

# 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.)

### 3. Extract code from selected objects

As we've already seen, you can call meta-reactive objects within `withMetaMode()` to extract their code.

```
> downloads <- metaReactive({  
+   cranlogs::cran_downloads(!input$package,  
+   from = Sys.Date() - 365, to = Sys.Date())  
+ })  
  
> withMetaMode(downloads())  
cranlogs::cran_downloads("ggplot2",  
  from = Sys.Date() - 365, to = Sys.Date())
```