## 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.)

## 1. A new family of reactive objects

What was wrong with Shiny's existing reactive objects?

```
downloads <- reactive({
   cranlogs::cran_downloads(input$package,
      from = Sys.Date() - 365, to = Sys.Date())
})</pre>
```

- Call downloads () to retrieve the current dataset
- Automatically caches the result until input\$package changes
- Works well for regular Shiny apps, BUT there's no easy way for us to get the code out