Enhancing collaboration and reproducibility…

… using GitHub and distributed version control

Jay Brodeur | brodeujj@mcmaster.ca

Portage Webinar | 2020-10-06

McMaster University sits on the traditional Territories of the Mississauga and Haudenosaunee Nations, and within the lands protected by the “Dish With One Spoon” wampum agreement

(Indigenous Education Council, May 2016).

Learning objectives

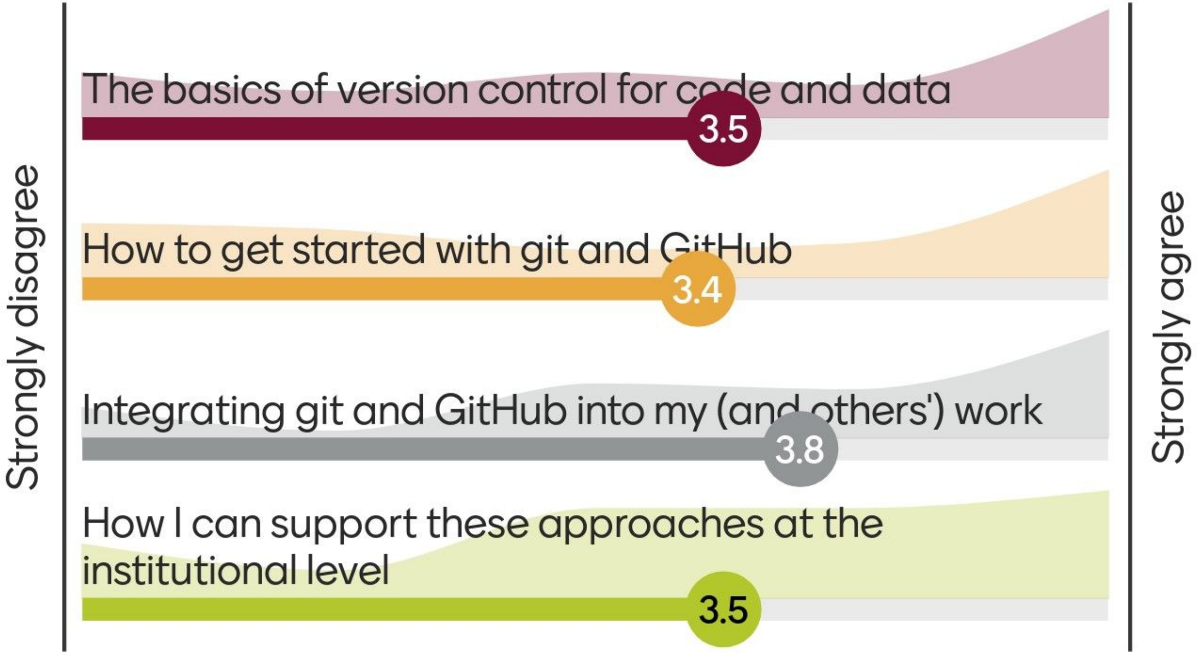
At the completion of this webinar, you should be able to:

- Explain the purpose and general function of version control systems
- Apply a variety of tools (git, GitHub, GitHub Desktop) to manage file versions within a ***repository***
- Apply best practices for efficiently managing and sharing repositories
- Describe how systems like GitHub can be used to support research collaboration and transparency
- Identify opportunities to implement these tools & practices to support research in your group or organization

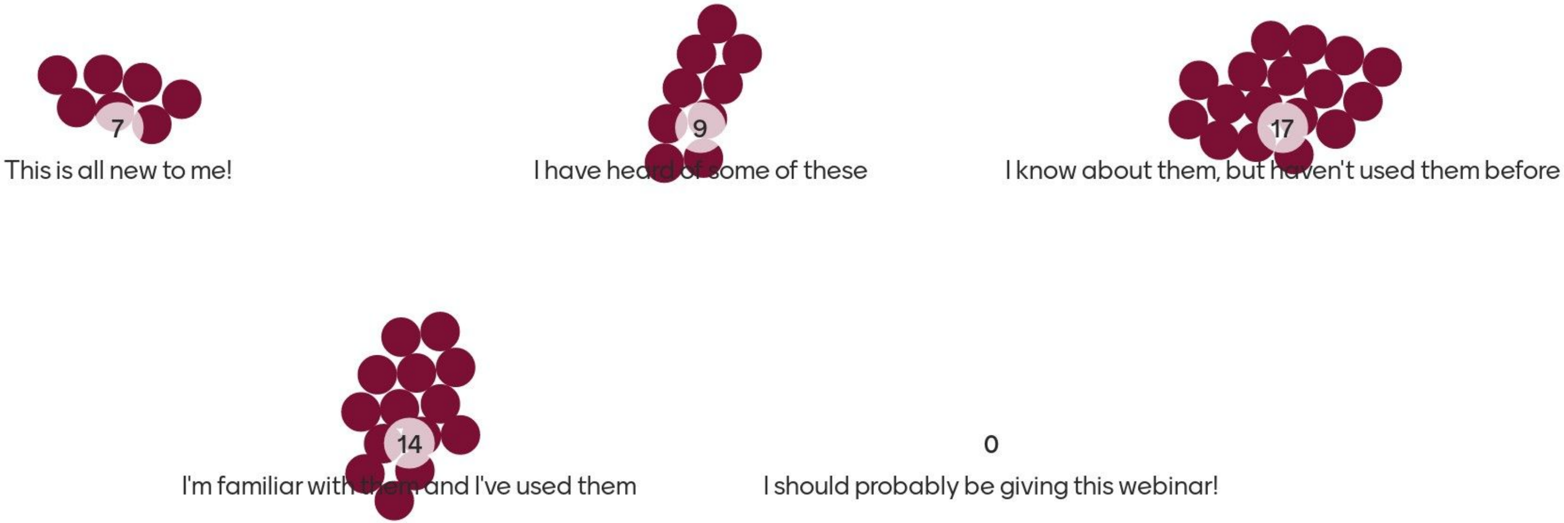
But first …

A few questions for you

Generally, I'm interested in learning about



My familiarity with version control with git & GitHub



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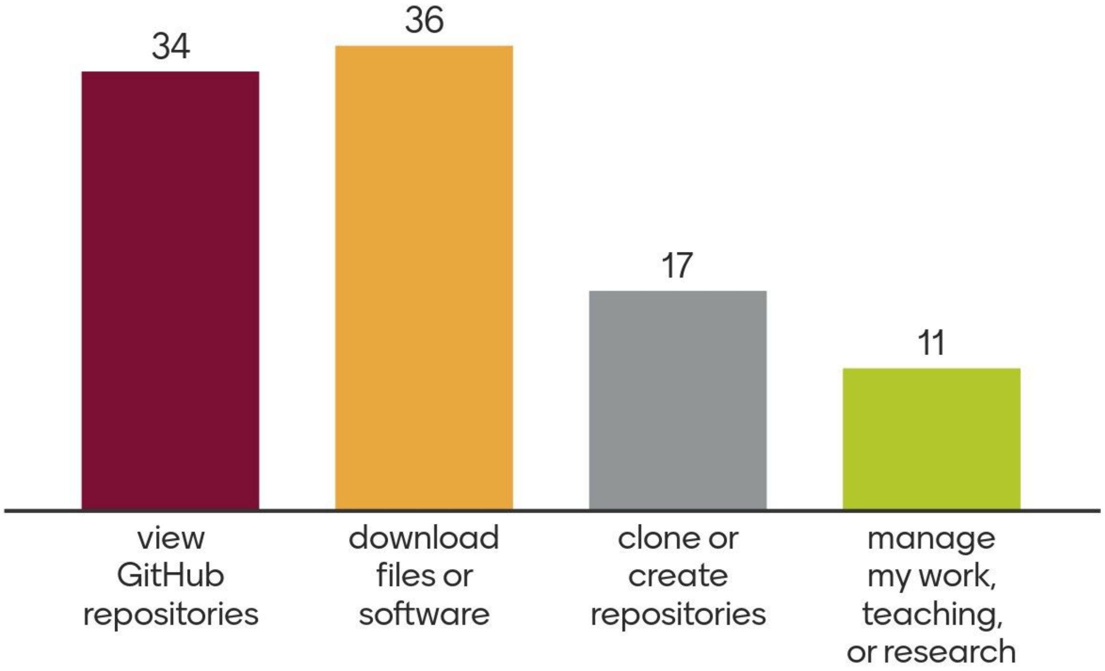
In the past, I have you used GitHub to ...



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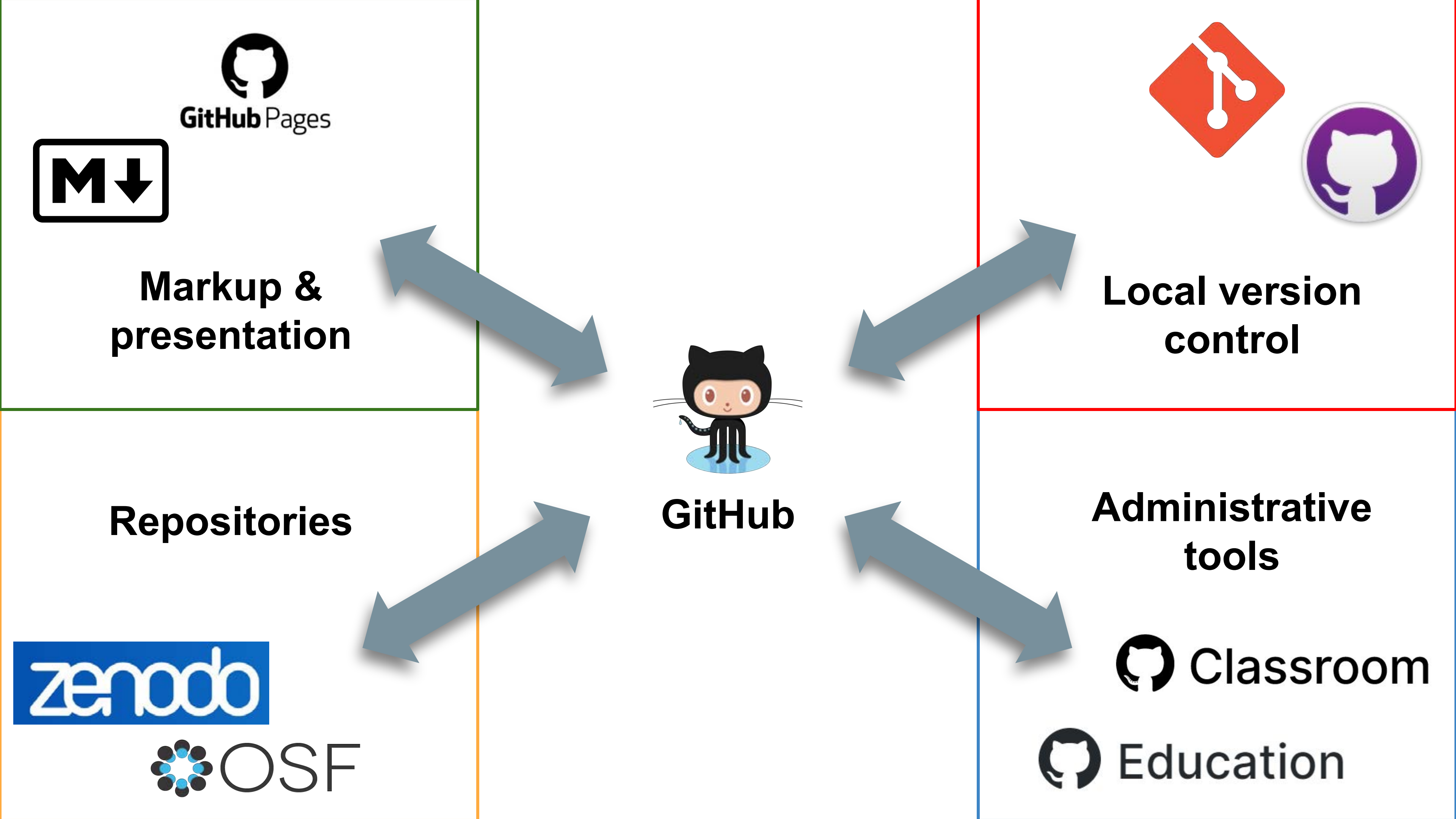


Markup & presentation

Local version control

GitHub

Repositories

Administrative tools

Outline

Version control systems - types and value

Basic workflows in git and GitHub

Managing collaboration, access, & sharing

Sharing results: Markup and presentation

Administrative tools

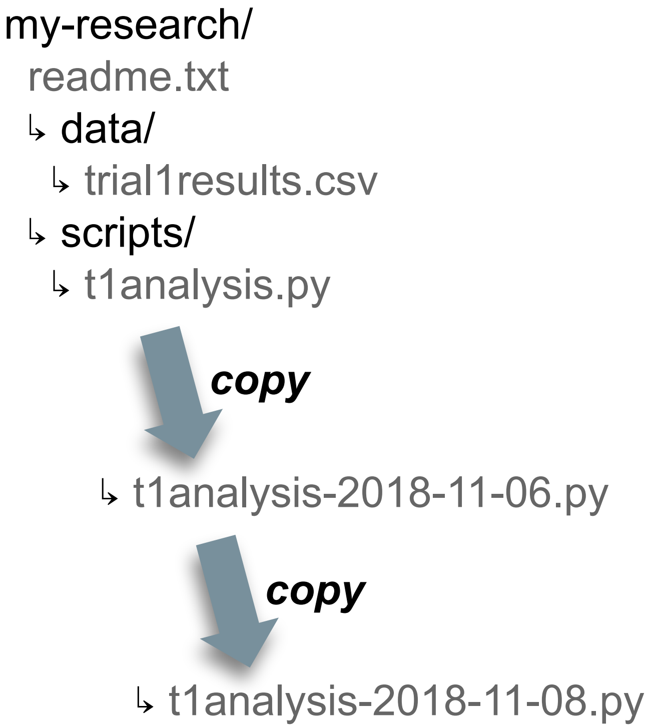
Version control systems

(and why you might need them)

Local version control

```
my-research/
  readme.txt
  ↳ data/
    ↳ trial1results.csv
  ↳ scripts/
    ↳ t1analysis.py
```

Local version control (the hard way!)



my-research/
readme.txt
↳ data/
↳ trial1results.csv
↳ scripts/
↳ t1analysis.py

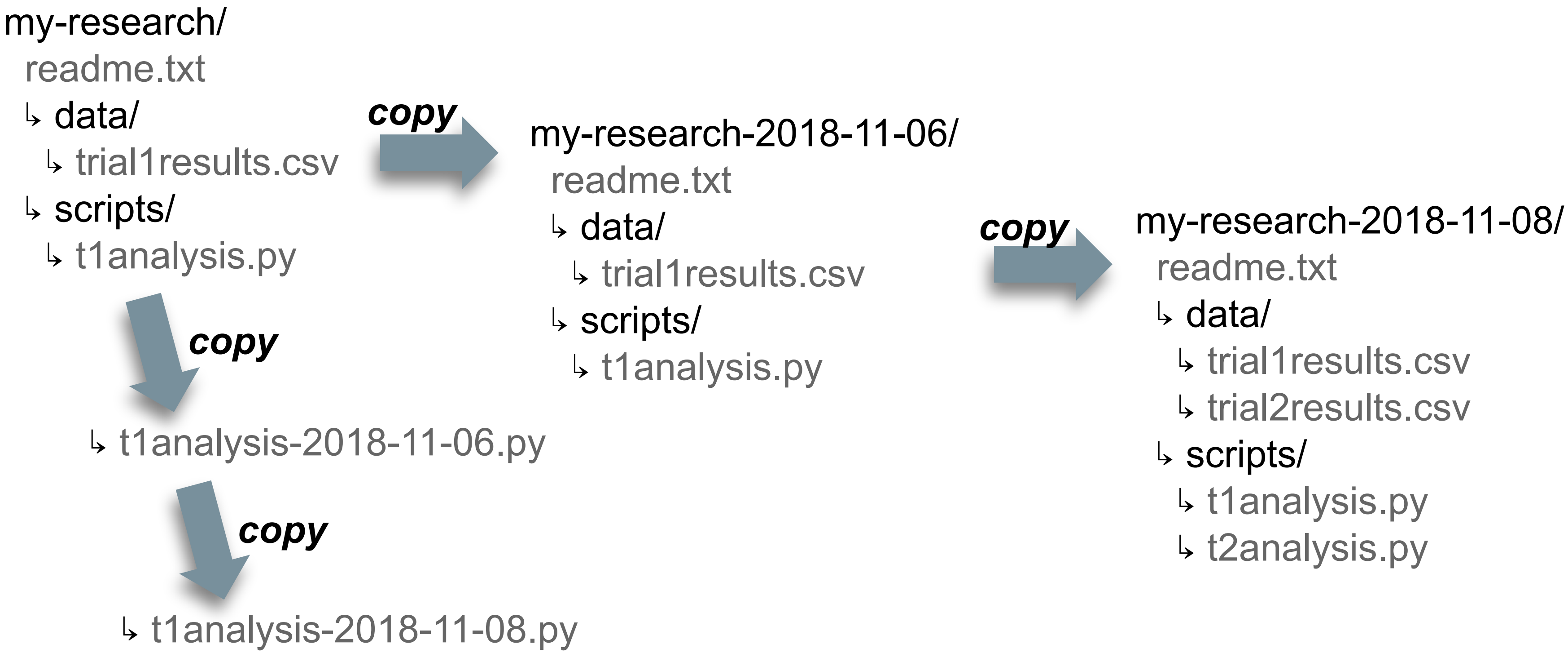
copy

↳ t1analysis-2018-11-06.py

copy

↳ t1analysis-2018-11-08.py

Local version control (the hard way!)



```
my-research/
  readme.txt
  ↳ data/
    ↳ trial1results.csv
  ↳ scripts/
    ↳ t1analysis.py
```

copy

```
my-research-2018-11-06/
  readme.txt
  ↳ data/
    ↳ trial1results.csv
  ↳ scripts/
    ↳ t1analysis.py
```

copy

```
my-research-2018-11-08/
  readme.txt
  ↳ data/
    ↳ trial1results.csv
    ↳ trial2results.csv
  ↳ scripts/
    ↳ t1analysis.py
    ↳ t2analysis.py
```

copy

```
    ↳ t1analysis-2018-11-06.py
```

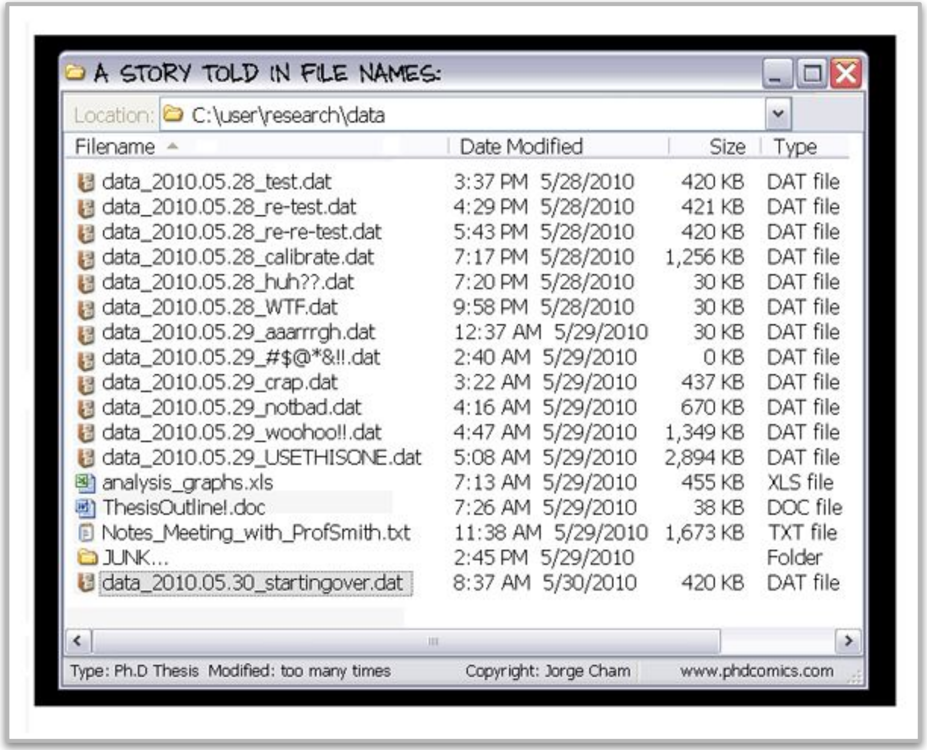
copy

```
    ↳ t1analysis-2018-11-08.py
```

Local version control

You can track versions manually!
BUT, it's prone to errors:

- Writing to the wrong file/folder
- Overwritten files
- Misnamed (or poorly named) files
- "I just keep forgetting to do it"
- "Which old version is the correct one?"



A STORY TOLD IN FILE NAMES:

Location: C:\user\research\data

Filename	Date Modified	Size	Type
data_2010.05.28_test.dat	3:37 PM 5/28/2010	420 KB	DAT file
data_2010.05.28_re-test.dat	4:29 PM 5/28/2010	421 KB	DAT file
data_2010.05.28_re-re-test.dat	5:43 PM 5/28/2010	420 KB	DAT file
data_2010.05.28_calibrate.dat	7:17 PM 5/28/2010	1,256 KB	DAT file
data_2010.05.28_huh??.dat	7:20 PM 5/28/2010	30 KB	DAT file
data_2010.05.28_WTF.dat	9:58 PM 5/28/2010	30 KB	DAT file
data_2010.05.29_aaarrrgh.dat	12:37 AM 5/29/2010	30 KB	DAT file
data_2010.05.29_#$@*&!!.dat	2:40 AM 5/29/2010	0 KB	DAT file
data_2010.05.29_crap.dat	3:22 AM 5/29/2010	437 KB	DAT file
data_2010.05.29_notbad.dat	4:16 AM 5/29/2010	670 KB	DAT file
data_2010.05.29_woohoo!!.dat	4:47 AM 5/29/2010	1,349 KB	DAT file
data_2010.05.29_USETHISONE.dat	5:08 AM 5/29/2010	2,894 KB	DAT file
analysis_graphs.xls	7:13 AM 5/29/2010	455 KB	XLS file
ThesisOutline!.doc	7:26 AM 5/29/2010	38 KB	DOC file
Notes_Meeting_with_ProfSmith.txt	11:38 AM 5/29/2010	1,673 KB	TXT file
JUNK...	2:45 PM 5/29/2010		Folder
data_2010.05.30_startingover.dat	8:37 AM 5/30/2010	420 KB	DAT file

Type: Ph.D Thesis Modified: too many times Copyright: Jorge Cham www.phdcomics.com

Image credit: PhDComics | Image © jorge cham

Local version control

Database system records changes to files and folders over time

Benefits: Can be mostly automated; consistent and dependable; traceability

Challenges: Not conducive to collaboration; local system failure could lead to data loss

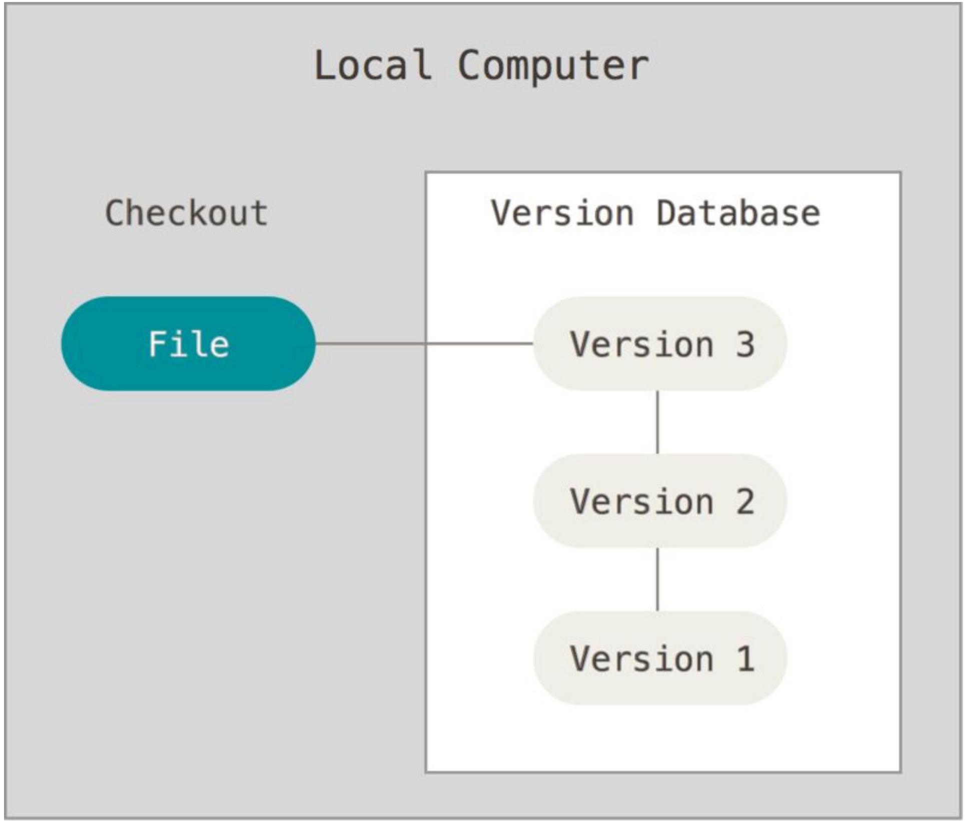


Image credit: Pro Git

Centralized version control

Central (remote) database records changes from multiple local users

Users ‘check out’ a version they are working on.

Benefits: Allows for collaboration & granular permissions

Challenges: Can get ‘locked out’ or lose access altogether during outages

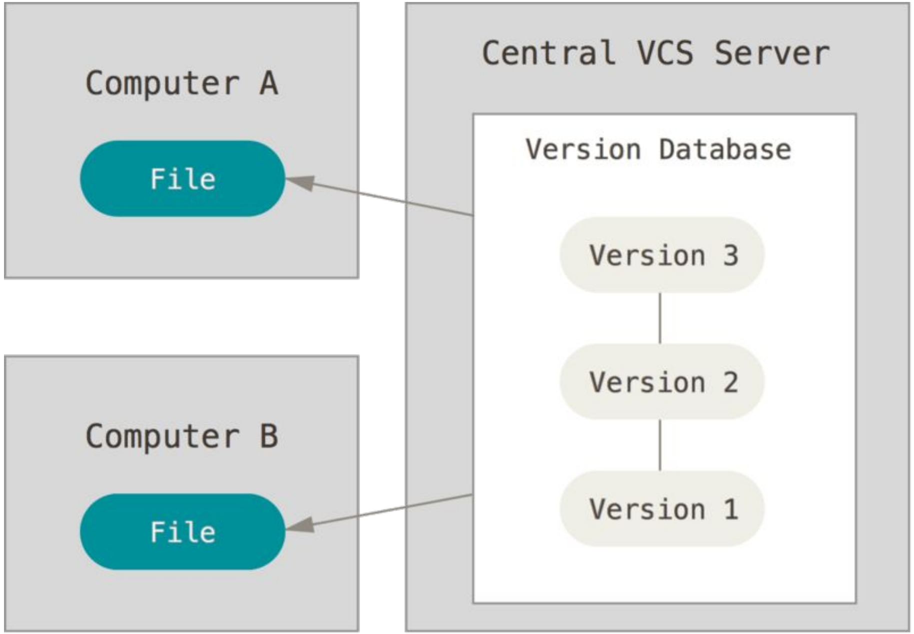


Image credit: Pro Git

Distributed version control

Clients (users) ***clone*** the entire repository locally

Clients work locally; ***push*** changes to the server

Changes managed and ***merged*** at the server

Clients ***pull*** new changes

Benefits:

- Collaboration & concurrent development
- Granular permission
- No single point of failure

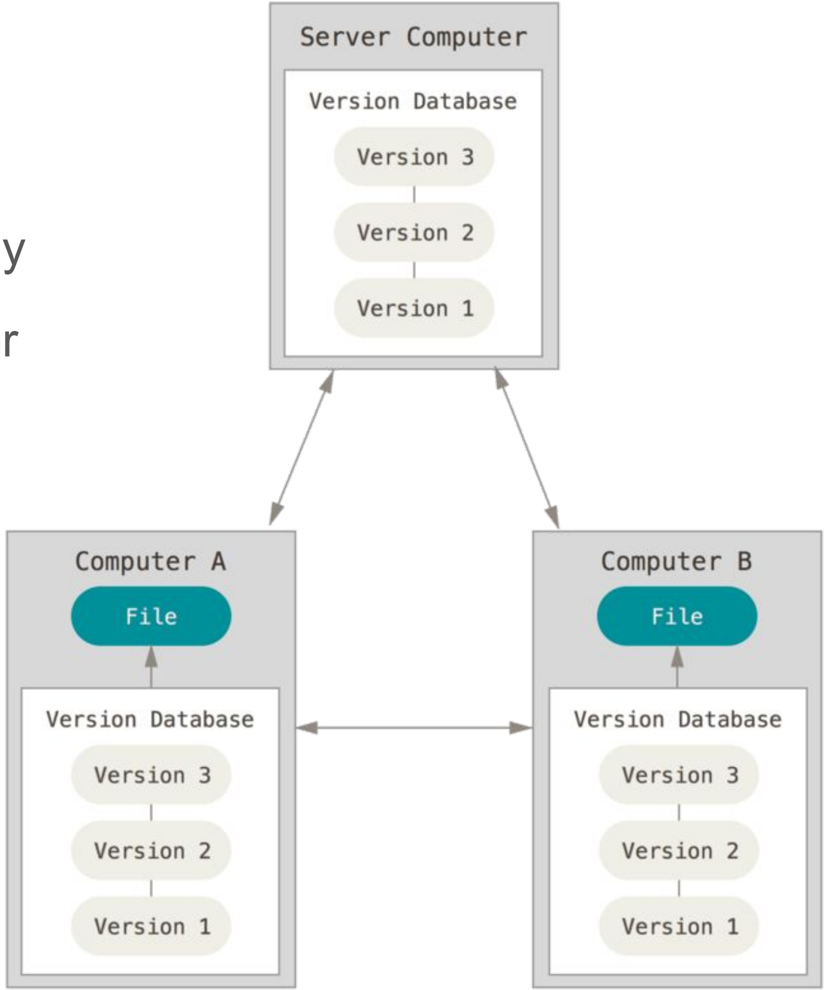


Image credit: [Pro Git]()

Why use distributed version control?

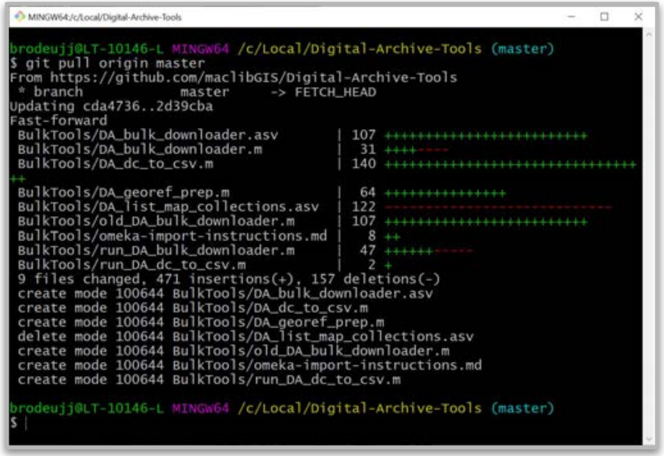
Distributed version control software allows you (and your collaborators) to:

- Track, compare, and revert changes (more quickly and granularly)
- Enable and manage collaborative development
- Deal with challenges of scale (# files, # changes, # collaborators)
- Share materials (openly or controlled); allow collaboration and reuse
- Backup your work to an external repository

Use it to manage:

- **Software / code** — Openrefine: github.com/OpenRefine/OpenRefine
- **Datasets** — OpenIndexMaps: github.com/OpenIndexMaps
- **Documentation** — DCN data curation primers: github.com/DataCurationNetwork/data-primers
- **Books** — Git from the Bottom Up: github.com/jwiegley/git-from-the-bottom-up
- **Websites** — UBC Research Commons' intro to git: ubc-library-rc.github.io/intro-git/

git is a free and open source ***distributed version control system*** to handle everything from small to very large projects with speed and efficiency.

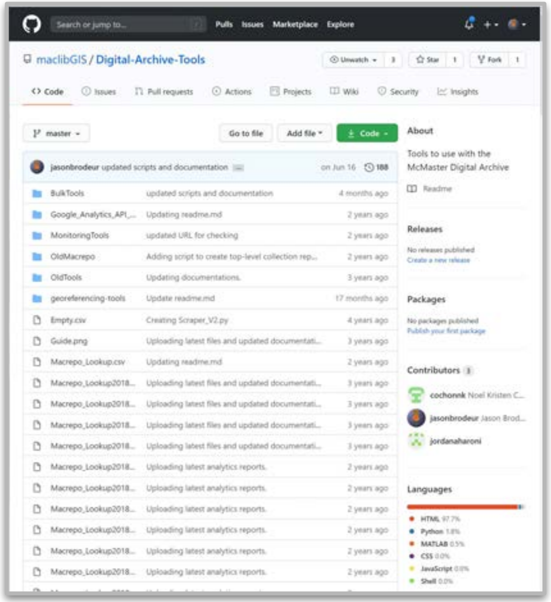


MINGW64:/c/Local/Digital-Archive-Tools

```
brodeujj@LT-10146-L MINGW64 /c/Local/Digital-Archive-Tools (master)
$ git pull origin master
From https://github.com/maclibGIS/Digital-Archive-Tools
 * branch            master     -> FETCH_HEAD
Updating cda4736..2d39cba
Fast-forward
 BulkTools/DA_bulk_downloader.asv       | 107 ++++++++++++++++++++++++++++++
 BulkTools/DA_bulk_downloader.m         |  31 ++++-----
 BulkTools/DA_dc_to_csv.m               | 140 +++++++++++++++++++++++++++++++++++++++++
++
 BulkTools/DA_georef_prep.m             |  64 ++++++++++++++++++
 BulkTools/DA_list_map_collections.asv  | 122 -----------------------------------
 BulkTools/old_DA_bulk_downloader.m     | 107 ++++++++++++++++++++++++++++++
 BulkTools/omeka-import-instructions.md |   8 ++
 BulkTools/run_DA_bulk_downloader.m     |  47 +++++++-------
 BulkTools/run_DA_dc_to_csv.m           |   2 +
 9 files changed, 471 insertions(+), 157 deletions(-)
 create mode 100644 BulkTools/DA_bulk_downloader.asv
 create mode 100644 BulkTools/DA_dc_to_csv.m
 create mode 100644 BulkTools/DA_georef_prep.m
 delete mode 100644 BulkTools/DA_list_map_collections.asv
 create mode 100644 BulkTools/old_DA_bulk_downloader.m
 create mode 100644 BulkTools/omeka-import-instructions.md
 create mode 100644 BulkTools/run_DA_dc_to_csv.m

brodeujj@LT-10146-L MINGW64 /c/Local/Digital-Archive-Tools (master)
$ |
```

GitHub is a web-based hosting service for version control using git. It offers all of the distributed version control and source code management functionality of git as well as additional features.



maclibGIS / Digital-Archive-Tools

jasonbrodeur updated scripts and documentation … on Jun 16 188

BulkTools	updated scripts and documentation	4 months ago
Google_Analytics_API_...	Updating readme.md	2 years ago
MonitoringTools	updated URL for checking	2 years ago
OldMacrepo	Adding script to create top-level collection rep...	2 years ago
OldTools	Updating documentations.	3 years ago
georeferencing-tools	Update readme.md	17 months ago
Empty.csv	Creating Scraper_V2.py	4 years ago
Guide.png	Uploading latest files and updated documentati...	3 years ago
Macrepo_Lookup.csv	Updating readme.md	2 years ago
Macrepo_Lookup2018...	Uploading latest files and updated documentati...	3 years ago
Macrepo_Lookup2018...	Uploading latest files and updated documentati...	3 years ago
Macrepo_Lookup2018...	Uploading latest files and updated documentati...	3 years ago
Macrepo_Lookup2018...	Uploading latest files and updated documentati...	3 years ago
Macrepo_Lookup2018...	Uploading latest analytics reports.	2 years ago
Macrepo_Lookup2018...	Uploading latest analytics reports.	2 years ago
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Macrepo_Lookup2018...	Uploading latest analytics reports.	2 years ago

About

Tools to use with the McMaster Digital Archive

Readme

Releases

No releases published
Create a new release

Packages

No packages published
Publish your first package

Contributors 3

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jasonbrodeur Jason Brod...
jordanaharoni

Languages

- HTML 97.7%
- Python 1.8%
- MATLAB 0.5%
- CSS 0.0%
- JavaScript 0.0%
- Shell 0.0%

Basic workflows

in git and GitHub

1. ***Initialize*** or ***clone*** a ***repository*** (in git)

A ***repository (repo)*** is a set of files/directories managed with a VCS

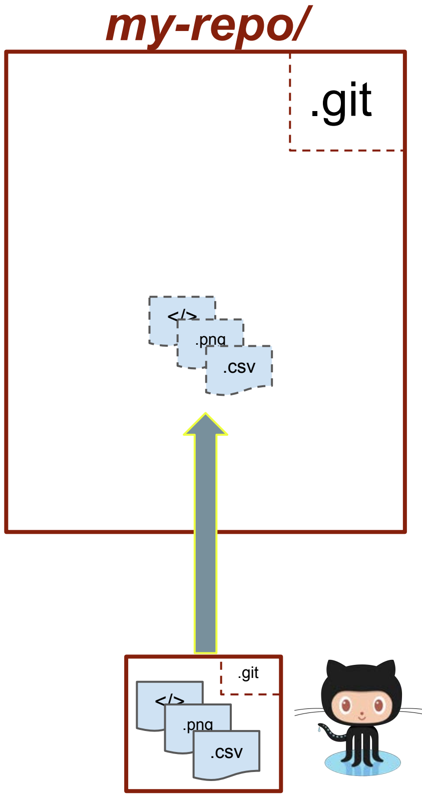
Initialize git to create a new local repo in a selected directory (with or without files)

```
$ cd C:/Local/my-repo
$ git init
```

OR

Clone an existing repo (e.g from GitHub) to your local system

```
$ git clone https://github.com/username/my-repo.git
```



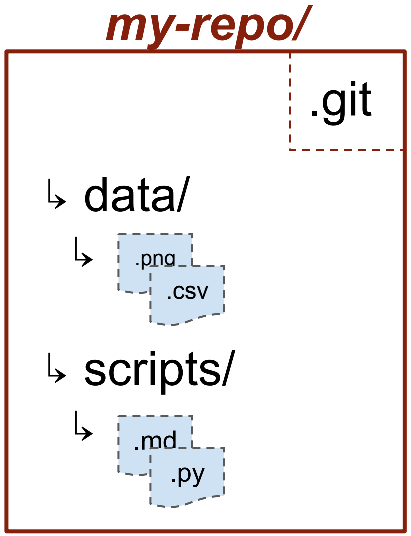
Tip: Create a readme.md and LICENSE file in the top directory

➢ These become your repo’s readme file and license

2. Do your work

Create and edit files and folders

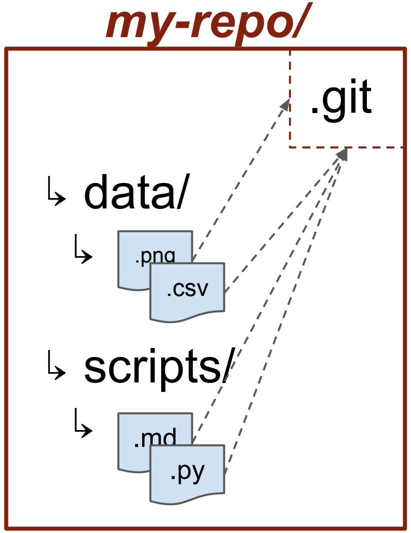
NOTE: Changes aren’t tracked until you take a snapshot of them.



3. ***Add*** or ***update*** files (in git)

Add: tell git to begin keeping track of a file and its versions

```
$ git add README.md
$ git add --all
$ git add *.py
```



Update: tell git to take note of the changes that has been made to a file (staging)

```
$ git add -u
```

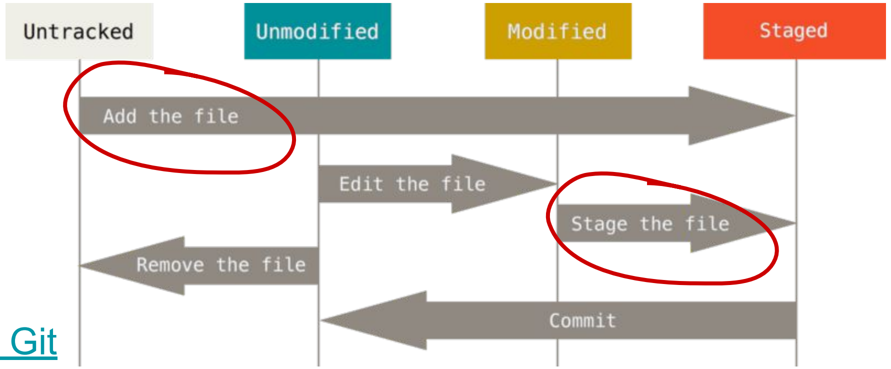
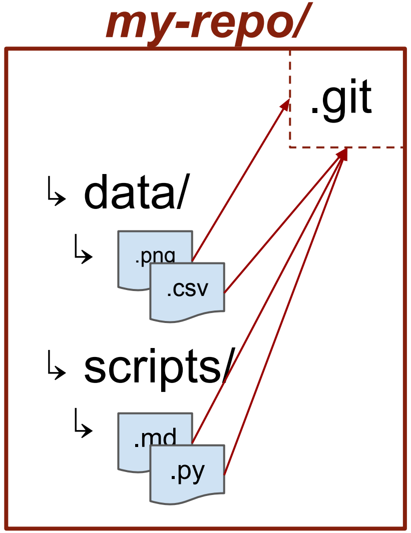


Image credit: Pro Git

4. ***Commit*** changes (in git)



Commit: tell git to take a snapshot of all staged (changed) files (while keeping old snapshots):

```
$ git commit -m "Title" -m “Description......"
```

- Add a short comment and a longer description

Add and ***commit*** at once with:

```
$ git commit -a -m "Title"
```

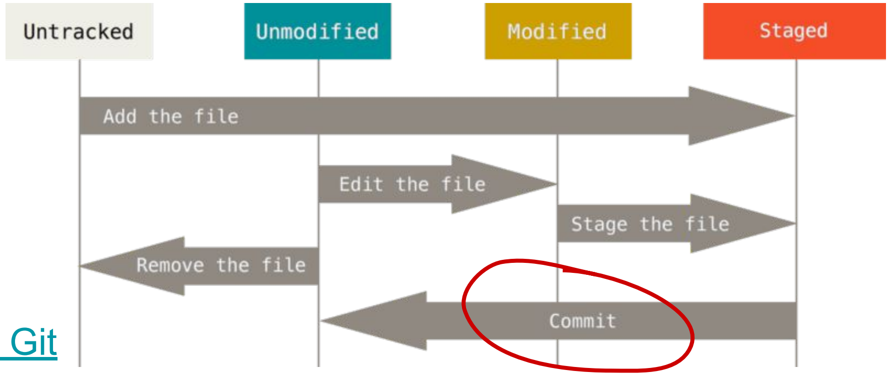


Image credit: Pro Git

OK

What Now?

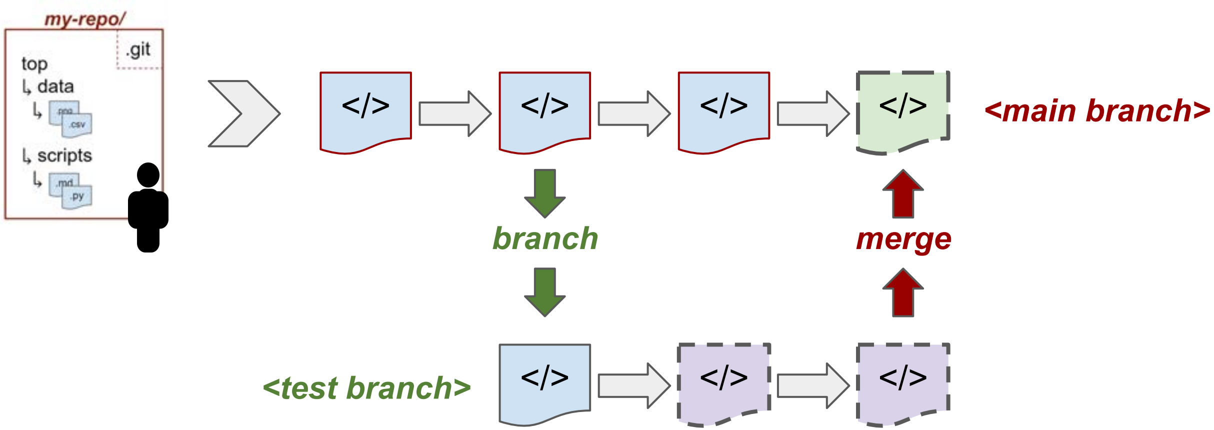
5a. Continue to work, add + commit

5b. Make a new ***branch*** to allow separate development

Clones the ***main/master branch*** (but tracked in the same git)

Allows separate development without breaking what’s in place

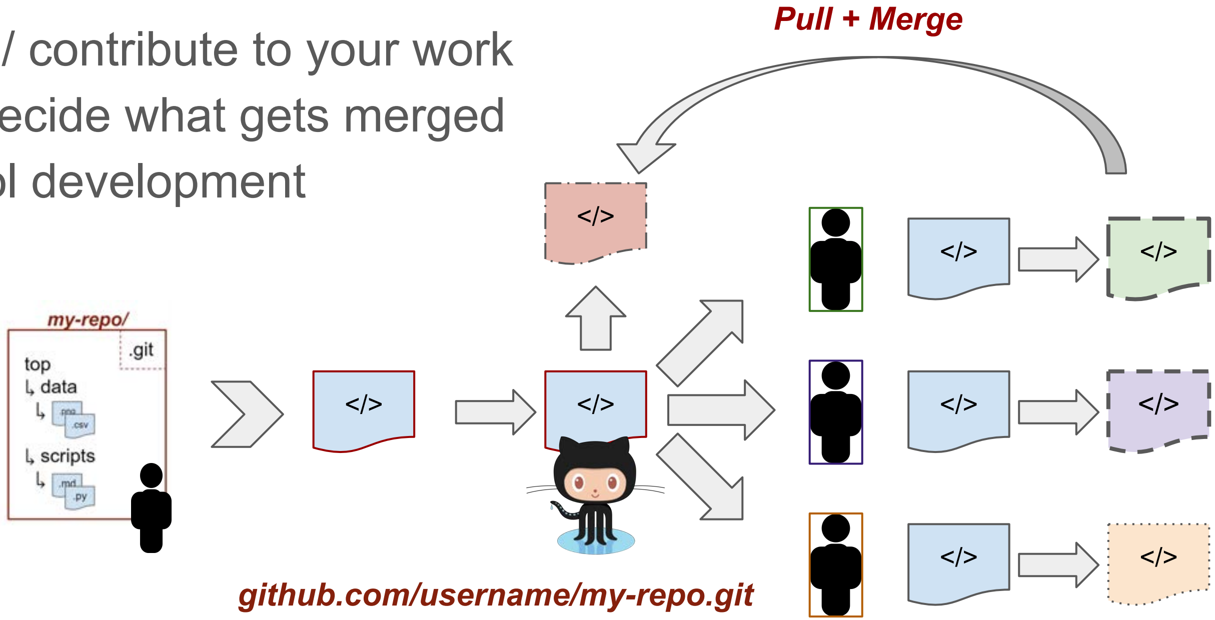
New branch can be later ***merged*** into the ***main/master*** one



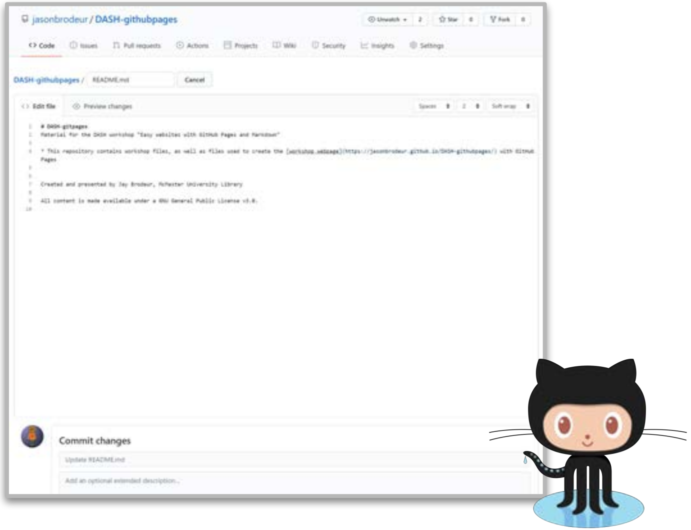
5c. ***Push*** changes to a remote repository (e.g. GitHub)

Push: send modified files (and git database and associated metadata) to a remote repository (e.g. GitHub, or another hosted repository)

- Disseminate & share
- Enable others to modify / contribute to your work
- Manage contributions; decide what gets merged
- Merge changes & control development



In GitHub



```
# DASH-gitpages
Material for the DASH workshop "Easy websites with GitHub Pages and Markdown"

* This repository contains workshop files, as well as files used to create the [workshop webpage](https://jasonbrodeur.github.io/DASH-githubpages/) with GitHub Pages


Created and presented by Jay Brodeur, McMaster University Library

All content is made available under a GNU General Public License v3.0.
```

Update README.md

Add an optional extended description...

Use the web interface to:

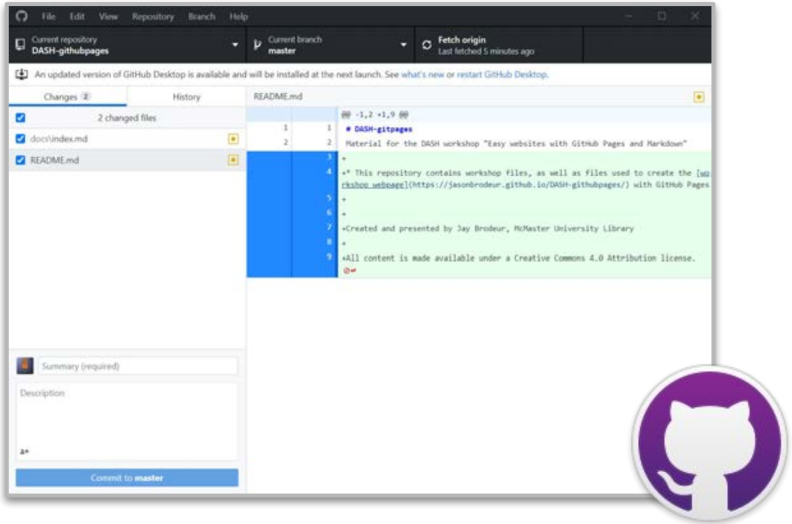
create / clone repository (with readme)

↪ upload, edit etc.

↪ add + commit

↪ branch + merge

In GitHub Desktop



An updated version of GitHub Desktop is available and will be installed at the next launch. See what's new or restart GitHub Desktop.

```
@@ -1,2 +1,9 @@
 # DASH-gitpages
 Material for the DASH workshop "Easy websites with GitHub Pages and Markdown"
+
+* This repository contains workshop files, as well as files used to create the [workshop webpage](https://jasonbrodeur.github.io/DASH-githubpages/) with GitHub Pages.
+
+
+Created and presented by Jay Brodeur, McMaster University Library
+
+All content is made available under a Creative Commons 4.0 Attribution license.
```

GitHub Desktop is a desktop application for local version control and interaction with GitHub using a GUI.

Managing collaboration, access, & sharing

with GitHub

In GitHub

Use the web interface to:

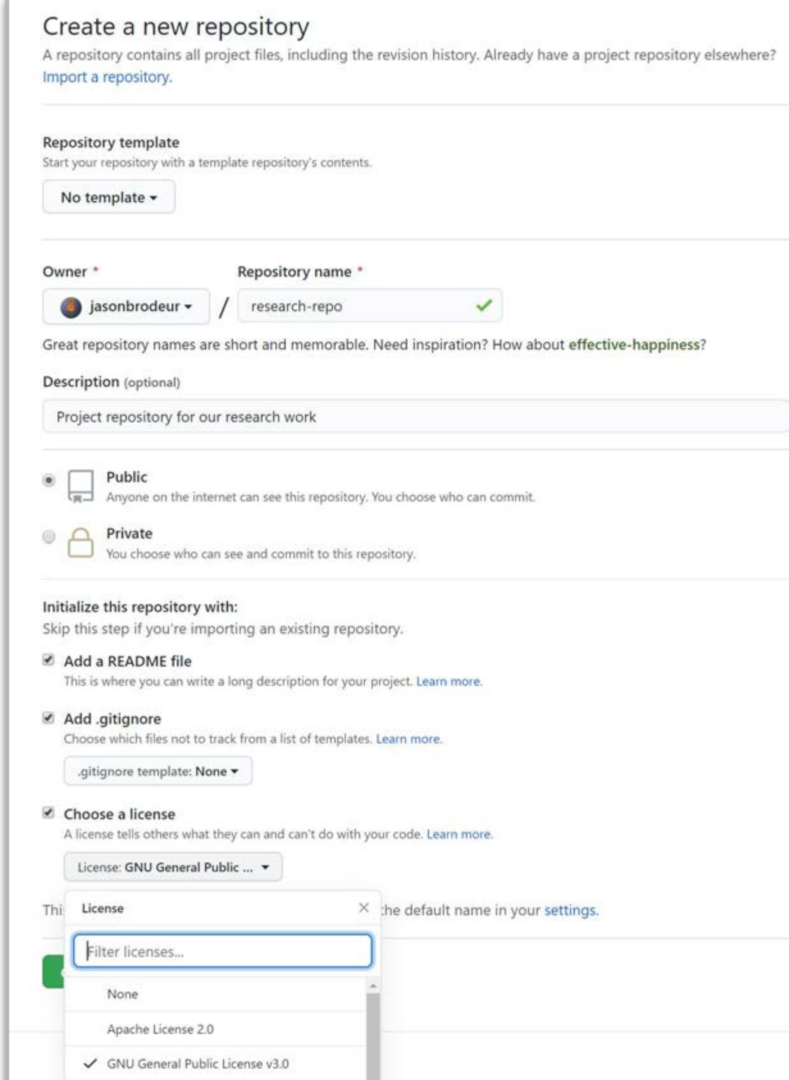
↦ create / clone a repository

- Create name and description
- Set visibility
- Add README, .gitignore, license

↪ upload, edit etc.

↪ add + commit

↪ branch + merge



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?
Import a repository.

Repository template
Start your repository with a template repository's contents.
No template ▾

Owner * Repository name *
jasonbrodeur ▾ / research-repo ✓

Great repository names are short and memorable. Need inspiration? How about effective-happiness?

Description (optional)
Project repository for our research work

● Public
Anyone on the internet can see this repository. You choose who can commit.

○ Private
You choose who can see and commit to this repository.

Initialize this repository with:
Skip this step if you're importing an existing repository.

☑ Add a README file
This is where you can write a long description for your project. Learn more.

☑ Add .gitignore
Choose which files not to track from a list of templates. Learn more.
.gitignore template: None ▾

☑ Choose a license
A license tells others what they can and can't do with your code. Learn more.
License: GNU General Public ... ▾

Thi the default name in your settings.

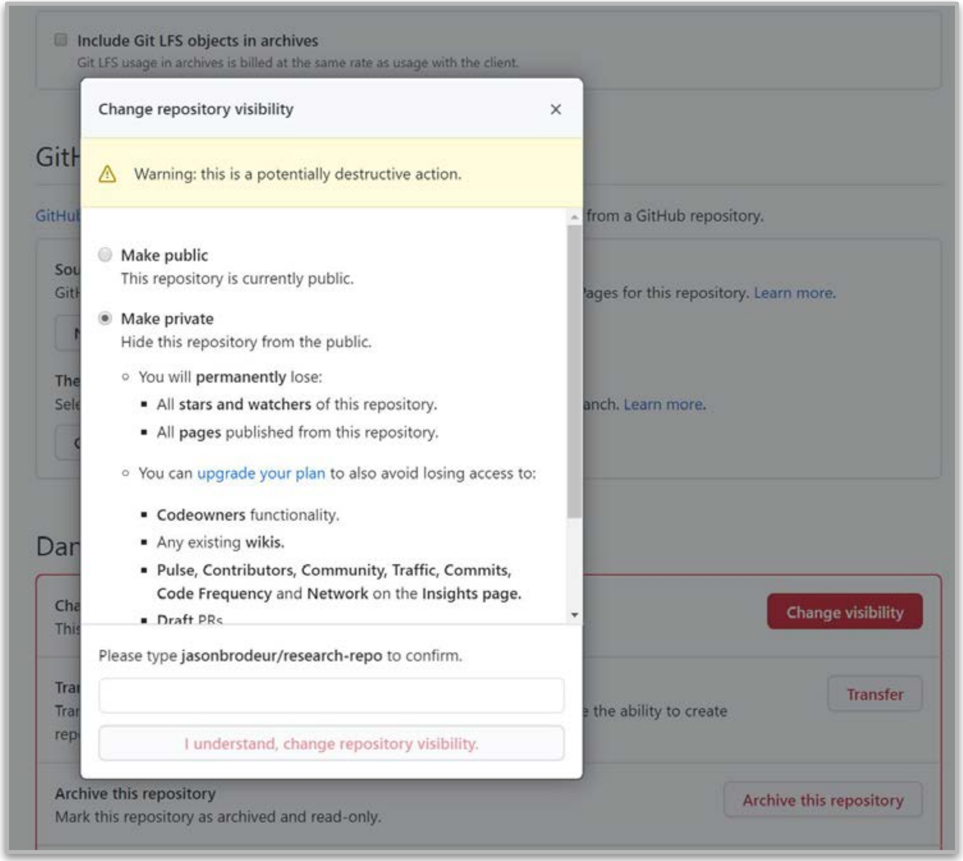
License ×
Filter licenses...
None
Apache License 2.0
✓ GNU General Public License v3.0

Managing repository visibility

Set at creation or anytime in >Settings

Options:

- Public to everyone
- Private to collaborators / teams
  - Added private features with upgrade to paid account / organization



□ Include Git LFS objects in archives
Git LFS usage in archives is billed at the same rate as usage with the client.

Change repository visibility ×

⚠ Warning: this is a potentially destructive action.

○ **Make public**
This repository is currently public.

● **Make private**
Hide this repository from the public.

- You will **permanently** lose:
  - All **stars and watchers** of this repository.
  - All **pages** published from this repository.
- You can upgrade your plan to also avoid losing access to:
  - **Codeowners** functionality.
  - Any existing **wikis.**
  - **Pulse, Contributors, Community, Traffic, Commits, Code Frequency** and **Network** on the **Insights page.**
  - **Draft PRs**

Please type **jasonbrodeur/research-repo** to confirm.

I understand, change repository visibility.

from a GitHub repository.

ages for this repository. Learn more.

anch. Learn more.

Change visibility

Transfer

the ability to create

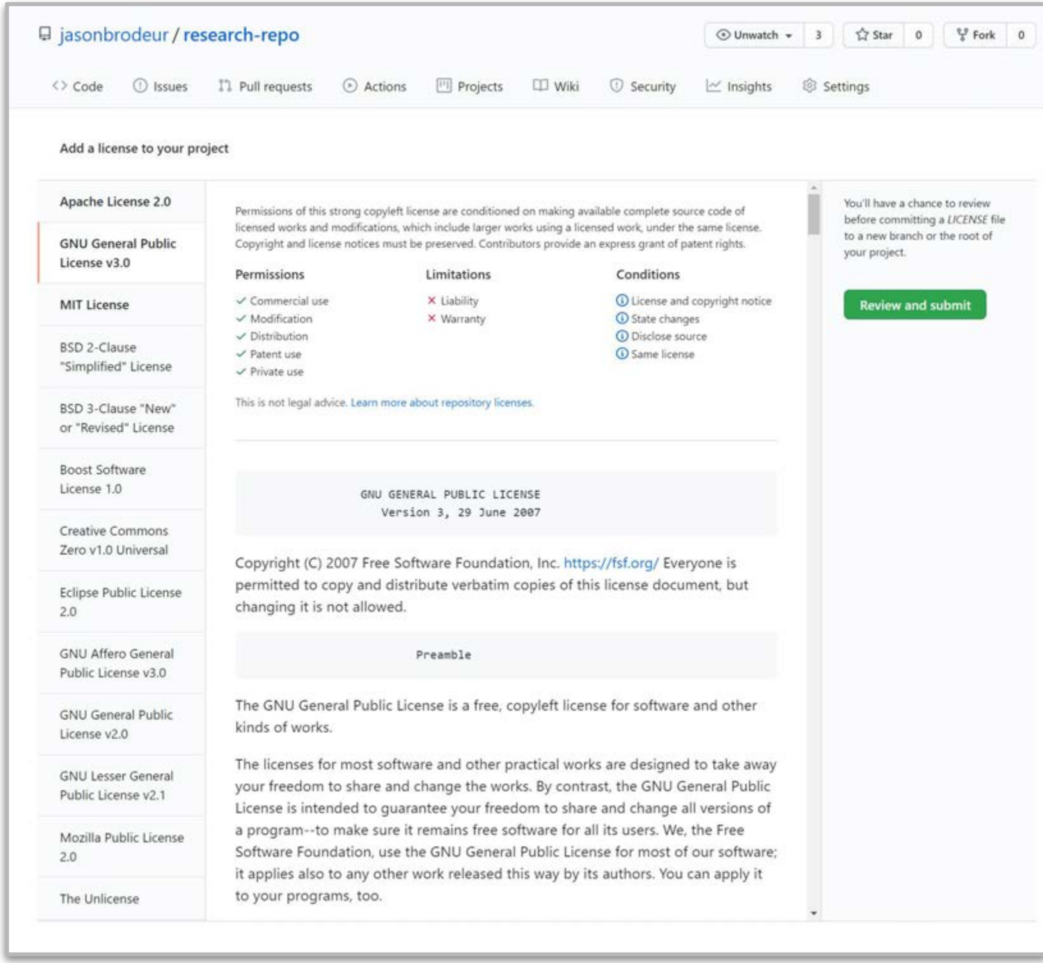
Archive this repository
Mark this repository as archived and read-only.

Archive this repository

Adding a license

Created in the LICENSE file in the top-level of the repository

Built-in license selector
(or add your own)


jasonbrodeur / research-repo
Unwatch 3
Star 0
Fork 0
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
Apache License 2.0
GNU General Public License v3.0
MIT License
BSD 2-Clause "Simplified" License
BSD 3-Clause "New" or "Revised" License
Boost Software License 1.0
Creative Commons Zero v1.0 Universal
Eclipse Public License 2.0
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✓ Distribution		ⓘ Disclose source
✓ Patent use		ⓘ Same license
✓ Private use		

This is not legal advice. Learn more about repository licenses.

```
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```

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```
                            Preamble
```

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

You'll have a chance to review before committing a *LICENSE* file to a new branch or the root of your project.

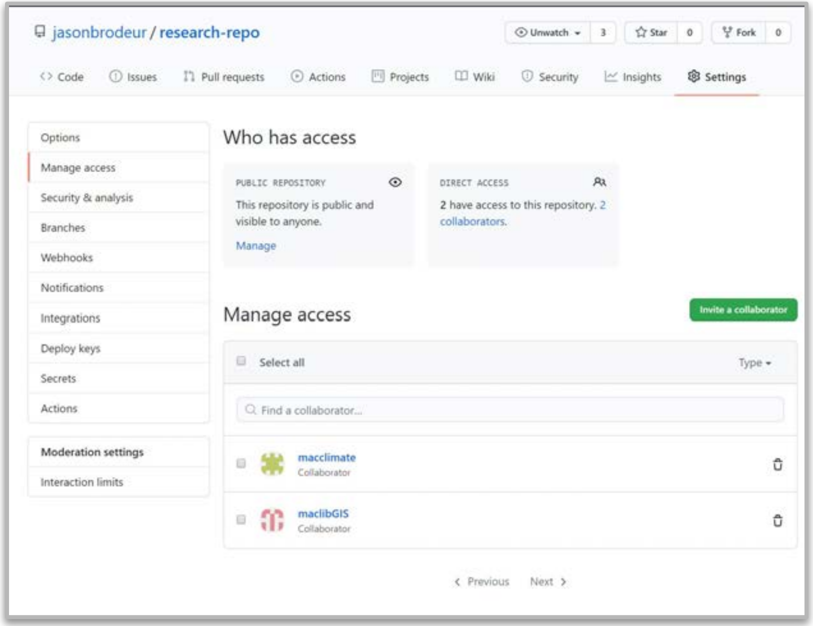
Managing collaborators on a personal repository

Collaborators can be added to both public and private repositories

For ***personal repositories*** (owned by a user), collaborators have only one set of privileges

- Can push, pull (read), and fork
- Manage pull requests, wikis, releases, etc.

More granular permissions are available for repositories owned by ***organizations***



jasonbrodeur / research-repo

Who has access

PUBLIC REPOSITORY
This repository is public and visible to anyone.
Manage

DIRECT ACCESS
2 have access to this repository. 2 collaborators.

Manage access

macclimate
Collaborator

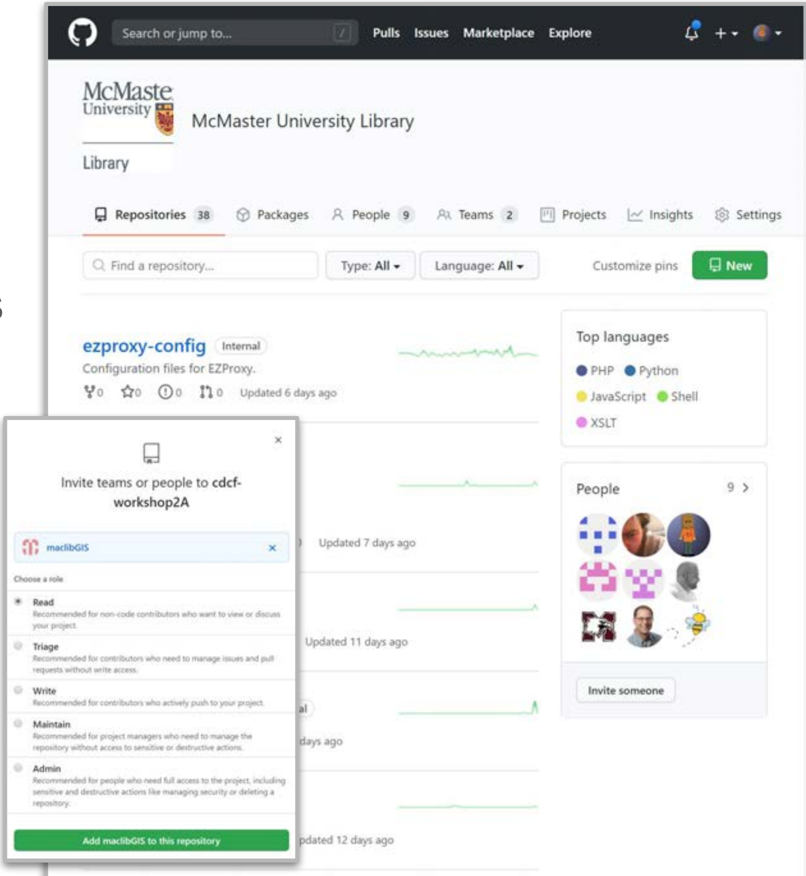
maclibGIS
Collaborator

Managing access with ***organizations*** and ***teams***

Organizations are shared accounts for projects

Benefits:

- Shared ownership of (unlimited) repositories
- Top-level management of repositories
- Unlimited membership
- Range of roles and permissions
- Nested ***teams*** with cascading access
- Two-factor authentication
- Are free to create



Configuration files for EZProxy.

Invite teams or people to **cdcf-workshop2A**

Choose a role

● **Read**
Recommended for non-code contributors who want to view or discuss your project.

○ **Triage**
Recommended for contributors who need to manage issues and pull requests without write access.

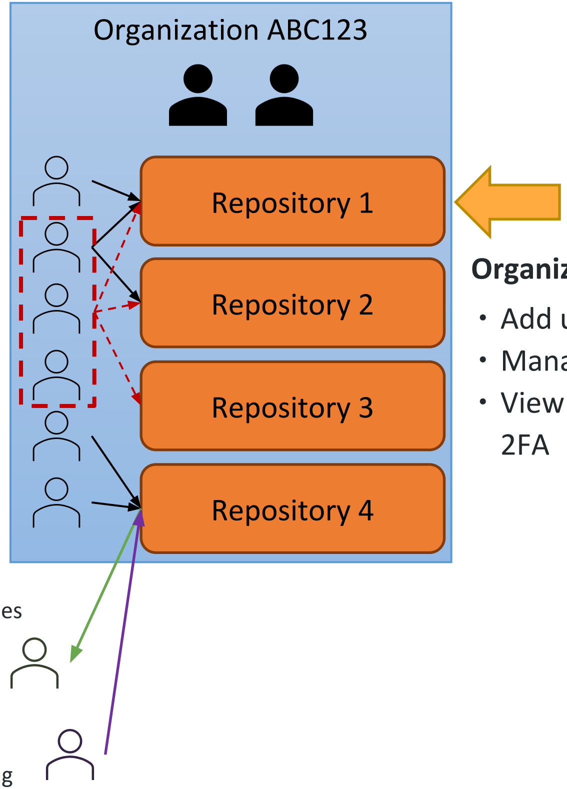
○ **Write**
Recommended for contributors who actively push to your project.

○ **Maintain**
Recommended for project managers who need to manage the repository without access to sensitive or destructive actions.

○ **Admin**
Recommended for people who need full access to the project, including sensitive and destructive actions like managing security or deleting a repository.

Managing access with ***organizations*** and ***teams***

Granular permissions for *members*, *teams*, public (view), and outside collaborators,



Organization administrators can:

- Add users to the organization; manage members’ roles
- Manage access using nested teams with cascading access permissions
- View members' two-factor authentication (2FA) status and require 2FA

Members of the public can view repositories made public by organization administrators

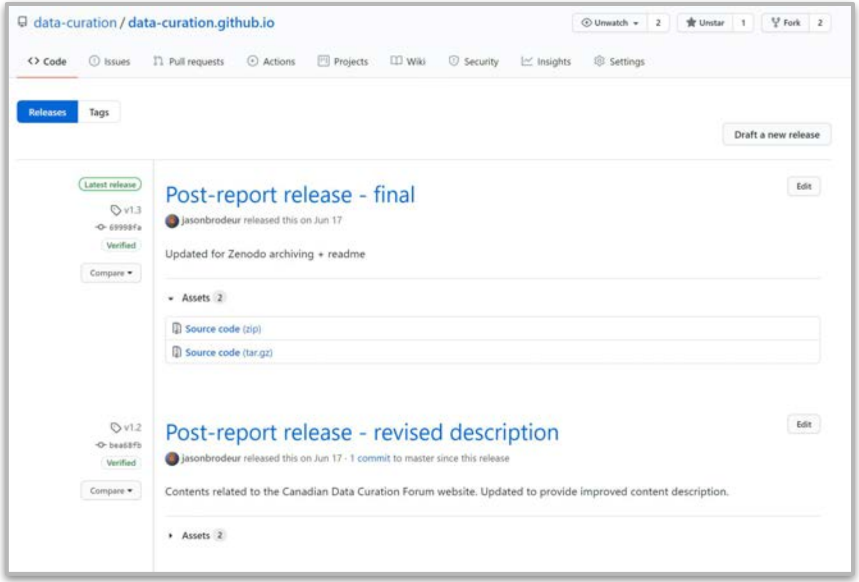
Outside collaborators can be added to repositories in an organization (without being added to the organization itself)

Packaging and ***releasing*** repositories

A release is a tagged snapshot of a repository for deploying a discrete version to broader audiences.

Releases are used when:

- Deploying software packages
- Packaging as supplemental materials (e.g. supporting a publication)
- Archiving in data / code repositories



Post-report release - final

jasonbrodeur released this on Jun 17

Updated for Zenodo archiving + readme

Assets 2

Source code (zip)

Source code (tar.gz)

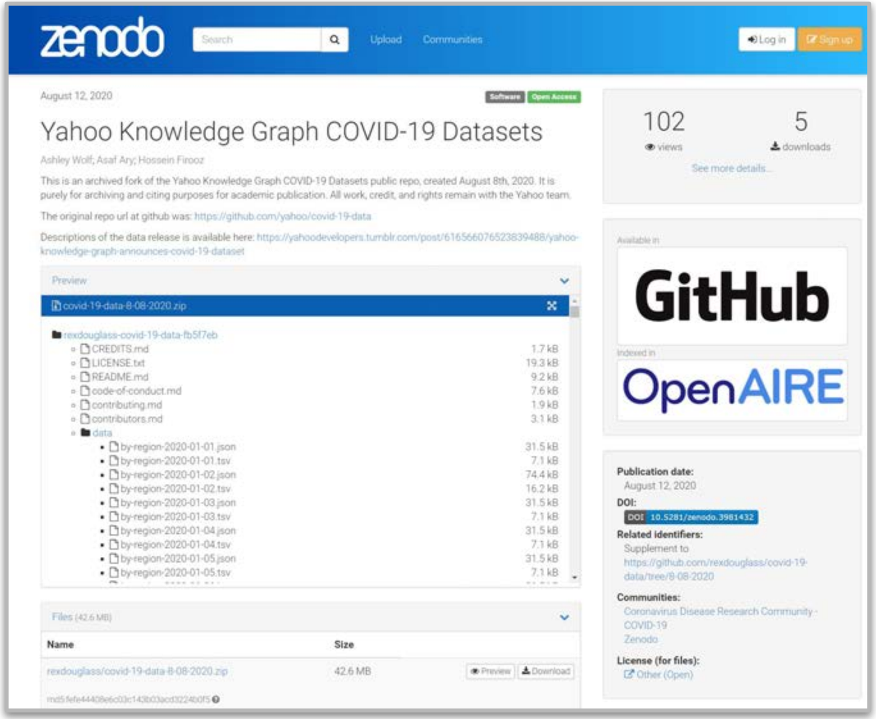
Post-report release - revised description

jasonbrodeur released this on Jun 17 · 1 commit to master since this release

Contents related to the Canadian Data Curation Forum website. Updated to provide improved content description.

Assets 2

An Example - Archiving in Zenodo



August 12, 2020

Yahoo Knowledge Graph COVID-19 Datasets

Ashley Wolf; Asaf Ary; Hossein Firooz

This is an archived fork of the Yahoo Knowledge Graph COVID-19 Datasets public repo, created August 8th, 2020. It is purely for archiving and citing purposes for academic publication. All work, credit, and rights remain with the Yahoo team.

The original repo url at github was: https://github.com/yahoo/covid-19-data

Descriptions of the data release is available here: https://yahoodevelopers.tumblr.com/post/616566076523839488/yahoo-knowledge-graph-announces-covid-19-dataset

covid-19-data-8-08-2020.zip

rexdouglass-covid-19-data-fb5f7eb	
CREDITS.md	1.7 kB
LICENSE.txt	19.3 kB
README.md	9.2 kB
code-of-conduct.md	7.6 kB
contributing.md	1.9 kB
contributors.md	3.1 kB
data	
by-region-2020-01-01.json	31.5 kB
by-region-2020-01-01.tsv	7.1 kB
by-region-2020-01-02.json	74.4 kB
by-region-2020-01-02.tsv	16.2 kB
by-region-2020-01-03.json	31.5 kB
by-region-2020-01-03.tsv	7.1 kB
by-region-2020-01-04.json	31.5 kB
by-region-2020-01-04.tsv	7.1 kB
by-region-2020-01-05.json	31.5 kB
by-region-2020-01-05.tsv	7.1 kB

Name	Size
rexdouglass/covid-19-data-8-08-2020.zip md5:fefe44408e6c03c143b03acd3224b0f5	42.6 MB

102 views

5 downloads

See more details...

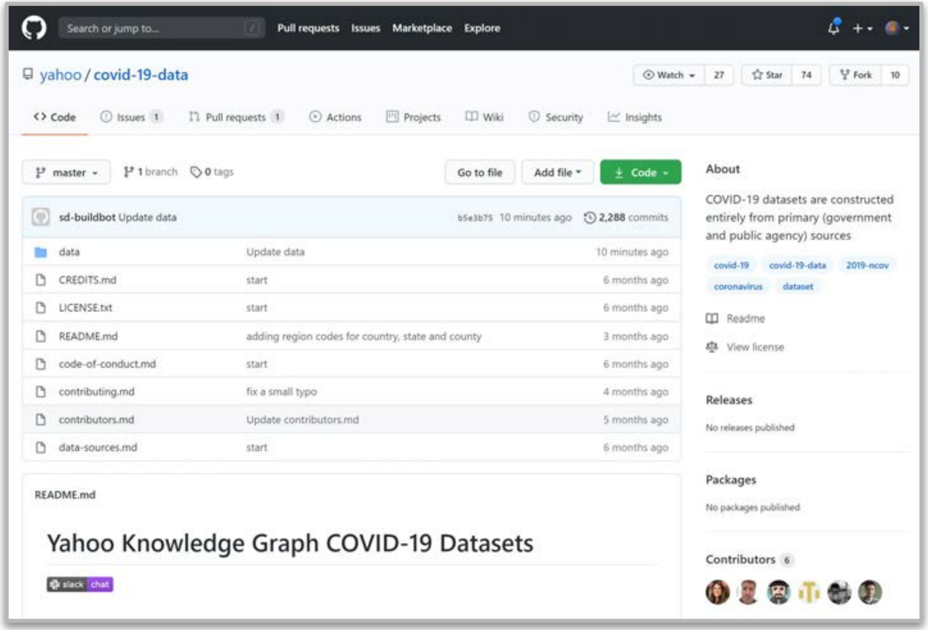
Publication date: August 12, 2020

DOI: DOI 10.5281/zenodo.3981432

Related identifiers: Supplement to https://github.com/rexdouglass/covid-19-data/tree/8-08-2020

Communities:
Coronavirus Disease Research Community - COVID-19
Zenodo

License (for files): Other (Open)



yahoo / covid-19-data

sd-buildbot Update data b5e3b75 10 minutes ago 2,288 commits

data	Update data	10 minutes ago
CREDITS.md	start	6 months ago
LICENSE.txt	start	6 months ago
README.md	adding region codes for country, state and county	3 months ago
code-of-conduct.md	start	6 months ago
contributing.md	fix a small typo	4 months ago
contributors.md	Update contributors.md	5 months ago
data-sources.md	start	6 months ago

README.md

Yahoo Knowledge Graph COVID-19 Datasets

About

COVID-19 datasets are constructed entirely from primary (government and public agency) sources

covid-19 covid-19-data 2019-ncov coronavirus dataset

Releases

No releases published

Packages

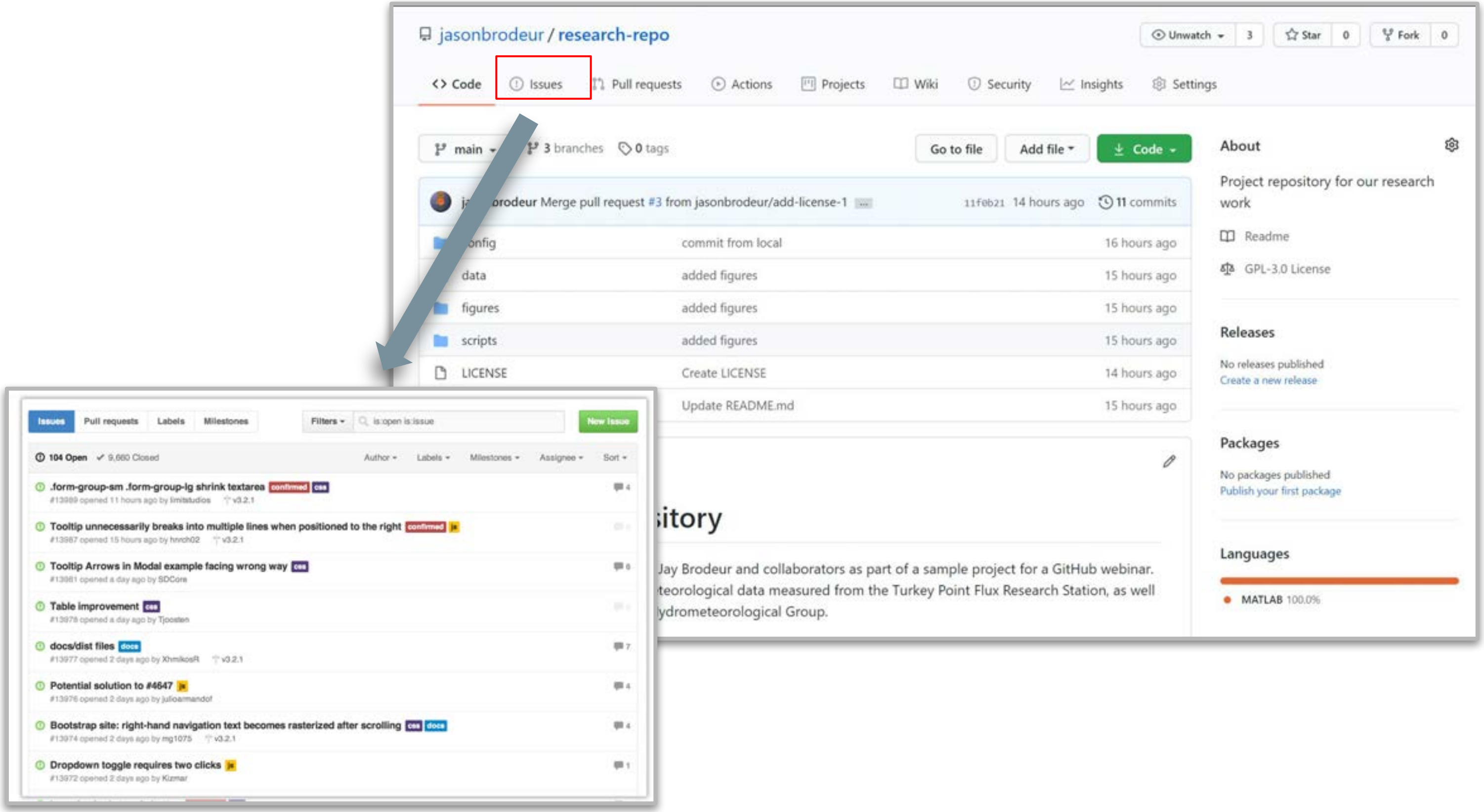
No packages published

Contributors 6

Ashley Wolf, Asaf Ary, & Hossein Firooz. (2020, August 12). Yahoo Knowledge Graph COVID-19 Datasets (Version 8-08-2020). Zenodo. http://doi.org/10.5281/zenodo.3981432

Main repo: https://github.com/yahoo/covid-19-data
Release (forked):
https://github.com/rexdouglass/covid-19-data/tree/8-08-2020

Communication & collaboration tools - Pull requests



jasonbrodeur Merge pull request #3 from jasonbrodeur/add-license-1 … 11f0b21 14 hours ago 11 commits

config	commit from local	16 hours ago
data	added figures	15 hours ago
figures	added figures	15 hours ago
scripts	added figures	15 hours ago
LICENSE	Create LICENSE	14 hours ago
	Update README.md	15 hours ago

Project repository for our research work

…itory

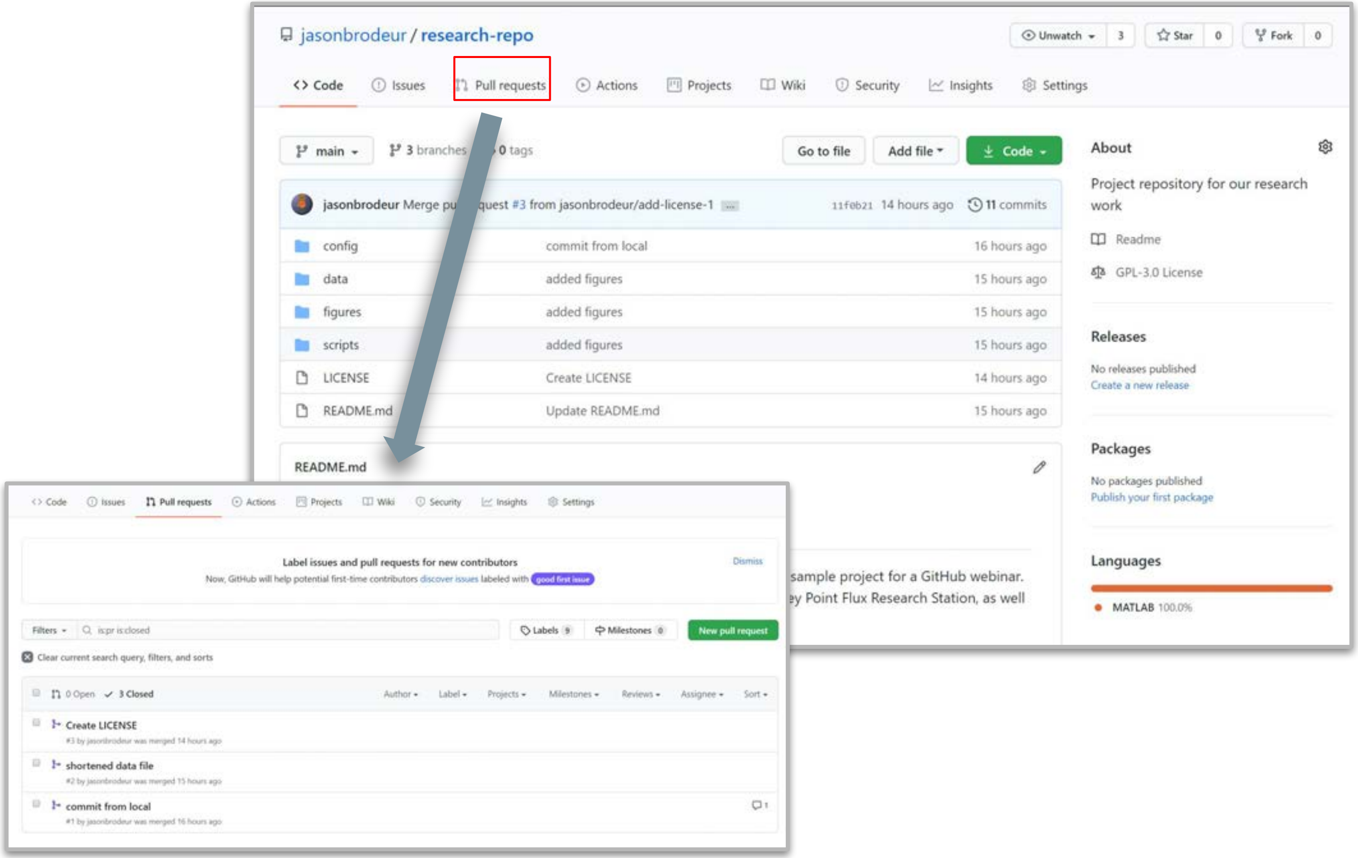
…Jay Brodeur and collaborators as part of a sample project for a GitHub webinar. …teorological data measured from the Turkey Point Flux Research Station, as well …ydrometeorological Group.

104 Open ✓ 9,660 Closed

- .form-group-sm .form-group-lg shrink textarea confirmed css — #13989 opened 11 hours ago by limitstudios v3.2.1 — 4
- Tooltip unnecessarily breaks into multiple lines when positioned to the right confirmed js — #13987 opened 15 hours ago by hrvch02 v3.2.1
- Tooltip Arrows in Modal example facing wrong way css — #13981 opened a day ago by SDCore — 6
- Table improvement css — #13978 opened a day ago by Tjoosten
- docs/dist files docs — #13977 opened 2 days ago by XhmikosR v3.2.1 — 7
- Potential solution to #4647 js — #13976 opened 2 days ago by julioarmandof — 4
- Bootstrap site: right-hand navigation text becomes rasterized after scrolling css docs — #13974 opened 2 days ago by mg1075 v3.2.1 — 4
- Dropdown toggle requires two clicks js — #13972 opened 2 days ago by Kizmar — 1

Image credit: GitHub guides

Communication & collaboration tools - Pull requests



jasonbrodeur / research-repo

jasonbrodeur Merge pu[…]quest #3 from jasonbrodeur/add-license-1 … 11f0b21 14 hours ago 11 commits

config	commit from local	16 hours ago
data	added figures	15 hours ago
figures	added figures	15 hours ago
scripts	added figures	15 hours ago
LICENSE	Create LICENSE	14 hours ago
README.md	Update README.md	15 hours ago

README.md

sample project for a GitHub webinar.
ey Point Flux Research Station, as well

About

Project repository for our research work

Readme

GPL-3.0 License

Releases

No releases published
Create a new release

Packages

No packages published
Publish your first package

Languages

● MATLAB 100.0%

Label issues and pull requests for new contributors

Now, GitHub will help potential first-time contributors discover issues labeled with good first issue

is:pr is:closed

Clear current search query, filters, and sorts

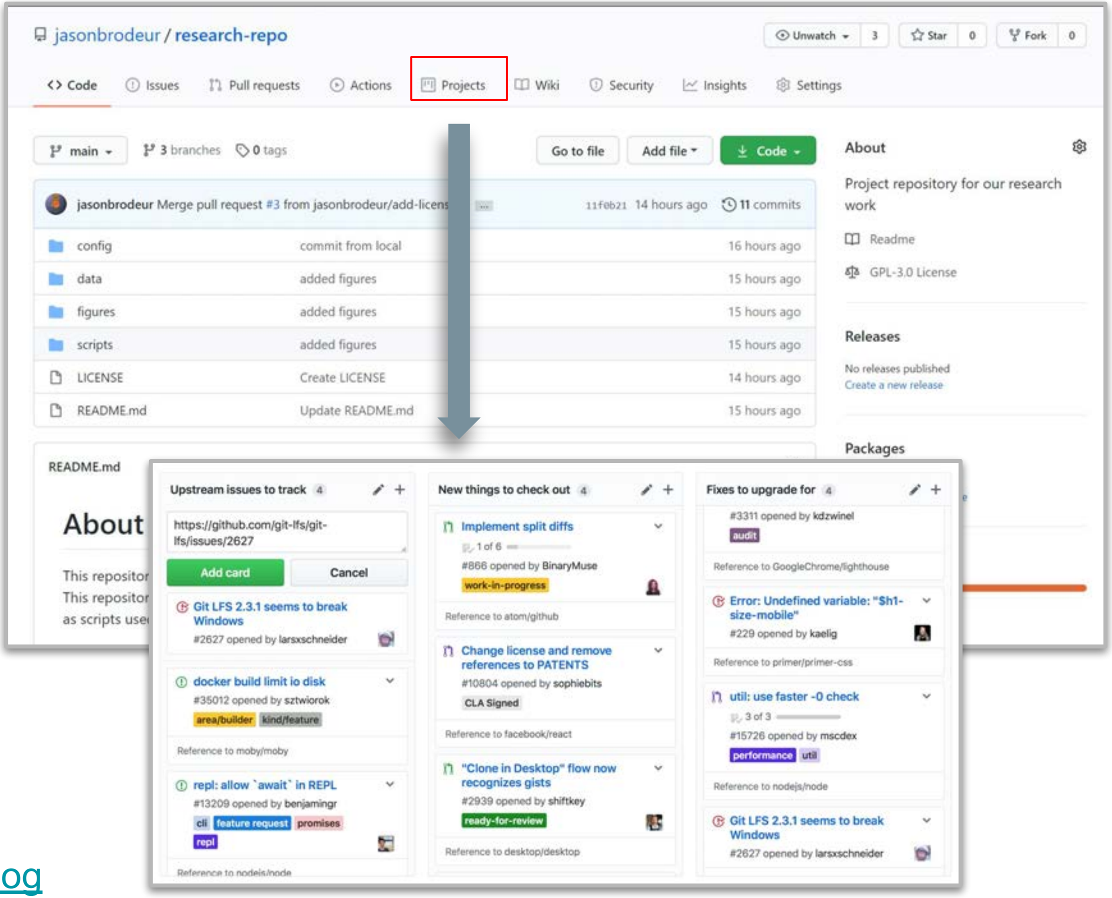
0 Open ✓ 3 Closed

Create LICENSE
#3 by jasonbrodeur was merged 14 hours ago

shortened data file
#2 by jasonbrodeur was merged 15 hours ago

commit from local
#1 by jasonbrodeur was merged 16 hours ago 1

Communication & collaboration tools - Project Boards



jasonbrodeur Merge pull request #3 from jasonbrodeur/add-licens … 11f0b21 14 hours ago 11 commits

config	commit from local	16 hours ago
data	added figures	15 hours ago
figures	added figures	15 hours ago
scripts	added figures	15 hours ago
LICENSE	Create LICENSE	14 hours ago
README.md	Update README.md	15 hours ago

Project repository for our research work

No releases published
Create a new release

About

This repositor
This repositor
as scripts use

Upstream issues to track 4

https://github.com/git-lfs/git-lfs/issues/2627

Add card | Cancel

Git LFS 2.3.1 seems to break Windows
#2627 opened by larsxschneider

docker build limit io disk
#35012 opened by sztwiorok
area/builder kind/feature
Reference to moby/moby

repl: allow `await` in REPL
#13209 opened by benjamingr
cli feature request promises repl
Reference to nodejs/node

New things to check out 4

Implement split diffs
1 of 6
#866 opened by BinaryMuse
work-in-progress
Reference to atom/github

Change license and remove references to PATENTS
#10804 opened by sophiebits
CLA Signed
Reference to facebook/react

"Clone in Desktop" flow now recognizes gists
#2939 opened by shiftkey
ready-for-review
Reference to desktop/desktop

Fixes to upgrade for 4

#3311 opened by kdzwinel
audit
Reference to GoogleChrome/lighthouse

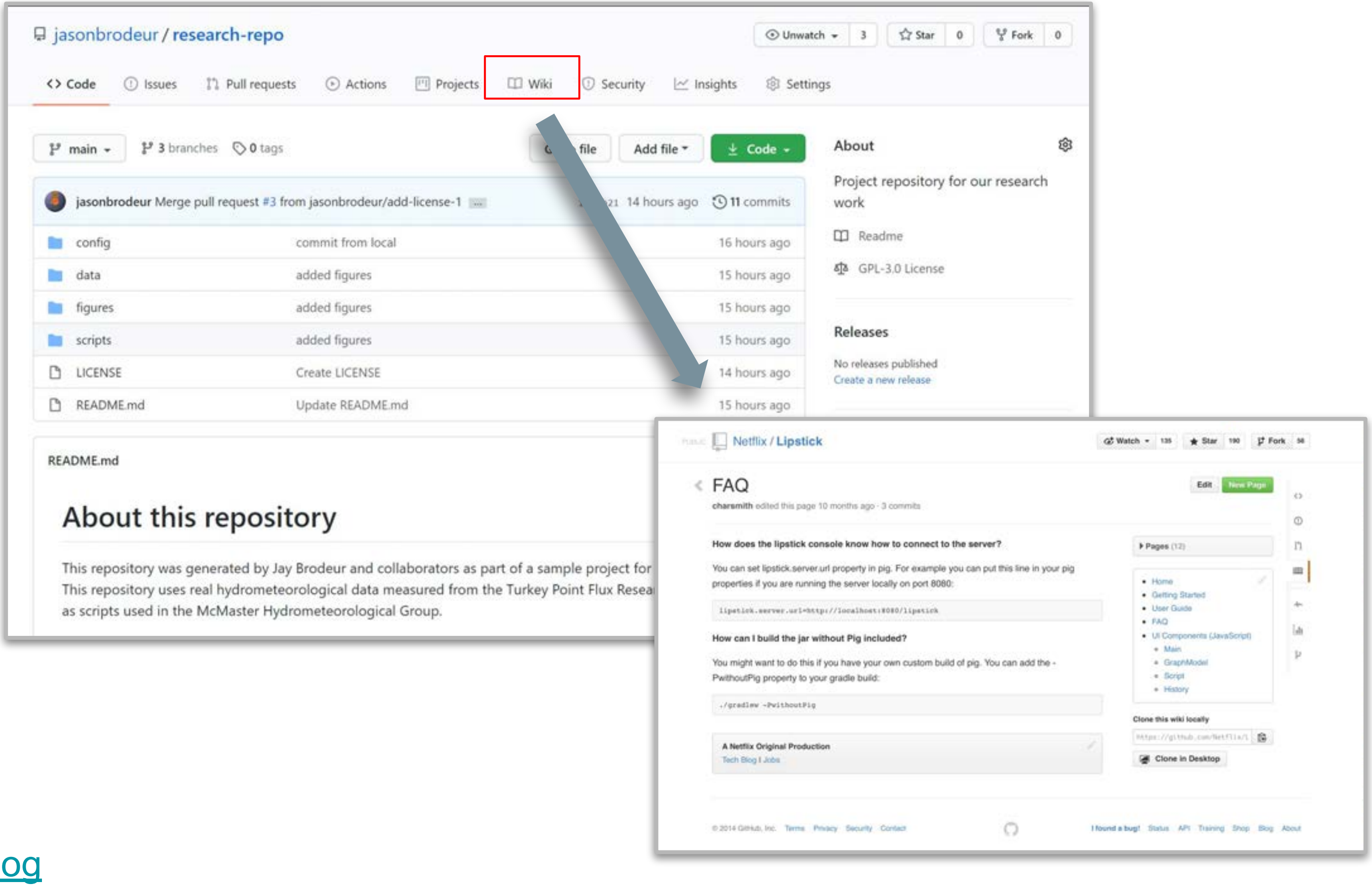
Error: Undefined variable: "$h1-size-mobile"
#229 opened by kaelig
Reference to primer/primer-css

util: use faster -0 check
3 of 3
#15726 opened by mscdex
performance util
Reference to nodejs/node

Git LFS 2.3.1 seems to break Windows
#2627 opened by larsxschneider

Image credit: [GitHub blog]

Communication & collaboration tools - Wikis



jasonbrodeur Merge pull request #3 from jasonbrodeur/add-license-1 … 14 hours ago 11 commits

config	commit from local	16 hours ago
data	added figures	15 hours ago
figures	added figures	15 hours ago
scripts	added figures	15 hours ago
LICENSE	Create LICENSE	14 hours ago
README.md	Update README.md	15 hours ago

Project repository for our research work

About this repository

This repository was generated by Jay Brodeur and collaborators as part of a sample project for
This repository uses real hydrometeorological data measured from the Turkey Point Flux Resea
as scripts used in the McMaster Hydrometeorological Group.

FAQ

charsmith edited this page 10 months ago · 3 commits

How does the lipstick console know how to connect to the server?

You can set lipstick.server.url property in pig. For example you can put this line in your pig properties if you are running the server locally on port 8080:

```
lipstick.server.url=http://localhost:8080/lipstick
```

How can I build the jar without Pig included?

You might want to do this if you have your own custom build of pig. You can add the -PwithoutPig property to your gradle build:

```
./gradlew -PwithoutPig
```

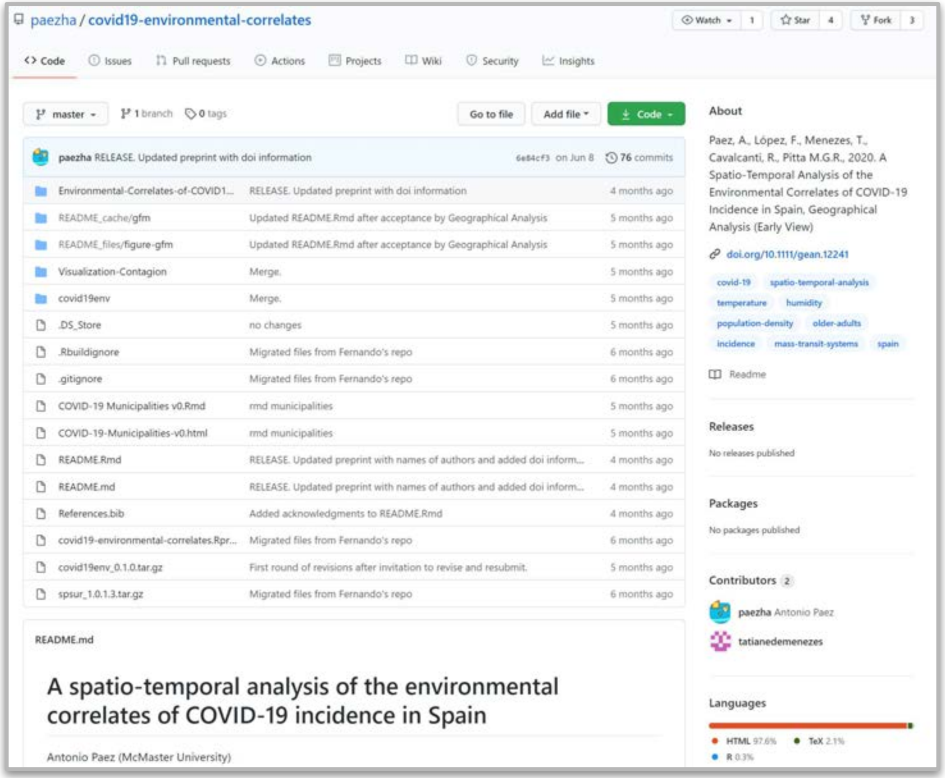
A Netflix Original Production
Tech Blog | Jobs

Image credit: GitHub blog

Markup and presentation

GitHub as the medium

Example: GitHub repository as a preprint



paezha / covid19-environmental-correlates

paezha RELEASE. Updated preprint with doi information 6e84cf3 on Jun 8 76 commits

Environmental-Correlates-of-COVID1...	RELEASE. Updated preprint with doi information	4 months ago
README_cache/gfm	Updated README.Rmd after acceptance by Geographical Analysis	5 months ago
README_files/figure-gfm	Updated README.Rmd after acceptance by Geographical Analysis	5 months ago
Visualization-Contagion	Merge.	5 months ago
covid19env	Merge.	5 months ago
.DS_Store	no changes	5 months ago
.Rbuildignore	Migrated files from Fernando's repo	6 months ago
.gitignore	Migrated files from Fernando's repo	6 months ago
COVID-19 Municipalities v0.Rmd	rmd municipalities	5 months ago
COVID-19-Municipalities-v0.html	rmd municipalities	5 months ago
README.Rmd	RELEASE. Updated preprint with names of authors and added doi inform...	4 months ago
README.md	RELEASE. Updated preprint with names of authors and added doi inform...	4 months ago
References.bib	Added acknowledgments to README.Rmd	4 months ago
covid19-environmental-correlates.Rpr...	Migrated files from Fernando's repo	6 months ago
covid19env_0.1.0.tar.gz	First round of revisions after invitation to revise and resubmit.	5 months ago
spsur_1.0.1.3.tar.gz	Migrated files from Fernando's repo	6 months ago

README.md

A spatio-temporal analysis of the environmental correlates of COVID-19 incidence in Spain

Antonio Paez (McMaster University)

About

Paez, A., López, F., Menezes, T., Cavalcanti, R., Pitta M.G.R., 2020. A Spatio-Temporal Analysis of the Environmental Correlates of COVID-19 Incidence in Spain, Geographical Analysis (Early View)

doi.org/10.1111/gean.12241

Releases

No releases published

Packages

No packages published

Contributors 2

paezha Antonio Paez

tatianedemenezes

Languages

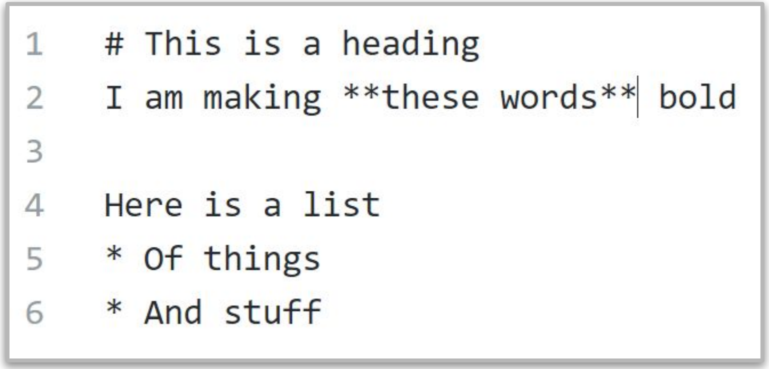
● HTML 97.6% ● TeX 2.1% ● R 0.3%

Paez, A., López, F., Menezes, T., Cavalcanti, R., Pitta M.G.R., 2020. A Spatio-Temporal Analysis of the Environmental Correlates of COVID-19 Incidence in Spain, Geographical Analysis

https://github.com/paezha/covid19-environmental-correlates

Markdown in GitHub

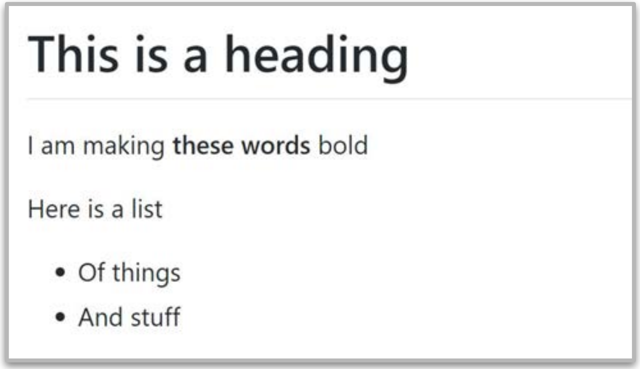
- A very lightweight markup language used by GitHub (and Reddit, and Trello)
- Improves formatting while leaving the plain document readable.
- Mostly just regular text with a few non-alphabetic characters thrown in



```
# This is a heading
I am making **these words** bold

Here is a list
* Of things
* And stuff
```

Markdown



This is a heading

I am making **these words** bold

Here is a list

- Of things
- And stuff

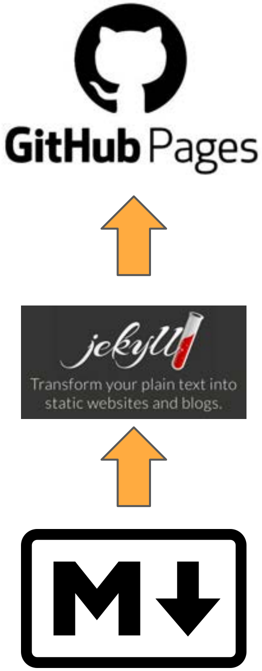
Rendered text

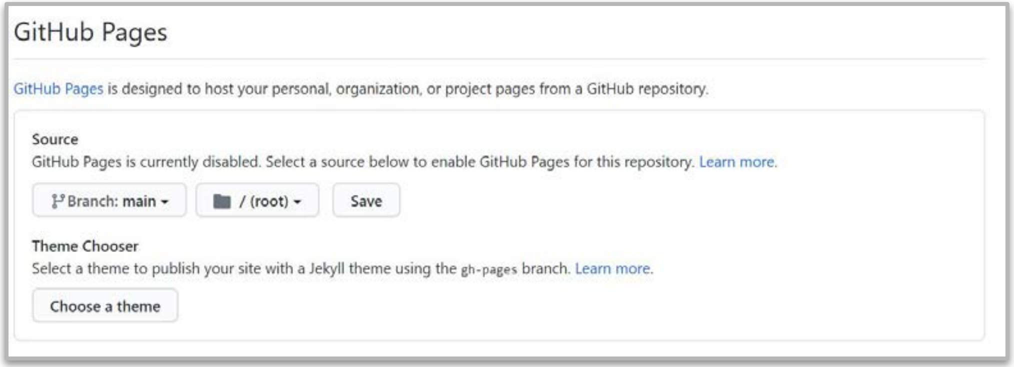
Learn more: https://guides.github.com/features/mastering-markdown/

GitHub Pages

"**GitHub Pages** is a static site hosting service that takes HTML, CSS, and JavaScript files straight from a repository on GitHub, optionally runs the files through a build process, and publishes a website."

GitHub pages also allows you to create webpages from markdown files, using a built-in software called jekyll.





GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Source

GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository. Learn more.

Theme Chooser

Select a theme to publish your site with a Jekyll theme using the `gh-pages` branch. Learn more.

Administrative Tools

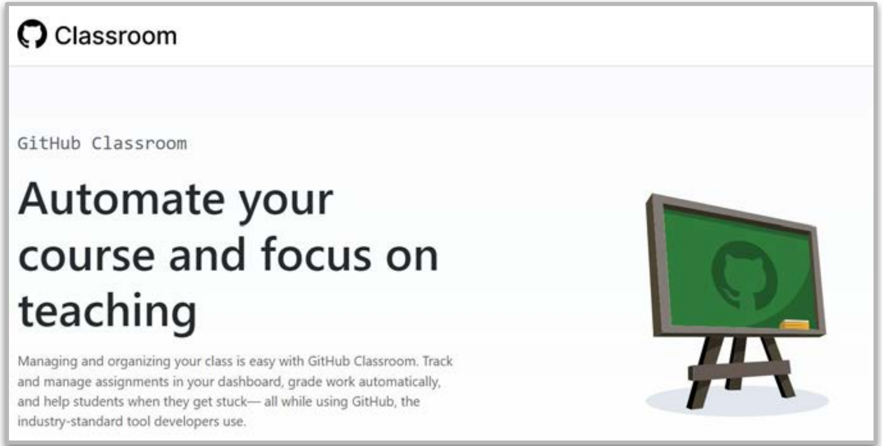
To support research & teaching

GitHub Classroom

Classroom

Tools to use GitHub for course management

- Manage students in an organization
- Create assignment repositories from templates
- Granular access management of submitted materials
- Automated management & grading



Classroom

GitHub Classroom

Automate your course and focus on teaching

Managing and organizing your class is easy with GitHub Classroom. Track and manage assignments in your dashboard, grade work automatically, and help students when they get stuck— all while using GitHub, the industry-standard tool developers use.

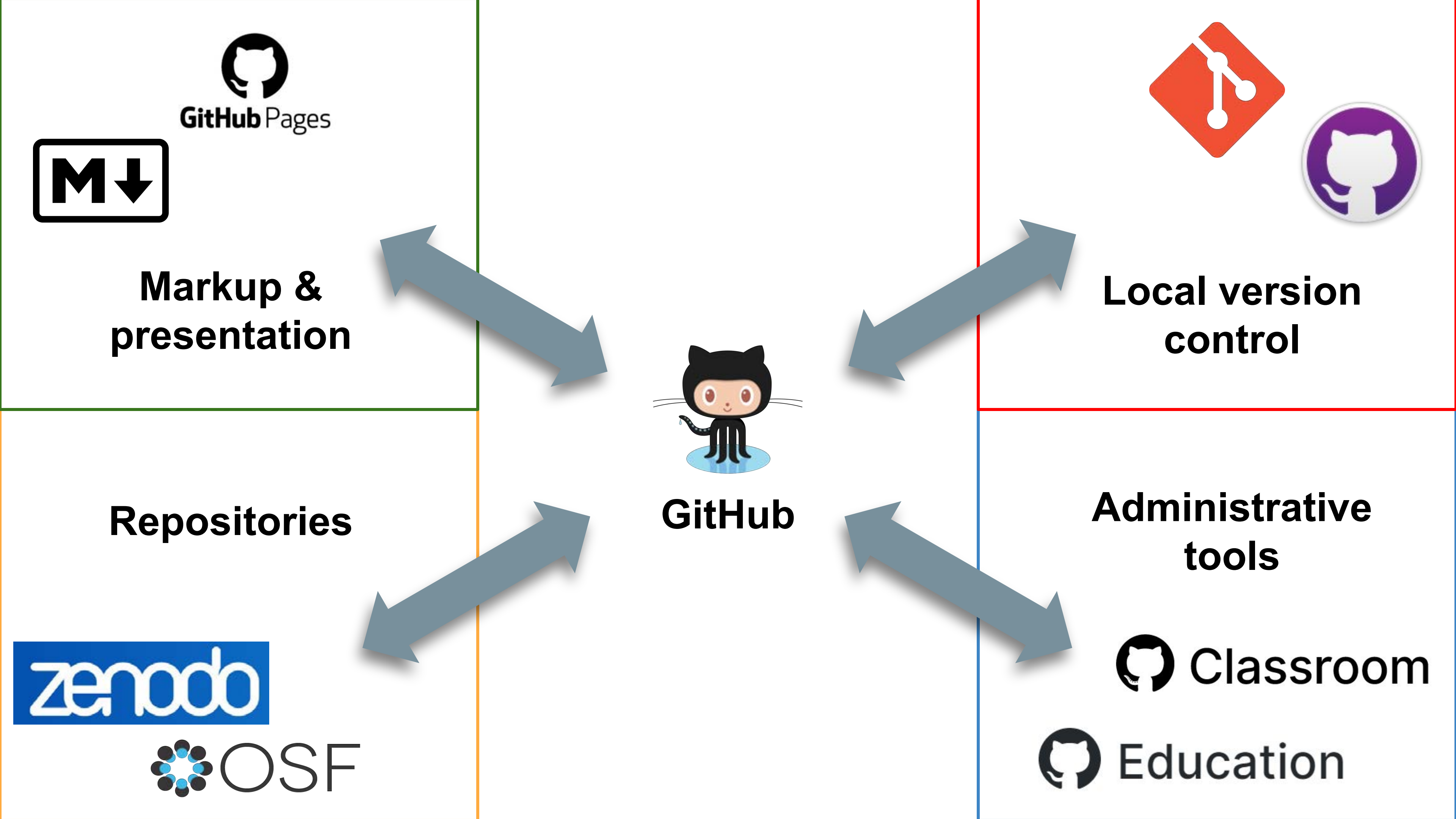
GitHub Campus Program

Education

Provides Institutional-level access to **GitHub Enterprise Cloud**, which:

- Helps institutions manage collaboration and access (including SAML single sign on and 2FA)
- Allows unlimited organizations
- Access to **GitHub Enterprise Support**
- Offers premium features (such as continuous integration)
- Provides administrators a single point of visibility and management.

education.github.com/schools



Markup & presentation

Local version control

GitHub

Repositories

Administrative tools

And again …

One more question

I would be interested in learning more about...

McMaster University
LIBRARY

How to cherry-pick select elements only from pull requests.

git on its own

version control with GitHub

GitHub classroom

command line vs. desktop github

how to start using it ? for someone working in the domain of info literacy how do I use it?

Actual implementation and training across a real research group for collaboration.

Needed to be hands on

moving repositories to an organization

Best practices for sharing/pulling/forking/pushing/etc.

more depth each area to support actual implementation to support my research work for HQP

Data-driven model

More examples of team collaboration and the logistics eg. merge requests, plus best practices?

version control and developing software

Hands on would be great!

maybe how linking content to dissertations thesis or master

Sample practical examples of pull, merge, branch, etc.

githob

I would be interested in learning more about...

McMaster University LIBRARY

A practical look at collaboration

"Case studies" - How academic research groups are currently using GitHub, and in particular what did GitHub replace for them? e.g. "we were using dropbox and just hack and bashing", etc. Also how the wiki feature works!

Hand on using github

Hands on would be good - specific topics - markdown, or gitpages etc.

Seconding more depth in each area. Mini-tutorials!

Integration with Jira and pull requests

upvoting case studies suggestion!

25

Learn more

The Git Pro book: https://git-scm.com/book/en/v2

Introduction to GitHub: https://lab.github.com/githubtraining/introduction-to-github

GitHub Guides: https://guides.github.com/

UBC Library Research Commons - Intro to git and GitHub: https://ubc-library-rc.github.io/intro-git/

Getting started with GitHub Pages: https://guides.github.com/features/pages/

GitHub Classroom: https://classroom.github.com/

GitHub Campus Program: https://education.github.com/schools