

Mastering Shiny

Wickham, H. (2021). Mastering shiny. O'Reilly Media, Inc.

1 Your First Shiny App

2 Basic UI

3 Basic Reactivity

4 Case Study: ER Injuries

5 Workflow

1. Development

- Type *shinyapp* in .R file to insert Shiny app snippet
- Keyboard shortcut to run the app: *Ctrl+Shift+Enter*
- Relaunch app after every save with background job:
 1. add script `shiny-run.R` to folder with `app.R`:

```
options(shiny.autoreload = TRUE)
shiny::runApp()
```

2. with active `shiny-run.R`, RStudio > Tools > Background Jobs > Start Background Job
3. copy URL from Jobs pane and run `rstudioapi::viewer("<URL>")`

2. Debugging

- Shiny automatically prints the traceback to the console
- Use interactive debugger with `browser()` in source
- Use `message()` (with `glue::glue()`) or `str()` calls to understand when a part of the code is evaluated and to show values
- Getting help: make a reprex (minimal reproducible example)

6 Layout, Themes, HTML