

R Shiny - Deployments

Workshop on Data Visualization in R

Lokesh Mano • 11-Oct-2022

NBIS, SciLifeLab

Deployment

- R scripts
 - GitHub
 - R Package
 - Docker container
- Webpage
 - Shinyapps.io
 - Shiny Server (Free)
 - Shiny Server Pro
- Automatically deploying to shinyapps.io

```
library(rsconnect)
rsconnect::setAccountInfo(name="username", token="HDFGT46YF7TDT6474G47", secret="hdgTDF5F")
deployApp(appName="name")
```

- Shiny apps user guide <https://docs.rstudio.com/shinyapps.io/index.html>
- Shiny server guide <https://docs.rstudio.com/shiny-server/>

Interactive documents

- Shiny can run in RMarkdown documents. Set YAML `runtime: shiny`.

```
---  
title: Interactive document  
output: html_document  
runtime: shiny  
---
```

- Shiny widgets can be included directly

```
`r`  
selectInput('n_breaks',label='Number of bins:',choices=c(10,20,35,50),selected=20)  
`r`
```

- Whole shiny apps can be included directly

```
`r`  
shinyApp(  
  ui=fluidPage(),  
  server=function(input,output) {}  
)  
`r`
```

- Hosted shiny apps can be embedded using `<iframe>`

```
<iframe src="https://user.shinyapps.io/app"></iframe>
```

Extensions

- [Naxstats](#): Repo collection all shiny extensions
- [shinythemes](#): Bootswatch themes for shiny
- shinyurl: using URLs to recreate state of an app
- shinypod: Reusable modules
- [shinyjs](#): custom javascript functionality
- [shinyWidgets](#): Bootstrap 3 custom widgets
- [shinyBS](#): Bootstrap 3 widgets



Thank you. Questions?

Slide courtesy: Roy Francis (NBIS, RaukR2021)

R version 4.1.3 (2022-03-10)

Platform: x86_64-pc-linux-gnu (64-bit)

OS: Ubuntu 18.04.6 LTS

Built on: 📅 11-Oct-2022 at 🕒 16:22:27

2022 • SciLifeLab • NBIS