

# Approach 2: Lexical analysis

E.g. scriptgloss by Doug Kelkhoff

Automatically generate scripts from app source code, using static analysis and heuristics

- 🤗 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

# Approach 3: Programmatic

Use metaprogramming techniques to write code that serves dual purposes (execute interactively, and export static code)

- 🥰 Generated code is almost “camera ready”
- 🥰 Flexible enough to handle highly dynamic Shiny apps
- 😓 Higher learning curve
- 😓 Significant effort to adapt existing apps