

Shiny의 기본 원리와 이해

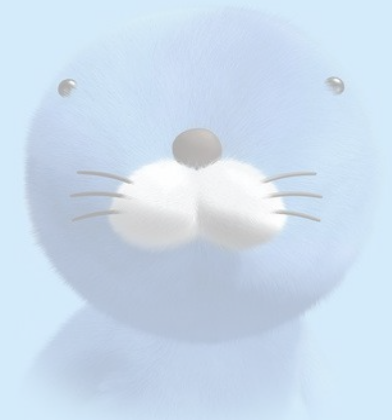




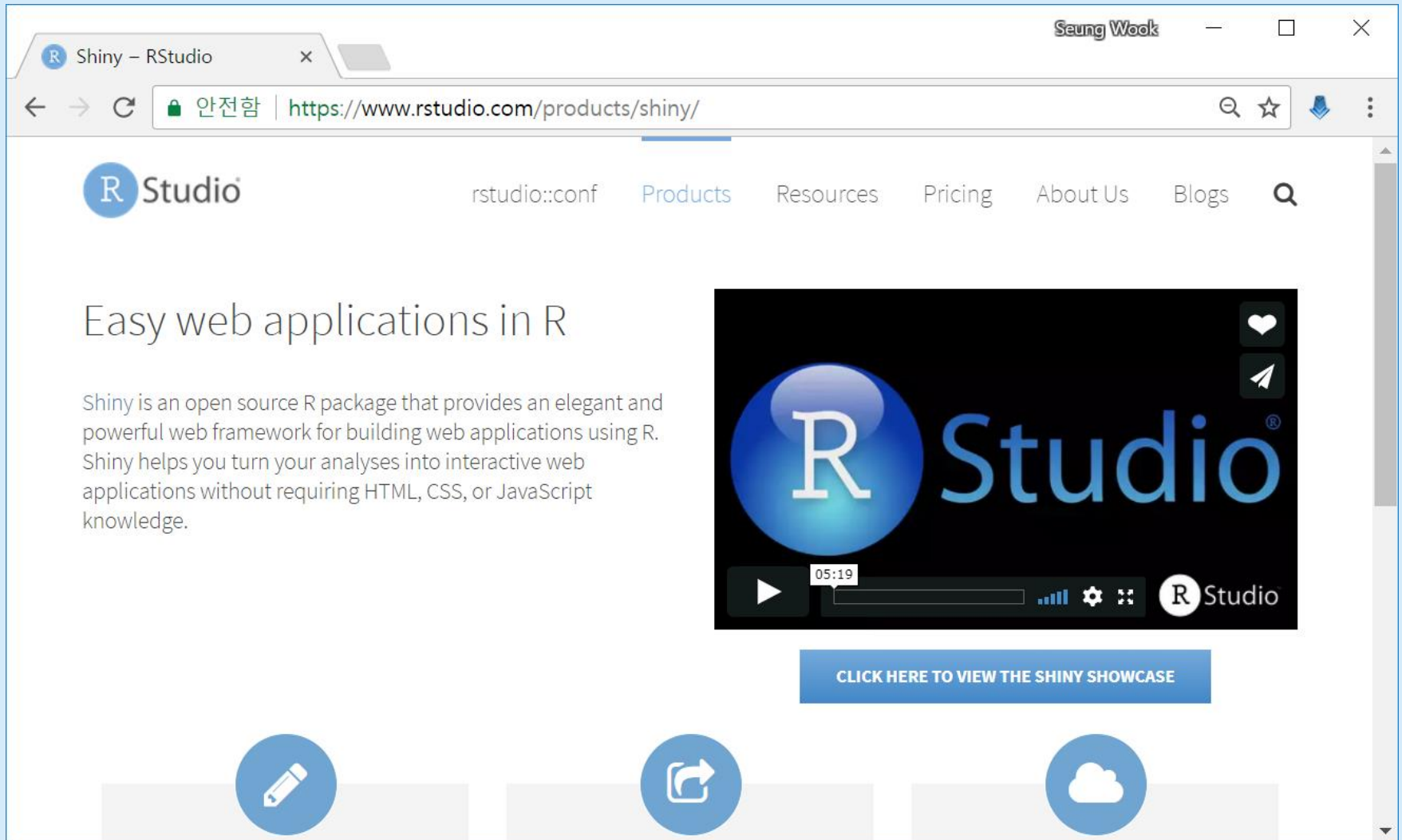
HTML

CSS

JS



https://www.rstudio.com/products/shiny/



The image shows a web browser window displaying the RStudio Shiny product page. The browser's address bar shows the URL <https://www.rstudio.com/products/shiny/>. The page features the RStudio logo and a navigation menu with links for `rstudio::conf`, Products, Resources, Pricing, About Us, and Blogs. The main heading is "Easy web applications in R". Below this, a paragraph describes Shiny as an open source R package for building web applications. A video player is embedded on the right, showing the RStudio logo and a play button. A blue button below the video says "CLICK HERE TO VIEW THE SHINY SHOWCASE". At the bottom, there are three circular icons: a pencil, a refresh symbol, and a cloud.

Shiny – RStudio

안전함 | <https://www.rstudio.com/products/shiny/>

R Studio

`rstudio::conf` Products Resources Pricing About Us Blogs

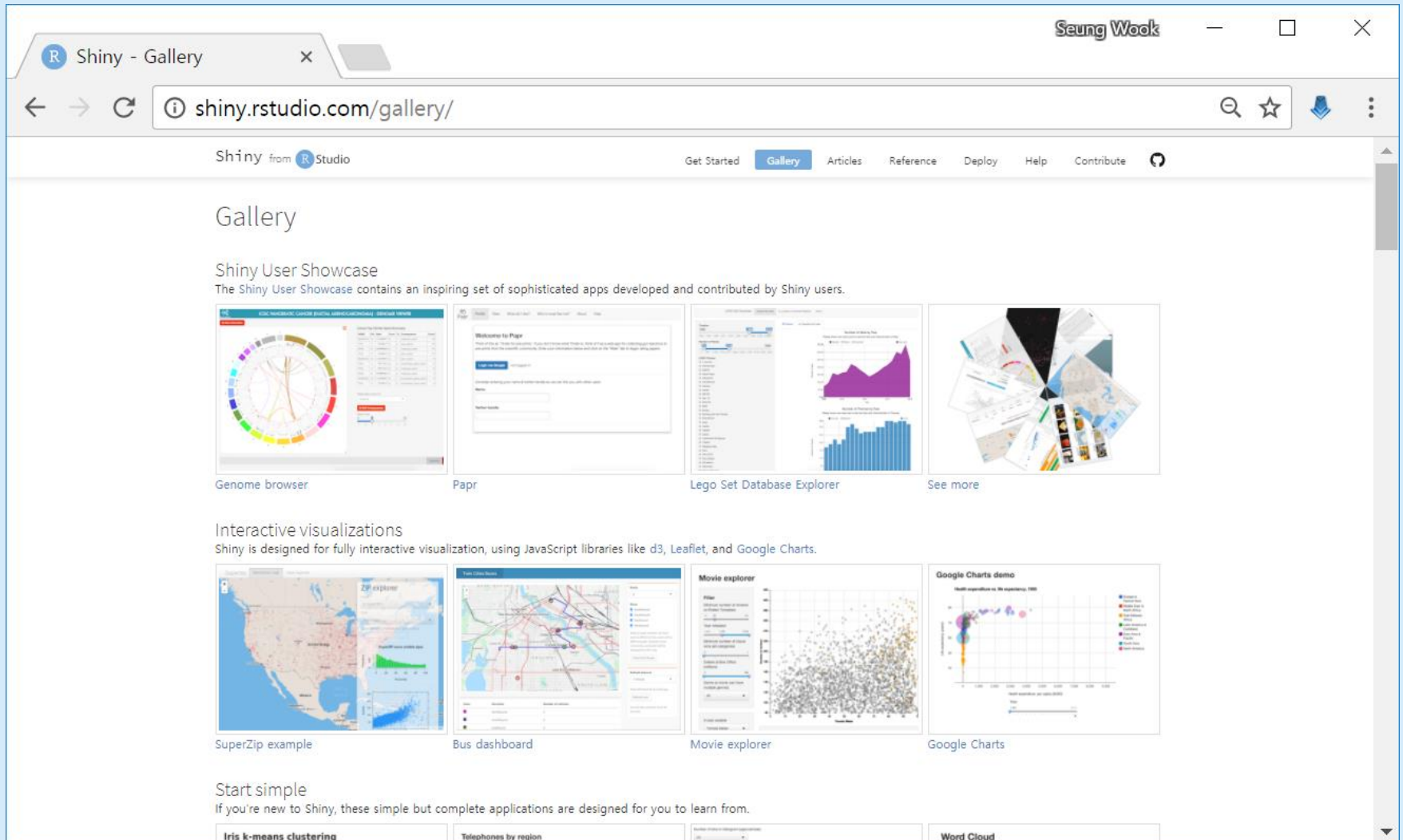
Easy web applications in R

Shiny is an open source R package that provides an elegant and powerful web framework for building web applications using R. Shiny helps you turn your analyses into interactive web applications without requiring HTML, CSS, or JavaScript knowledge.

05:19

CLICK HERE TO VIEW THE SHINY SHOWCASE

http://shiny.rstudio.com/gallery



The screenshot shows a web browser window with the address bar displaying `shiny.rstudio.com/gallery/`. The page title is "Shiny - Gallery". The browser's name is "Seung Wook". The page content includes a navigation menu with "Gallery" selected, and a main heading "Gallery". Below this, there are sections for "Shiny User Showcase" and "Interactive visualizations".

Shiny User Showcase
The Shiny User Showcase contains an inspiring set of sophisticated apps developed and contributed by Shiny users.

Interactive visualizations
Shiny is designed for fully interactive visualization, using JavaScript libraries like d3, Leaflet, and Google Charts.

Gallery items:

- Genome browser
- Papir
- Lego Set Database Explorer
- See more
- SuperZip example
- Bus dashboard
- Movie explorer
- Google Charts
- Iris k-means clustering
- Telephones by region
- Word Cloud



<app.R>



<ui.R>



<server.R>



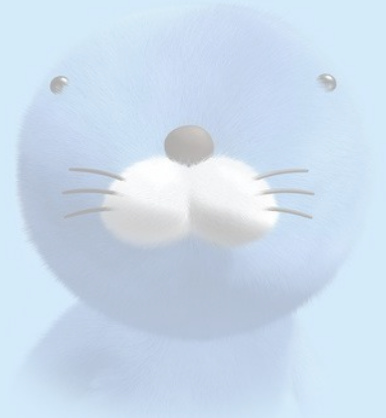
{

 app

 ui

 server

- ▶ ui 는 front-end에 해당하며 주로 웹 언어가 위치합니다.
- ▶ server는 back-end에 해당하며 주로 R을 활용한 수식 및 응답관련 코드가 위치합니다.



With RStudio Shiny Project

The screenshot displays the RStudio Shiny Project interface. The main editor window shows the `ui.R` file with the following code:

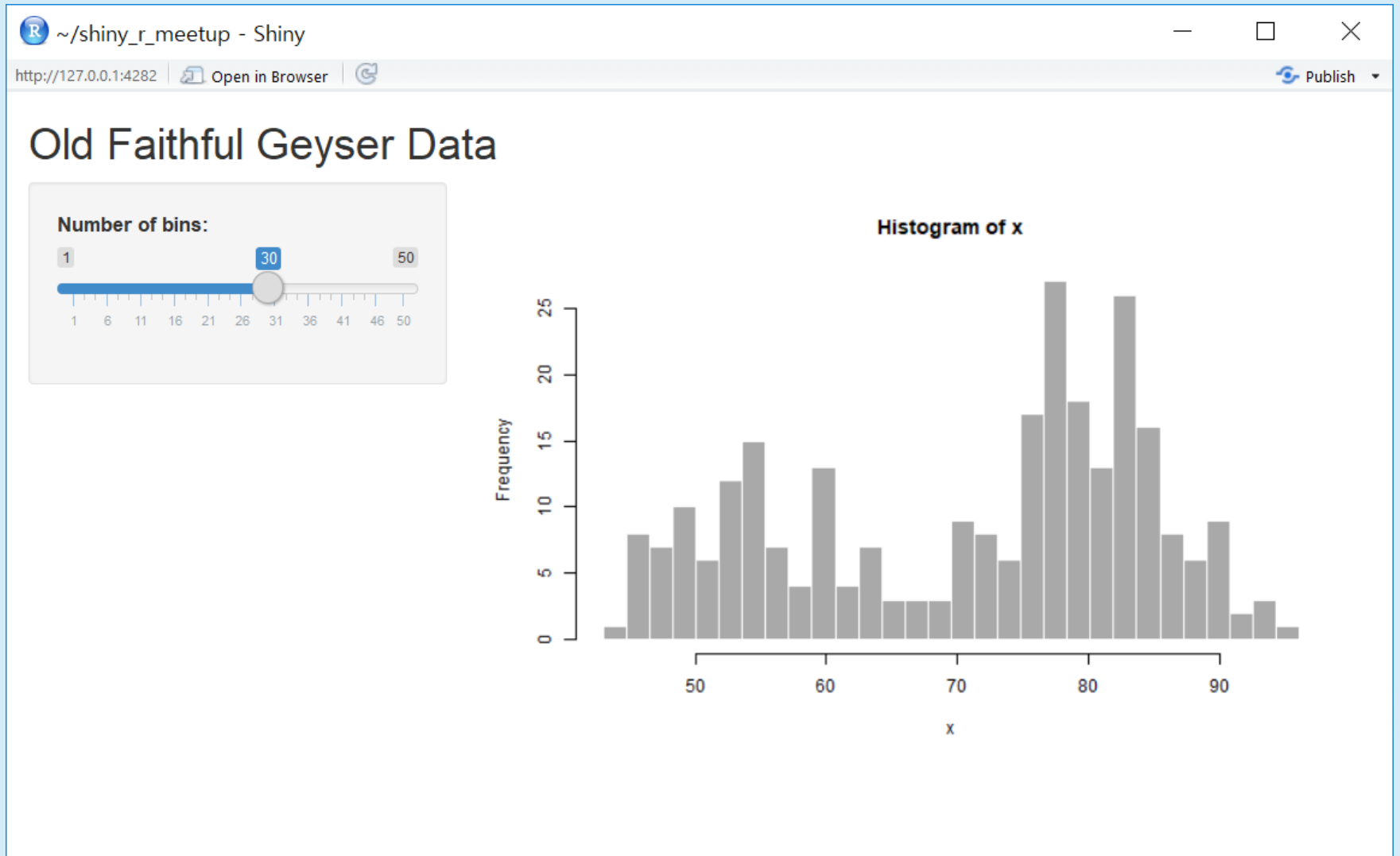
```
1  
2 # This is the user-interface definition of a Shiny web application.  
3 # You can find out more about building applications with Shiny on  
4 #  
5 # http://shiny.rstudio.com/  
6 #  
7  
8 library(shiny)  
9
```

The console at the bottom shows the execution of the code, with the following output:

```
+  
+ })  
+ })  
> |
```

The Environment panel on the right shows the Global Environment, which is currently empty. The Files panel at the bottom right shows the project structure, including the `server.R`, `shiny_r_meetup.Rproj`, and `ui.R` files.

With RStudio Shiny Project





<ui.R>

Object



<server.R>

Function

inputId



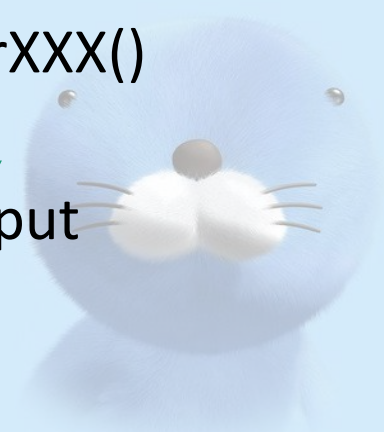
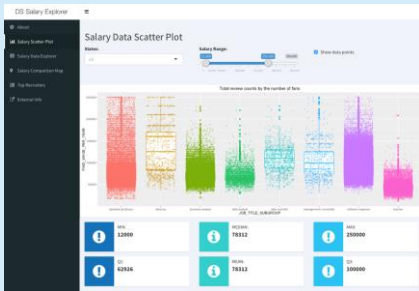
input



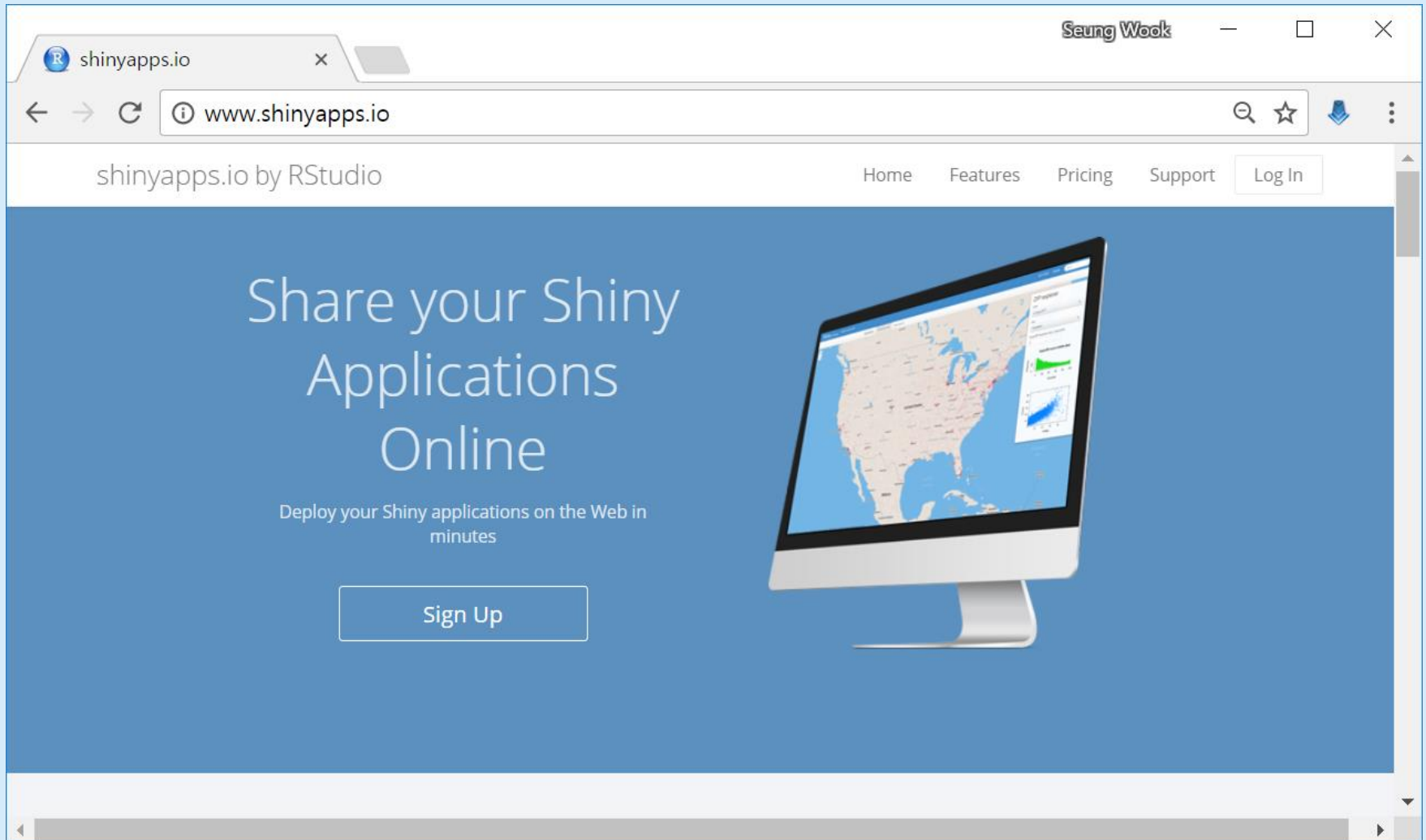
renderXXX()



output



Share Your Apps @ shinyapps.io



The image shows a browser window displaying the shinyapps.io website. The browser's address bar shows the URL www.shinyapps.io. The website header includes the text "shinyapps.io by RStudio" and navigation links for "Home", "Features", "Pricing", "Support", and a "Log In" button. The main content area features a large blue background with the text "Share your Shiny Applications Online" and a sub-headline "Deploy your Shiny applications on the Web in minutes". A prominent "Sign Up" button is centered below the text. To the right, there is an image of a computer monitor displaying a Shiny application with a map of the United States and a data visualization panel.

shinyapps.io by RStudio

Home Features Pricing Support Log In

Share your Shiny Applications Online

Deploy your Shiny applications on the Web in minutes

Sign Up