

# Release

*September 2016*

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R CMD check

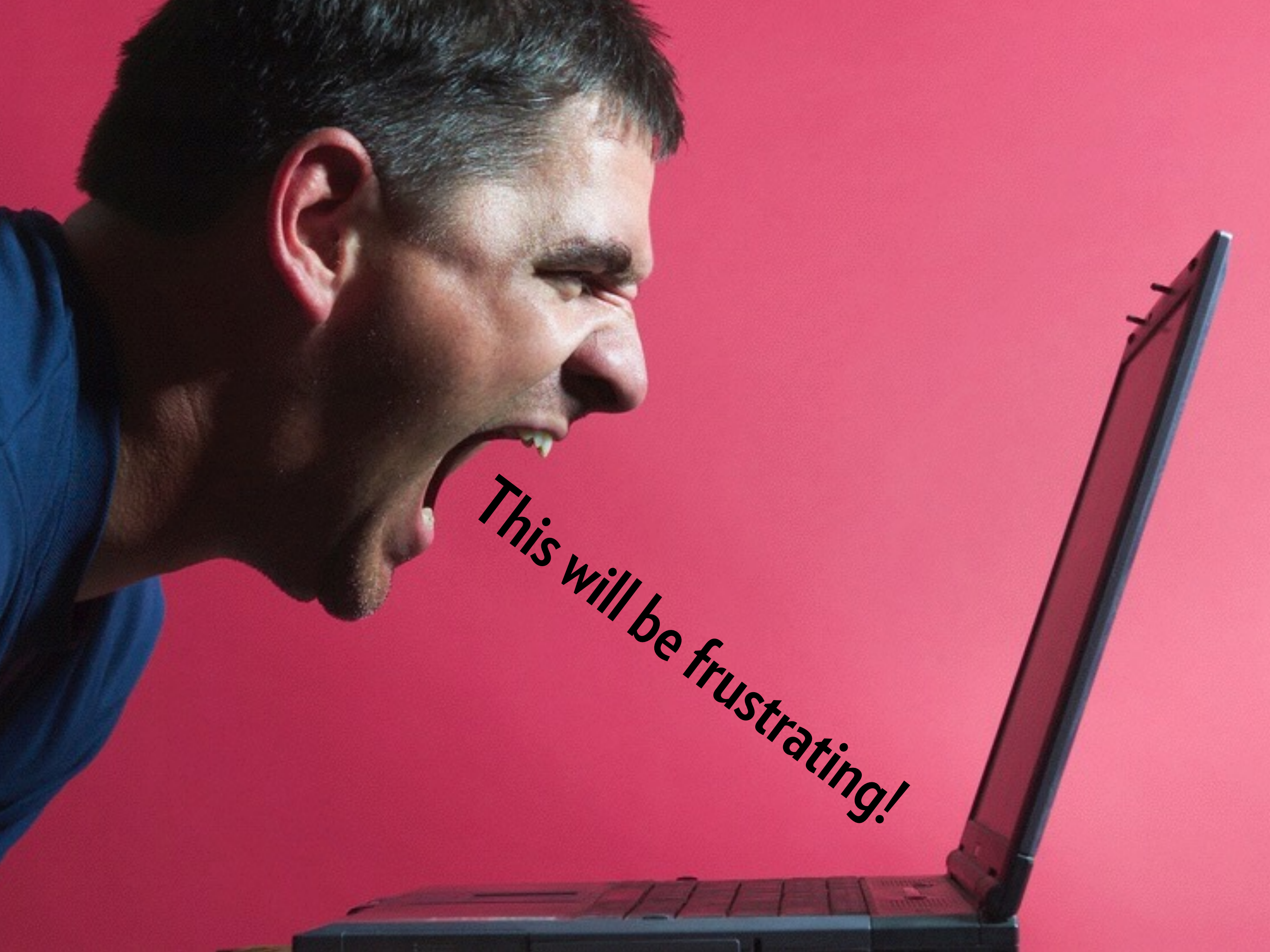
# Automated checking

Runs automated checks for common problems in R packages.

While it has false positives, it is useful for local packages.

If you want to submit to CRAN, you **must pass** R CMD check cleanly.

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



***This will be frustrating!***



==> R CMD build rv2

- \* checking for file 'rv2/DESCRIPTION' ... OK
- \* preparing 'rv2':
- \* checking DESCRIPTION meta-information ... OK
- \* installing the package to build vignettes
- \* creating vignettes ... OK
- \* checking for LF line-endings in source and make files
- \* checking for empty or unneeded directories
- \* building 'rv2\_0.1.tar.gz'

==> R CMD check rv2\_0.1.tar.gz

- \* using log directory '/Users/hadley/Documents/courses/13-devtools/rv2.Rcheck'
- \* using R version 3.0.2 (2013-09-25)
- \* using platform: x86\_64-apple-darwin10.8.0 (64-bit)
- \* using session charset: UTF-8
- \* checking for file 'rv2/DESCRIPTION' ... OK
- \* this is package 'rv2' version '0.1'
- \* checking package namespace information ... OK
- \* checking package dependencies ... OK
- \* checking if this is a source package ... OK
- \* checking if there is a namespace ... OK
- \* checking for executable files ... OK
- \* checking for hidden files and directories ... OK
- \* checking for portable file names ... OK

- \* checking for sufficient/correct file permissions ... OK
- \* checking whether package 'rv2' can be installed ... OK\* checking installed package size ... OK
- \* checking package directory ... OK
- \* checking DESCRIPTION meta-information ... OK
- \* checking top-level files ... OK
- \* checking for left-over files ... OK
- \* checking index information ... OK
- \* checking package subdirectories ... OK
- \* checking R files for non-ASCII characters ... OK
- \* checking R files for syntax errors ... OK
- \* checking whether the package can be loaded ... OK
- \* checking whether the package can be loaded with stated dependencies ... OK
- \* checking whether the package can be unloaded cleanly ... OK
- \* checking whether the namespace can be loaded with stated dependencies ... OK
- \* checking whether the namespace can be unloaded cleanly ... OK
- \* checking loading without being on the library search path ... OK
- \* checking dependencies in R code ... OK
- \* checking S3 generic/method consistency ... OK
- \* checking replacement functions ... OK
- \* checking foreign function calls ... OK
- \* checking R code for possible problems ... OK
- \* checking Rd files ... OK
- \* checking Rd metadata ... OK
- \* checking Rd cross-references ... OK
- \* checking for missing documentation entries ... OK
- \* checking for code/documentation mismatches ... OK

- \* checking Rd \usage sections ... OK
- \* checking Rd contents ... OK
- \* checking for unstated dependencies in examples ... OK
- \* checking installed files from 'inst/doc' ... OK
- \* checking files in 'vignettes' ... OK
- \* checking examples ... OK
- \* checking for unstated dependencies in tests ... OK
- \* checking tests ...
  - Running 'testthat.R' OK
- \* checking for unstated dependencies in vignettes ...  
OK
- \* checking package vignettes in 'inst/doc' ... OK
- \* checking running R code from vignettes ...
  - 'clt.Rmd' ... OK  
OK
- \* checking re-building of vignette outputs ... OK
- \* checking PDF version of manual ... OK

R CMD check succeeded

# Types of problem

## ERROR

Must fix!

## WARNING

Fix if submitting to CRAN

## NOTE

Fix if submitting to CRAN

*It is possible to submit with a NOTE, but it's best avoided*

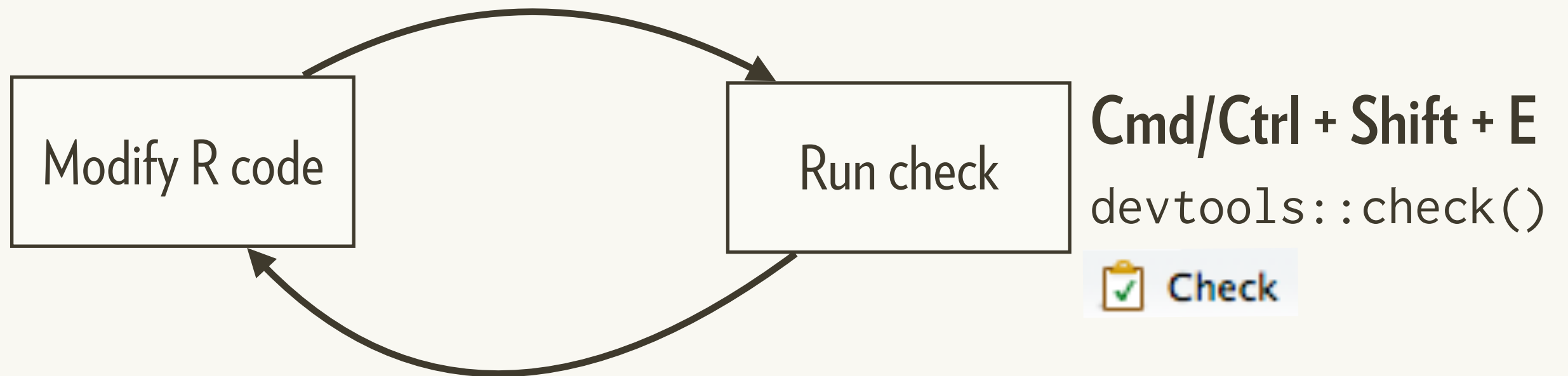
	Local	CRAN
ERROR	✓	✓
WARNING		✓
NOTE		✓



Change working directory/project to:

[check-me]

# Check workflow



Repeat the check workflow until all problems are fixed.

There are **eight** problems for you to find and fix.  
Don't look at the answers until you've made an attempt at finding them all.

~~See `'.../rv2.Rcheck/00check.log'` for details.~~

**No peeking** until you've made an attempt!

1. @returns instead of @return in probability.r
2. Error in vignette
3. Description field needs to end in a period.
4. print generic is function(x, ...)
5. plot.rv needs to be explicit (see next slide)
6. Typo in moments documentation (SD not S)
7. # instead of #' in simulation.R
8. Missing "Suggests: testthat" in description

```
#' @export
plot.rv <- function(x, ...) {
  name <- deparse(substitute(x))
  ylim <- range(0, probs(x))

  graphics::plot(as.numeric(x), probs(x), type = "h",
    ylim = ylim, xlab = name,
    ylab = paste0("P(", name, ")"), ...)
  graphics::points(as.numeric(x), probs(x), pch = 20)
  graphics::abline(h = 0, col = "gray")
}
```



CRAN

# Submitting to CRAN

```
# Always check with R-devel on windows  
devtools::build_win()
```

```
# Update cran-comments.md (next slide)
```

```
# Then submit to CRAN with:  
devtools::release()
```

```
# This asks you a number of questions to check that  
# you've done everything to make the submission as  
# painless as possible
```

```
# It then builds and uploads to CRAN.
```

```
# You'll get a confirmation email a few minutes later
```

# cran-comments.md

```
# Create with devtools::use_cran_comments()
```

```
## Test environments
```

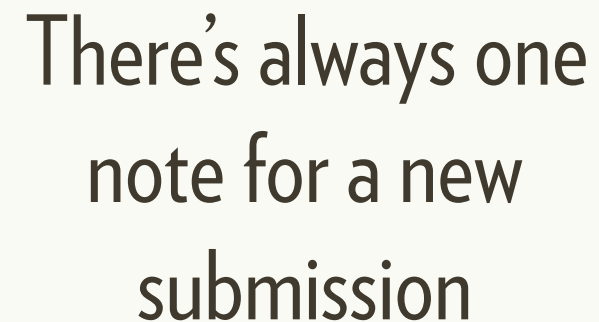
```
* local OS X install, R 3.2.2
```

```
* win-builder (devel and release)
```

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

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

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

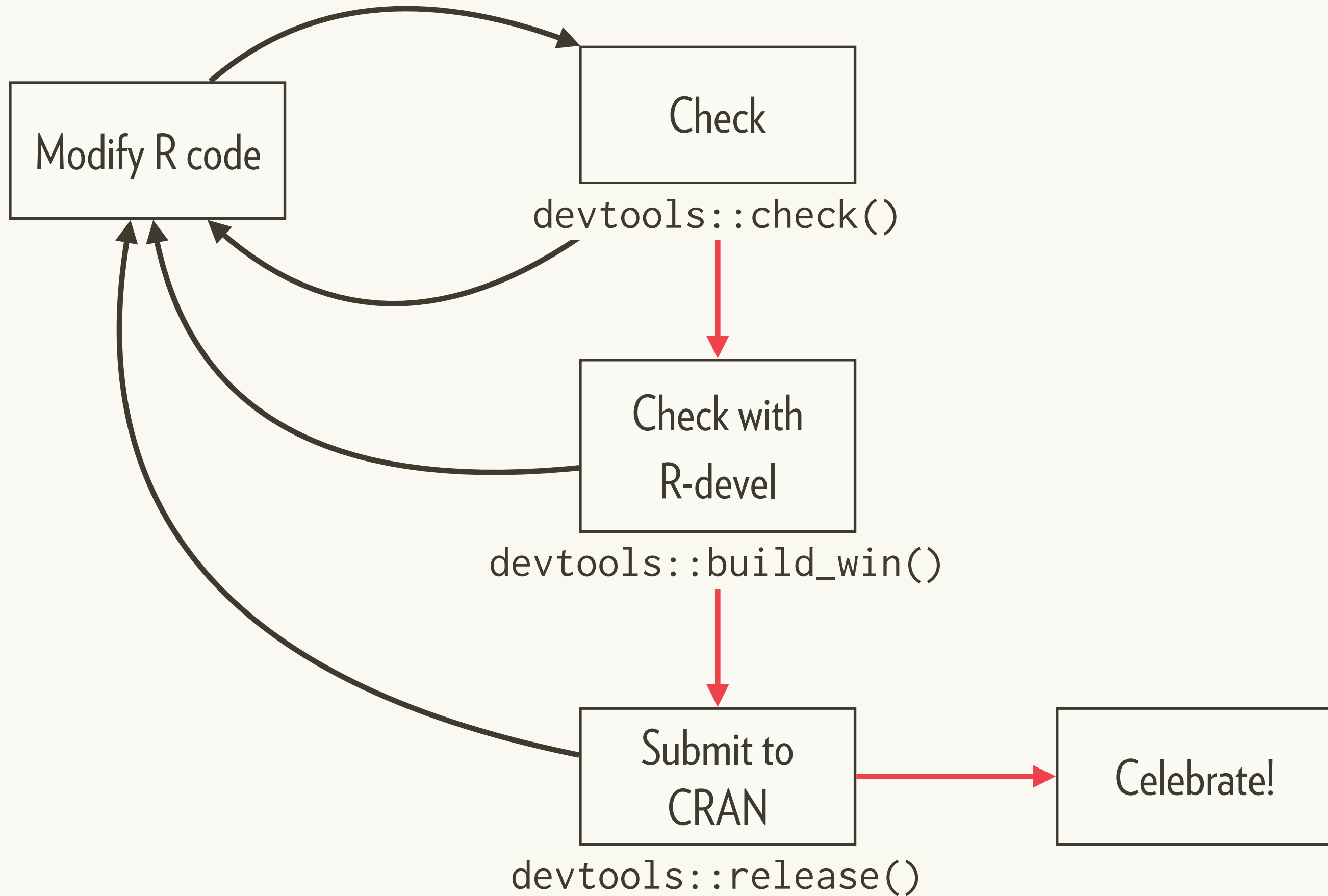


There's always one  
note for a new  
submission

```
## Reverse dependencies
```

```
This is a new release, so there are no reverse dependencies.
```

# Release



# If your submission fails

The CRAN maintainers are overwhelmed. ~80% of package submissions need human intervention because of a problem.

Don't worry if you receive a curt response. CRAN treats everyone the same way (even members of R core!) — they're not singling you out.

Ignore any ad-hominem attacks and respond to the content.

**Never respond by email.** Simply update your cran-comments.md & resubmit. It is not worth arguing.

# 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

...



## Devtools guarantee

If a CRAN maintainer yells at you because of a bug in devtools, I'll send you an hand-written apology card. Just forward the email to me, along with your mailing address.

No one will use your package if they don't know it exists



`r-packages@stat.math.ethz.ch`

Git + github

# A home on the web

The screenshot shows the GitHub repository page for **hadley / dplyr**. The browser's address bar shows the URL <https://github.com/hadley/dplyr>. The repository page includes a header with navigation links (Explore, Gist, Blog, Help) and a search bar. Below the header, the repository name **hadley / dplyr** is displayed, along with statistics: 935 commits, 7 branches, 0 releases, and 4 contributors. A progress bar shows the distribution of code languages. The main content area lists recent commits, with the most recent one by **romainfrancois** 2 days ago. The commit details show a list of files and their descriptions, such as "Only create if \_doesn't\_ exist" for the **R** file. On the right side, there are links to **Code**, **Issues** (25), **Pull Requests** (0), **Wiki**, **Pulse**, **Graphs**, **Network**, and **Settings**. At the bottom right, there are options to clone the repository using **SSH**, **HTTPS**, or **Subversion**, and buttons for **Clone in Desktop** and **Download ZIP**.

GitHub, Inc. [US] <https://github.com/hadley/dplyr>

hadley / dplyr

Unwatch 31 Star 109 Fork 19

Plyr specialised for data frames: faster & with remote datastores — Edit

935 commits 7 branches 0 releases 4 contributors

branch: master dplyr / Show language statistics

more on #152

romainfrancois authored 2 days ago latest commit a91dc1206d

R	Only create if _doesn't_ exist	3 days ago
data	Recompress nasa data	3 days ago
demo	Add trailing nl	13 days ago
inst	more on #152	2 days ago
man-roxygen	Shift manip docs into individual srcs	2 months ago
man	Fix incorrect uses of ll with l	3 days ago
src	more on #152	2 days ago
tests	Move to cran version of testthat	3 days ago
vignettes	Vignettes can't use error = TRUE	4 days ago
.Rbuildignore	Ignore man-roxygen in built package	a month ago
.gitignore	Get vignettes workign	2 months ago

SSH clone URL  
git@github.com:hadley:dplyr

You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).

Clone in Desktop

Download ZIP

# Nicely formatted readme

README.md

# dplyr

build failing

dplyr is the next iteration of plyr, focussed on tools for working with data frames (hence the `d` in the name). It has three main goals:

- Identify the most important data manipulation tools needed for data analysis and make them easy to use from R.
- Provide blazing fast performance for in-memory data by writing key pieces in C++.
- Use the same interface to work with data no matter where it's stored, whether in a data frame, a data table or database.

`dplyr` is not yet available on CRAN, but you can install it from github with:

```
devtools::install_github("dplyr")
```

To get started, read the notes below, then read the intro vignette:

`vignette("introduction", package = "dplyr")`. To make the most of dplyr, I also recommend that you familiarise yourself with the principles of [tidy data](#): this will help you get your data into a form that works well with dplyr, ggplot2 and R's many modelling functions.

If you encounter a clear bug, please file a minimal reproducible example on [github](#). For questions and other discussion, please use the [manipulatr mailing list](#).

# See what's happening

using tbl\_df instead of raw x

GitHub, Inc. [US] <https://github.com/hadley/dplyr/commits/master>


This repository Search or type a command Explore Gist Blog Help

hadley / dplyr


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branch: master dplyr / Commits


Dec 07, 2013


 **more on #152** a91dc1206d [Browse code](#)  
romainfrancois authored 2 days ago


Dec 06, 2013


 **using tbl\_df instead of raw data.frame for the test** 864c8b7b9f [Browse code](#)  
romainfrancois authored 2 days ago


 **fix test** 58eaddc3b3 [Browse code](#)  
romainfrancois authored 3 days ago


 **using NamedListAccumulator** 0c7d40db1a [Browse code](#)  
romainfrancois authored 3 days ago

 **handling date and time constants** 457dd7e8f6 [Browse code](#)  
romainfrancois authored 3 days ago

 **handling special cases in summarise. closes #153** eb2c3566f4 [Browse code](#)  
romainfrancois authored 3 days ago

 **summarise handles constants (#153)** ea873897a9 [Browse code](#)  
romainfrancois authored 3 days ago

 **dealing with the case summarise(df, log(z)) from #153** 7d0fe6d829 [Browse code](#)  
romainfrancois authored 3 days ago

 **dealing with the case summarise(df, diff(z)) from #153** d278dfcec8 [Browse code](#)  
romainfrancois authored 3 days ago



# See exactly what changed

using tbl\_df instead of raw x

GitHub, Inc. [US] https://github.com/hadley/dplyr/commit/864c8b7b9fae5329d99d818bd78b2b1686bdb167

hadley

This repository Search or type a command Explore Gist Blog Help

hadley / dplyr

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using tbl\_df instead of raw data.frame for the test

master

romainfrancois authored 2 days ago 1 parent 58eaddc commit 864c8b7b9fae5329d99d818bd78b2b1686bdb167

Showing 2 changed files with 3 additions and 3 deletions. Show Diff Stats

2 inst/tests/test-summarise.r View file @ 864c8b7

@@ -69,7 +69,7 @@ test\_that("summarise handles constants (#153)", {

69 69 today <- Sys.Date()

70 70 now <- Sys.time()

71 71

72 - res <- summarise(df, int = 1L, num = 1.0,

72 + res <- summarise(tbl\_df(df), int = 1L, num = 1.0,

73 73 str = "foo", bool = TRUE, date = today, time = now)

74 74 expect\_equal(res\$int, 1L)

75 75 expect\_equal(res\$num, 1.0)

4 src/dplyr.cpp View file @ 864c8b7

@@ -1024,14 +1024,14 @@ SEXP summarise\_not\_grouped(DataFrame df, List args, Environment env){

1024 1024 Rcpp::Shelter<SEXP> \_\_ ;

1025 1025 for( int i=0; i<nexpr; i++){

1026 1026 SEXP name = names[i] ;

1027 -

1028 - boost::scoped\_ptr<Result> res( get\_handler( args[i], subsets, env ) ) ;

1027 + Result\* res = get\_handler( args[i], subsets, env ) ;

# Track issues

Commits · hadley/dplyr

using tbl\_df instead of raw

Issues · hadley/dplyr

GitHub, Inc. [US]https://github.com/hadley/dplyr/issues?milestone=2&state=open

hadley

hadley

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hadley / dplyr

Unwatch 31

Star 109

Fork 19

Browse Issues

Milestones

New Issue

Everyone's Issues 4

Assigned to you 0

Created by you 3

Mentioning you 1

Milestone: v0.1

4 open issues · Due in 7 days

Labels

bug 1

enhancement 2

Manage Labels

New label

New label name

Clear milestone and label filters

4 Open 30 Closed Sort: Newest

Close

Label

Assignee

Milestone

☐ .data.frame versions not using the correct environment #159

Opened by romainfrancois 2 days ago 2 comments

☐ Mutate fails when creating a constant bug #152

Opened by hadley 4 days ago 8 comments

☐ C++ code needs to regularly check for user interrupts enhancement #123

Opened by hadley 21 days ago 4 comments

☐ Plyr compatibility enhancement #29

Opened by hadley 4 months ago 2 comments

Keyboard shortcuts available

# Talk things over

needs to reg... ×

using tbl\_df instead of r... ×


fix bug: mysql connectic... ×

Travis CI - Free Hosted... ×

Releases - klutometis/ro... ×

GitHub, Inc. [US] https://github.com/hadley/dpiyr/issues/123

☆ 🔍 📧 📧 📧 📧



hadley opened this issue 21 days ago


**C++ code needs to regularly check for user interrupts**

Edit

 romainfrancois is assigned ⚙️

Milestone: v0.1  ⚙️

So if you accidentally miss-specify a call you can abort it.






2 participants  

Open

4 comments

Labels ⚙️

enhancement




← romainfrancois referenced this issue from a commit

14 days ago

 romainfran... adding code to check for interrupts. #123 

✕ 🗨️ 0627028




romainfrancois commented

14 days ago ✎ ⓧ

I'm adding calls to `R_CheckUserInterrupt` here and there. But I'm wondering if this plays well with C++.

I think this uses long jumps and that possibly bypasses C++ destructors. I might ask this on R-devel.



romainfrancois commented

14 days ago ✎ ⓧ

This comes from Simon's contribution to [a thread on R-devel](#) :

```
static void chkIntFn(void *dummy) {  
  R_CheckUserInterrupt();  
}  
  
// this will call the above in a top-level context so it won't longjmp-out of your context  
bool checkInterrupt() {  
  return (R_ToplevelExec(chkIntFn, NULL) == FALSE);  
}  
  
// your code somewhere ...
```

# Receive pull requests

GitHub, Inc. [US] <https://github.com/hadley/dplyr/pull/51>

This repository Search or type a command Explore Gist Blog Help

hadley / dplyr

Unwatch 31 Star 109 Fork 19

Merged hadley merged 1 commit into `hadley:master` from `szilard:master` about 1 month ago 2 #51

Conversation Commits 1 Files Changed 1

szilard opened this pull request 2 months ago

**fix bug: mysql connection password was not passed** Edit

No one is assigned No milestone

it was working (only) if user had no password

szilard added a commit 2 months ago

szilard fix bug: mysql connection password was not passed [3ebb93f](#)

hadley referenced this pull request from a commit 2 months ago

hadley Merge pull request #51 from szilard/master [ebc7672](#)

Merged hadley merged commit `ebc7672` into `hadley:master` from `szilard:master` 2 months ago

Closed hadley closed the pull request 2 months ago

+ 1 addition  
- 1 deletion



... and review online

using tbl\_df instead of raw xfix bug: mysql connection x

GitHub, Inc. [US]https://github.com/hadley/dplyr/pull/51/files

starsearchgithub icon

hadley

hadley / dplyr

Unwatch 31Star 109Fork 19

Merged

hadley merged 1 commit into hadley:master from szilard:master about 1 month ago

2 #51

Conversation

Commits 1

Files Changed 1

Showing 1 changed file with 1 addition and 1 deletion.

Show Diff Stats

2 R/src-mysql.r

OpenView file @ 3ebb93f

95	95	@@ -95,7 +95,7 @@ src_mysql <- function(dbname, host = NULL, port = 0L, user = "root",
96	96	}
97	97	con <- dbi_connect(MySQL(), dbname = dbname , host = host, port = port,
98	-	username = user, ...)
98	+	username = user, password = password, ...)
99	99	info <- db_info(con)
100	100	
101	101	src_sql("mysql", con,

Tip: You can add notes to lines in a file. Hover to the left of a line to make a note

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github icon

Status API Training Shop Blog About

# Find out as soon as you break something

The screenshot shows the Travis CI web interface for the repository `klutometis/roxygen`. The browser address bar shows `https://travis-ci.org/klutometis/roxygen`. The Travis CI logo and navigation links (Home, Blog, Status, Help) are at the top. A search bar is on the left. The main content area shows the repository name `klutometis/roxygen` with a 'build passing' status. Below this, there are tabs for 'Current', 'Build History', 'Pull Requests', and 'Branch Summary'. The 'Current' tab is active, showing build details: Build `97`, State `Passed`, Commit `b510eaa (master)`, Author `hadley`, and Message `First pass at functions in usage. #164`. A terminal window at the bottom shows the build script execution, including cloning the repository, checking out the commit, and running tests.

Search all repositories

My Repositories Recent

- ropensci/RMendeley** 3  
1 min 17 sec  
3 minutes ago
- klutometis/roxygen** 97  
3 min 55 sec  
about 2 hours ago
- hadley/dplyr** 192  
8 min 51 sec  
2 days ago
- hadley/testthat** 12  
1 min 33 sec  
2 days ago
- hadley/assertthat** 10  
1 min 30 sec  
2 days ago

## klutometis/roxygen

build passing

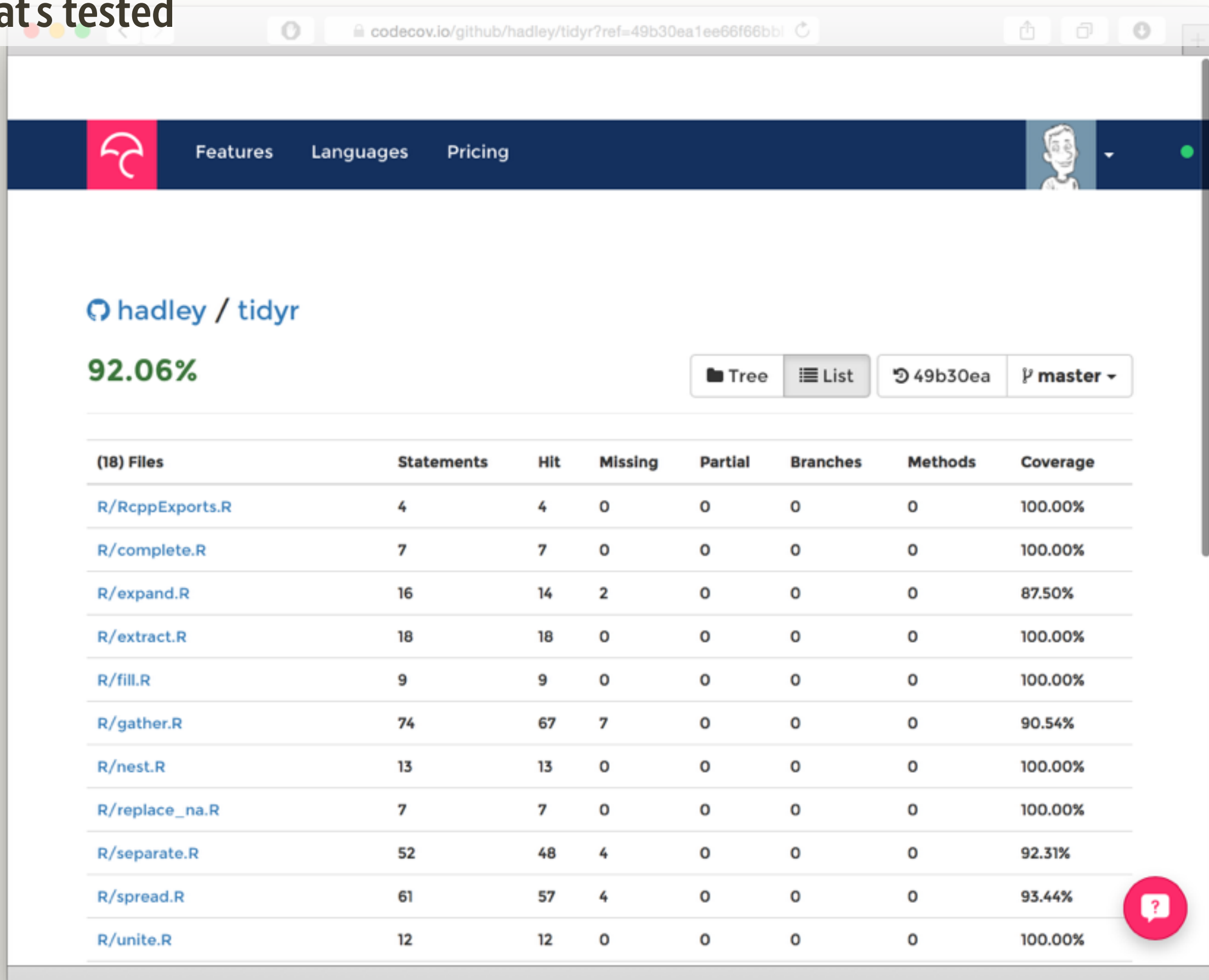
Current Build History Pull Requests Branch Summary

Build	97	Commit	b510eaa (master)
State	Passed	Compare	93fe512416d8...b510eaab00df
Finished	about 2 hours ago	Author	hadley
Duration	3 min 55 sec	Committer	hadley
Message	First pass at functions in usage. #164		

```
1 Using worker: worker-linux-5-2.bb.travis-ci.org:travis-linux-3
2
3 $ export global=[
4 $ export WARNINGS_ARE_ERRORS=1
5 $ export CC=gcc
6 $ git clone --depth=50 --branch=master git.1
13 $ cd klutometis/roxygen
14 $ git checkout -qf b510eaab00df548d02305d5f233dab3d54420b9f git.3
15 $ gcc --version
16 gcc (Ubuntu/Linaro 4.6.3-1ubuntu5) 4.6.3
17 Copyright (C) 2011 Free Software Foundation, Inc.
18 This is free software; see the source for copying conditions. There is NO
19 warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
20
21 $ curl -OL http://raw.githubusercontent.com/craigcitro/r- before_install.1
26 $ chmod 755 ./travis-tool.sh before_install.2
27 $ ./travis-tool.sh bootstrap before_install.3
322 $ ./travis-tool.sh install_deps install
574 $ ./travis-tool.sh run_tests
575 + CRAN=http://cran.rstudio.com
```



# See what's tested



```
80
81 #' @export
82 gather_.data.frame <- function(data, key_col, value_col, gather_cols,
83                                na.rm = FALSE, convert = FALSE) {
84   ## Return if we're not doing any gathering
16 16 if (length(gather_cols) == 0) {
86   1 return(data)
87 16 }
88
89 15 gather_idx <- match(gather_cols, names(data))
90 15 if (anyNA(gather_idx)) {
91   missing_cols <- paste(gather_cols[is.na(gather_idx)], collapse = ", ")
92   stop("Unknown column names: ", missing_cols, call. = FALSE)
93 15 }
94 15 id_idx <- setdiff(seq_along(data), gather_idx)
95
96   ## Get the attributes if common, NULL if not.
97 15 args <- normalize_melt_arguments(data, gather_idx, factorsAsStrings = TRUE)
98 15 measure.attributes <- args$measure.attributes
99 15 factorsAsStrings <- args$factorsAsStrings
100 15 valueAsFactor <- "factor" %in% measure.attributes$class
101
102 15 df <- melt_dataframe(data,
103 15   id_idx - 1L,
104 15   gather_idx - 1L,
105 15   as.character(key_col),
106 15   as.character(value_col),
107 15   as.pairlist(measure.attributes),
108 15   as.logical(factorsAsStrings),
109 15   as.logical(valueAsFactor)
110 15 )
111
112 14 if (na.rm) {
113   1 missing <- is.na(df[[value_col]])
114   1 df <- df[!missing, ]
115 14 }
116
117 14 if (convert) {
118   df[[key_col]] <- type.convert(as.character(df[[key_col]]), as.is = TRUE)
119 14 }
120
```

# Beautiful release notes

using tbl\_df instead of r x

fix bug: mysql connectio x

Travis CI - Free Hosted x

Releases - klutometis/ro x

GitHub, Inc. [US] https://github.com/klutometis/roxygen/releases

GitHub

This repository

Search or type a command

Explore

Gist

Blog

Help

hadley

klutometis / roxygen

Unwatch 10

Star 65

Fork 32

Releases / Tags

Draft a new release

Latest release

v3.0.0

abe5d0d

roxygen2 3.0.0

hadley released this 3 days ago · 3 commits to master since this release

Edit

Roxygen2 now fully supports S4 and RC (reference classes) - you should no longer need to manually add `@alias` or `@usage` tags for S4 classes, methods and generics, or for RC classes.

- The default usage definitions are much better, generating the correct usage for data sets ([#122](#)), S3 methods (without additional `@method` tag), S4 generics, S4 methods, and for replacement ([#119](#)) and infix functions. Backslashes in function arguments in are correctly escaped. Usage statements also use a more sophisticated line wrapping algorithm so that they should cause fewer problems with the R CMD check line limit. ([#89](#), [#125](#)).
- S4 classes, S4 methods, and RC classes are given better default topics, and the file names corresponding to those topics are shorter.
- S4 methods will automatically inherit parameter documentation from their generic.
- `@slot name description` allows you to document the slots of a S4 class.

# Devtools comes with helpers to get you started

```
use_git()
```

```
use_github()
```

```
use_travis()
```

```
use_coverage()
```

# Easy to install a package from github

```
library(devtools)  
install_github("hadley/devtools")
```

```
# Install specific tag  
install_github("hadley/devtools@v1.4.1")
```

```
# Github is a viable location for package  
# distribution, but it doesn't yet have the  
# reach or authority of CRAN. Currently  
# about ~4,000 packages on github.
```

# More resources

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

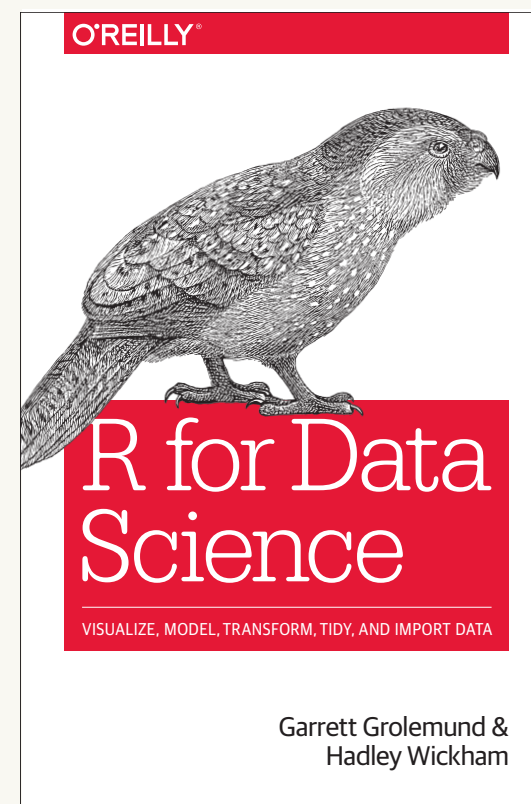
<http://help.github.com/>

<http://try.github.com/>

<http://gitref.org/>

[http://www.rstudio.com/ide/docs/version\\_control/overview](http://www.rstudio.com/ide/docs/version_control/overview)

Learning more



<http://adv-r.had.co.nz/>  
<http://amzn.com/1466586966>

<http://r4ds.had.co.nz>  
Done in July

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



# Other resources



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



<https://stat.ethz.ch/mailman/listinfo/r-devel>

<https://groups.google.com/d/forum/rdevtools>

Friendly, low-traffic mailing list for package development questions



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