

Your First R Package in 30 Minutes

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Your First R Package in 90 Minutes?

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Reminders!

RStudio (latest preferred, but ok if not)

```
install.packages("roxygen2")
```

```
install.packages("devtools")
```

Screenshots:

https://joongsup.rbind.io/slides/r_pkg_devel.html

Agenda

About/Not About

Motivation

R Code Reuse

Workflow/Structure/Share

Code Thru

QnA

About

Bare Minimum

Data Analysis

RStudio on Mac

Your Workflow

Live Coding

Not About

Full Scale

Data Engineering

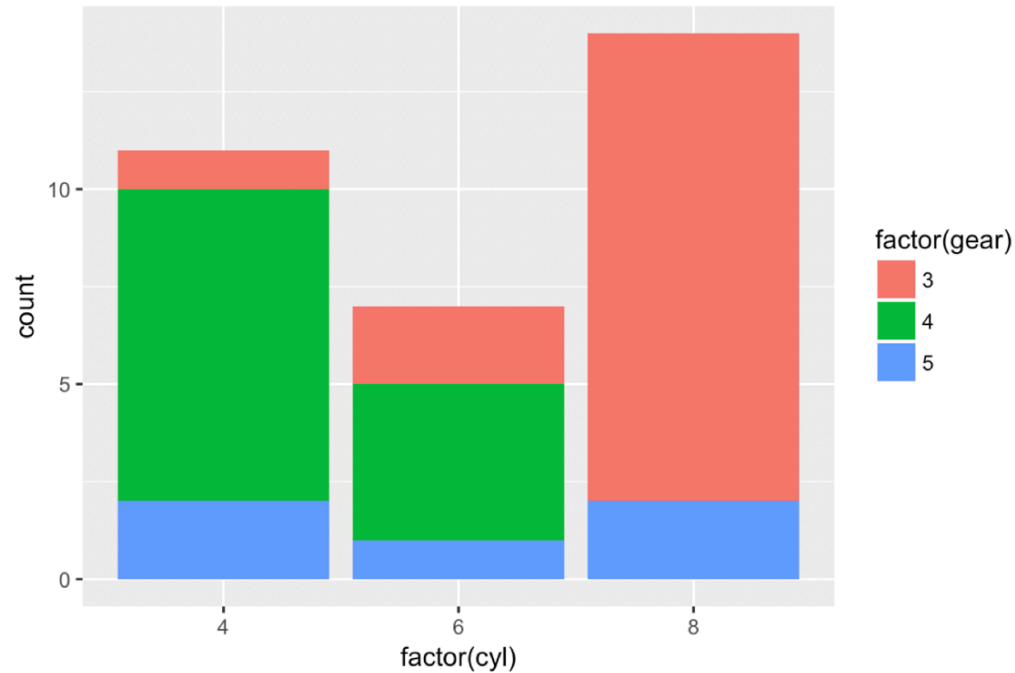
Unit Test

Version Control

Debugging

Motivation

```
library(ggplot2)
ggplot(data = mtcars) +
  geom_bar(aes(x = factor(cyl), fill = factor(gear)))
```



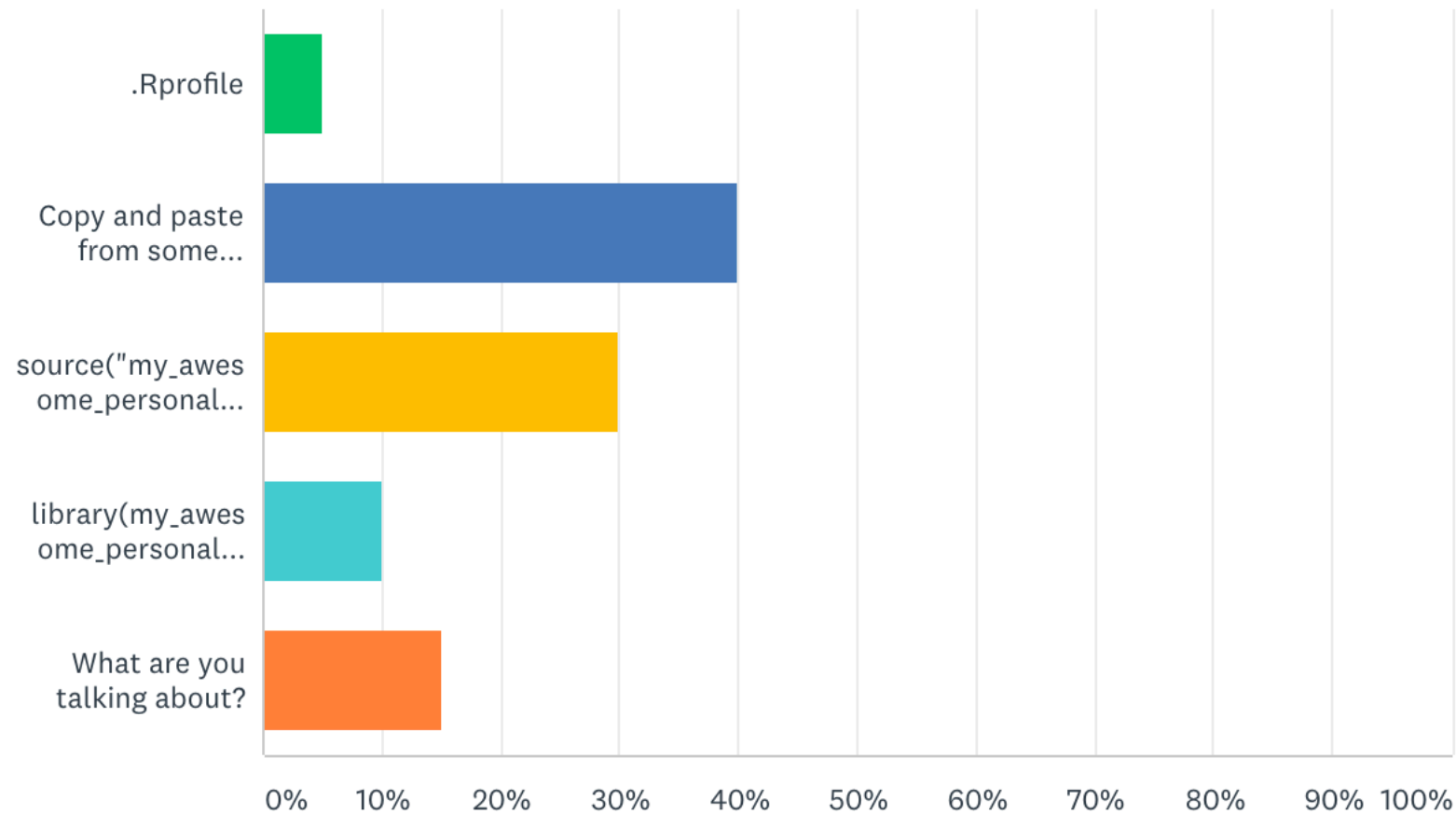
Plots

2 lines of ggplot codes
to more complex

R code reuse
basic R pkg devel
to more complex

What is your main method of using frequently used (custom) R functions?

Answered: 20 Skipped: 1



Success Criteria

50

(talk audience) x 0.5

(% using copy/paste) x 0.4

(random half) x 0.5

= 5

Workflow

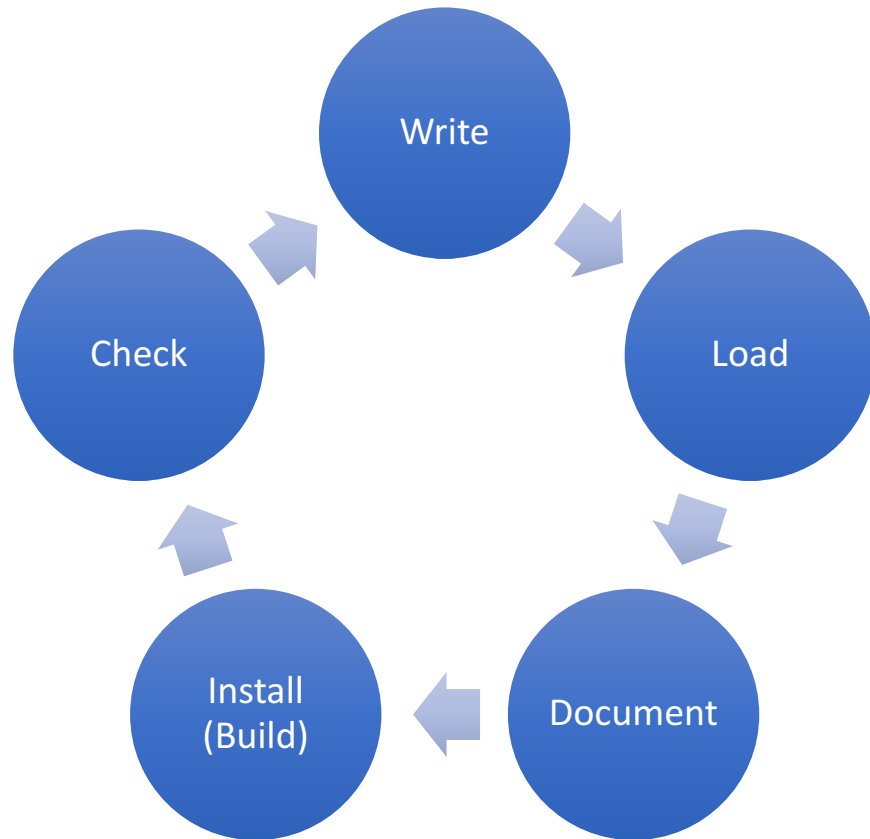
Write (R Functions)

Load (cmd-shift-**L**)

Document (cmd-shift-**D**)

Install (cmd-shift-**B**)

Ch**E**ck (cmd-shift-**E**)

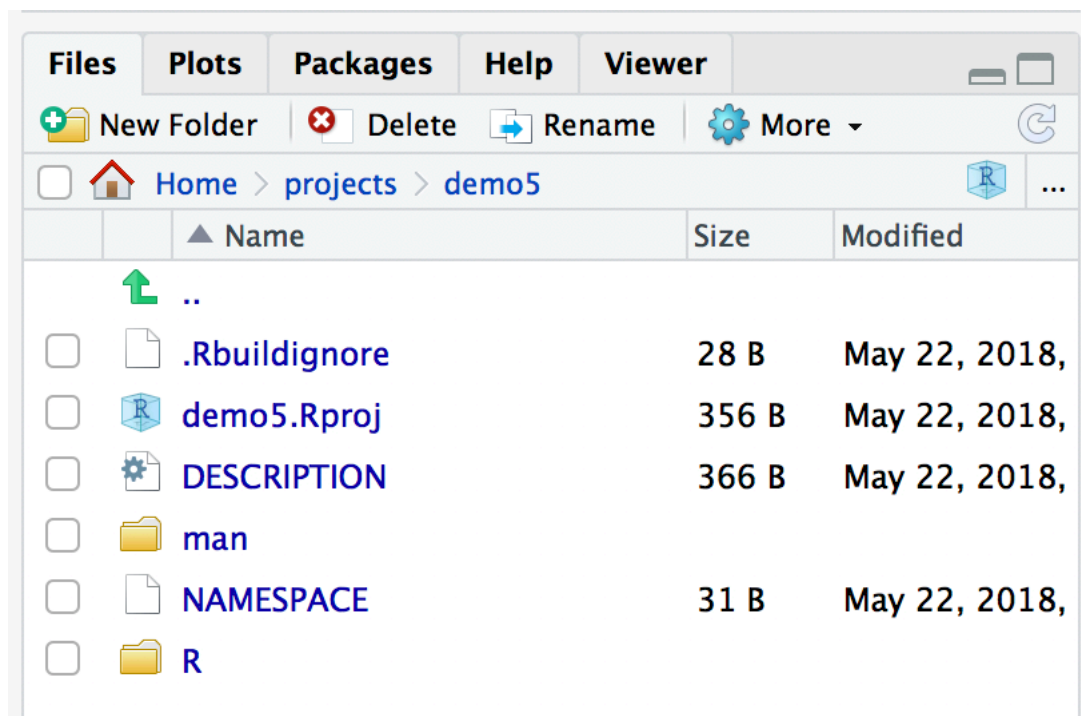


Structure

R/

man/

DESCRIPTION



Share

(cmd-shift-B) → Personal

(Build Source/Github) → Coworkers

(Build Source/Github) → Strangers

Let's Do It!

Reminders!

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```
install.packages("roxygen2")
```

```
install.packages("devtools")
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Recap

Go to #Workflow

References

https://joongsup.rbind.io/slides/r_pkg_devel.html

<http://r-pkgs.had.co.nz/>

<https://www.rstudio.com/resources/videos/you-can-make-a-package-in-20-minutes/>

<http://tinyheero.github.io/jekyll/update/2015/07/26/making-your-first-R-package.html>

<https://hilaryparker.com/2014/04/29/writing-an-r-package-from-scratch/>