

# **Contents**



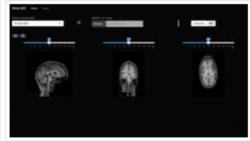
- Introduction to RShiny
- Code Structure
- App execution
- UI
- Server
- Simple App



### Life sciences



| Section | Sect



COVID-19 tracker

Exploring large hospital data for better use of antimicrobials

ShinyMRI - View MRI images in Shiny



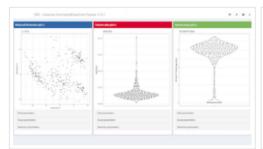




A/B Testing Sample Size Calculator

ctmmweb, a web app to analysis Animal tracking data

Visualizing Biodiversity in National Parks data







MOTE: An Effect Size Calculator

Interactively view and subset phylogenetic trees

# What is shiny?



- Interactive documents & web applications
- Completely created using R
- Needs a live environment

# Usage

- Standalone web applications
- Dashboard/Flexboard
- Interactive RMarkdown
- Gadgets/RStudio extensions

### App structure

- UI Layout
- UI Inputs (Widgets)
- UI Outputs
- Renderer
- Builder

# **Code structure**



### One file format

app.R

```
ui <- fluidPage()
server <- function(input,output) {}
shinyApp(ui=ui,server=server)</pre>
```

### Two file format

ui.R

```
ui <- fluidPage()</pre>
```

server.R

server <- function(input,output) {}</pre>

