

# ghclass

*an R package for managing classes with GitHub*

JSM 2019 · Denver

[bit.ly/JSM2019\\_ghclass](https://bit.ly/JSM2019_ghclass)

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# Reproducible Assignments

## Goals:

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

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## Goals:

- Teach (enforce) version control and reproducible workflows
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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](https://github.com)

2. Get a GitHub personal access token (PAT)

[github.com/settings/tokens](https://github.com/settings/tokens)

3. Setup git and GitHub access in R

[usethis setup vignette](#) &  
[happy git with R](#)

4. Signup for GitHub Education

[education.github.com/benefits](https://education.github.com/benefits)

5. Create a GitHub Organization for your class

[github.com/organizations/new](https://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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We will be using **ghclass-demo** as our class organization, hopefully your Org has a slightly more informative name .

(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



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)
```

```
## ✓ 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"
```

 Find a member...[Members](#)[Outside collaborators](#)[Invite member](#) Select all

6 pending invitations

2FA ▾

Role ▾

<input type="checkbox"/>	 <a href="#">Mine Cetinkaya-Rundel</a> mine-cetinkaya-rundel	2FA ✓	 Private	Owner	0 teams	
<input type="checkbox"/>	 <a href="#">Colin Rundel</a> rundel	2FA ✗	 Private ▾	Owner	0 teams	
<input type="checkbox"/>	 <a href="#">Therese Anders</a> thereseanders	2FA ✗	 Private	Owner	0 teams	



Find a member...

 Select allMine Cetinkaya-Rundel  
mine-cetinkaya-rundelColin Rundel  
rundelTherese Anders  
thereseandersPending invitations Xghclass-anya  
ghclass-anya[Edit invitation](#)ghclass-bruno  
ghclass-bruno[Edit invitation](#)ghclass-ceiline  
ghclass-ceiline[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>

# 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)
```



ghclass-demo

Repositories

Packages

People 9

Teams

Projects

Settings

Find a member...

Members

Outside collaborators

Invite member

Select all

2FA ▾ Role ▾

<input type="checkbox"/>		ghclass-anya	2FA X	🔒 Private	Member	0 teams	
<input type="checkbox"/>		ghclass-bruno	2FA X	🔒 Private	Member	0 teams	
<input type="checkbox"/>		ghclass-ceLINE	2FA X	🔒 Private	Member	0 teams	
<input type="checkbox"/>		ghclass-diego	2FA X	🔒 Private	Member	0 teams	
<input type="checkbox"/>		ghclass-elijah	2FA X	🔒 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'.
## ✓ 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](#)[Type: All ▾](#)[Language: All ▾](#)[Customize pins](#)[New](#)

3 results for repositories matching hw01

[Clear filter](#)

Top languages



[hw01-team03](#) Private

● R ⚙ 0 ★ 0 ⚠ 0 ⚡ 0 Updated 1 minute ago

People

[hw01-team01](#) Private

● R ⚙ 0 ★ 0 ⚠ 0 ⚡ 1 Updated 1 minute ago

9 >



[hw01-team02](#) Private

● R ⚙ 0 ★ 0 ⚠ 0 ⚡ 0 Updated 1 minute ago

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

mid1

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?

The screenshot shows the GitHub Classroom interface for a repository named "ghclass-demo". The top navigation bar includes "GitHub Classroom", "GitHub Education", and a user profile icon. Below the header, the repository name "ghclass-demo" and owner "ghclass-demo" are displayed. A purple hexagonal background pattern covers the main content area. At the bottom of the purple section, there are two tabs: "Assignments" (selected) and "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.

FIZZ  
BUZZ  
FIZZBUZZ



### Background

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

The problem statement is as follows:

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

## Sta 323 - Homework 1

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

FIZZ  
BUZZ

### Background

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

The problem statement is as follows:

"Write a program that given a list of numbers as input, for numbers divisible by three prints "Fizz" instead of the number and for the numbers divisible by 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'.
```

The screenshot shows a GitHub repository page for 'ghclass-demo / hw01-team01'. The repository is private. The navigation bar includes 'Watch 0', 'Star 0', and 'Fork 0'. Below the bar are links for 'Code', 'Issues 0', 'Pull requests 0', 'Projects 0', 'Wiki', 'Security', 'Insights', and 'Settings'. The 'Code' tab is selected. A 'Modified content' section shows a commit by 'rundel' from the 'master' branch. The commit message is 'rundel committed 3 minutes ago'. It has 1 parent commit '068ad6d' and a commit hash '78022d299b590975ef50539278392b44ac81e145'. Below the commit, it says 'Showing 1 changed file with 1 addition and 1 deletion.' The diff view shows a single line change in the README.md file:

```
@@ -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.
```

# Collect student work

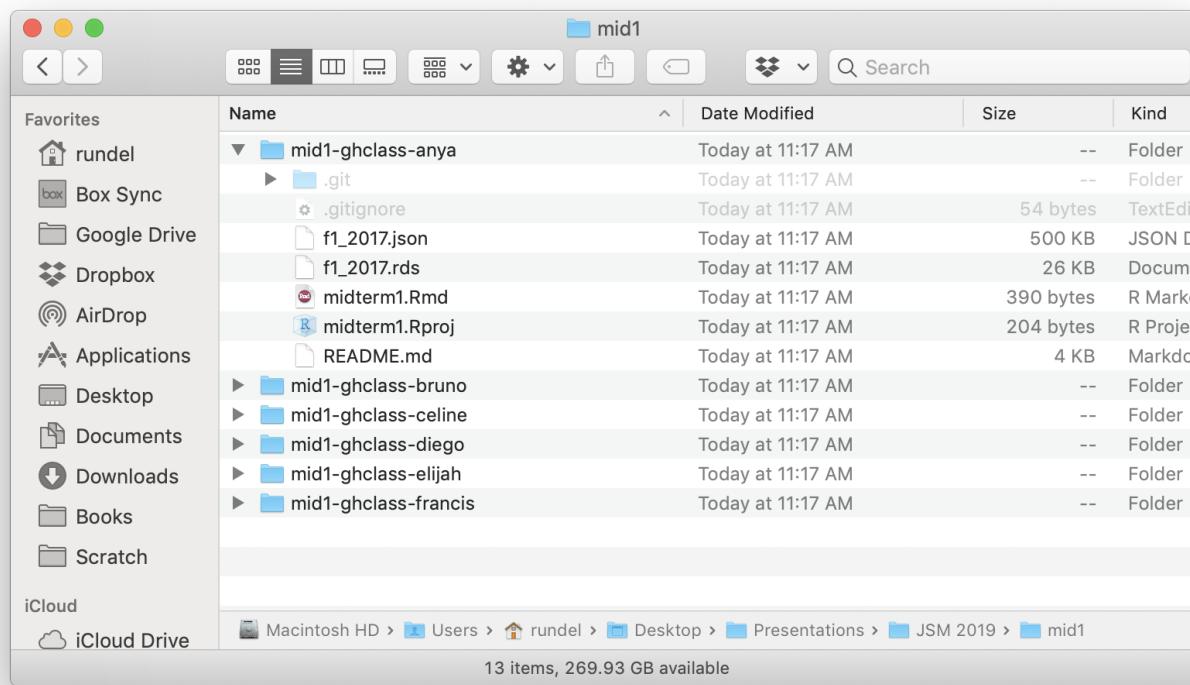
```
local_repo_clone(repo = org_repos("ghclass-demo", "mid1-"), local_path = "mid1")
```

```
## ✓ 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

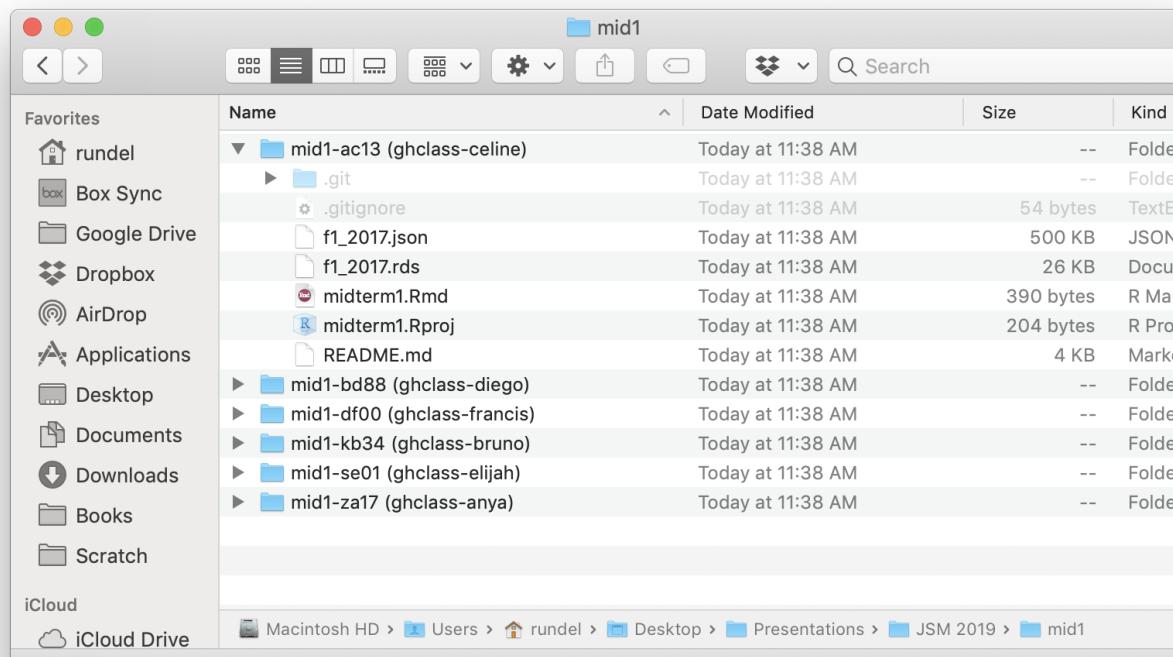
```
local_repo_rename(repo_dir = "mid1", pattern = roster$github,  
                  replacement = paste0(roster$netid, "-(\\"1)"))
```

```
## ✓ 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)'.  
## ✓ 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)'.
```



# 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 formating 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-celeine

 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](https://bit.ly/JSM2019_ghclass)



[rundel/ghclass](https://rundel/ghclass)



[rundel.github.io/ghclass](https://rundel.github.io/ghclass)



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