

# Git & github

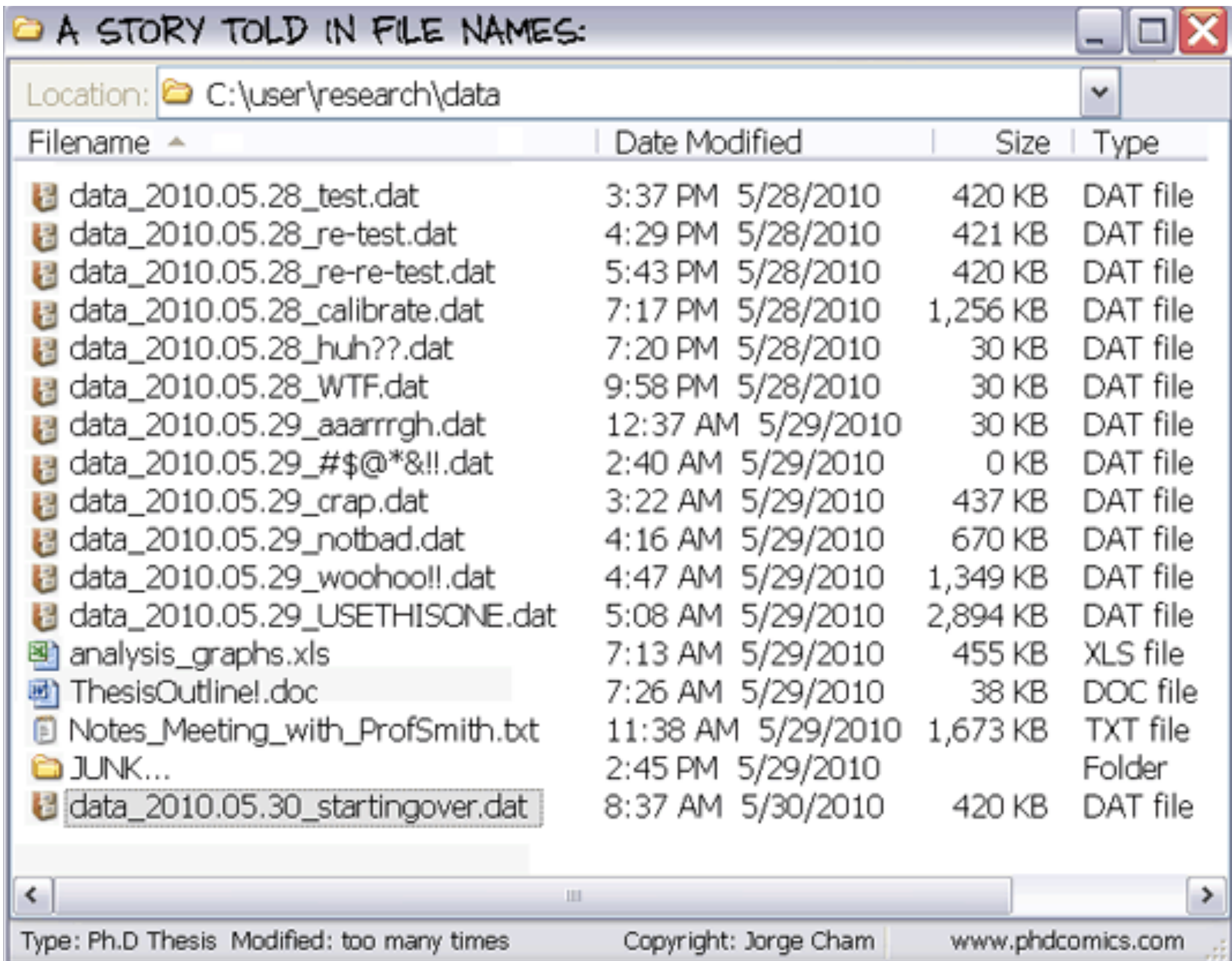
A (very) short intro  
by: @spsaaibi

References:

<https://github.com/hadley>

# Overview

- Focus mostly on the why, not the how
- Learning git & github is definitely frustrating at first
- Two big pay offs: **safety & community**



# "FINAL".doc



FINAL.doc!



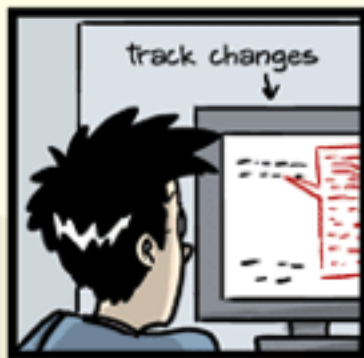
FINAL\_rev.2.doc



FINAL\_rev.6.COMMENTS.doc



FINAL\_rev.8.comments5.  
CORRECTIONS.doc



FINAL\_rev.18.comments7.  
corrections9.MORE.30.doc



FINAL\_rev.22.comments49.  
corrections.10.#@\$%WHYDID  
ICOMETOGRADSCHOOL?????.doc



# Changes

- **A unique identifier**
- What changed?
- **When did it change?**
- Who changed it?
- **Why did it change?**

(And this obviously gets hard to coordinate for multiple files)

# Recipes (\*basics\*):

**git pull** #get the latest version of course repo

**git add .** #add my changes to commit

**git commit -am 'msg'** #insightful msg about my changes'

**git push** # push changes to repo



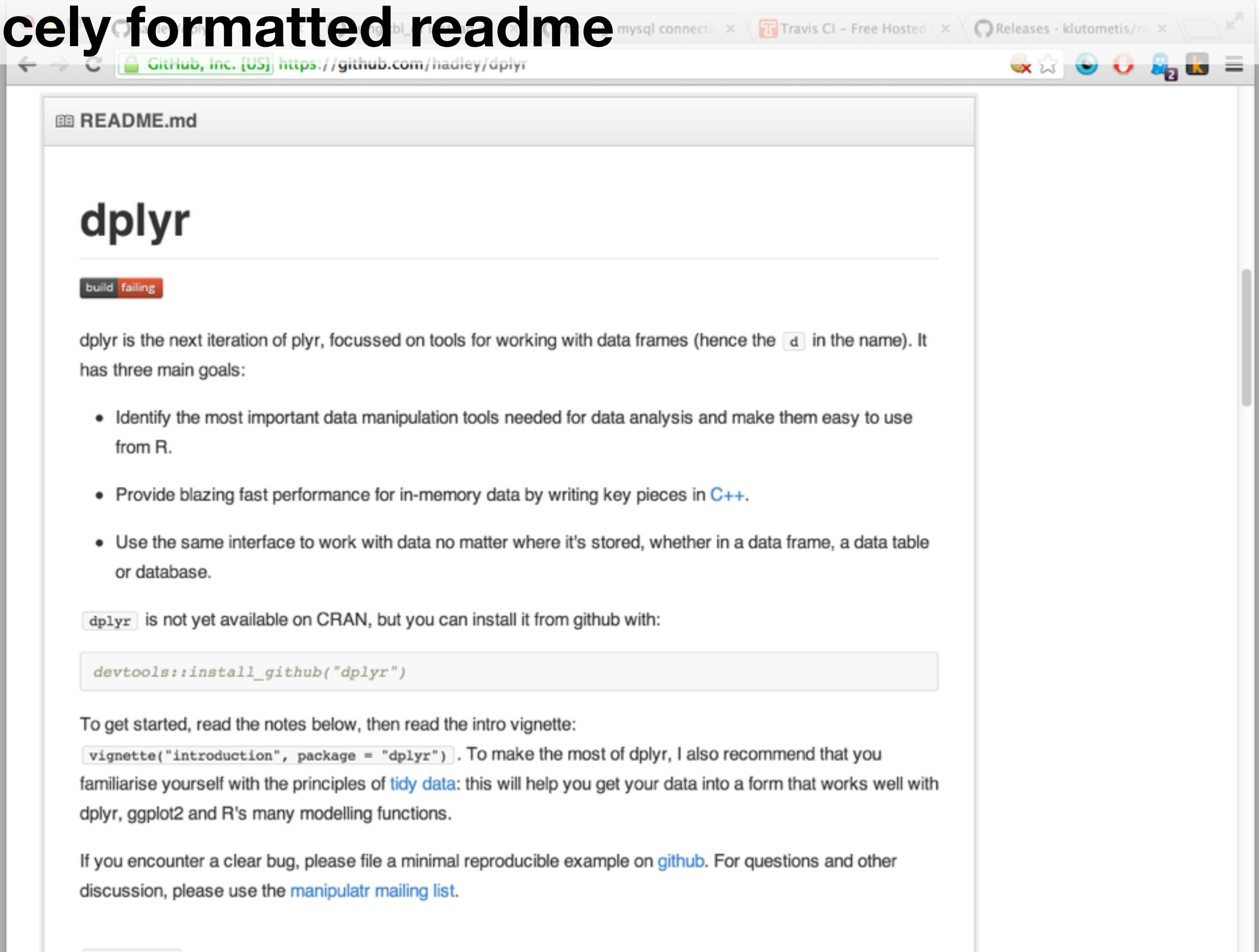
# A home on the web

The screenshot shows the GitHub repository page for **hadley / dplyr**. The repository is described as "Plyr specialised for data frames: faster & with remote datastores". It has 935 commits, 7 branches, 0 releases, and 4 contributors. The current branch is **master**. A list of recent commits is shown, including one by **romainfrancois** 2 days ago. The commit details show a list of files and their changes, such as `R` (Only create if `_doesn't_` exist), `data` (Recompress nasa data), `demo` (Add trailing nl), `inst` (more on #152), `man-roxygen` (Shift manip docs into individual srcs), `man` (Fix incorrect uses of `ll` with `l`), `src` (more on #152), `tests` (Move to cran version of testthat), `vignettes` (Vignettes can't use `error = TRUE`), `.Rbuildignore` (Ignore man-roxygen in built package), and `.gitignore` (Get vignettes workign).

On the right side, there are links to **Code**, **Issues** (25), **Pull Requests** (0), **Wiki**, **Pulse**, **Graphs**, **Network**, and **Settings**. Below these, the **SSH clone URL** is provided as `git@github.com:hadley:dplyr`. There are also buttons for **Clone in Desktop** and **Download ZIP**.

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

# Nicely formatted readme



The image is a screenshot of a web browser displaying the README for the 'dplyr' package on GitHub. The browser's address bar shows the URL 'https://github.com/hadley/dplyr'. The page title is 'README.md'. The main heading is 'dplyr'. Below the heading, there is a status bar indicating 'build failing'. The text describes 'dplyr' as the next iteration of 'plyr', focused on working with data frames. It lists three main goals: identifying important data manipulation tools, providing fast performance by writing key pieces in C++, and using a consistent interface for different data sources. It also mentions that 'dplyr' is not yet on CRAN and provides instructions on how to install it from GitHub using 'devtools::install\_github("dplyr")'. Finally, it suggests reading the introduction vignette and familiarizing oneself with 'tidy data' principles.

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

The screenshot shows the GitHub repository page for **hadley / dplyr**. The page displays the commit history for the **master** branch. The repository has 31 Unwatch, 109 Stars, and 19 Forks. The commit history is filtered by the **master** branch.

**Dec 07, 2013**

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

**Dec 06, 2013**

- using tbl\_df instead of raw data.frame for the test**  
romainfrancois authored 2 days ago  
Commit hash: [864c8b7b9f](#)  
[Browse code](#)
- fix test**  
romainfrancois authored 3 days ago  
Commit hash: [58eaddc3b3](#)  
[Browse code](#)
- using NamedListAccumulator**  
romainfrancois authored 3 days ago  
Commit hash: [0c7d40db1a](#)  
[Browse code](#)
- handling date and time constants**  
romainfrancois authored 3 days ago  
Commit hash: [457dd7e8f6](#)  
[Browse code](#)
- handling special cases in summarise. closes #153**  
romainfrancois authored 3 days ago  
Commit hash: [eb2c3566f4](#)  
[Browse code](#)
- summarise handles constants (#153)**  
romainfrancois authored 3 days ago  
Commit hash: [ea873897a9](#)  
[Browse code](#)
- dealing with the case summarise(df, log(z)) from #153**  
romainfrancois authored 3 days ago  
Commit hash: [7d0fe6d829](#)  
[Browse code](#)
- dealing with the case summarise(df, diff(z)) from #153**  
romainfrancois authored 3 days ago  
Commit hash: [d278dfcec8](#)  
[Browse code](#)

# See exactly what changed

GitHub, Inc. [US]

https://github.com/hadley/dplyr/commit/864c8b7b9fae5329d99d818bd78b2b1686bdb167

☆ 🔍 🗨️ 📧 📄 📁

🐙

This repository ▾

Search or type a command ?

Explore Gist Blog Help

hadley

📄 ✂️ 📁

hadley / dplyr

👁️ Unwatch ▾ 31

★ Star 109

🍴 Fork 19

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

Browse code

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

70 70 today <- Sys.Date()

71 71 now <- Sys.time()

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

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

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

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

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

4 🟢 🟡 🟠 📄 src/dplyr.cpp

View file @ 864c8b7

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 ) ;

# Beautiful release notes

The screenshot shows the GitHub interface for the `klutometis/roxygen2` repository. The browser address bar shows the URL `https://github.com/klutometis/roxygen2/releases`. The repository name `klutometis / roxygen2` is displayed at the top, along with statistics: 10 Unwatch, 65 Star, and 32 Fork. The page is titled "Releases / Tags" and includes a "Draft a new release" button. The latest release, `roxygen2 3.0.0`, is highlighted with a green "Latest release" badge. It was released by `hadley` 3 days ago, based on 3 commits to master. The release notes describe the new features and improvements in version 3.0.0, including support for S4 and RC (reference classes), better default usage definitions, and improved documentation for S4 classes and methods. The notes are formatted with code snippets and links to specific issues.

Releases / Tags [Draft a new release](#)

**Latest release**

`v3.0.0`  
`abe5d0d`

**roxygen2 3.0.0** [Edit](#)

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

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 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.

# Learning Git & Github

- Is frustrating at first & there's a lot of new vocab to learn.
- Pays off by increasing the pace of your coding because you don't have to worry as much about mistakes.
- Pays off by connecting you with a community of like minded people who can help make your code better.