Approach 1: Copy and paste

Create and maintain two separate artifacts: Shiny app and R Markdown report

- 😘 Easy to understand

- 😘 Reproducible code is high fidelity

- 😢 Two copies of code to keep in sync

- 😰 Will not work for more dynamic apps (i.e. not only changing *parameters*, but changing *instructions*)

Approach 2: Lexical analysis

E.g. <u>scriptgloss</u> by Doug Kelkhoff

Point a tool at your Shiny app, and it automatically generates a script using static analysis and heuristics against the source code

- 😘 Very easy to add to your app

- 😘 Few decisions to make (mostly just what outputs are interesting)

- 😢 Not all apps can be translated automatically

- 😢 Generated code is not "camera ready"—still contains code relating only to Shiny structure