

# expandChain

- When !! is applied to `input$xxx`, the value is inlined.
- When !! is applied to a `metaReactive` read operation, **a new variable is introduced if one doesn't already exist.**

# Example Shinymeta app

```
downloads <- metaReactive2({  
  req(input$packages)  
  metaExpr(cranlogs::cran_downloads(!input$packages,  
    from = Sys.Date() - 365, to = Sys.Date()))  
})
```

```
downloads_rolling <- metaReactive({  
  !!downloads() %>%  
    mutate(count = zoo::rollapply(count, 7, mean, fill = "extend"))  
})
```

```
output$plot <- metaRender(renderPlot, {  
  ggplot(!!downloads_rolling(), aes(date, count)) +  
    geom_line() +  
    ggtitle("Seven day rolling average")  
})
```