Using shinymeta

- 1. You (the app author) identify the domain logic in your app code so we can separate it from the reactive structure
- 2. Within that domain logic, you **identify references to reactive values and reactive expressions** that need to be replaced with static values and static code, respectively
- 3. At runtime, **choose which pieces** of domain logic to export, and in what order
- 4. **Present the code** to the user (in a window, as a downloadable script or report, etc.)

2. De-reference reactive values using!!

Use!! to replace some code with its value.

```
> downloads <- metaReactive2({
+    req(input$packages)
+    metaExpr(cranlogs::cran_downloads(input$package,
+    from = Sys.Date() - 365, to = Sys.Date()))
+ })
> withMetaMode(downloads())
cranlogs::cran_downloads(input$package,
    from = Sys.Date() - 365, to = Sys.Date())
```