R Shiny - Deployments

Workshop on Plotting in R

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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)
```

- Whole shiny apps can be included directly

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

- 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 4.1.1 (2021-08-10)

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

OS: Ubuntu 18.04.5 LTS

Built on : 📅 10-Sep-2021 at 🕐 13:01:09

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