_site` folder.
- Bottom Panel (Console):** Shows the command-line output of the knitting process. It includes the YAML header, the note about knitting to an HTML file, and the pandoc command used to generate the website files.

```
~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/MSDS 6306 Spring 2019/Unit3-Tools For Data Science/Website/OldWebsite - master - RStudio
```

```
CLT_2.Rmd x index.Rmd x
```

```
1 ---  
2 title: "My Website"  
3 author: "Bivin"  
4 date: "4/4/2019"  
5 output: html_document  
6 ---  
7  
8 ```{r setup, include=FALSE}  
9 knitr::opts_chunk$set(echo = TRUE)  
10 ````  
11  
12 # The Simple Yet Awesome Website  
13 ## Note: the 6 lines of code above are the YAML tags.  
14 ### We will Knit this file to a html file next.  
15 Then push the index.html to the github.io repo  
16  
17  
18 <a href=" https://ddsshiny.shinyapps.io/WordUP/">Old Faithful Histogram App</a>  
19
```

```
19:81 # We will Knit this file to a html file next. R Markdown
```

```
Console Terminal R Markdown
```

```
~/Desktop/OLD COMPUTER ARCHIVES/KadAfrica/MSDS/DDS/MSDS 6306 Spring 2019/Unit3-Tools For Data Science/Website/OldWebsite
```

```
$ include: logi FALSE
```

```
|.....| 100%  
ordinary text without R code
```

```
/Applications/RStudio.app/Contents/MacOS/pandoc +RTS -K512m -RTS index.utf8.md --to html4 --from markdown+autolink_bare_uris+ascii_identifiers+tex_math_single_backslash --output index.html --smart --email-obfuscation none --standalone --section-divs --template /Library/Frameworks/R.framework/Versions/3.6/Resources/library/rmarkdown/rmd/h/default.html --no-highlight --variable highlightjs=1 --include-before-body ~/var/folders/7d/g852v_5j5l123dtqnr2wxpk00000gp/T//RtmpFW6YAD/rmarkdown-str2cda4d467318.html --variable navbar=1 --variable body_padding=51 --variable header_padding=56 --variable 'theme:bootstrap' --include-in-header ~/var/folders/7d/g852v_5j5l123dtqnr2wxpk00000gp/T//RtmpFW6YAD/rmarkdown-str2cda4c2e544a.html --mathjax --variable 'mathjax-url:https://mathjax.rstudio.com/latest/MathJax.js?config=TeX-AMS-MML_HTMLorMML'
```

```
Output created: _site/index.html
```

| Name | Size | Modified |
|---------------|--------|-----------------------|
| .. | | |
| .gitignore | 40 B | May 23, 2019, 9:45 PM |
| _site | | |
| _site.yml | 131 B | May 23, 2019, 9:45 PM |
| CLT_2.html | 9.9 KB | May 23, 2019, 9:58 PM |
| CLT_2.Rmd | 2 KB | May 23, 2019, 9:45 PM |
| CLT_2_files | | |
| CLT_2_files 2 | | |
| index.html | 7.2 KB | May 23, 2019, 9:58 PM |

Files Plots Packages Help Viewer

New Folder Delete Rename More

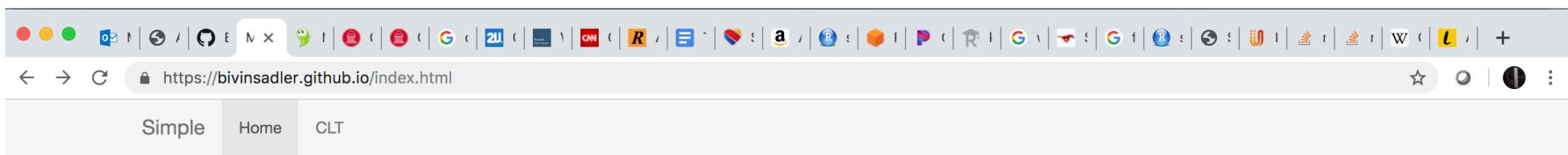
SDS > DDS > MSDS 6306 Spring 2019 > Unit3-Tools For Data Science > Website > OldWebsite

Environment History Connections Build Git

Diff Commit Pull Push master

Websites with GitHub! |

Simple + Shiny App



My Website

Bivin

4/4/2019

The Simple Yet Awesome Website

Note: the 6 lines of code above are the YAML tags.

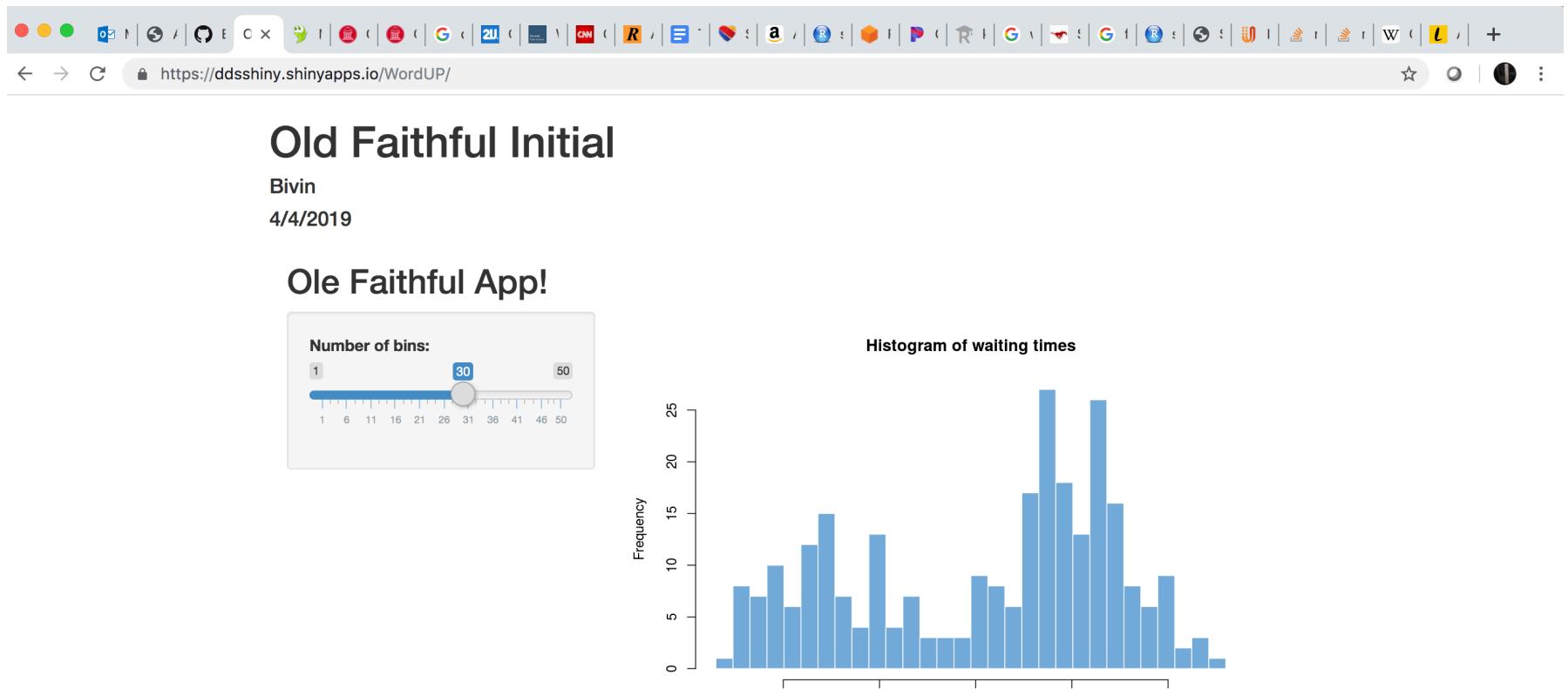
We will Knit this file to a html file next.

Then push the index.html to the github.io repo

[Old Faithful Histogram App](#)

Websites with GitHub! |

Simple + Shiny App



Websites with GitHub!

- **Files you need in root GitHub directory:**
 - index.html
 - any other html docs from knitting Rmarkdown
 - _site.yml and all contents of the _site folder that results from render_site()
 - Note: Shiny Files can be in Rmarkdown documents but can't be included in Github Pages websites.
 - **HOWEVER! YOU CAN INCLUDE THEM AS HTML URL LINKS!!!! *Text* **
- **Flow**
 - Create a repository by the name of **<username>.github.io**
 - Clone the repository to a directory in RStudio
 - Create index.Rmd
 - Knit index.Rmd
 - Commit changes in the Git tab
 - Push changes in the Git tab
 - make all other Rmds
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