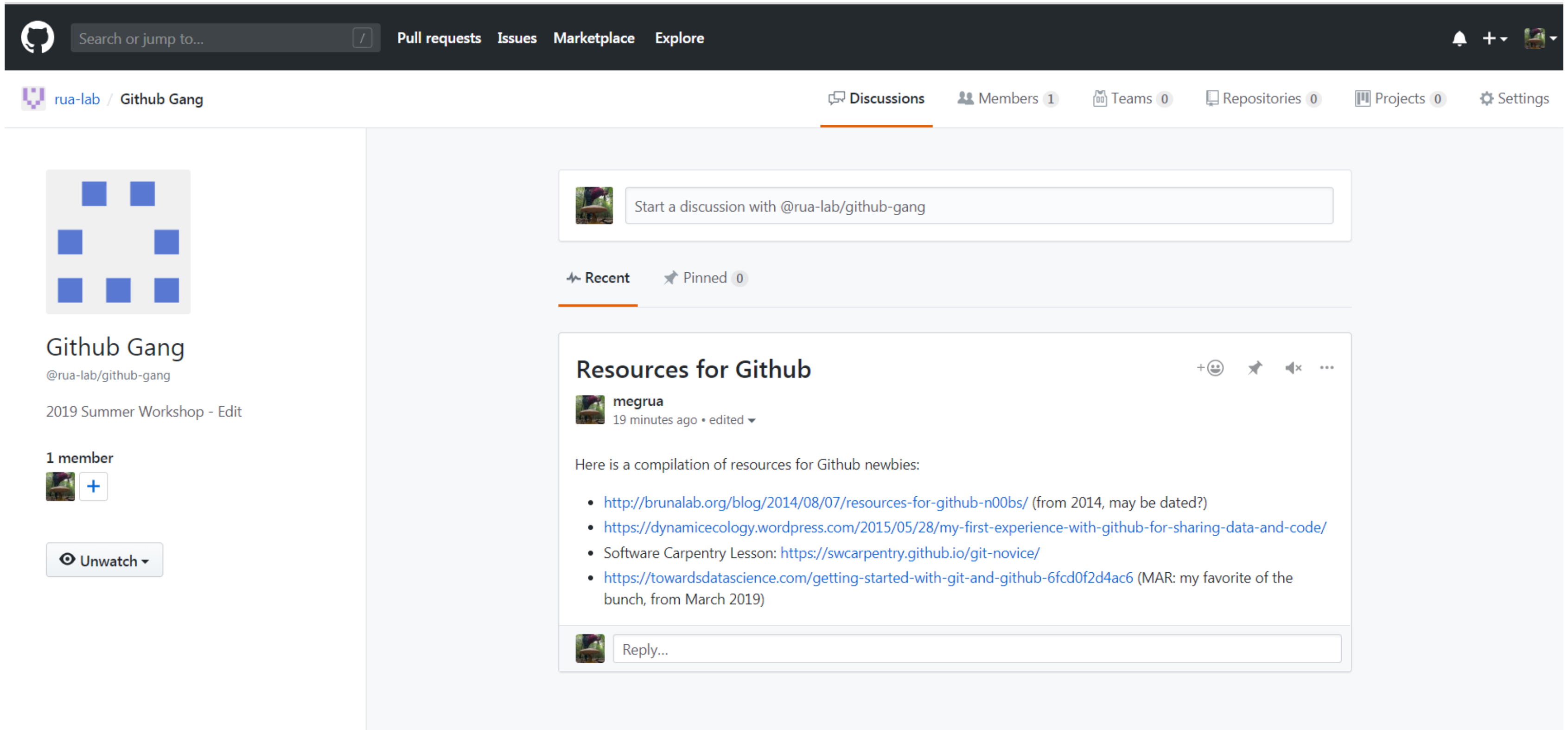
Intro to Github

- **Git** – version control tech
- **GitHub** - social code-hosting platform that’s currently used more than any other
  - Others - Bitbucket



Resources for Github

megrua
19 minutes ago • edited

Here is a compilation of resources for Github newbies:

- http://brunalab.org/blog/2014/08/07/resources-for-github-n00bs/ (from 2014, may be dated?)
- https://dynamicecology.wordpress.com/2015/05/28/my-first-experience-with-github-for-sharing-data-and-code/
- Software Carpentry Lesson: https://swcarpentry.github.io/git-novice/
- https://towardsdatascience.com/getting-started-with-git-and-github-6fcd0f2d4ac6 (MAR: my favorite of the bunch, from March 2019)

Step 1: Sign up and installation!

- Sign up for a **Github** account
- Install **Git**
  - https://git-scm.com/downloads
- Open terminal and set your username on your computer

git config --global user.name “<your_name_here>”

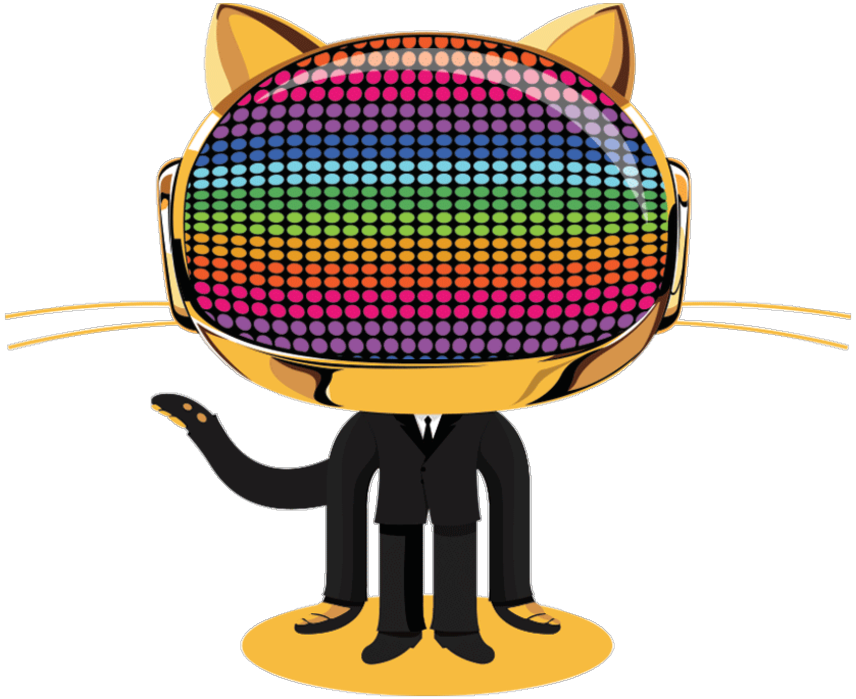
If you want to set your name for just one repository, leave out the word “global.”

- Tell Git your email, and make sure it’s the same email you used when you signed up for GitHub

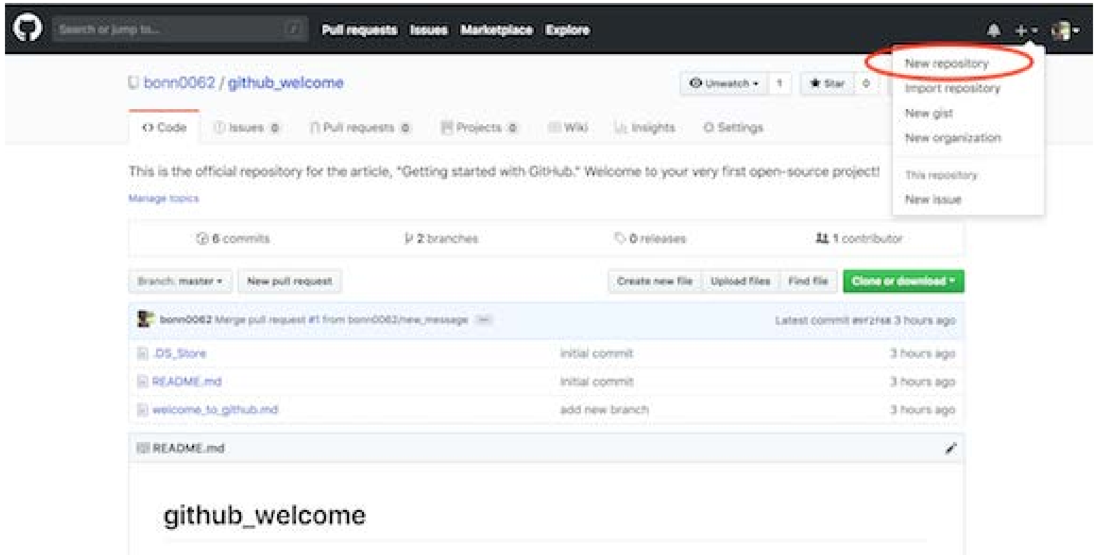
git config --global user.email “<your_email@email.com>”

(website interface)

- **Repository** - where you'll organize your project
  - folders, files, images, videos, spreadsheets, Jupyter notebooks, data sets, and anything else your project needs
  - Need to initialize and set it up BEFORE **Git** will manage it
  - Always include a README file with info about the project



- Go to the GitHub website, look in the upper right corner, and click the + sign and then click “New repository.”
- Name the repository, and add a quick description.
- Decide whether you want this to be a public or a private repository
- Click “Initialize this repository with a README” if you want to include the README file.



bonn0062 / github_welcome

This is the official repository for the article, "Getting started with GitHub." Welcome to your very first open-source project!

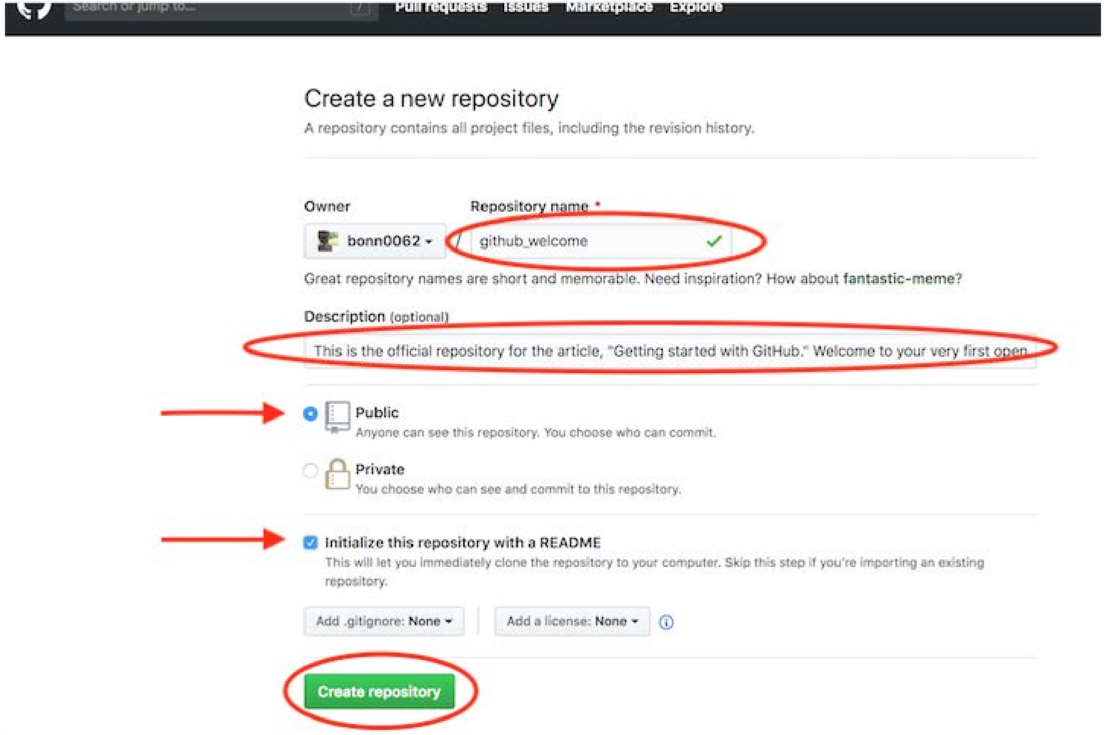
6 commits · 2 branches · 0 releases · 1 contributor

bonn0062 Merge pull request #1 from bonn0062/new_message · Latest commit [illegible] 3 hours ago

.DS_Store	initial commit	3 hours ago
README.md	initial commit	3 hours ago
welcome_to_github.md	add new branch	3 hours ago

README.md

github_welcome



Create a new repository

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

Owner: bonn0062 / Repository name *: github_welcome

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

Description (optional): This is the official repository for the article, "Getting started with GitHub." Welcome to your very first open

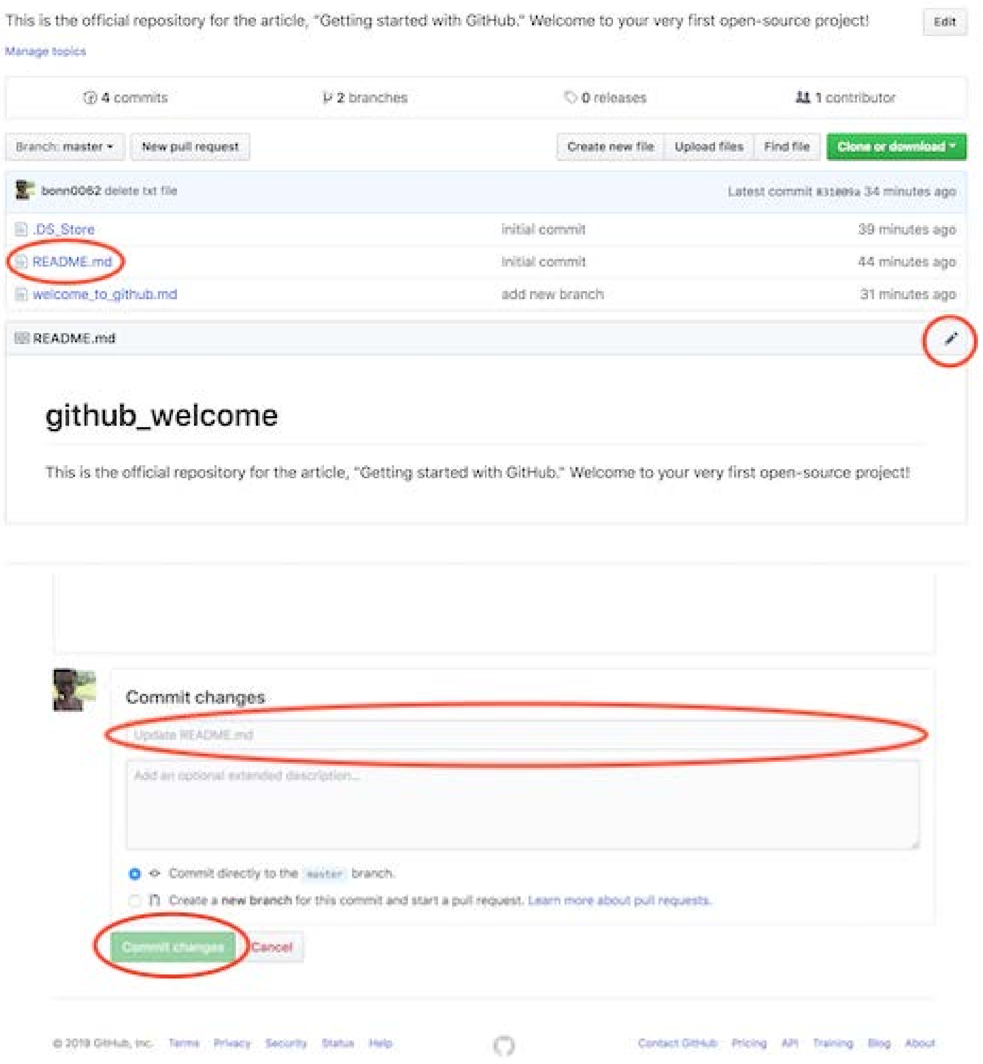
● Public
Anyone can see this repository. You choose who can commit.

○ 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.

Making Edits

- Directly on **Github**
  - Open repository
  - Click on the name of the file and bring up that file
  - Click the pencil icon in the upper right corner of the file and make some changes.
  - Write a short message in the box that describes the changes you made (and an extended description if you want).
  - Click the “Commit changes” button.



This is the official repository for the article, "Getting started with GitHub." Welcome to your very first open-source project!

bonn0062 delete txt file — Latest commit [illegible] 34 minutes ago

.DS_Store	initial commit	39 minutes ago
README.md	initial commit	44 minutes ago
welcome_to_github.md	add new branch	31 minutes ago

README.md

github_welcome

This is the official repository for the article, "Getting started with GitHub." Welcome to your very first open-source project!

Commit changes

Update README.md

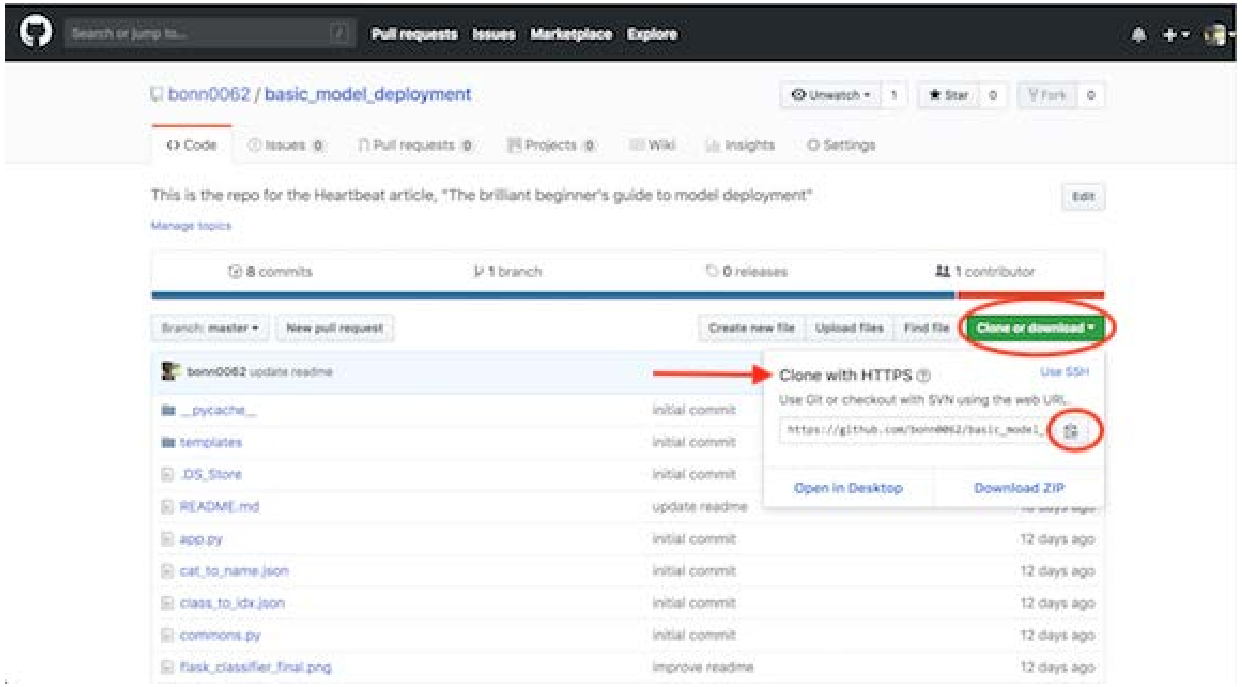
Add an optional extended description...

● Commit directly to the `master` branch.

○ Create a **new branch** for this commit and start a pull request. Learn more about pull requests.

Working with repositories

- **clone a repository** onto your computer -> go to the repository on the GitHub website and click the big green button that says *“Clone or download.”*
- **Make sure it says “Clone with HTTPS.”**
- Click the clipboard icon to copy and paste it to your clipboard (or highlight that link and copy it).



This is the repo for the Heartbeat article, "The brilliant beginner's guide to model deployment"

bonn0062 update readme

pycache	initial commit	
templates	initial commit	
.DS_Store	initial commit	
README.md	update readme	[illegible]
app.py	initial commit	12 days ago
cat_to_name.json	initial commit	12 days ago
class_to_idx.json	initial commit	12 days ago
commons.py	initial commit	12 days ago
flask_classifier_final.png	improve readme	12 days ago

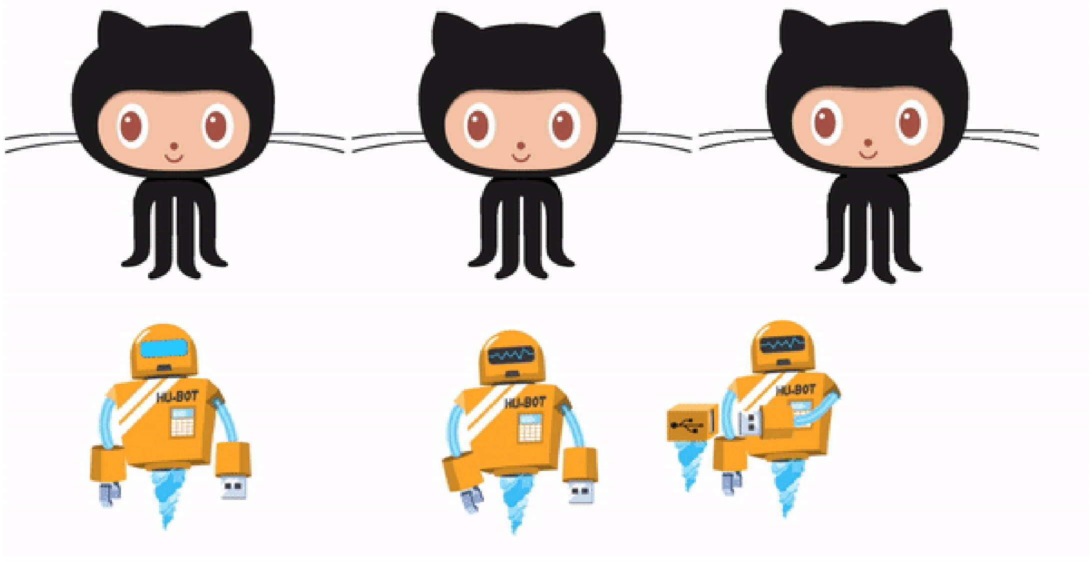
Working with repositories

- Open your terminal and go to the place where you want to save your repository

```
cd Desktop
```

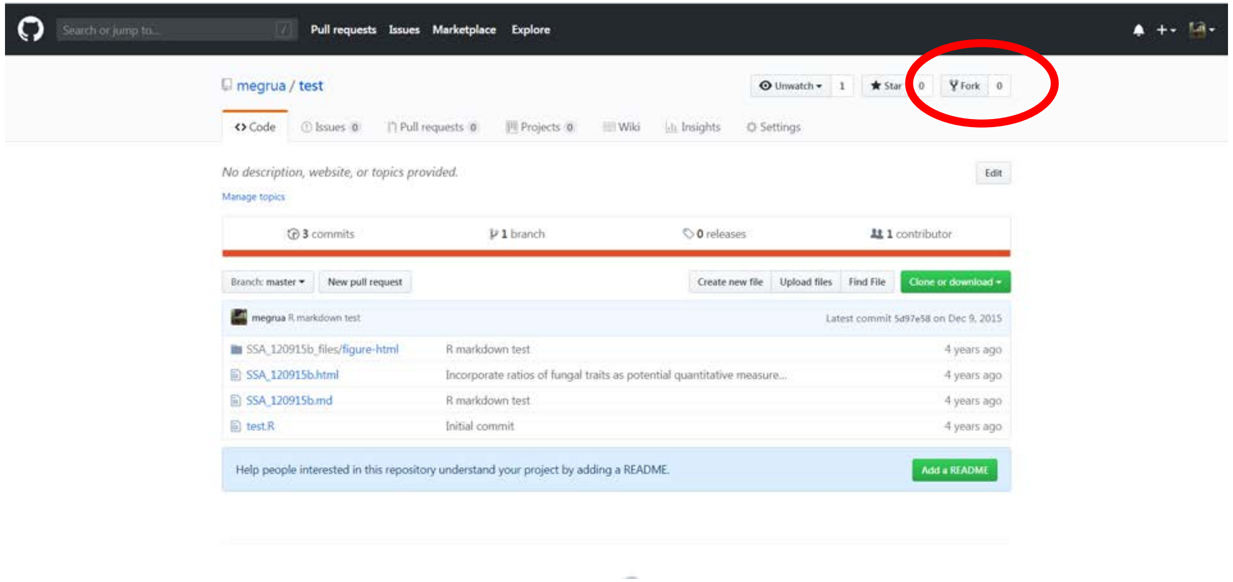
- To clone the repository:

```
git clone
<that_thing_you_just_copied>
```



Working with repositories

- If you want to modify the repository without changing the original, you can **fork** it on the **Github** website



No description, website, or topics provided.

megrua R markdown test — Latest commit 5d97e58 on Dec 9, 2015

SSA_120915b_files/figure-html	R markdown test	4 years ago
SSA_120915b.html	Incorporate ratios of fungal traits as potential quantitative measure...	4 years ago
SSA_120915b.md	R markdown test	4 years ago
test.R	Initial commit	4 years ago

Help people interested in this repository understand your project by adding a README.

Adding files to repositories

- Find your files and drag and drop them into the new folder for the repository that you created on your desktop
- In your terminal, navigate to the folder for your repository

cd test

- Check the status of the folder to see if everything is up to date

git status

- To add one file:

git add “<filename>”

- You add everything with:

git add --all OR *git add .*

NOTE: You’re not actually changing anything yet, just bringing new files and changes to Git’s attention

Adding files to repositories

- When you save a change, that’s called a commit.
- When you make a commit, you’ll include a message about what you changed and/or why you changed it. This is a great way to let others know what you’ve changed and why.
- To commit changes to the HEAD (local) repository:

git commit --m “<commit message>”

- To send the change to the remote (Github) repository:

git push