

# 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 reads using !!

Use !! to replace some code with its value.

```
> dataset <- metaReactive({  
+   get("package:datasets", input$dataset)  
+ })  
  
> withMetaMode(dataset())  
get("package:datasets", input$dataset)
```