

ghclass

an R package for managing classes with GitHub

Reproducible Assignments

Goals:

- Teach (enforce) version control and reproducible workflows
- Encourage (enforce) collaboration
- Embrace modern tools and methods

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Organization:

- Core toolkit: R + RStudio + RMarkdown
- Spend 1 lecture on git / GitHub
- GitHub setup:
 - 1 organization / course
 - 1 repo / (team | student) / assignment
- Randomly assigned teams of 3-4 students / assignment

Setup

- | | |
|--|---|
| 1. Signup for a GitHub Account | github.com |
| 2. Get a GitHub personal access token (PAT) | github.com/settings/tokens |
| 3. Setup git and GitHub access in R | use this setup vignette & happy git with R |
| 4. Signup for GitHub Education | education.github.com/benefits |
| 5. Create a GitHub Organization for your class | github.com/organizations/new |

Only **Step 5** needs to be repeated for a new class!

Introduction to ghclass

```
devtools::install_github("rundel/ghclass")  
library(ghclass)
```

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Some design principals behind this package:

1. Functions are prefixed with `org`, `repo`, `team`, `github` or `local_repo` to indicate what they operate on.
2. Functions are vectorized over their parameters (batch related operations).
3. Be verbose about what is happening, report failures but don't halt execution.
4. Most actions are non-destructive (backed by git), the handful of dangerous operations will warn you.
5. Follow the unix design philosophy, work towards simple & composable functions

Org & Roster

We will be using **ghclass-demo** as our class organization, hopefully your Org has a slightly more informative name .

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(I find `course#-semester` works well, e.g. Sta323-Sp19).

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(I find course#-semester works well, e.g. Sta323-Sp19).

```
(roster = readr::read_csv("files/roster.csv"))
```

```
## # A tibble: 6 x 4
##   netid email          github          hw01
##   <chr> <chr>          <chr>          <chr>
## 1 za17  anya@school.edu ghclass-anya    hw01-team01
## 2 kb34  bruno@school.edu ghclass-bruno   hw01-team01
## 3 ac13  celine@school.edu ghclass-celine  hw01-team02
## 4 bd88  diego@school.edu ghclass-diego   hw01-team02
## 5 se01  elijah@school.edu ghclass-elijah  hw01-team03
## 6 df00  francis@school.edu ghclass-francis hw01-team03
```



ghclass-demo

 **Repositories**

 Packages

 People **3**

 Teams

 Projects

 Settings

This organization has no repositories.

Create a new repository

Top languages

 R

People

3 >



Invite someone



Checking your git / GitHub config

```
github_test_token()
```

```
## ✔ Your github token is functioning correctly.
```

Checking your git / GitHub config

```
github_test_token()
```

```
## ✔ Your github token is functioning correctly.
```

```
usethis::git_sitrep()
```

```
## Git user  
## * Name: 'Colin Rundel'  
## * Email: 'rundel@gmail.com'  
## * Vaccinated: TRUE  
## usethis + git2r  
## * Default usethis protocol: <unset>  
## * git2r supports SSH: TRUE  
## * Credentials: '<user-provided git2r credential object with class cred_ssh_key>'  
## GitHub  
## * Personal access token: '<found in env var>'  
## * User: 'rundel'  
## * Name: 'Colin Rundel'  
## Repo  
## * Path: '/Users/rundel/Desktop/Presentations/.git'  
## * Local branch → remote tracking branch: 'master' → 'origin/master'  
## GitHub pull request readiness  
## * origin: rundel/Presentations, can push  
## * upstream: '<no such remote>'
```

Inviting Students

```
org_invite(org = "ghclass-demo", user = roster$github)
```

```
## ✓ Invited user 'ghclass-anya' to org 'ghclass-demo'.  
## ✓ Invited user 'ghclass-bruno' to org 'ghclass-demo'.  
## ✓ Invited user 'ghclass-celine' to org 'ghclass-demo'.  
## ✓ Invited user 'ghclass-diego' to org 'ghclass-demo'.  
## ✓ Invited user 'ghclass-elijah' to org 'ghclass-demo'.  
## ✓ Invited user 'ghclass-francis' to org 'ghclass-demo'.
```

Inviting Students

```
org_invite(org = "ghclass-demo", user = roster$github)
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```
## ✓ Invited user 'ghclass-anya' to org 'ghclass-demo'.  
## ✓ Invited user 'ghclass-bruno' to org 'ghclass-demo'.  
## ✓ Invited user 'ghclass-celine' to org 'ghclass-demo'.  
## ✓ Invited user 'ghclass-diego' to org 'ghclass-demo'.  
## ✓ Invited user 'ghclass-elijah' to org 'ghclass-demo'.  
## ✓ Invited user 'ghclass-francis' to org 'ghclass-demo'.
```

```
org_members("ghclass-demo", include_admins = FALSE)
```

```
## character(0)
```

```
org_pending_members("ghclass-demo")
```

```
## [1] "ghclass-anya"      "ghclass-bruno"     "ghclass-diego"     "ghclass-elijah"  
## [5] "ghclass-francis"  "ghclass-celine"
```

Members

Outside collaborators

[Invite member](#)

☐ Select all		6 pending invitations		2FA ▾	Role ▾	
☐	 Mine Cetinkaya-Rundel mine-cetinkaya-rundel	2FA ✓	 Private	Owner	0 teams	
☐	 Colin Rundel rundel	2FA ✕	 Private ▾	Owner	0 teams	
☐	 Therese Anders thereseanders	2FA ✕	 Private	Owner	0 teams	

Find a member...

Select all

☐  **Mine Cetinkaya-Rundel**
mine-cetinkaya-rundel

☐  **Colin Rundel**
rundel

☐  **Therese Anders**
thereseanders

Pending invitations



[ghclass-any](#)
ghclass-any

Edit invitation



[ghclass-bruno](#)
ghclass-bruno

Edit invitation



[ghclass-celine](#)
ghclass-celine

Edit invitation



[ghclass-diego](#)
ghclass-diego

Edit invitation



[ghclass-elijah](#)
ghclass-elijah

Edit invitation



[ghclass-francis](#)
ghclass-francis

Edit invitation

Invitations are sent via email and can be accepted at
<https://github.com/ghclass-demo>

Invite member

Pending invitations 2FA ▾ Role ▾

Owner 0 teams



Owner 0 teams



Owner 0 teams



A few days later ...

```
org_members("ghclass-demo", include_admins = FALSE)
```

```
## [1] "ghclass-anya" "ghclass-bruno" "ghclass-celine" "ghclass-diego"
```

```
org_pending_members("ghclass-demo")
```

```
## [1] "ghclass-elijah" "ghclass-francis"
```

A few days later ...

```
org_members("ghclass-demo", include_admins = FALSE)
```

```
## [1] "ghclass-anya" "ghclass-bruno" "ghclass-celine" "ghclass-diego"
```

```
org_pending_members("ghclass-demo")
```

```
## [1] "ghclass-elijah" "ghclass-francis"
```

several emails and a week later ...

```
org_members("ghclass-demo", include_admins = FALSE)
```

```
## [1] "ghclass-anya" "ghclass-bruno" "ghclass-celine" "ghclass-diego"  
## [5] "ghclass-elijah" "ghclass-francis"
```

```
org_pending_members("ghclass-demo")
```

```
## character(0)
```

Members

Outside collaborators

Invite member

☐ Select all					2FA ▾	Role ▾
☐	 ghclass-anya	2FA ✕	 Private	Member	0 teams	
☐	 ghclass-bruno	2FA ✕	 Private	Member	0 teams	
☐	 ghclass-celine	2FA ✕	 Private	Member	0 teams	
☐	 ghclass-diego	2FA ✕	 Private	Member	0 teams	
☐	 ghclass-elijah	2FA ✕	 Private	Member	0 teams	

Team Assignment

```
org_create_assignment(org = "ghclass-demo", repo = roster$hw01, user = roster$github,  
                      team = roster$hw01, source_repo = "Sta323-Sp19/hw1")
```

```
## ✓ Created repo 'ghclass-demo/hw01-team01'.  
## ✓ Created repo 'ghclass-demo/hw01-team02'.  
## ✓ Created repo 'ghclass-demo/hw01-team03'.  
## ✓ Created team 'hw01-team01' in org 'ghclass-demo'.  
## ✓ Created team 'hw01-team02' in org 'ghclass-demo'.  
## ✓ Created team 'hw01-team03' in org 'ghclass-demo'.  
## ✓ Added 'ghclass-anya' to team 'hw01-team01'.  
## ✓ Added 'ghclass-bruno' to team 'hw01-team01'.  
## ✓ Added 'ghclass-celine' to team 'hw01-team02'.  
## ✓ Added 'ghclass-diego' to team 'hw01-team02'.  
## ✓ Added 'ghclass-elijah' to team 'hw01-team03'.  
## ✓ Added 'ghclass-francis' to team 'hw01-team03'.  
## ✓ Added team 'hw01-team01' to repo 'ghclass-demo/hw01-team01'.  
## ✓ Added team 'hw01-team02' to repo 'ghclass-demo/hw01-team02'.  
## ✓ Added team 'hw01-team03' to repo 'ghclass-demo/hw01-team03'.  
## ✓ Cloned 'Sta323-Sp19/hw1'.  
## ✓ Pushed (mirror) 'hw1' to repo 'ghclass-demo/hw01-team01'.  
## ✓ Pushed (mirror) 'hw1' to repo 'ghclass-demo/hw01-team01'.  
## ✓ Pushed (mirror) 'hw1' to repo 'ghclass-demo/hw01-team02'.  
## ✓ Pushed (mirror) 'hw1' to repo 'ghclass-demo/hw01-team02'.  
## ✓ Pushed (mirror) 'hw1' to repo 'ghclass-demo/hw01-team03'.  
## ✓ Pushed (mirror) 'hw1' to repo 'ghclass-demo/hw01-team03'.  
## ✓ Removed local copy of 'Sta323-Sp19/hw1'
```



ghclass-demo

Repositories 9

Packages

People 9

Teams 3

Projects

Settings

hw01

Type: All

Language: All

Customize pins

New

3 results for repositories matching **hw01** Clear filter

- hw01-team03

Private

R 0 0 0 0

Updated 1 minute ago
- hw01-team01

Private

R 0 0 0 1

Updated 1 minute ago
- hw01-team02

Private

R 0 0 0 0

Updated 1 minute ago

Top languages

R

People 9

0 seats left — Buy more

```
team_create("ghclass-demo", team = roster$hw01)
```

```
## ✔ Created team 'hw01-team01' in org 'ghclass-demo'.  
## ✔ Created team 'hw01-team02' in org 'ghclass-demo'.  
## ✔ Created team 'hw01-team03' in org 'ghclass-demo'.
```

```
team_invite("ghclass-demo", user = roster$github, team = roster$hw01)
```

```
## ✔ Added 'ghclass-anya' to team 'hw01-team01'.  
## ✔ Added 'ghclass-bruno' to team 'hw01-team01'.  
## ✔ Added 'ghclass-celine' to team 'hw01-team02'.  
## ✔ Added 'ghclass-diego' to team 'hw01-team02'.  
## ✔ Added 'ghclass-elijah' to team 'hw01-team03'.  
## ✔ Added 'ghclass-francis' to team 'hw01-team03'.
```

```
repo_create("ghclass-demo", name = roster$hw01)
```

```
## ✔ Created repo 'ghclass-demo/hw01-team01'.  
## ✔ Created repo 'ghclass-demo/hw01-team02'.  
## ✔ Created repo 'ghclass-demo/hw01-team03'.
```

```
repo_add_team(repo = org_repos("ghclass-demo", filter = "hw01-"),  
              team = org_teams("ghclass-demo", filter = "hw01-"))
```

```
## ✔ Added team 'hw01-team01' to repo 'ghclass-demo/hw01-team01'.  
## ✔ Added team 'hw01-team02' to repo 'ghclass-demo/hw01-team02'.  
## ✔ Added team 'hw01-team03' to repo 'ghclass-demo/hw01-team03'.
```

```
repo_mirror(source_repo = "Sta323-Sp19/hw1",  
            target_repo = org_repos("ghclass-demo", filter = "hw01-"))
```

```
## ✔ Cloned 'Sta323-Sp19/hw1'.  
## ✔ Pushed (mirror) 'hw1' to repo 'ghclass-demo/hw01-team01'.  
## ✔ Pushed (mirror) 'hw1' to repo 'ghclass-demo/hw01-team02'.  
## ✔ Pushed (mirror) 'hw1' to repo 'ghclass-demo/hw01-team03'.  
## ✔ Removed local copy of 'Sta323-Sp19/hw1'
```

Individual Assignment

```
org_create_assignment(org = "ghclass-demo", repo = paste0("mid1-", roster$github),  
                      user = roster$github, source_repo = "Sta323-Sp19/midterm1")
```

```
## ✔ Created repo 'ghclass-demo/mid1-ghclass-anya'.  
## ✔ Created repo 'ghclass-demo/mid1-ghclass-bruno'.  
## ✔ Created repo 'ghclass-demo/mid1-ghclass-celine'.  
## ✔ Created repo 'ghclass-demo/mid1-ghclass-diego'.  
## ✔ Created repo 'ghclass-demo/mid1-ghclass-elijah'.  
## ✔ Created repo 'ghclass-demo/mid1-ghclass-francis'.  
## ✔ Added user 'ghclass-anya' to repo 'ghclass-demo/mid1-ghclass-anya'.  
## ✔ Added user 'ghclass-bruno' to repo 'ghclass-demo/mid1-ghclass-bruno'.  
## ✔ Added user 'ghclass-celine' to repo 'ghclass-demo/mid1-ghclass-celine'.  
## ✔ Added user 'ghclass-diego' to repo 'ghclass-demo/mid1-ghclass-diego'.  
## ✔ Added user 'ghclass-elijah' to repo 'ghclass-demo/mid1-ghclass-elijah'.  
## ✔ Added user 'ghclass-francis' to repo 'ghclass-demo/mid1-ghclass-francis'.  
## ✔ Cloned 'Sta323-Sp19/midterm1'.  
## ✔ Pushed (mirror) 'midterm1' to repo 'ghclass-demo/mid1-ghclass-anya'.  
## ✔ Pushed (mirror) 'midterm1' to repo 'ghclass-demo/mid1-ghclass-bruno'.  
## ✔ Pushed (mirror) 'midterm1' to repo 'ghclass-demo/mid1-ghclass-celine'.  
## ✔ Pushed (mirror) 'midterm1' to repo 'ghclass-demo/mid1-ghclass-diego'.  
## ✔ Pushed (mirror) 'midterm1' to repo 'ghclass-demo/mid1-ghclass-elijah'.  
## ✔ Pushed (mirror) 'midterm1' to repo 'ghclass-demo/mid1-ghclass-francis'.  
## ✔ Removed local copy of 'Sta323-Sp19/midterm1'
```



ghclass-demo

 **Repositories** 9

 Packages

 **People** 9

 **Teams** 3

 Projects

 Settings

Type: All ▾

Language: All ▾

Customize pins

 **New**

6 results for repositories matching **mid1**

 Clear filter

mid1-ghclass-anya Private

 0  0  0  0 Updated 3 minutes ago

mid1-ghclass-diego Private

 0  0  0  0 Updated 3 minutes ago

mid1-ghclass-francis Private

 0  0  0  0 Updated 3 minutes ago

mid1-ghclass-bruno Private

 0  0  0  0 Updated 3 minutes ago

Top languages

 R

People

9 >



0 seats left — [Buy more](#)

What about GitHub Classroom?

GitHub Classroom

GitHub Education 

ghclass-demo

ghclass-demo

 0  0

Assignments

 Settings

New assignment



Individual assignment

Each participant works individually on their own repository.

Create an individual assignment



Group assignment

Participants form teams that work together on a shared repository.

Create a group assignment

Making Changes

```
repo_add_file(repo = org_repos("ghclass-demo", "hw01-"),  
              file = "files/fizzbuzz.png")
```

```
## ✖ Failed to add file 'fizzbuzz.png' to repo 'ghclass-demo/hw01-team01': already exists.  
##   If you want to force-add this file, re-run the command with `overwrite = TRUE`.  
## ✖ Failed to add file 'fizzbuzz.png' to repo 'ghclass-demo/hw01-team02': already exists.  
##   If you want to force-add this file, re-run the command with `overwrite = TRUE`.  
## ✖ Failed to add file 'fizzbuzz.png' to repo 'ghclass-demo/hw01-team03': already exists.  
##   If you want to force-add this file, re-run the command with `overwrite = TRUE`.
```

Making Changes

```
repo_add_file(repo = org_repos("ghclass-demo", "hw01-"),  
              file = "files/fizzbuzz.png")
```

```
## ✖ Failed to add file 'fizzbuzz.png' to repo 'ghclass-demo/hw01-team01': already exists.  
##   If you want to force-add this file, re-run the command with `overwrite = TRUE`.  
## ✖ Failed to add file 'fizzbuzz.png' to repo 'ghclass-demo/hw01-team02': already exists.  
##   If you want to force-add this file, re-run the command with `overwrite = TRUE`.  
## ✖ Failed to add file 'fizzbuzz.png' to repo 'ghclass-demo/hw01-team03': already exists.  
##   If you want to force-add this file, re-run the command with `overwrite = TRUE`.
```

```
repo_add_file(repo = org_repos("ghclass-demo", "hw01-"),  
              file = "files/fizzbuzz.png", overwrite = TRUE)
```

```
## ✔ Added file 'fizzbuzz.png' to repo 'ghclass-demo/hw01-team01'.  
## ✔ Added file 'fizzbuzz.png' to repo 'ghclass-demo/hw01-team02'.  
## ✔ Added file 'fizzbuzz.png' to repo 'ghclass-demo/hw01-team03'.
```

Sta 323 - Homework 1

Due by 11:59 pm on Thursday 1/24/2019.



Background

The FizzBuzz test is a common programming interview language that they claim experience in.

The problem statement is as follows:

"Write a program that given a list of numbers as input three prints "Fizz" instead of the number and for the of both three and five prints "FizzBuzz"."



Sta 323 - Homework 1

Due by 11:59 pm on Thursday 1/24/2019.



Background

The FizzBuzz test is a common programming interview language that they claim experience in.

The problem statement is as follows:

"Write a program that given a list of numbers as input three prints "Fizz" instead of the number and for the of both three and five prints "FizzBuzz"."

Modify a file

```
repo_modify_file(repo = org_repos("ghclass-demo", "hw01-"), file = "README.md",  
                  pattern = "on Thursday 1/24/2019.", content = "on Wednesday 10/07/2019.")
```

```
## ✓ Modified file 'ghclass-demo/hw01-team01/README.md'.  
## ✓ Modified file 'ghclass-demo/hw01-team02/README.md'.  
## ✓ Modified file 'ghclass-demo/hw01-team03/README.md'.
```

Modify a file

```
repo_modify_file(repo = org_repos("ghclass-demo", "hw01-"), file = "README.md",  
                  pattern = "on Thursday 1/24/2019.", content = "on Wednesday 10/07/2019.")
```

```
## ✓ Modified file 'ghclass-demo/hw01-team01/README.md'.  
## ✓ Modified file 'ghclass-demo/hw01-team02/README.md'.  
## ✓ Modified file 'ghclass-demo/hw01-team03/README.md'.
```

ghclass-demo / hw01-team01 Private

Watch 0

Star 0

Fork 0

<> Code

Issues 0

Pull requests 0

Projects 0

Wiki

Security

Insights

Settings

Modified content

Browse files

master

 rundel committed 3 minutes ago

1 parent 068ad6d

commit 78022d299b590975ef50539278392b44ac81e145

Showing 1 changed file with 1 addition and 1 deletion.

Unified Split

2 README.md

<> ...

@@ -1,7 +1,7 @@

1 1 Sta 323 - Homework 1

2 2 -----

3 3

4 - Due by 11:59 pm on Thursday 1/24/2019.

4 + Due by 11:59 pm on Wednesday 10/07/2019.

5 5

6 6

7 7

Collect student work

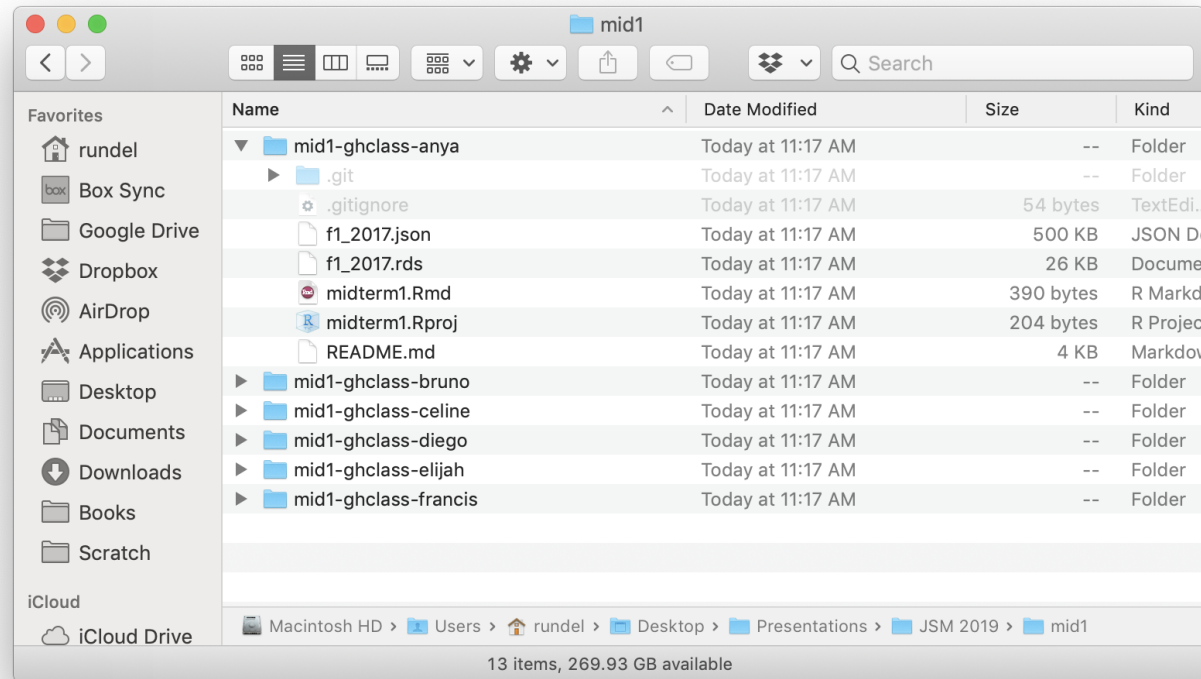
```
local_repo_clone(repo = org_repos("ghclass-demo", "mid1-"), local_path = "mid1")
```

```
## ✓ Cloned 'ghclass-demo/mid1-ghclass-anya'.  
## ✓ Cloned 'ghclass-demo/mid1-ghclass-bruno'.  
## ✓ Cloned 'ghclass-demo/mid1-ghclass-celine'.  
## ✓ Cloned 'ghclass-demo/mid1-ghclass-diego'.  
## ✓ Cloned 'ghclass-demo/mid1-ghclass-elijah'.  
## ✓ Cloned 'ghclass-demo/mid1-ghclass-francis'.
```

Collect student work

```
local_repo_clone(repo = org_repos("ghclass-demo", "mid1-"), local_path = "mid1")
```

```
## ✓ Cloned 'ghclass-demo/mid1-ghclass-anya'.  
## ✓ Cloned 'ghclass-demo/mid1-ghclass-bruno'.  
## ✓ Cloned 'ghclass-demo/mid1-ghclass-celine'.  
## ✓ Cloned 'ghclass-demo/mid1-ghclass-diego'.  
## ✓ Cloned 'ghclass-demo/mid1-ghclass-elijah'.  
## ✓ Cloned 'ghclass-demo/mid1-ghclass-francis'.
```



Organize student work

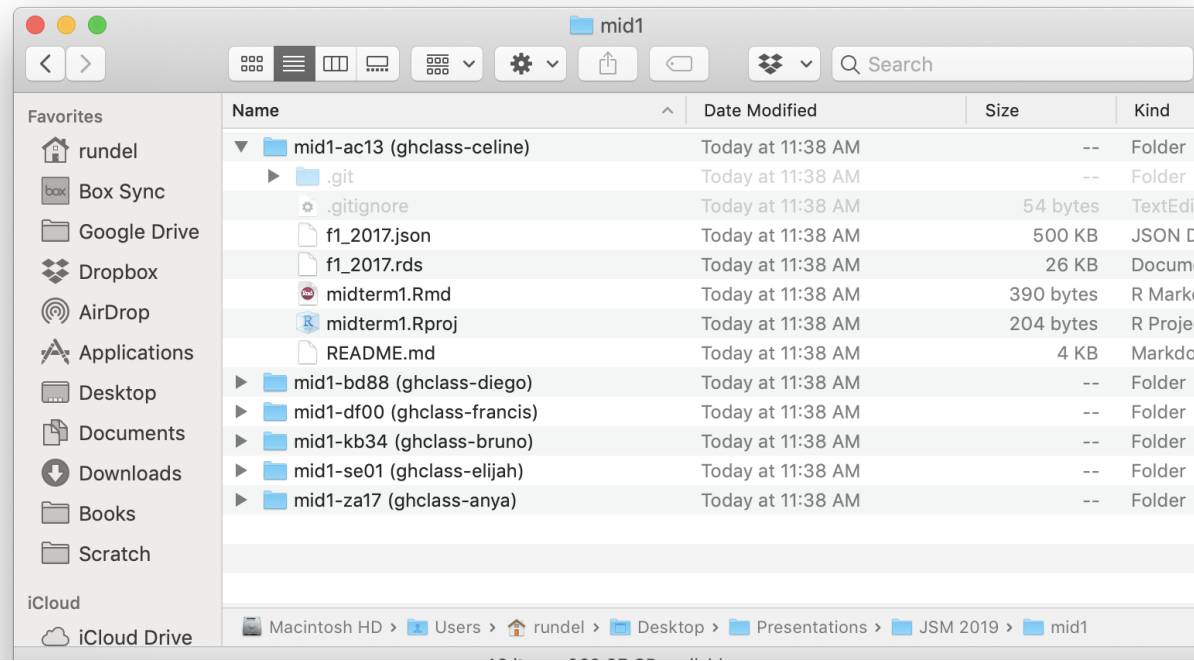
```
local_repo_rename(repo_dir = "mid1", pattern = roster$github,  
                  replacement = paste0(roster$netid, "-(\\1)"))
```

```
## ✓ Renaming 'mid1/mid1-ghclass-anya' to 'mid1/mid1-za17-(ghclass-anya)'.  
## ✓ Renaming 'mid1/mid1-ghclass-bruno' to 'mid1/mid1-kb34-(ghclass-bruno)'.  
## ✓ Renaming 'mid1/mid1-ghclass-celine' to 'mid1/mid1-ac13-(ghclass-celine)'.  
## ✓ Renaming 'mid1/mid1-ghclass-diego' to 'mid1/mid1-bd88-(ghclass-diego)'.  
## ✓ Renaming 'mid1/mid1-ghclass-elijah' to 'mid1/mid1-se01-(ghclass-elijah)'.  
## ✓ Renaming 'mid1/mid1-ghclass-francis' to 'mid1/mid1-df00-(ghclass-francis)'.
```

Organize student work

```
local_repo_rename(repo_dir = "mid1", pattern = roster$github,  
                  replacement = paste0(roster$netid, "-(\\1)"))
```

```
## ✓ Renaming 'mid1/mid1-ghclass-anya' to 'mid1/mid1-za17-(ghclass-anya)'.  
## ✓ Renaming 'mid1/mid1-ghclass-bruno' to 'mid1/mid1-kb34-(ghclass-bruno)'.  
## ✓ Renaming 'mid1/mid1-ghclass-celine' to 'mid1/mid1-ac13-(ghclass-celine)'.  
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## ✓ Renaming 'mid1/mid1-ghclass-elijah' to 'mid1/mid1-se01-(ghclass-elijah)'.  
## ✓ Renaming 'mid1/mid1-ghclass-francis' to 'mid1/mid1-df00-(ghclass-francis)'.
```



Feedback?

```
repo_style("ghclass-demo/hw01-team01", files = "*.Rmd", draft = TRUE)
```

```
## ✔ Created branch 'styler' from 'ghclass-demo/hw01-team01'.  
## ✔ Cloned 'ghclass-demo/hw01-team01@styler'.  
## ✔ Created pull request for 'ghclass-demo/hw01-team01 (master ≤ styler)'.
```

Feedback?

```
repo_style("ghclass-demo/hw01-team01", files = "*.Rmd", draft = TRUE)
```

```
## ✔ Created branch 'styler' from 'ghclass-demo/hw01-team01'.  
## ✔ Cloned 'ghclass-demo/hw01-team01@styler'.  
## ✔ Created pull request for 'ghclass-demo/hw01-team01 (master ≤ styler)'.
```

styler revisions #4

 **Draft** rundel wants to merge 1 commit into `master` from `styler` 

 Conversation **0**  Commits **1**  Checks **0**  Files changed **1**



rundel commented 15 seconds ago  

This pull request contains the results of running the automated R code formatting tool `styler` on your repo. Styling is based on the [tidyverse R style guide](#).

Click on the commit below to see details of recommended changes. It is not necessary that your code cleanly pass these checks, but if there is a large number of significant changes suggested you should review the style guide with an eye towards potentially improving your code formatting.

@ghclass-anya, @ghclass-bruno, @ghclass-diego, @ghclass-elijah, @ghclass-francis, @ghclass-celine

  Results of running `styler`:  2f8eadd

@@ -16,32 +16,32 @@ seek help from StackOverflow in finding a way to test for integers, linked here:

```

16
17
18 ```{r}
19 -fizzbuzz = function(v) {
20 -   for (i in v){ #iterates through the values defined in v
21 -
22 -     #Error cases
23 -     if ((is.integer(i) == FALSE) & (is.double(i) == FALSE)){
24       stop("Value is non-numeric")
25     }
26 -   else if ((i <= 0) || (i == Inf)){
27     stop("Value is not in the acceptable range")
28   }
29 -   else if (i%%1 != 0){
30     stop("Value is not an integer")
31   }
32 -
33 -
34 -   #Constructing working cases options
35 -   else if ((i%%3 == 0) & (i%%5 == 0)){
36     print("FizzBuzz")
37   }
38 -   else if (i%%3 == 0){
39     print("Fizz")
40   }
41 -   else if (i%%5 == 0){
42     print("Buzz")
43   }

```

```

16
17
18 ```{r}
19 +fizzbuzz <- function(v) {
20 +   for (i in v){ #iterates through the values defined in v
21 +
22 +     #Error cases
23 +     if ((is.integer(i) == FALSE) & (is.double(i) == FALSE)){
24       stop("Value is non-numeric")
25     }
26 +   else if ((i <= 0) || (i == Inf)){
27     stop("Value is not in the acceptable range")
28   }
29 +   else if (i%%1 != 0){
30     stop("Value is not an integer")
31   }
32 +
33 +
34 +   #Constructing working cases options
35 +   else if ((i%%3 == 0) & (i%%5 == 0)){
36     print("FizzBuzz")
37   }
38 +   else if (i%%3 == 0){
39     print("Fizz")
40   }
41 +   else if (i%%5 == 0){
42     print("Buzz")
43   }

```

Future Work

- We will be submitting to CRAN in the next month
- Active summer project adding functionality for peer review by Mine Cetinkaya-Rundel and Therese Anders
- Support for GitHub actions for automated feedback (**rundel/wercker** replacement)
- Support more workflows, if you use a GitHub based workflow for teaching that was not reflected here please get in touch.

Thank you!



bit.ly/JSM2019_ghclass



[rundel/ghclass](#)



rundel.github.io/ghclass



github.com/rundel



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