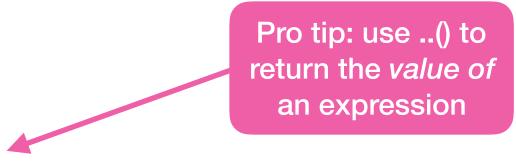
```
server <- function(input, output, session) {</pre>
  downloads <- metaReactive({</pre>
    cranlogs::cran downloads(
      .. (input$package),
      from = ...(format(Sys.Date() - 365)),
      to = Sys.Date()
  })
  downloads rolling <- metaReactive2({</pre>
    validate(need(sum(downloads()$count) > 0, "Input a valid package name"))
   metaExpr({
      .. (downloads ()) %>%
        mutate(count = zoo::rollapply(count, 7, mean, fill = "extend"))
    })
 output$plot <- metaRender(renderPlot, {
    ggplot(...(downloads rolling()), aes(date, count)) + geom line()
  })
```

# **Step 2: Mark reactive reads**



### metaRender (renderPlot,

### metaReactive2({

# downloads rolling

## function (input,

## zoo::rollapply(count,

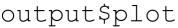
# cranlogs::cran downloads (

validate(need(sum(downloads()\$count)

### metaReactive({

```
line()
geom
```

### mutate (count



downloads <-

```
"extend"))
```

metaExpr({

## Sys.Date()

aes (date,

### session)

output

name

count





server





























































































































## expandChain(output\$plot)

### output\$code <- renderPrint({



## reactive

## Generate

# expandChain()

#### metaRender (renderPlot,

#### metaReactive2({

# downloads rolling

## function (input,

zoo::rollapply(count,

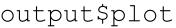
# cranlogs::cran downloads (

validate (need (sum (downloads () \$count)

#### metaReactive({

```
line()
geom
```

mutate (count



downloads <-

```
"extend"))
```

## metaExpr({

## Sys.Date()

#### aes(date,

#### session)

output,

ame

package

COUN





server





















































































