Go social coding! Make open source more open!

Yihui Xie¹

Department of Statistics, Iowa State University

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¹Lightning talk at useR! 2012, Vanderbilt University, Nashville, TN ≥ > ≥ ∞ < ∞

About me

- ▶ love open source
- author of 8 R packages (animation, knitr, formatR, Rd2roxygen, fun, iBUGS, MSG, R2SWF)
- love web design
- appearance equally important as content, so prefer cute interfaces

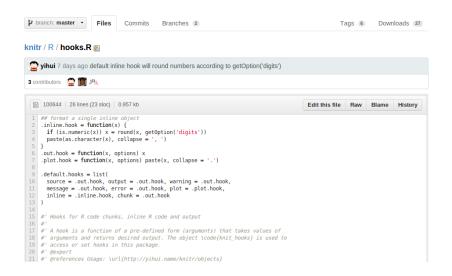
Package development

- first R package (animation) in 2007
 - no version control in the beginning
 - R-Forge came out soon, so SVN
- R-Forge broken randomly
- SVN interface is ugly
- SVN vs GIT
- ► GitHub: https://github.com/yihui

$\mathsf{Git}\mathsf{Hub}$



Browse source code



Diff in commits

isn't it stupid to diff() the results of cumsum()?!



yihui authored 4 days ago

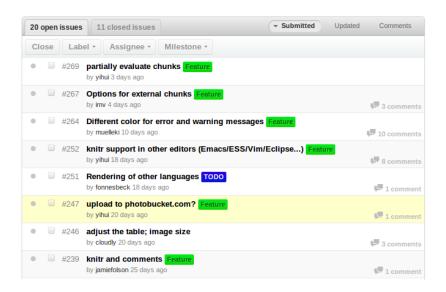
1 parent 8fe11d149c commit 82

Showing 1 changed file with 2 additions and 3 deletions.

■ R/concordance.R

```
R/concordance.R
        @@ -37,9 +37,8 @@ concord gen = function(infile, outfile) {
    38
    39
           # generate data structure
        linesout = cumsum(steps)
        - vals = rle(diff(linesout))
41
        vals = c(linesout[1L], as.numeric(rbind(vals$lengths, vals$values)))
    40 + vals = rle(steps)
    41 + vals = c(steps[1L], as.numeric(rbind(vals$lengths, vals$values)))
           concordance = paste(strwrap(paste(vals, collapse = " ")), collapse = " %\n")
    42
    43
    44
           # build record
```

GitHub issues



Discussion under issues



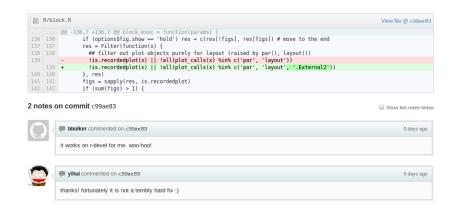
barryrowlingson opened this issue 17 days ago cache error **⊙** -No one is assigned . Milestone: v0.6 Another randomly occurring cache error: Error in process file(text) : Quitting from lines 58-60: Error in exists(str c(".", hash), envir = globalenv(), mode = "characte internal error -3 in R decompress1 removing the cache/{chunk}.* files for the chunk being processed at the time clears it, but invalidates all the cached things dependent on those... But the error comes back soon... 3 participants



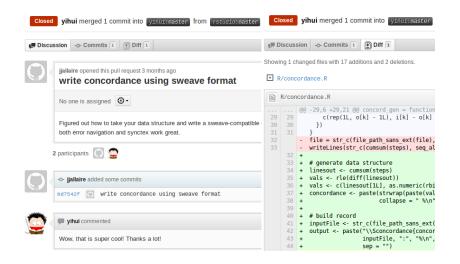
Maybe a different issue... maybe related...

I am also encountering many problems with the cache when used with Lyx. Basically, whatever change is done, lyx will

Discussion under code lines



Pull requests



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1. Installation

To install from CRAN, use

```
install.packages('formatR')
```

To install the development version from GitHub, use

```
install.packages('devtools')
library(devtools)
install_github('formatR', 'yihui')
```

This page is always based on the development version.

2. Reformat R code

The formatR package was designed to reformat R code to improve readability; the main workhorse is the function <code>\tidy.source()</code> . Features include:

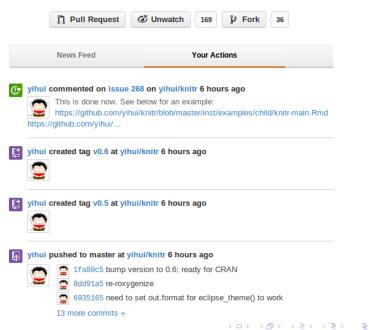
- · long lines of code and comments are reorganized into appropriately shorter ones
- · spaces and indent are added where necessary
- · comments are preserved in most cases

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knitr

Elegant, flexible and fast dynamic report generation with R

Overview

The **knitr** package was designed to be a transparent engine for dynamic report generation with R, solve some long-standing problems in Sweave, and combine features in other add-on packages into one package (**knitr** \approx Sweave + cacheSweave + pgfSweave + weaver + animation::saveLatex + R2HTML::RweaveHTML + highlight::HighlightWeaveLatex + 0.2 * brew + 0.1 * SweaveListingUtils + more).

Twitter/Google+/Hashtags/Google Alerts

Results for #knitr



Tweets Top / All



Yihui Xie @xieyihui

9 Jun

got an @OpenCPU app working: github.com/yihui/knitr/bl... (knit in the cloud!) #knitr v0.6 is almost ready; testing needed github.com/yihui/knitr

Expand



klr @timelyportfolio

8 Jun

Timely Portfolio: #knitr Performance Report 4 timelyportfolio.blogspot.com/2012/06/knitr-... #rstats and #knitr fun on a friday afternoon

Expand



4 Jun

Awesome! RT: @rstudioapp: New blog post: Announcing RPubs, A New Web Publishing Service for R is.gd/IU0o42 #rstats #rstudio #knitr

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Conclusions

- put everything under the sun (i.e. in the browser)
- convenient discussions
- quick feedback (@, # and + can be good friends)