

# Share!

September 2019

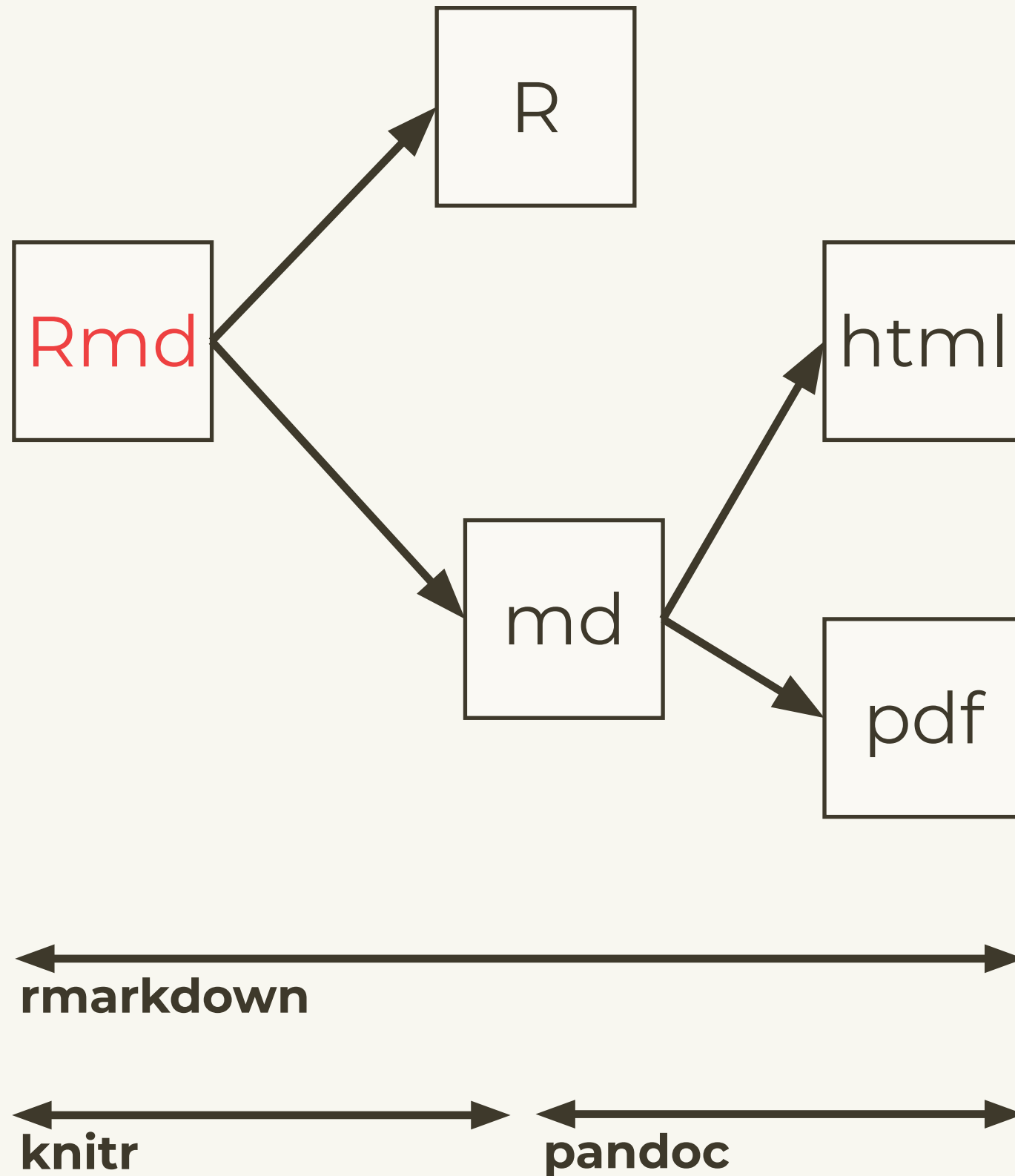
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**Workshop materials:** [bit.ly/cville\\_pkg](https://bit.ly/cville_pkg)

1. Package  
documentation
2. Licensing
3. CRAN

# Document Your Overall Package

# Vignettes



Lets you  
combine prose  
and code to  
explain your  
how you  
package works.

The hard part is  
the writing, not  
the technology!

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

Easiest way to get started is with `use_vignette()`

```
usethis::use_vignette("name")
```

```
# Adds to DESCRIPTION
```

```
Suggests: knitr
```

```
VignetteBuilder: knitr
```

```
# Creates vignettes/
```

```
# Drafts vignettes/name.Rmd
```

# Vignette = Rmarkdown + special metadata

```
---  
title: "Vignette Title"  
author: "Vignette author"  
date: "`r Sys.Date()`"  
output: rmarkdown::html_vignette  
vignette: >  
  %\VignetteIndexEntry{Vignette Title}  
  %\VignetteEngine{knitr::rmarkdown}  
  %\VignetteEncoding{UTF-8}  
---
```

Special output  
format for  
vignettes

Special metadata  
needed by R

Vignettes are long form documentation commonly included in packages. Because they are part of the distribution of the package, they need to be as compact as possible. The `html\_vignette` output type provides a custom style sheet (and tweaks some options) to ensure that the resulting html is as small as possible. The `html\_vignette` format:

...

# Your turn

Open the `introductions.Rmd` vignette in `demoPackage`.

Write a short description of how to use one of the functions in this package, and add it to the vignette.

Click Preview and look at the HTML.

# If sharing with others, include a README

```
Your choice: but often useful to include  
results of running code  
usethis::use_readme_md()  
usethis::use_readme_rmd()
```

For public projects this should include a brief overview, instructions on how to install, and a few examples. For private projects, this is a great place to jot down notes!



License

# There are three main open source licenses

**CC0**

“public domain”,  
best for data  
packages

**MIT**

Free for  
anyone to do  
anything  
with

**GPL**

Changes and  
bundles must  
also be GPL

These are gross simplifications!

# Use helper to set up

```
usethis::use_cc0_license()
```

```
usethis::use_mit_license()
```

```
usethis::use_gpl_license()
```

CRAN  
(varsity level)

# First submission to CRAN

```
# First check locally
```

```
devtools::check()
```

```
# Then on R-hub
```

```
devtools::check_rhub()
```

```
# Then with CRAN's win-builder
```

```
devtools::check_win()
```

```
# Write submission notes
```

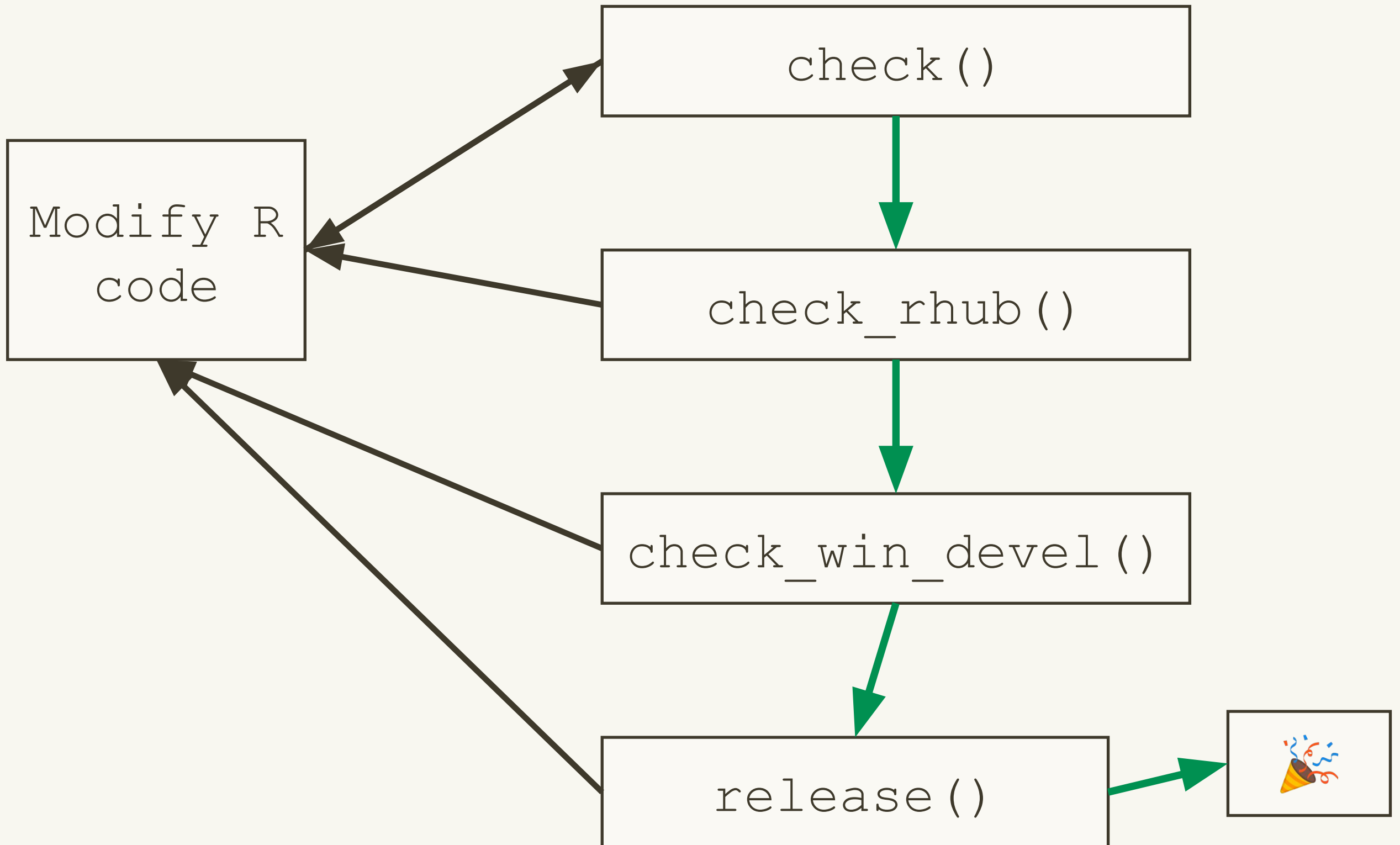
```
usethis::use_cran_comments()
```

```
# Then submit to CRAN
```

```
devtools::release()
```

```
# This asks you questions which you should
```

```
# carefully read and answer
```



# cran-comments.md

Goal is to illustrate  
that you've done  
your due diligence

```
## Test environments
```

```
* local OS X install (R-release)
```

```
* win-builder (R-release, R-devel)
```

```
## R CMD check results
```

```
0 errors | 0 warnings | 1 note
```

```
* This is a new release.
```

There's always one  
note for a new  
submission

# If your submission fails

Do not despair! It happens to everyone, even R-core members.

If it's from the CRAN robot, just fix the problem & resubmit.

If it's from a human, do not respond to the email and do not argue. Instead update `cran-comments.md` & resubmit.



# For resubmission:

This is a resubmission. Compared to the last submission, I have:

- \* First change.
- \* Second change.
- \* Third change

---

## Test environments

- \* local OS X install, R 3.2.2
- \* win-builder (devel and release)

## R CMD check results

...

# Subsequent submissions to CRAN

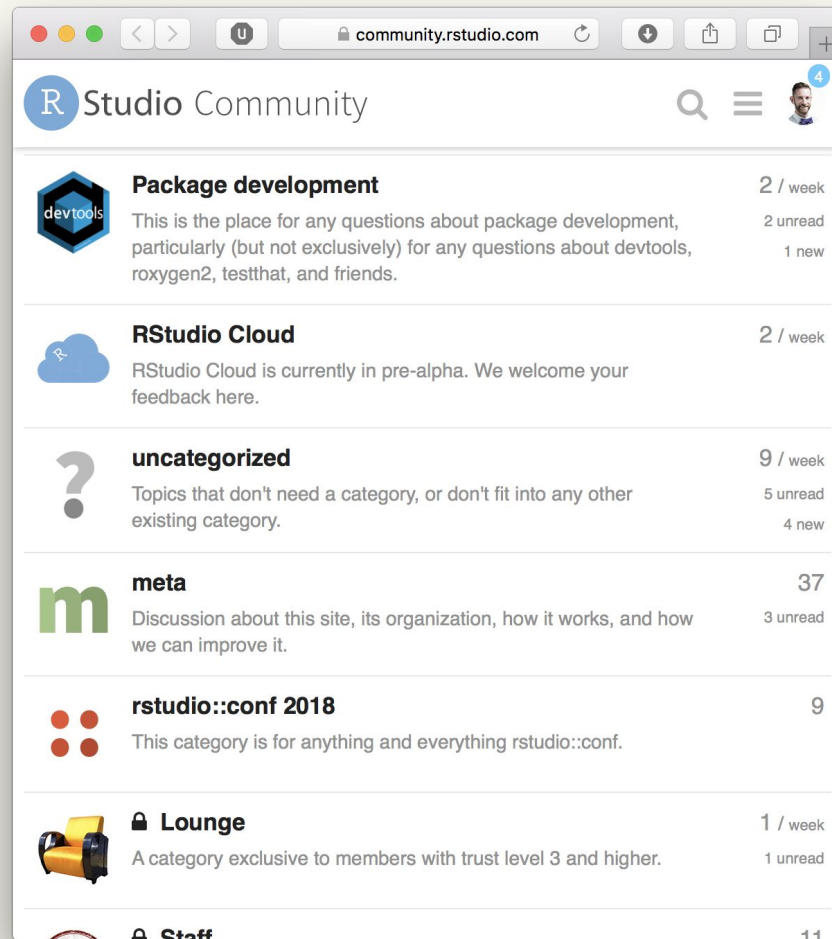
```
# Proceed as before. If you have reverse
dependencies
# you need to also run R CMD check on them, and
# notify CRAN if you have deliberately broken
them.
# Fortunately the revdepcheck package makes this
# fairly easy

install_github("r-lib/revdepcheck")

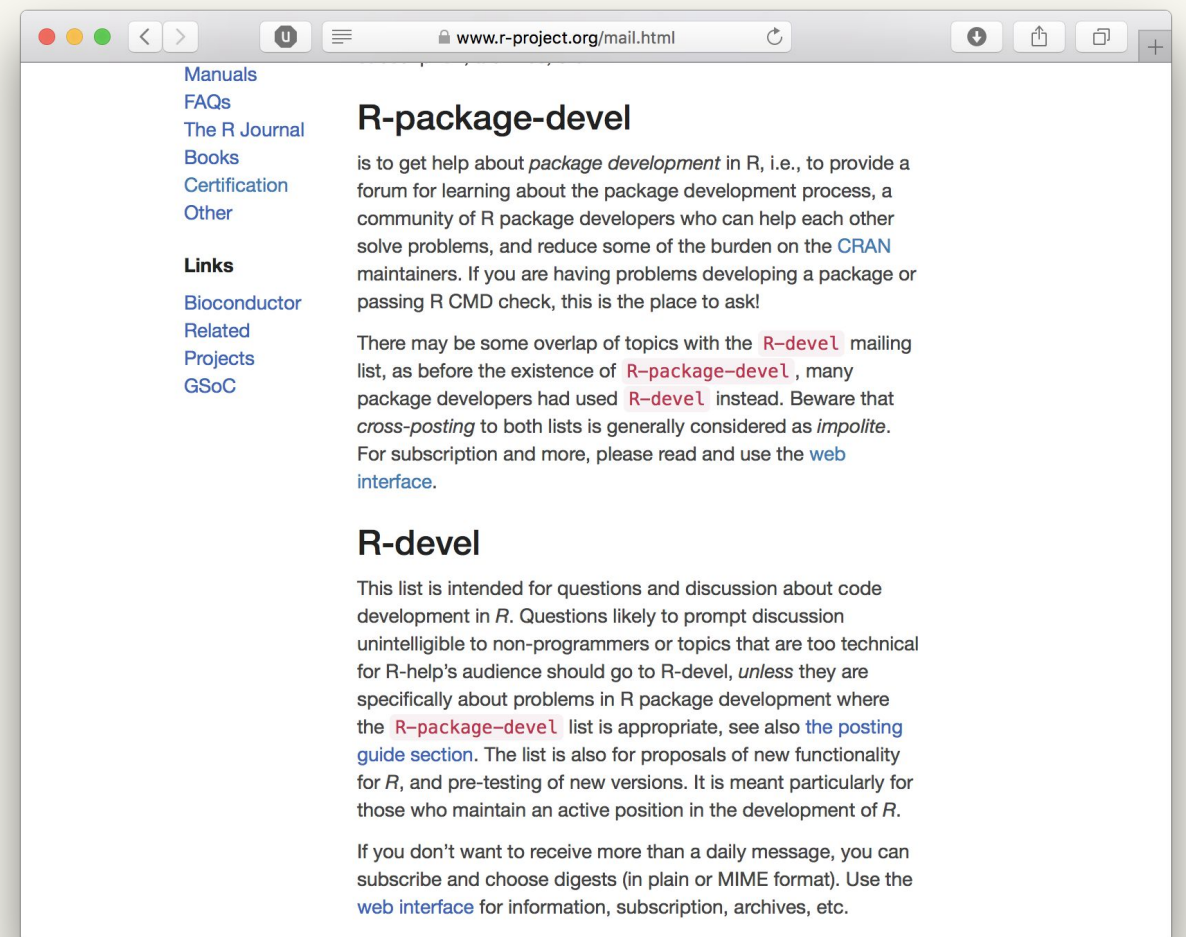
use_revdep_check()

library(revdepcheck)
revdep_check()
revdep_report_cran()
```

Learning more

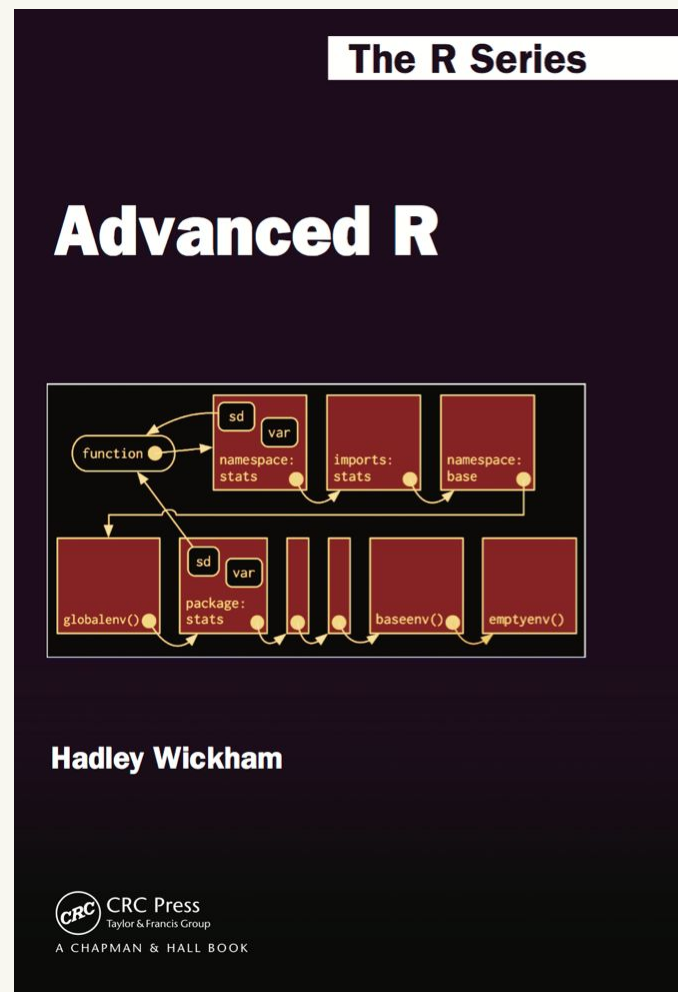


[community.rstudio.com](https://community.rstudio.com)



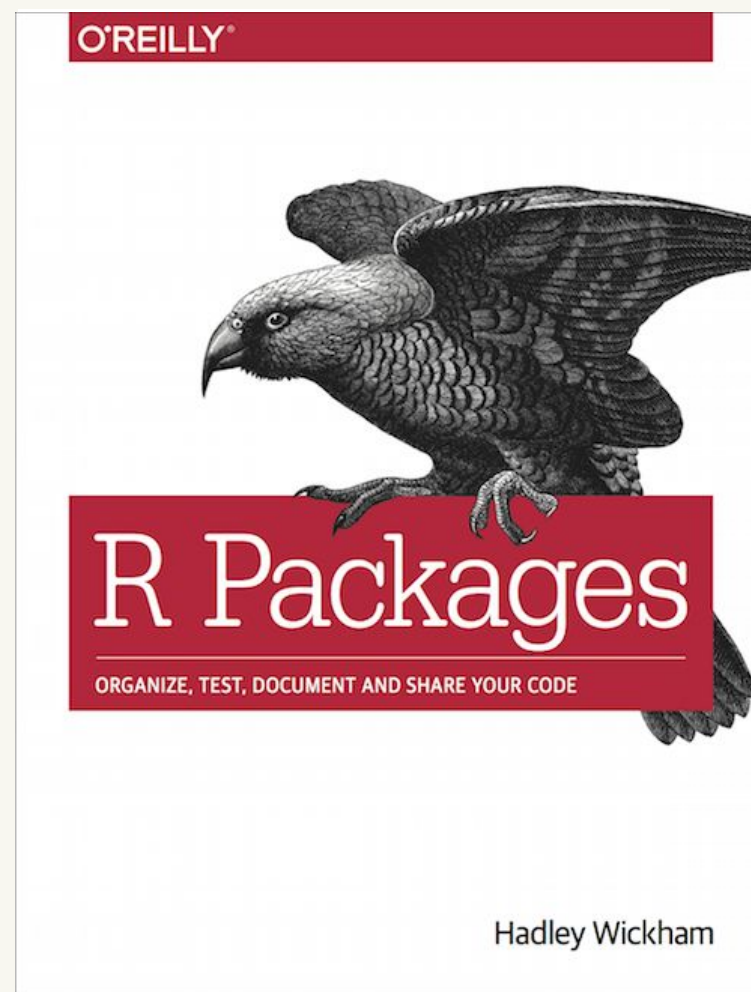
R-package-devel  
mailing list

# More details on many topics in books



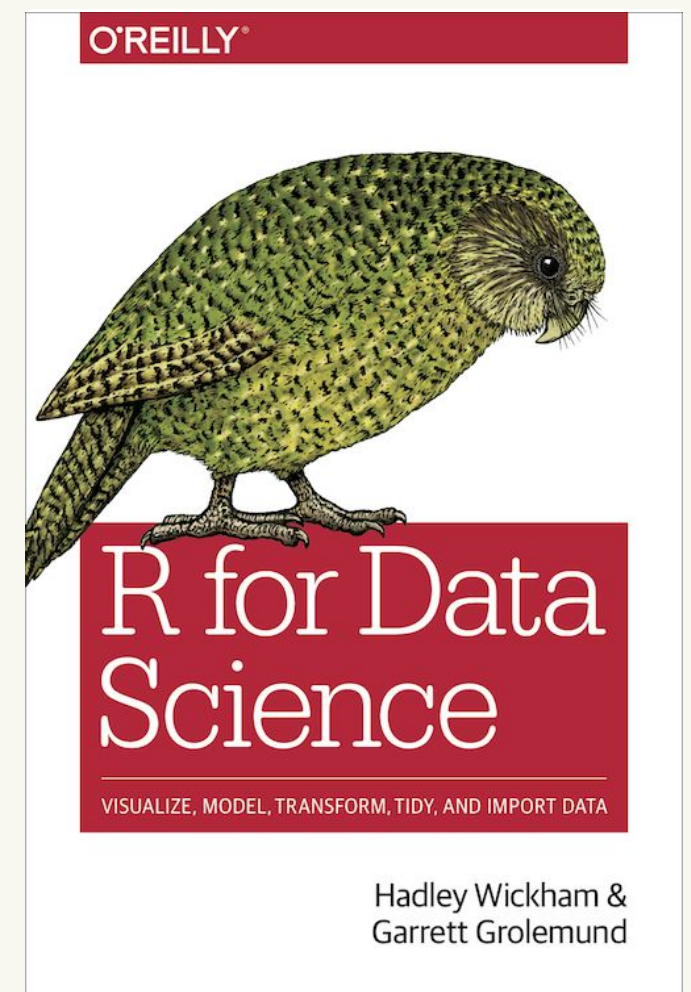
<http://adv-r.hadley.nz/>

<http://amzn.com/1466586966>



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

<https://amzn.com/1491910399>

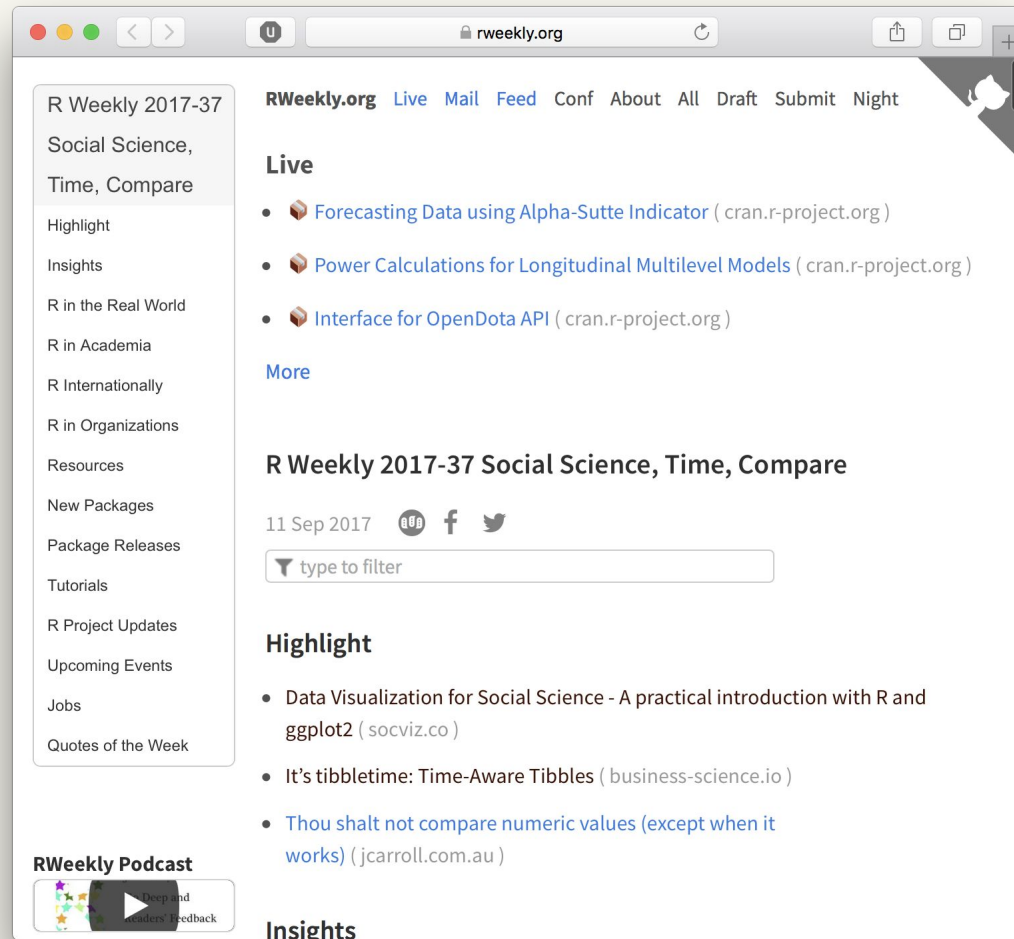


<http://r4ds.had.co.nz>

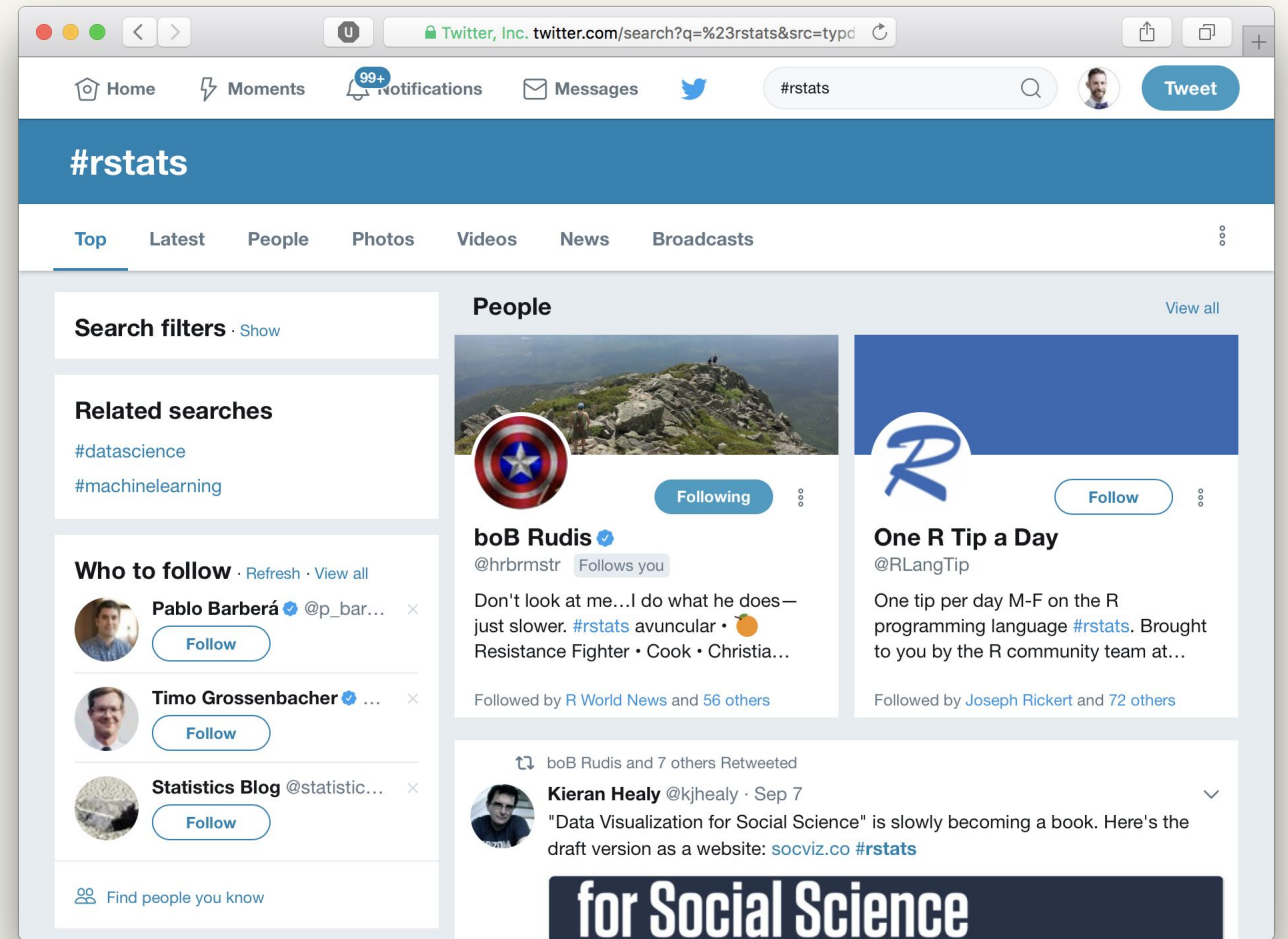
<https://amzn.com/1491910399>



# rweekly.org



# #rstats



[r] score:5 is:question  
closed:no

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c/3.0/us/](http://creativecommons.org/licenses/by-nc/3.0/us/)