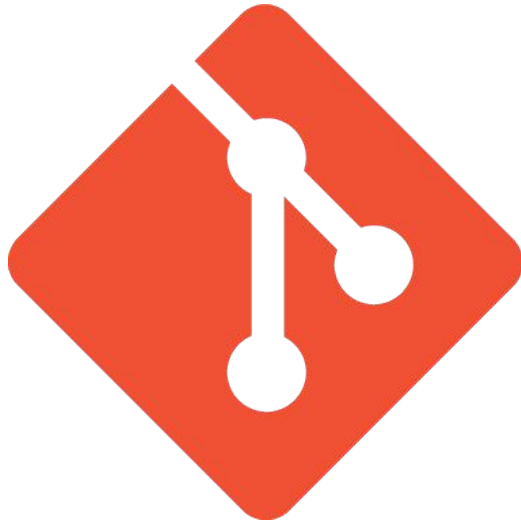


A FEW PREREQUISITES

1. Do you have a “**sandbox**” to play in?
 - ❑ Make a new folder on your laptop
2. Do you have **git** installed?
 - ❑ Check via command line: `$ git --version`
 - ❑ <https://git-scm.com/download>
3. Do you have a **github** account?
 - ❑ <https://github.com>



git

Eva J Herzog

[linkedin.com/in/evajherzog](https://www.linkedin.com/in/evajherzog)

FIRST THINGS FIRST

```
$ git --version
```

```
git version 2.14.3 (Apple Git-98)
```

Is git already
installed?

<https://git-scm.com/download>

use all the default options

Windows: Launch Git Bash

Mac: Open Terminal

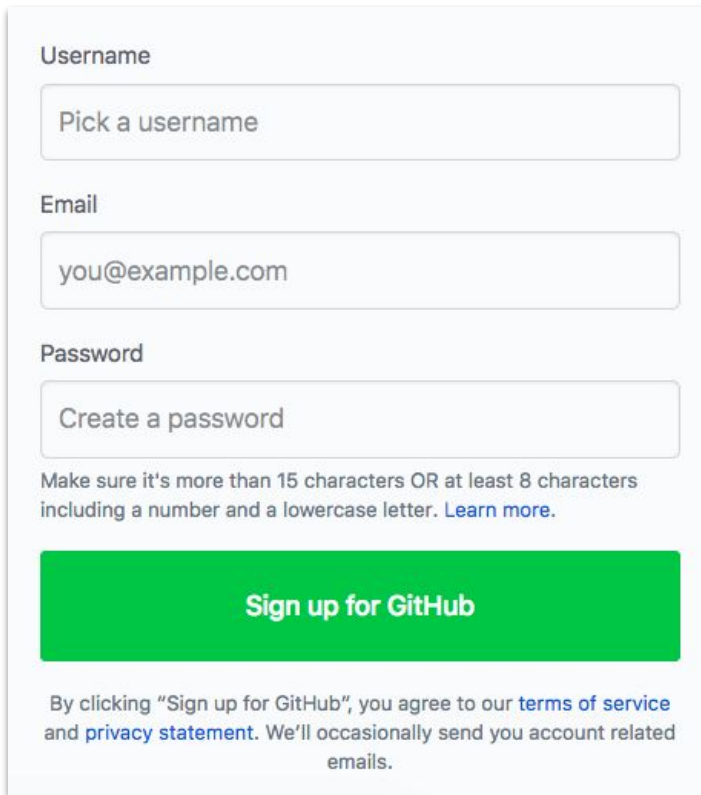
Download
& Install

SECOND THINGS SECOND

`https://github.com`

Create a github account in
order to share code with
your teammates

`https://education.github.com/pack`

A screenshot of the GitHub sign-up form. It features three input fields: 'Username' with the placeholder 'Pick a username', 'Email' with the placeholder 'you@example.com', and 'Password' with the placeholder 'Create a password'. Below the password field is a text requirement: 'Make sure it's more than 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)'. A prominent green button labeled 'Sign up for GitHub' is positioned below the text. At the bottom, a disclaimer states: 'By clicking "Sign up for GitHub", you agree to our [terms of service](#) and [privacy statement](#). We'll occasionally send you account related emails.'

VERSION CONTROL?

Management
of changes

Documents and
collections of
information

Ability to revert
mistakes

Seven Sisters (colleges): Difference between revisions

From Wikipedia, the free encyclopedia

Browse history interactively

Revision as of 15:24, 26 May 2017 (edit)

TimothyHorrigan (talk | contribs)

← Previous edit

Latest revision as of 21:40, 11 February 2019 (edit)

(undo)

BarrelProof (talk | contribs)

(MOS:INOROUT, MOS:DATEFORMAT, MOS:ALLCAPS,
MOS:APOSTROPHE, MOS:QUOTEMARKS)

(48 intermediate revisions by 29 users not shown)

Line 1:

The "'Seven Sisters'" is a **loose association** of seven [[Liberal arts colleges in the United States|liberal arts colleges]] in the [[Northeastern United States]] that are historically [[Women's colleges in the United States|women's colleges]]. **Only five** of the seven institutions continue to offer all-female undergraduate programs: **i.e.,** [[Barnard College]], [[Bryn Mawr College]], [[Mount Holyoke College]], [[Smith College]], and [[Wellesley College]]. [[Vassar College]] has been co-educational since 1969. [[Radcliffe College]] and its **all-male coordinate school** [[Harvard College]] **(both of which were part of [[Harvard University]])** effectively merged in 1977, **although Radcliffe did not take its current form as the [[Radcliffe Institute for Advanced Study]] until 1999.** [[Barnard College]] was [[Columbia University]]'s women's liberal arts undergraduate college until its all-male coordinate school [[Columbia College,

Line 1:

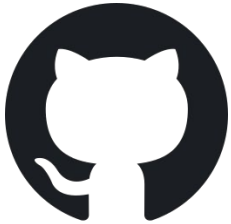
The "'Seven Sisters'" is a **name given to** seven [[Liberal arts colleges in the United States|liberal arts colleges]] in the [[Northeastern United States]] that are historically [[Women's colleges in the United States|women's colleges]]. **Five** of the seven institutions continue to offer all-female undergraduate programs: [[Barnard College]], [[Bryn Mawr College]], [[Mount Holyoke College]], [[Smith College]], and [[Wellesley College]]. [[Vassar College]] has been co-educational since 1969. [[Radcliffe College]] **shared common and overlapping history with [[Harvard College]] from the time it was founded as "the Harvard Annex" in 1879.** **Harvard and Radcliffe** effectively merged in 1977, **but Radcliffe continued to be the sponsoring college for women at Harvard until its dissolution in 1999.** [[Barnard College]] was [[Columbia University]]'s women's liberal arts undergraduate college until

WHAT IS GIT?



- Version control system
- Designed for team collaboration
- Free command line tool

WHAT IS GITHUB?



- Web-based hosting service
- Basic features available for free
- More for education/paid accounts

GETTING STARTED

List *all* files in current folder

```
$ ls -a
```

Change directory (move to a folder)

```
$ cd <subfolder>
```

What's the status of the git project?

```
$ git status
```

Initialize a new project

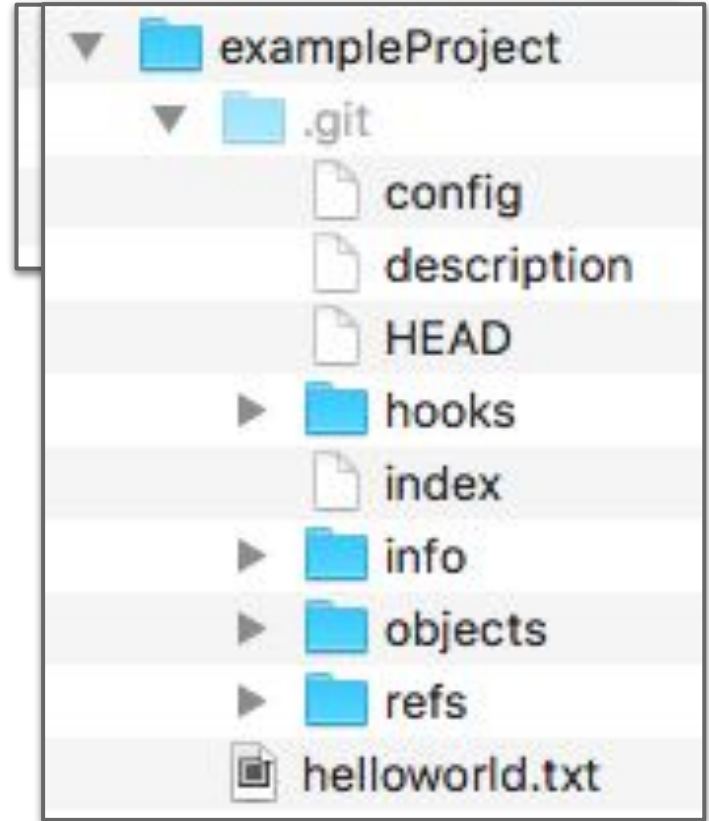
```
$ git init <project>
```

Download project and version history

```
$ git clone <url>
```

WHAT JUST HAPPENED?!

- Initialized a project
- Created a file
- Edited the file
- Saved the file
- *Staged* the file
- “On branch master”?



WHAT'S NEXT?

Look through history of the project

Take a snapshot of the current work

What's changed since last commit?

```
$ git log
```

```
$ git commit -m <msg>
```

```
$ git diff (--staged)
```

QUICK DETOUR!

Mac:

```
$ git config --global core.editor "open -W -n"
```

Windows:

```
$ git config --global core.editor notepad
```

Changing the default git editor will allow us to avoid editing text files with things like vi, vim, emacs.

WHAT'S NEXT?

Look through history of the project

Take a snapshot of the current work

What's changed since last commit?

Creates a new commit, records in log

Undoes later commits, keeps changes

```
$ git log
```

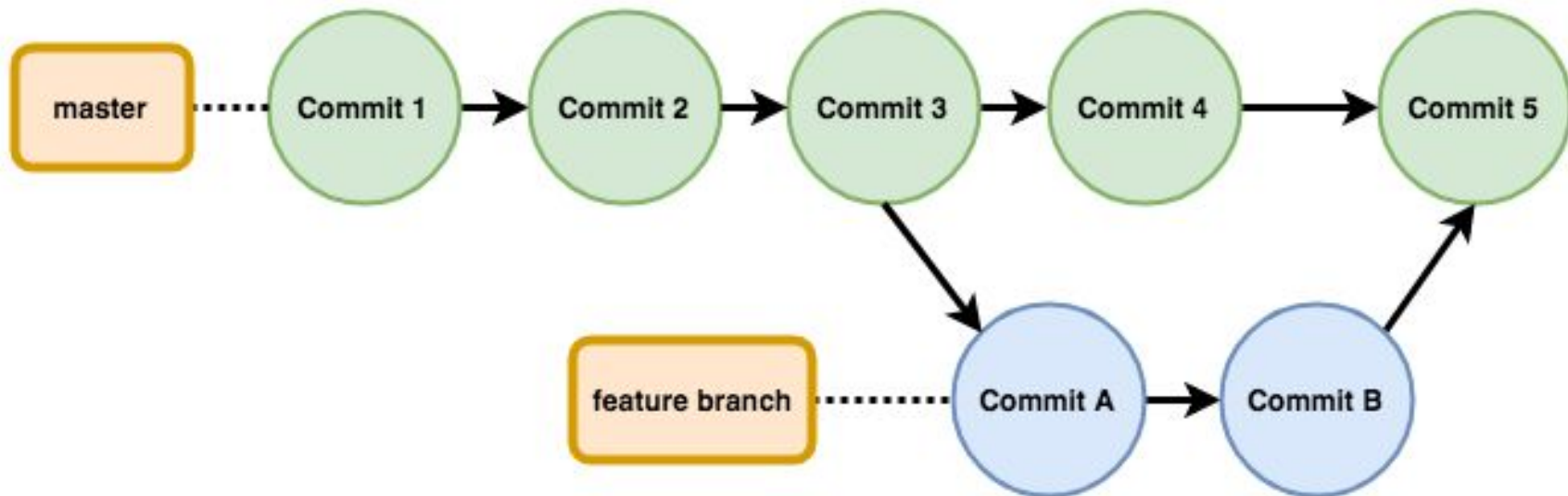
```
$ git commit -m <msg>
```

```
$ git diff (--staged)
```

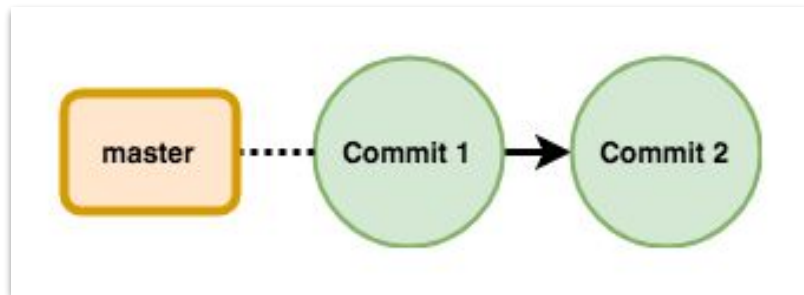
```
$ git revert <commit>
```

```
$ git reset <commit>
```

BRANCHES



WHAT'S NEXT?



List out all the branches

```
$ git branch
```

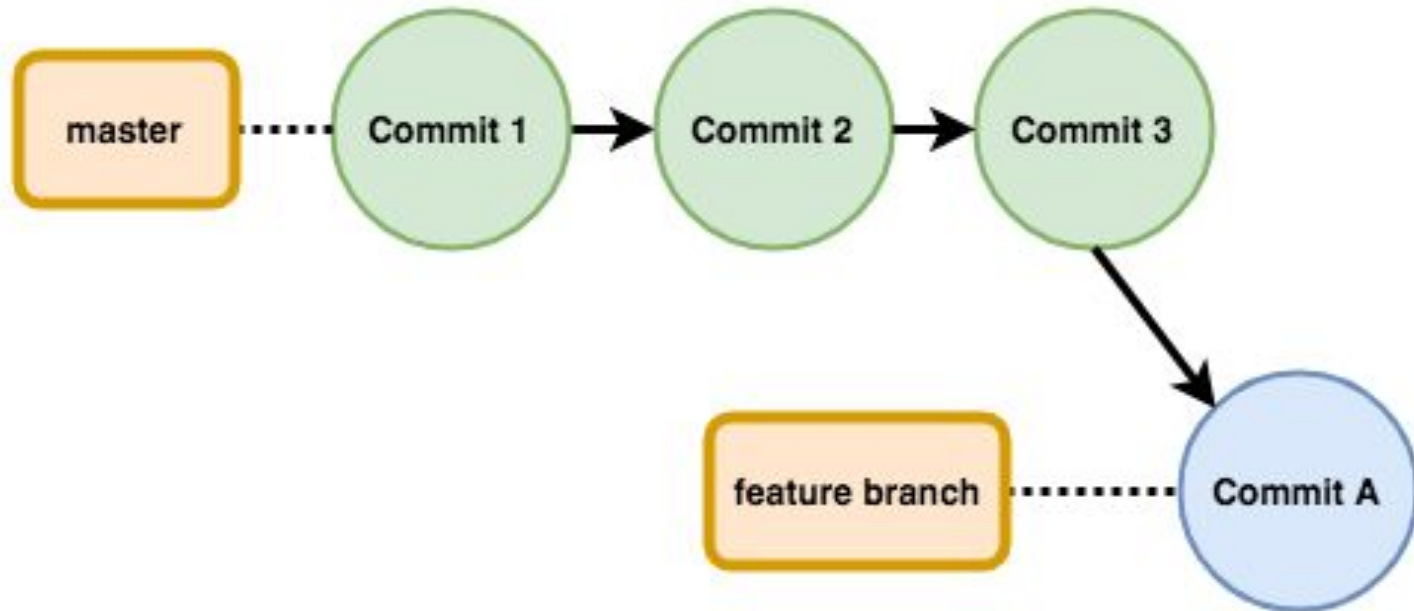
Switch to the named branch

```
$ git checkout (-b) <name>
```

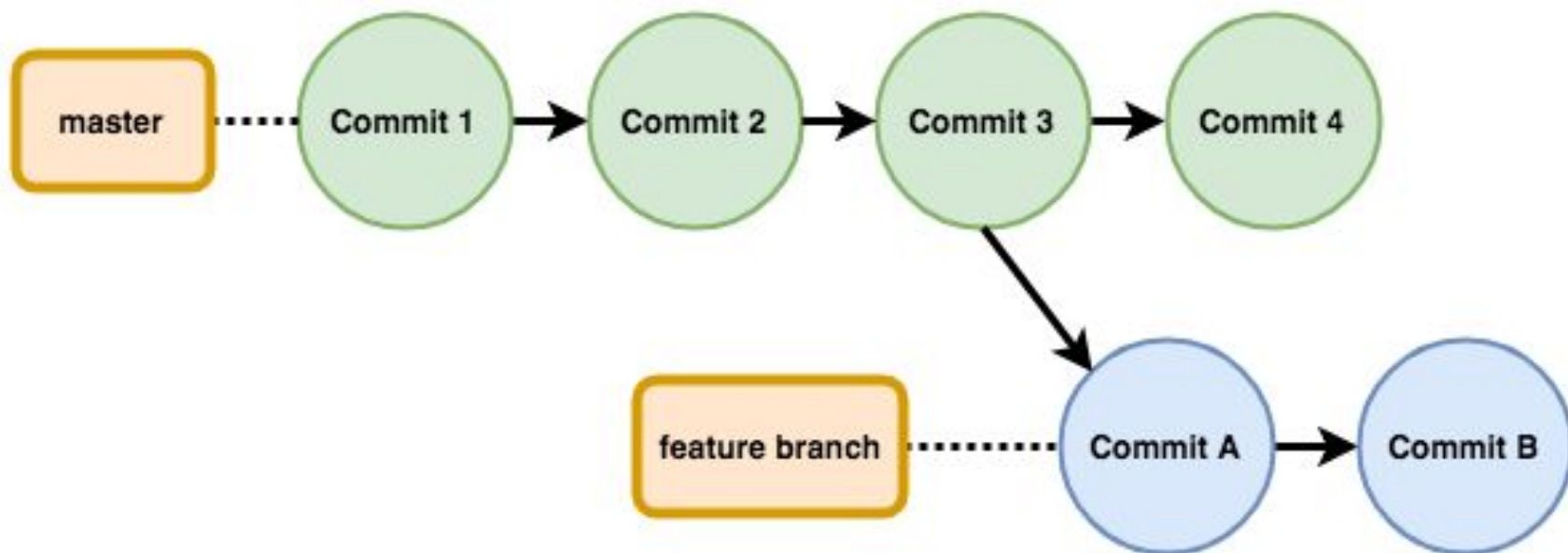
Merge into current branch

```
$ git merge <name>
```

BRANCHES

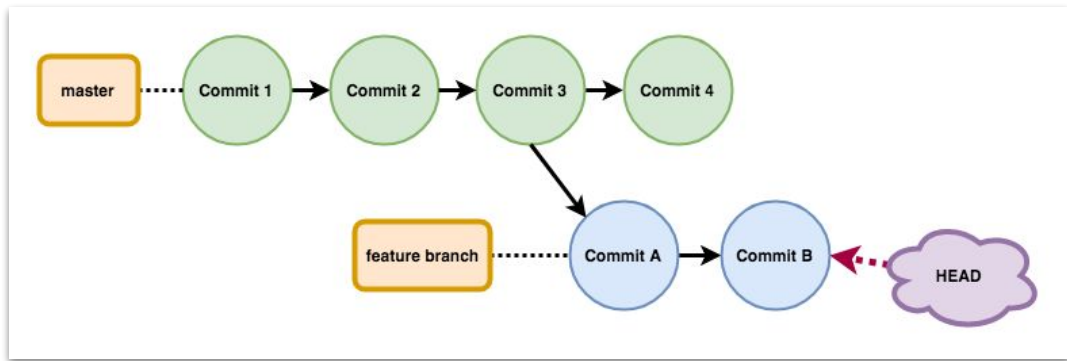
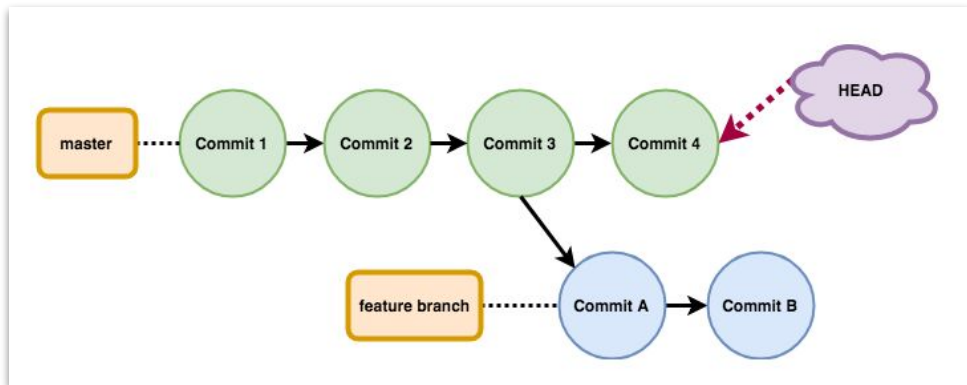


BRANCHES



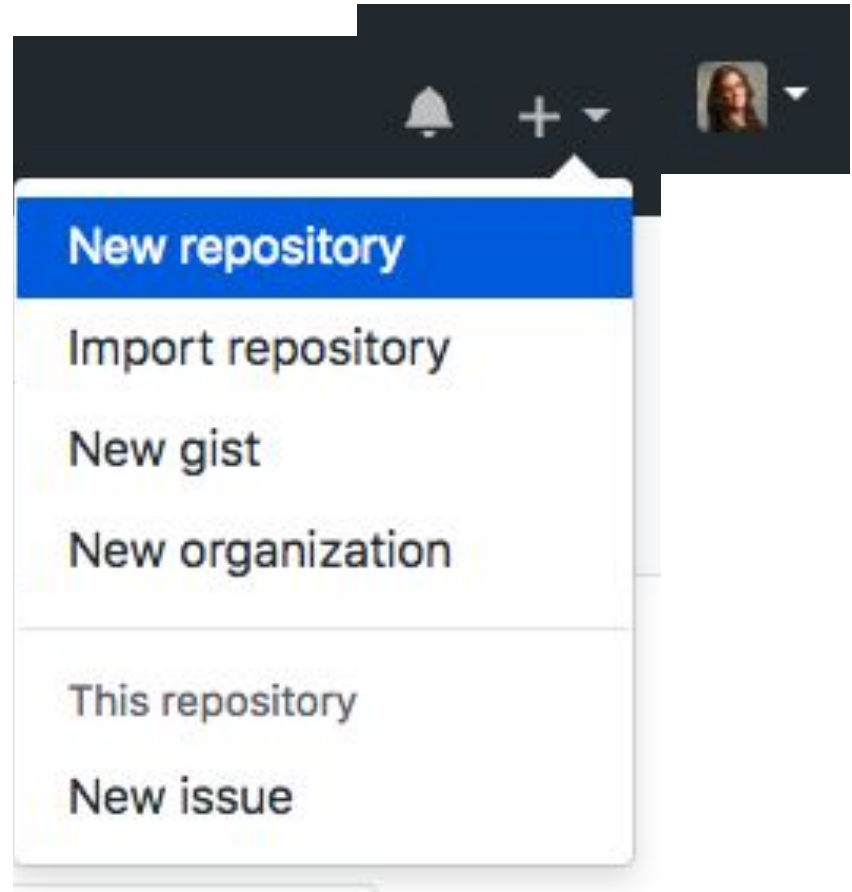
TERMINOLOGY: HEAD

- Symbolic reference
- Last known state of working directory
- Parent of your next commit



LET'S COLLABORATE!

- Go to github.com
- Choose 1 team member (ONLY 1) who will create a new repository
- Use the + in the upper right corner



LET'S COLLABORATE!

Create a new repository

A repository contains all project files, including the revision history.

Owner



ejherzog ▾

/

Repository name *

sister_hacks



Great repository names are short and memorable. Need inspiration? How about **fantastic-train**?

Description (optional)

Sample Project



Public

Anyone can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

LET'S COLLABORATE!



Public

Anyone can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.



Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None** ▼

Add a license: **None** ▼



Create repository

LET'S COLLABORATE!

 ejherzog / sisterHacks

 Watch ▾

0

 Star

0

 Fork

0

 Code

 Issues 0

 Pull requests 0

 Projects 0

 Wiki

 Insights

 Settings

Options

Collaborators

Branches

Webhooks

Notifications

Integrations & services

Deploy keys

Collaborators

Push access to the repository

This repository doesn't have any collaborators yet. Use the form below to add a collaborator.

Search by username, full name or email address

You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead.

Add collaborator

LET'S COLLABORATE!

- Go to `github.com/<username>/<repositoryName>`
- Click green 'Clone or Download' button
- Copy URL to clipboard
- `$ git clone <URL>`
- `$ cd <repositoryName>`

DO SOME BRANCH WORK

- `$ git pull`
- `$ git status`
- `$ git checkout -b <yourname>`
- Create at least one new file (.txt, .csv, .md, .py)
- `$ git add .`
- `$ git commit -m "<meaningful message>"`

WHERE ARE YOUR CHANGES?

- `$ git status`
- Look at the github page for your repo: no branches??
- `$ git pull`
- `$ git push`
- `$ git push --set-upstream origin <branch>`
- Look back at the github page for your repo

PUSHING AND PULLING

Get remote updates to local machine

```
$ git fetch
```

git fetch + incorporate those changes

```
$ git pull
```

Upload all local branches to Github

```
$ git push
```

```
$ git push --set-upstream origin <branch name>
```

Push a local branch to the remote repo for the first time

MERGE YOUR CHANGES

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).



base: master ▾



compare: caturday ▾

✓ **Able to merge.** These branches can be automatically merged.



added caturday drawing to README.md

Write

Preview

AA B i



Leave a comment

Reviewers



No reviews

Assignees



Assign up to 10 people to this pull request

Filter people



ejherzog Eva J Herzog

Projects



LAST WORDS OF WISDOM

- ❖ About to push changes? Pull first.
- ❖ Trying out an idea? Create a new branch.
- ❖ Avoid erasing history. Leave the evidence.
- ❖ “Take chances, make mistakes, & get messy!”

-Ms. Frizzle

SOURCES

1. Git Logos: Jason Long [CC BY 3.0 (<https://creativecommons.org/licenses/by/3.0>)]
2. Seven Sisters Page History: [https://en.wikipedia.org/wiki/Seven_Sisters_\(colleges\)](https://en.wikipedia.org/wiki/Seven_Sisters_(colleges))
3. Github Logo: GitHub [MIT (<http://opensource.org/licenses/mit-license.php>)]
4. Branch diagrams: Eva Herzog using draw.io