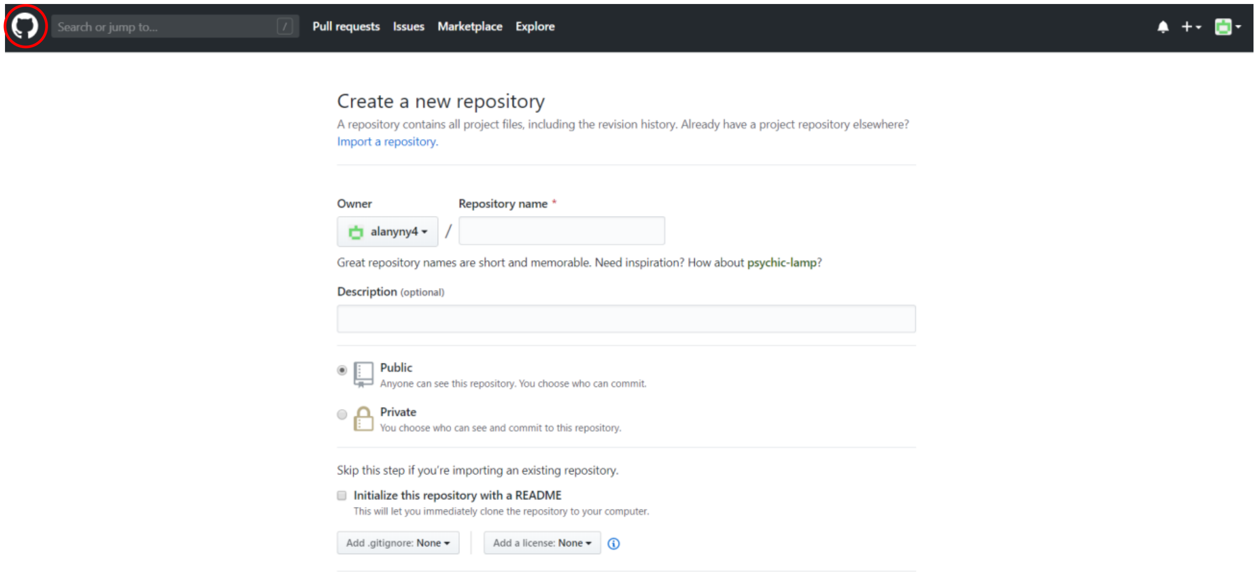
Guide to Using GitHub

This is a introductory guide to using GitHub and a user-friendly interface for working with GitHub – GitHub Desktop.

1) Signing up for GitHub

1. Sign up for a GitHub account: https://github.com/
    1) Sign up for the Free plan
    2) Verify email

2. After you verify your email, you will see this page:



Create a new repository

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

Owner: alanyny4 / Repository name *

Great repository names are short and memorable. Need inspiration? How about psychic-lamp?

Description (optional)

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

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

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

□ Initialize this repository with a README
This will let you immediately clone the repository to your computer.

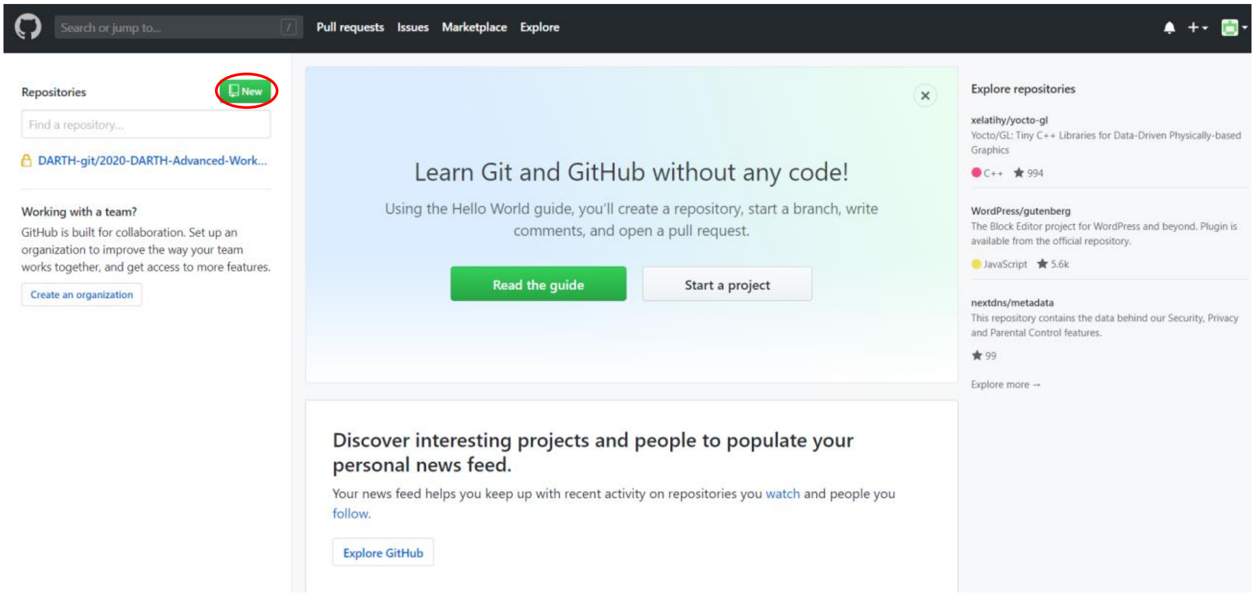
Add .gitignore: None | Add a license: None

Do not create a new repository. Simply click the GitHub icon on the top-left corner (circled in red in the picture).

***Steps 1 and 2 should only be done when you first sign up for GitHub*

2) Creating your own GitHub repository

1. Click the GitHub icon at the top-left corner again. This brings you to your GitHub homepage. Click the “New” button to create your own repository for the workshop. This is where you submit your data and R code for us to review.



Working with a team?

GitHub is built for collaboration. Set up an organization to improve the way your team works together, and get access to more features.

Learn Git and GitHub without any code!

Using the Hello World guide, you’ll create a repository, start a branch, write comments, and open a pull request.

Discover interesting projects and people to populate your personal news feed.

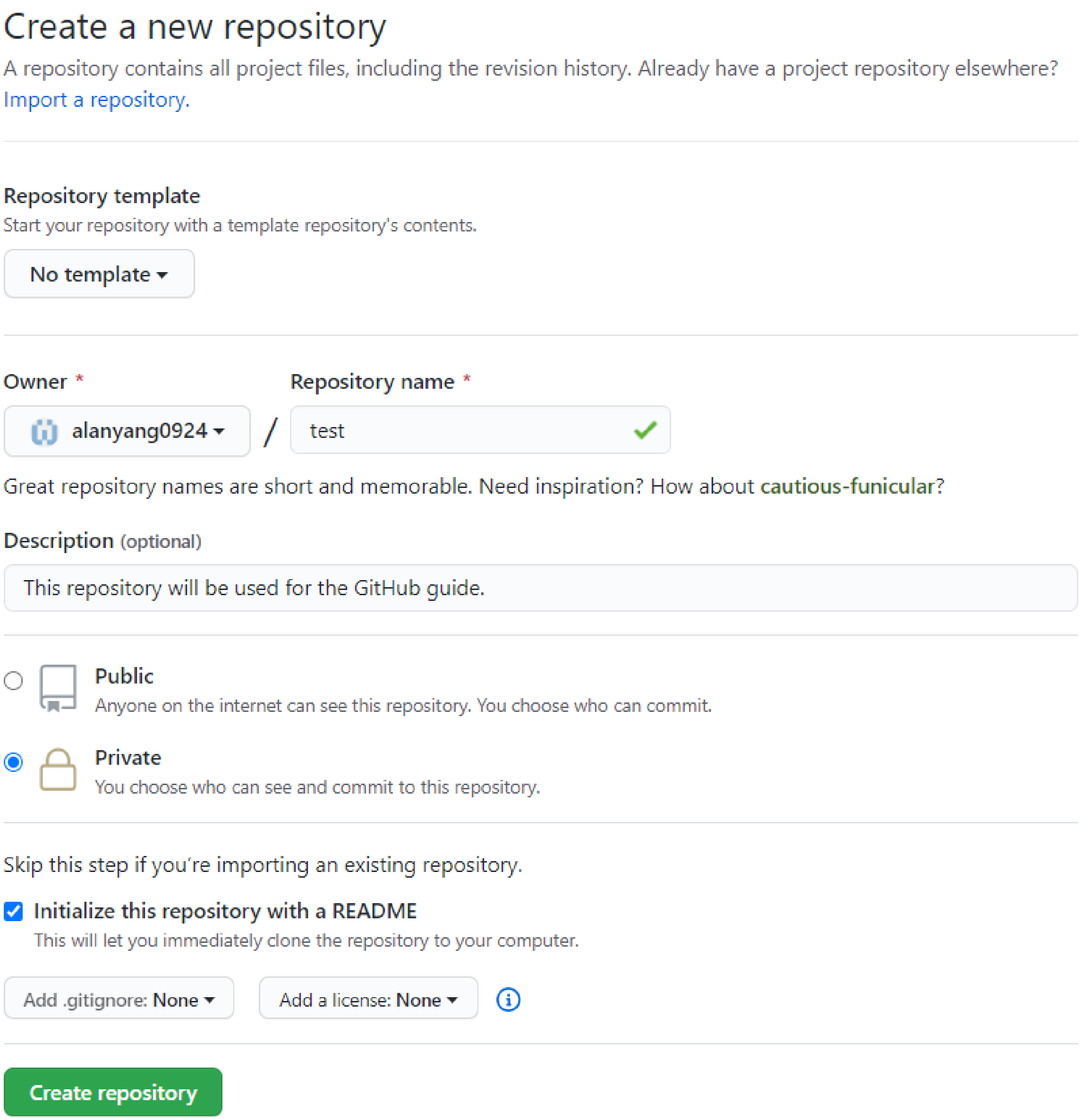
Your news feed helps you keep up with recent activity on repositories you watch and people you follow.

Yocto/GL: Tiny C++ Libraries for Data-Driven Physically-based Graphics

The Block Editor project for WordPress and beyond. Plugin is available from the official repository.

This repository contains the data behind our Security, Privacy and Parental Control features.

2. Create the repository as follows:



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 * alanyang0924 / Repository name * test ✓

Great repository names are short and memorable. Need inspiration? How about cautious-funicular?

Description (optional)

This repository will be used for the GitHub guide.

○ 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.

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

☑ Initialize this repository with a README

This will let you immediately clone the repository to your computer.

Add .gitignore: None

Add a license: None

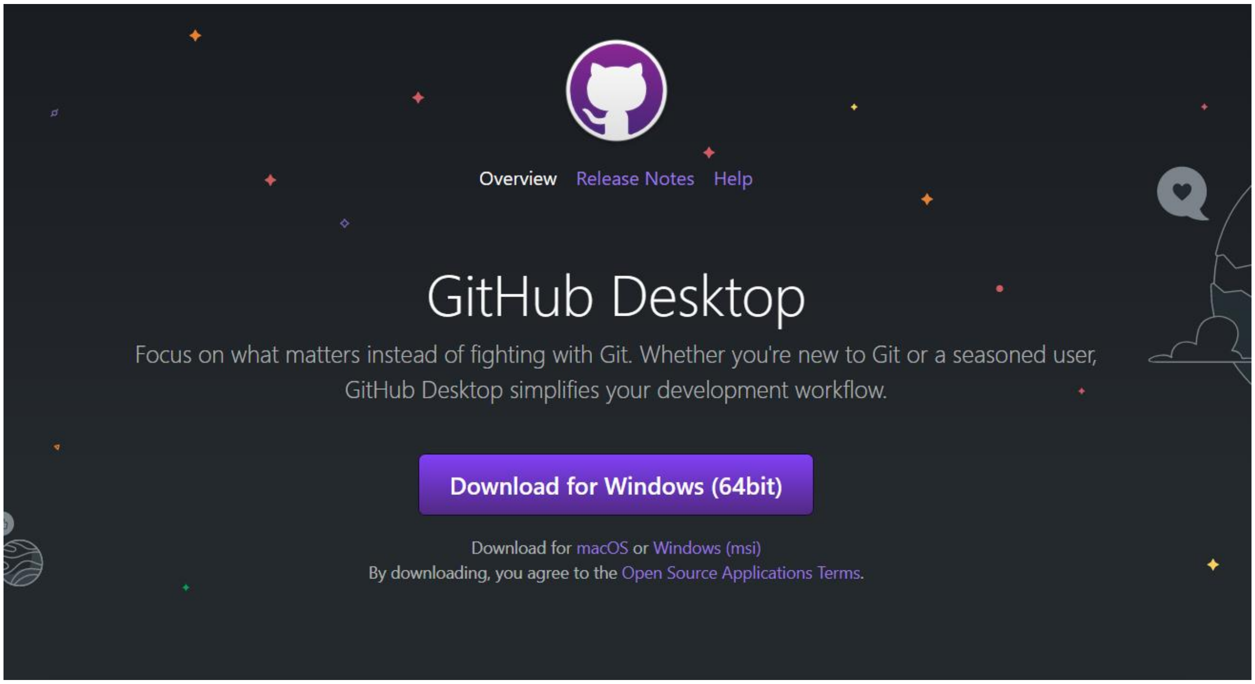
1) Name your repository. In this demo, I named it "DARTH Advanced Workshop firstname lastname"
2) Add a description if you want
3) Make the repository private (or public). We recommend making it private for your team/yourself when you start a project. When it is ready for public release, you can change the setting to 'public'.

4) Initialize it with a README. This makes sure the description is added.

3) Using GitHub Desktop

1. Now, we will move away from the GitHub website to install GitHub Desktop, a super user-friendly interface for GitHub. Navigate to: https://desktop.github.com/

2. You do not need to sign up for a GitHub Desktop account, you can log in with your GitHub account later. Simply download and install the software.

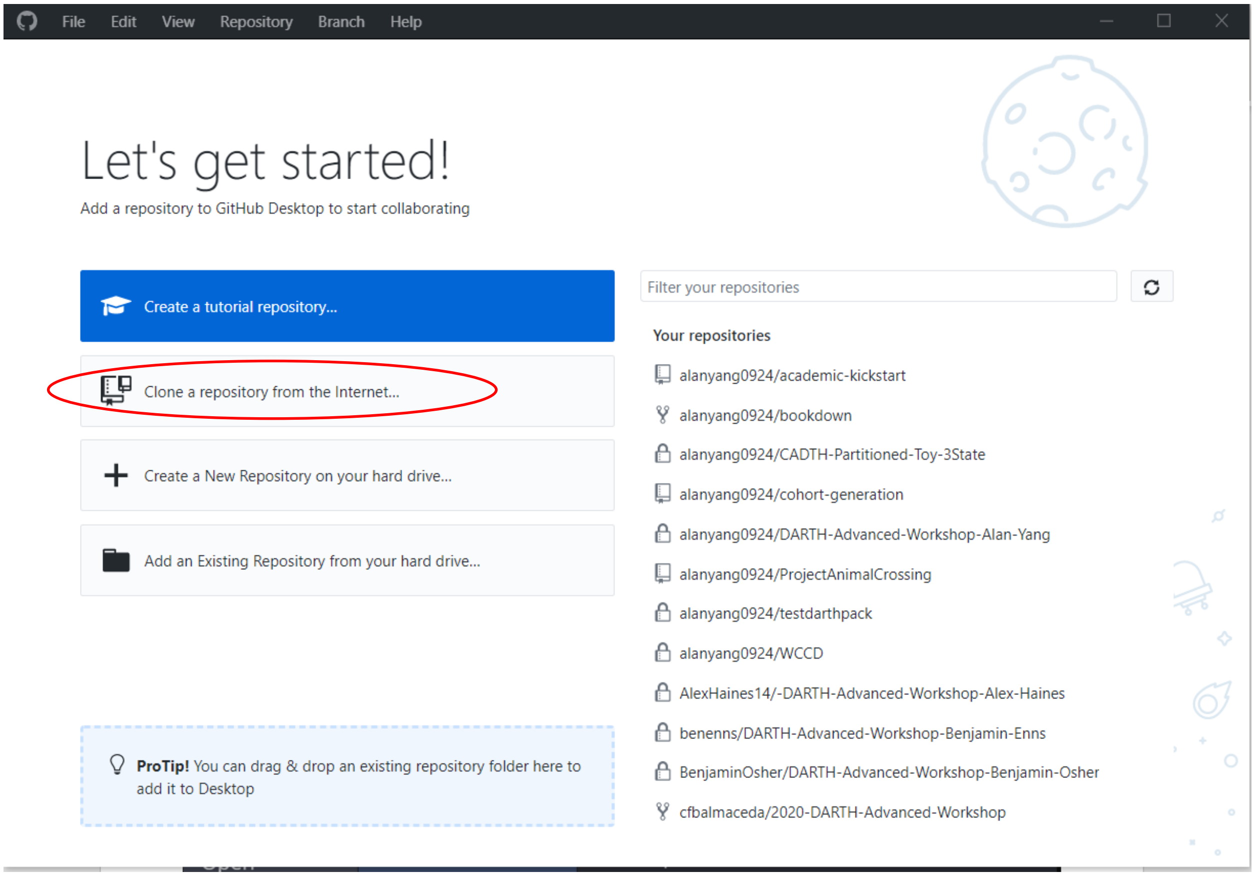


GitHub Desktop

Focus on what matters instead of fighting with Git. Whether you're new to Git or a seasoned user, GitHub Desktop simplifies your development workflow.

Download for macOS or Windows (msi)
By downloading, you agree to the Open Source Applications Terms.

3. Open the software and choose to sign in with GitHub. Then you will see:


File
Edit
View
Repository
Branch
Help
Create a tutorial repository...
Clone a repository from the Internet...
Create a New Repository on your hard drive...
Add an Existing Repository from your hard drive...
Filter your repositories

Let's get started!

Add a repository to GitHub Desktop to start collaborating

ProTip! You can drag & drop an existing repository folder here to add it to Desktop

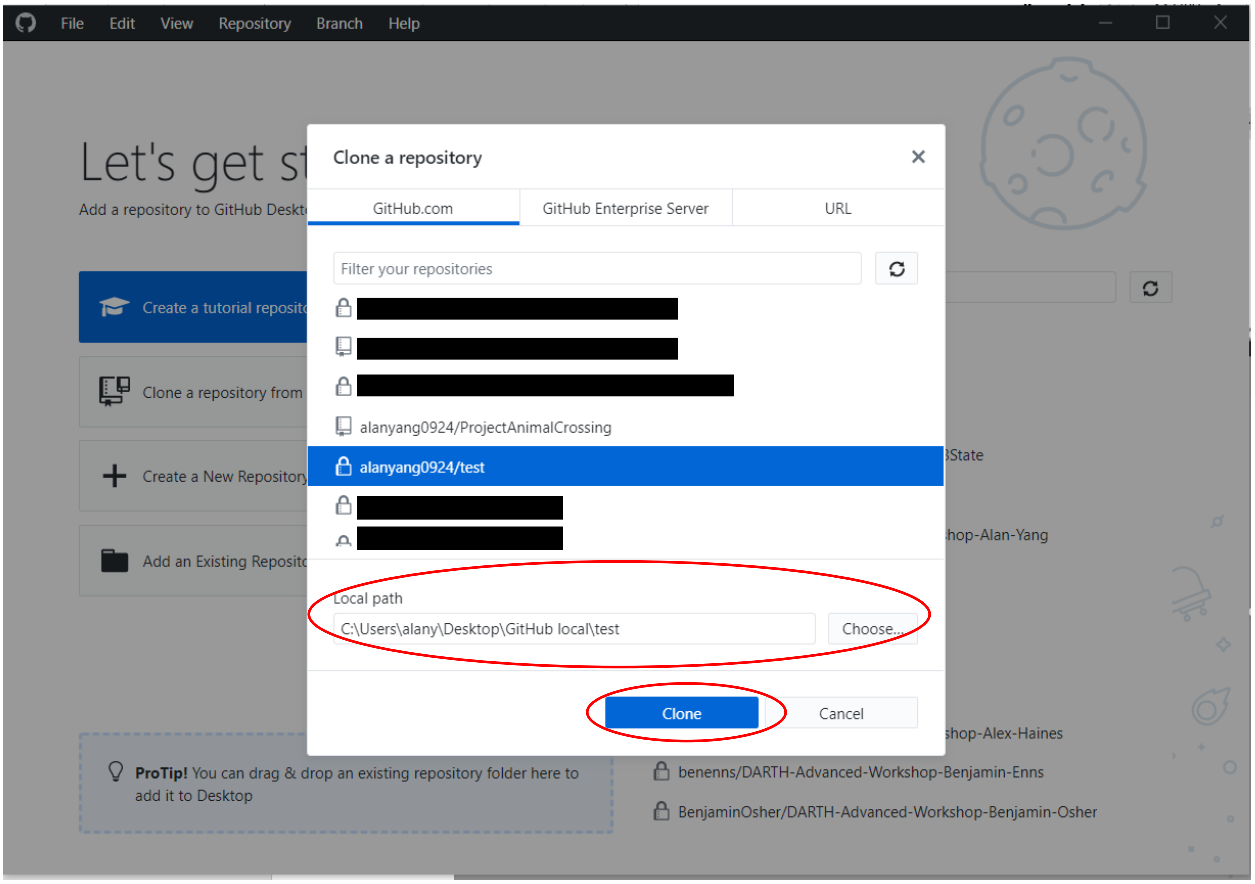
Your repositories

- alanyang0924/academic-kickstart
- alanyang0924/bookdown
- alanyang0924/CADTH-Partitioned-Toy-3State
- alanyang0924/cohort-generation
- alanyang0924/DARTH-Advanced-Workshop-Alan-Yang
- alanyang0924/ProjectAnimalCrossing
- alanyang0924/testdarthpack
- alanyang0924/WCCD
- AlexHaines14/-DARTH-Advanced-Workshop-Alex-Haines
- benenns/DARTH-Advanced-Workshop-Benjamin-Enns
- BenjaminOsher/DARTH-Advanced-Workshop-Benjamin-Osher
- cfbalmaceda/2020-DARTH-Advanced-Workshop

Click “Clone a repository from the Internet”.

** Cloning a repo means creating a **folder on your computer** that represents a **local copy** of your **remote repository** from GitHub

4. You will then see a list of repositories in your GitHub account:



Clone a repository

[redacted]

alanyang0924/ProjectAnimalCrossing

alanyang0924/test

[redacted]

Local path

C:\Users\alany\Desktop\GitHub local\test

ProTip! You can drag & drop an existing repository folder here to add it to Desktop

3State

hop-Alan-Yang

shop-Alex-Haines

benenns/DARTH-Advanced-Workshop-Benjamin-Enns

BenjaminOsher/DARTH-Advanced-Workshop-Benjamin-Osher

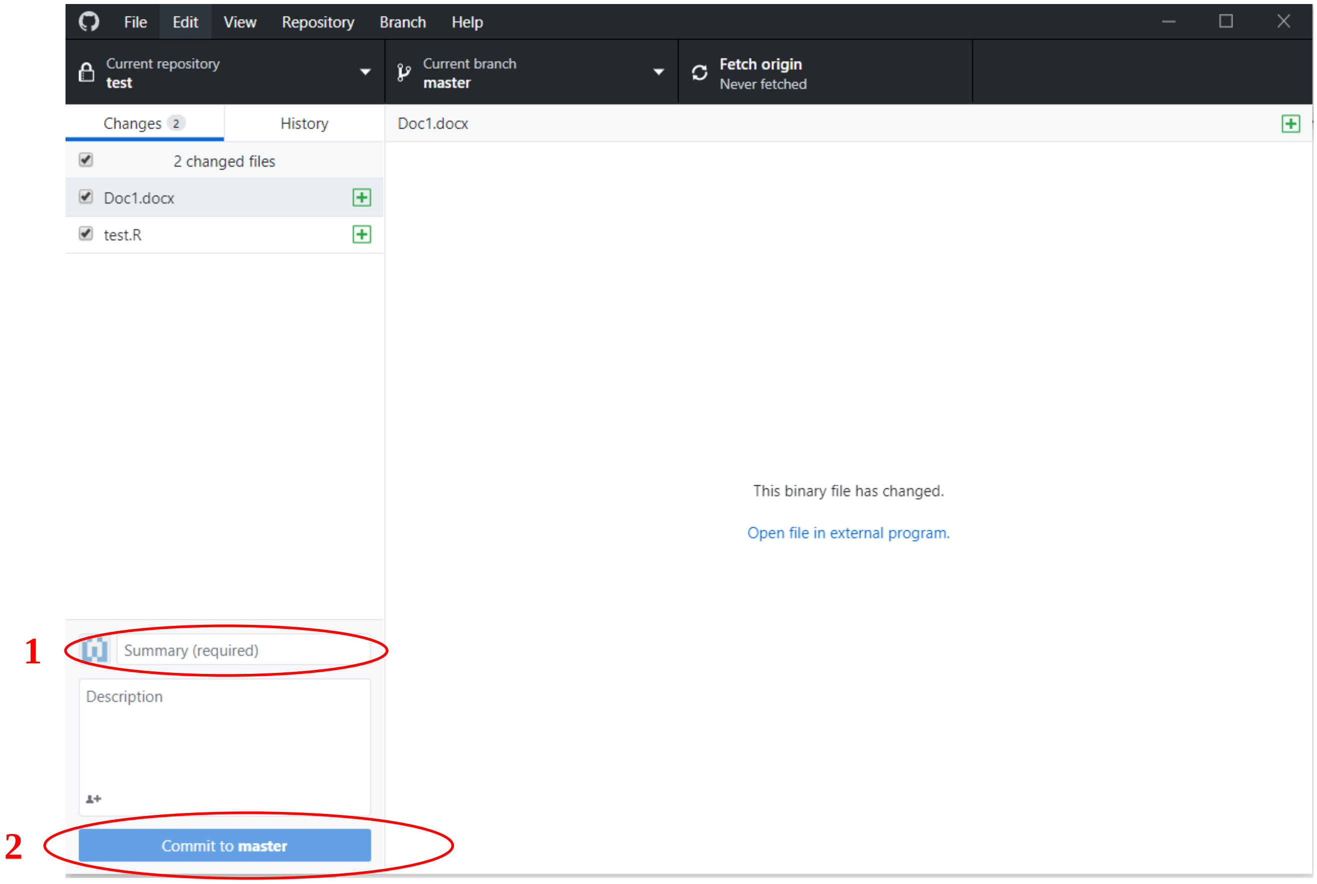
Specify the location/path on your computer you want the local copy of your repository to reside in and click “Clone”.

5. GitHub Desktop has now created a folder that represents the local copy of your remote repo from GitHub. At this point the folder should only contain a “README.md” file. From now on you will work within this local folder and **push changes** to the remote version of your repo on GitHub. Push will be explained later.

*** GitHub does not allow you to make changes directly your remote repos, you must make changes locally first (in local copies of remote repos), then use GitHub Desktop to push/update the changes to remote.*

6. You can now add/remove/modify files to the local folder. Any changes to the files in the folder will be reflected on GitHub Desktop. For example, I added an R script and a Word doc to the local folder.

7. Now switch to GitHub Desktop. You will see:



☑ 2 changed files

☑ Doc1.docx

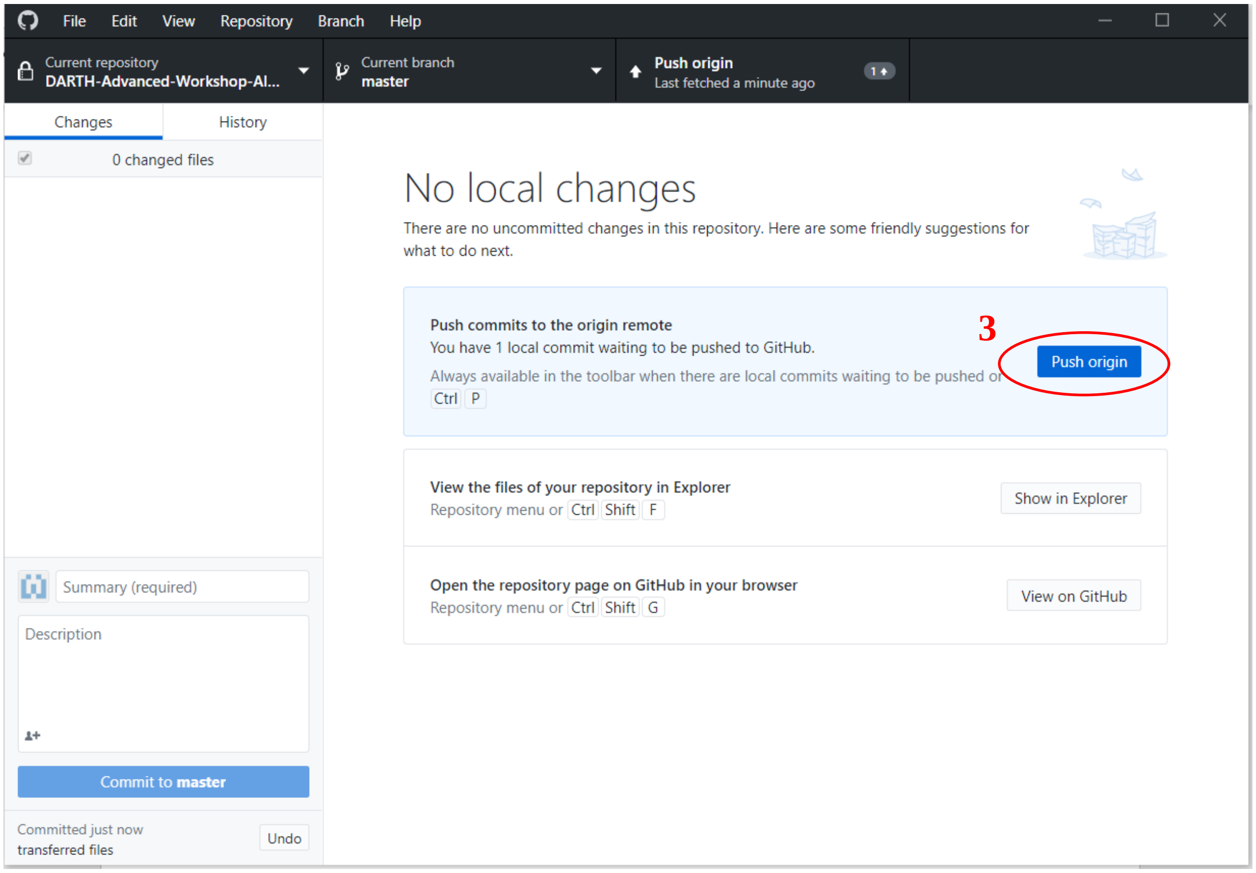
☑ test.R

This binary file has changed.

Open file in external program.

Now, perform the follow **3 steps:**

1. Add a summary (description is optional)
2. Commit changes to master
3. Push the changes to remote repo on GitHub



No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.

Push commits to the origin remote

You have 1 local commit waiting to be pushed to GitHub.

Always available in the toolbar when there are local commits waiting to be pushed or Ctrl P

View the files of your repository in Explorer

Repository menu or Ctrl Shift F

Open the repository page on GitHub in your browser

Repository menu or Ctrl Shift G

*** These 3 steps are key to using GitHub and GitHub Desktop. You first make the changes to the files in your local repo folder. Once you are done with the changes, you follow the above 3 steps to push the changes to your remote repo on GitHub.*

*** If you don't push your changes, all changes you make will stay local. They will* ***never*** *be reflected on GitHub online.*

At this stage you have learned the basics of GitHub and GitHub Desktop!

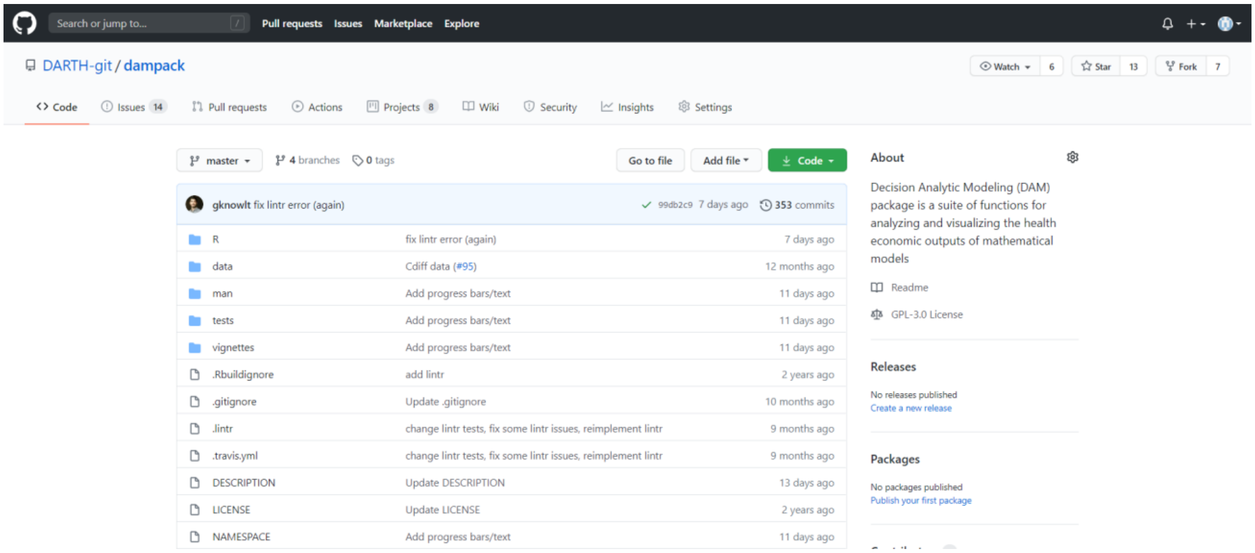
The basic idea is to add/remove/modify files in the local folder linked to your remote repo. Then, push the changes to the remote repo. You want to do this every time you are done with making changes to the files.

4) Cloning a public repo

You can also choose to clone someone else's public repositories.

1. Go to the main page of the public repo you wish to clone. You can either get there via its website URL or search for it on GitHub.

2. Here is a public repository's main page:

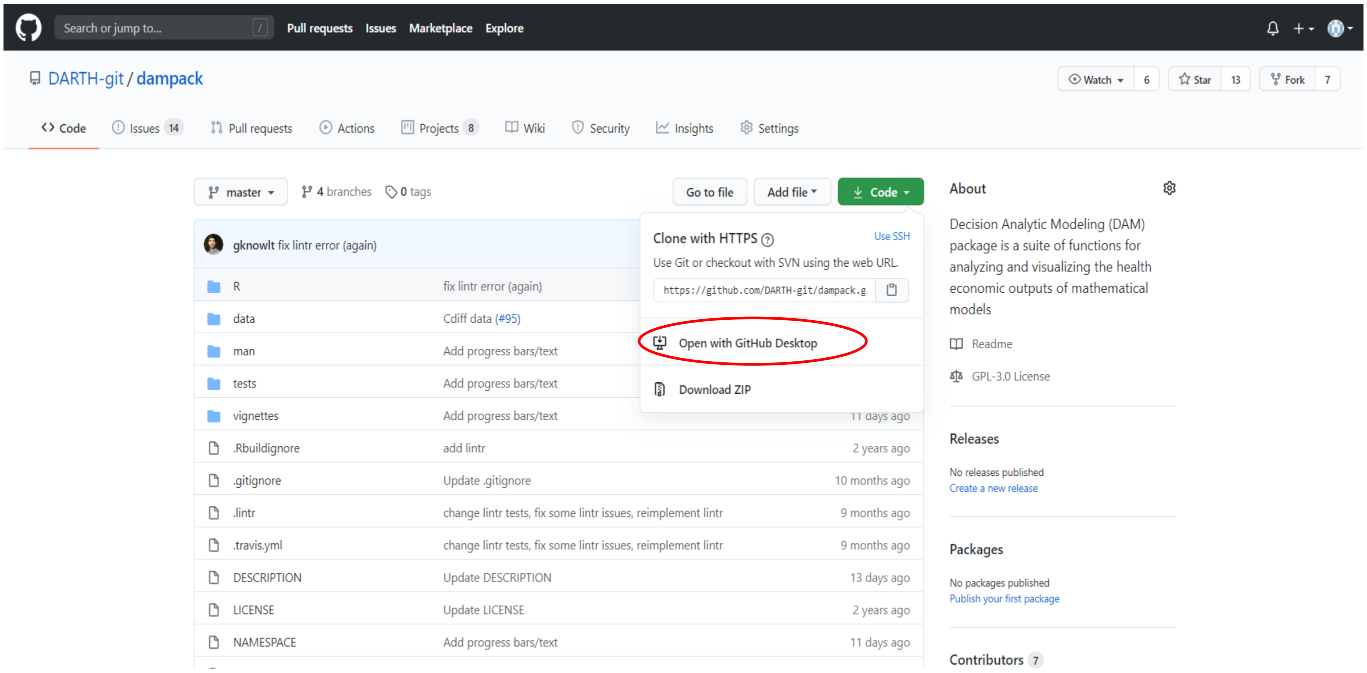


gknowlt fix lintr error (again) ✓ 99db2c9 7 days ago 353 commits

R	fix lintr error (again)	7 days ago
data	Cdiff data (#95)	12 months ago
man	Add progress bars/text	11 days ago
tests	Add progress bars/text	11 days ago
vignettes	Add progress bars/text	11 days ago
.Rbuildignore	add lintr	2 years ago
.gitignore	Update .gitignore	10 months ago
.lintr	change lintr tests, fix some lintr issues, reimplement lintr	9 months ago
.travis.yml	change lintr tests, fix some lintr issues, reimplement lintr	9 months ago
DESCRIPTION	Update DESCRIPTION	13 days ago
LICENSE	Update LICENSE	2 years ago
NAMESPACE	Add progress bars/text	11 days ago

Decision Analytic Modeling (DAM) package is a suite of functions for analyzing and visualizing the health economic outputs of mathematical models

3. Click the ‘code’ button and select ‘Open with GitHub Desktop’.



DARTH-git / dampack

Clone with HTTPS

Use SSH

Use Git or checkout with SVN using the web URL.

https://github.com/DARTH-git/dampack.g

Open with GitHub Desktop

Download ZIP

gknowlt fix lintr error (again)

R	fix lintr error (again)	
data	Cdiff data (#95)	
man	Add progress bars/text	
tests	Add progress bars/text	
vignettes	Add progress bars/text	11 days ago
.Rbuildignore	add lintr	2 years ago
.gitignore	Update .gitignore	10 months ago
.lintr	change lintr tests, fix some lintr issues, reimplement lintr	9 months ago
.travis.yml	change lintr tests, fix some lintr issues, reimplement lintr	9 months ago
DESCRIPTION	Update DESCRIPTION	13 days ago
LICENSE	Update LICENSE	2 years ago
NAMESPACE	Add progress bars/text	11 days ago

About

Decision Analytic Modeling (DAM) package is a suite of functions for analyzing and visualizing the health economic outputs of mathematical models

Readme

GPL-3.0 License

Releases

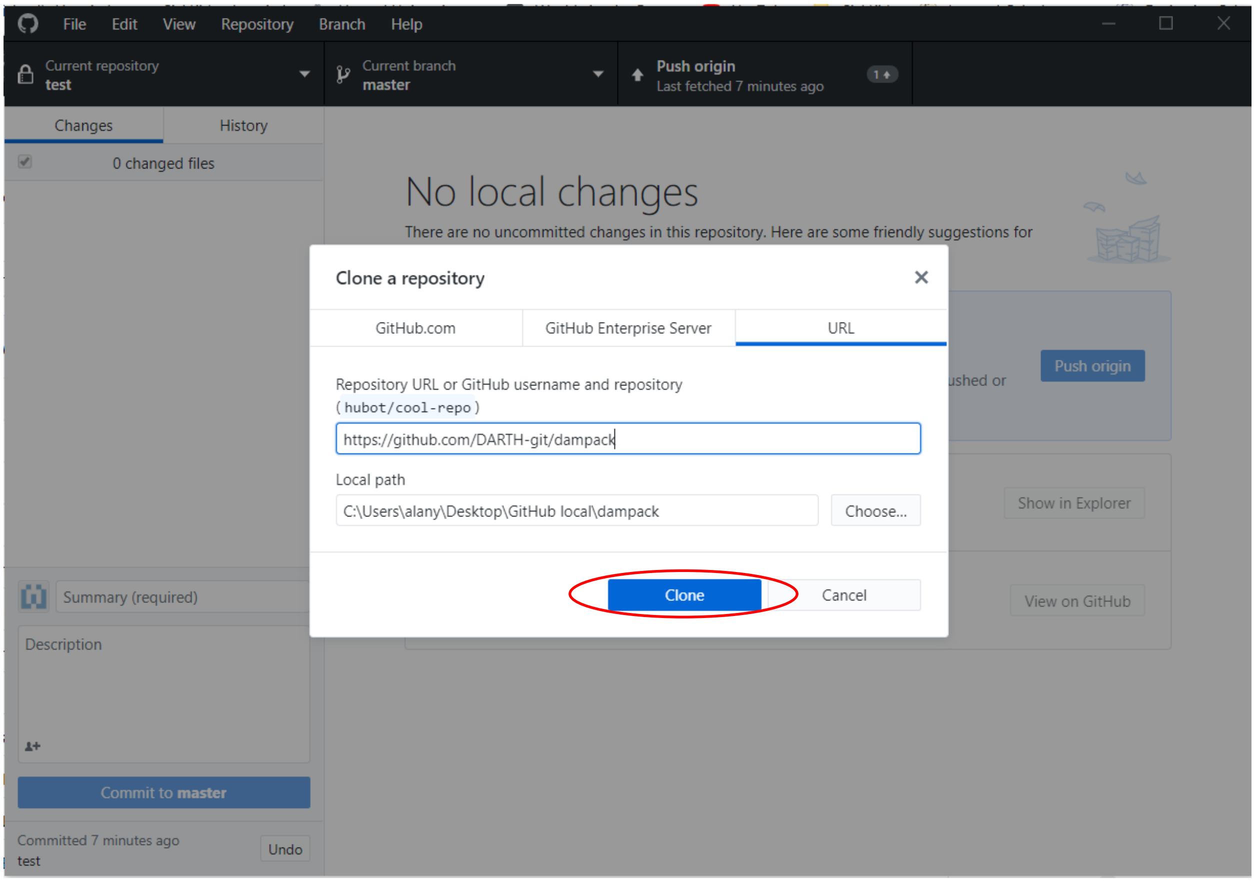
No releases published
Create a new release

Packages

No packages published
Publish your first package

Contributors 7

4. The below window will pop up. Select the local path (local folder) you wish to link to this cloned repo and click ‘Clone’.



No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for

Clone a repository

Repository URL or GitHub username and repository
(hubot/cool-repo)

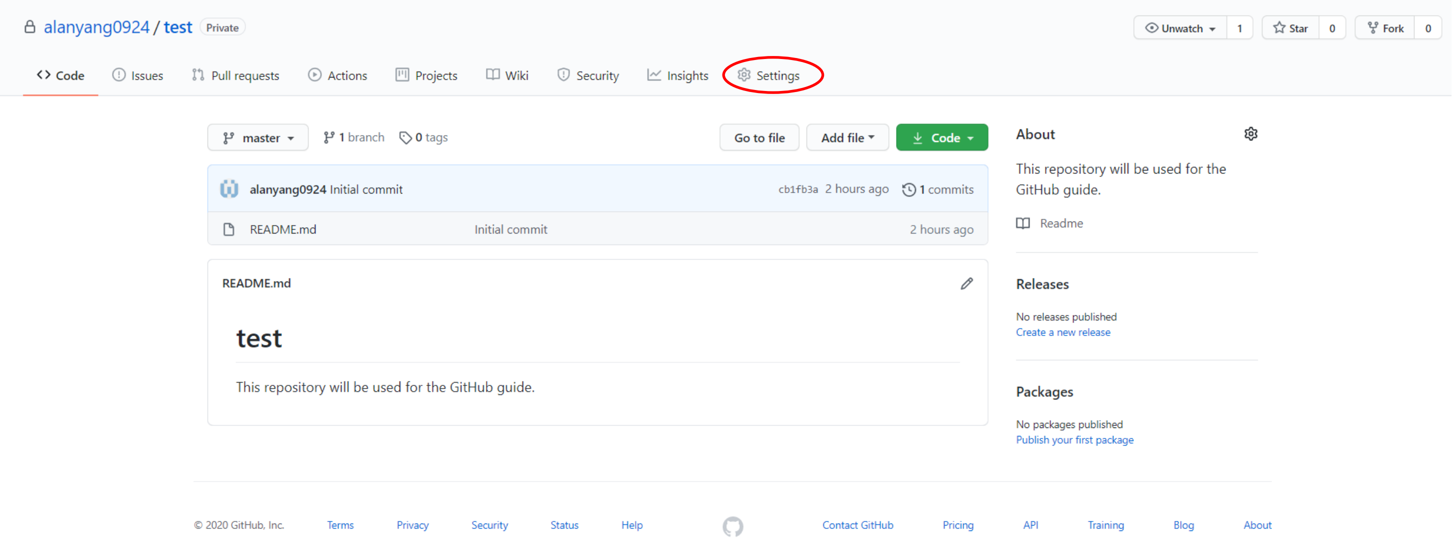
https://github.com/DARTH-git/dampack

Local path

C:\Users\alany\Desktop\GitHub local\dampack

5) Inviting collaborators

1. Visit the main page of your GitHub repo and go to "Settings".



alanyang0924 Initial commit cb1fb3a 2 hours ago 1 commits

README.md Initial commit 2 hours ago

README.md

test

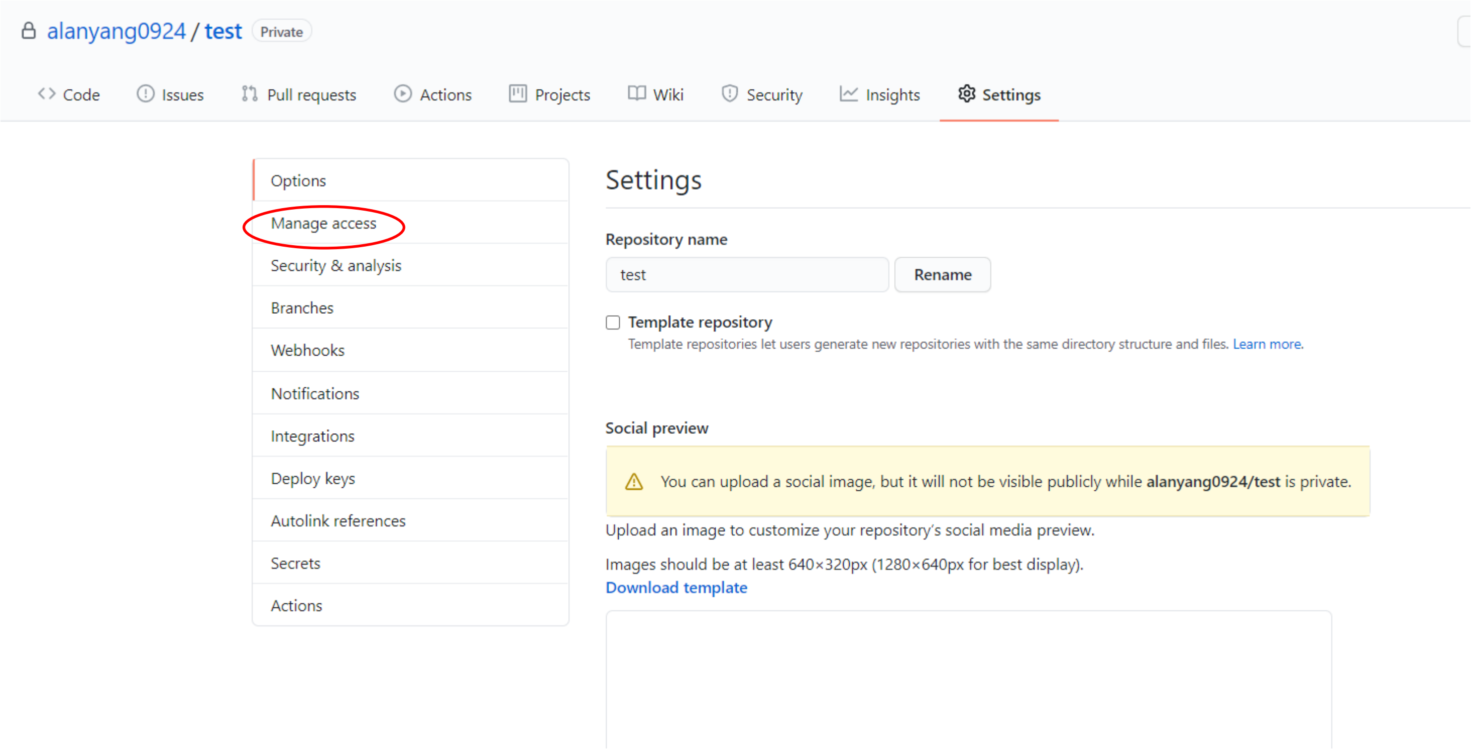
This repository will be used for the GitHub guide.

About: This repository will be used for the GitHub guide.

Releases: No releases published. Create a new release

Packages: No packages published. Publish your first package

2. Go to “Manage access”. You might be asked to enter your password.



alanyang0924 / test Private

Settings

Repository name

test

□ Template repository

Template repositories let users generate new repositories with the same directory structure and files. Learn more.

Social preview

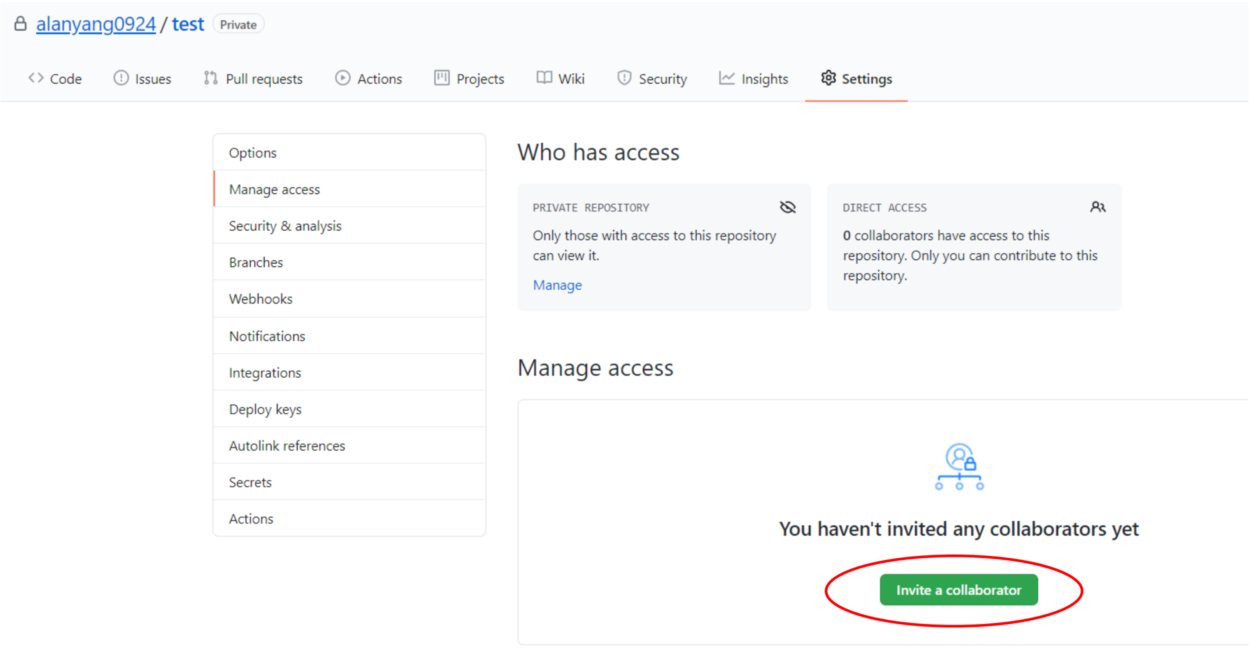
You can upload a social image, but it will not be visible publicly while **alanyang0924/test** is private.

Upload an image to customize your repository’s social media preview.

Images should be at least 640×320px (1280×640px for best display).

Download template

3. Click on “Invite a collaborator”.



Who has access

PRIVATE REPOSITORY

Only those with access to this repository can view it.

DIRECT ACCESS

0 collaborators have access to this repository. Only you can contribute to this repository.

Manage access

You haven't invited any collaborators yet

You can invite anyone to your repository by their username, full name or email. You can also set their role and privileges.