

1. A new family of reactive objects

reactive

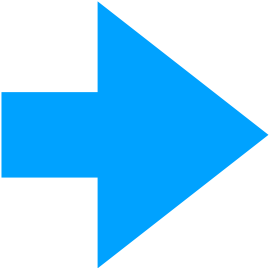
metaReactive
metaReactive2

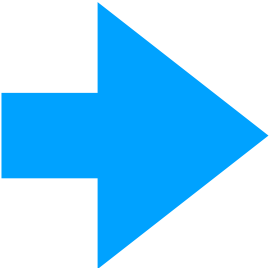
observe

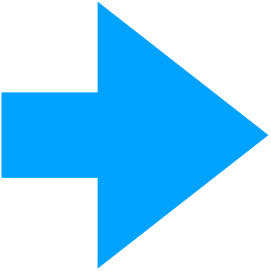
metaObserve
metaObserve2

renderXXX

metaRender
metaRender2



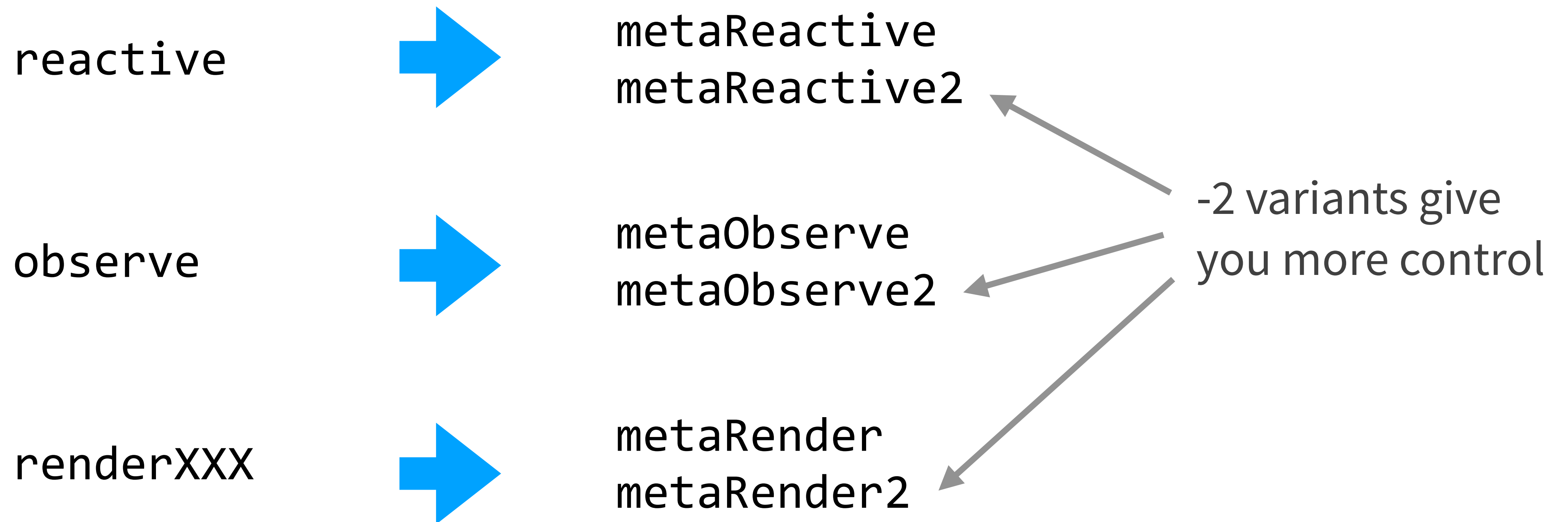




Three gray arrows of varying lengths and angles point from the right towards the text. The top arrow is the longest and points most directly left. The middle arrow is shorter and points slightly upwards and to the left. The bottom arrow is the shortest and points most steeply downwards and to the left.

-2 variants give
you more control

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Sometimes `metaReactive` is too coarse-grained to separate our domain logic from the Shiny stuff:

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

```
> withMetaMode(dataset())  
req(input$package)  
cranlogs::cran_downloads(input$package,  
  from = Sys.Date() - 365, to = Sys.Date())
```