How to Use GitHub

FU Zihao

2018/1/18

Contents

- Brief Introduction

- Register an Account

- Create a Repository

- Operate by GUI

- Operate by Commands

Brief Introduction

What is git

▷ Git is a free and open source distributed version control system;

▷ Git can help people to cooperate on code;

▷ Git can compare the same file edited by different people and help to merge these changes into one;

What is GitHub

▷ Github is a web-based hosting service for version control using git;

▷ Github can be regarded as a node of git;

▷ Many people share their code on GitHub. Many open source projects are released on GitHub.

▷ Put your code on GitHub can help others to getting to know your skills and interest.

Register an Account

Register an Account

▷ Go to https://github.com/join

Register an Account

Go to https://github.com/join

Register an Account

▷ Verify your e-mail

EMAIL	COMPOSE	TOOLS	ABOUT

« Back to inbox   Reply   Forward   Show Original

[GitHub] Please verify your email address.

From: **noreply@github.com**, To: **cuhkgithubtut1**, Date **2018-01-16 05:29:42**

Hi **@cuhkgithubtut1**!

Help us secure your GitHub account by verifying your email address (**cuhkgithubtut1@sharklasers.com**). This lets you access all of GitHub's features.

Verify email address

Button not working? Paste the following link into your browser:
https://github.com/users/cuhkgithubtut1/emails/44138267/confirm_verification/fb2caf1fc24f2

You're receiving this email because you recently created a new GitHub account or added a new email address. If this wasn't you, please ignore this email.

Register an Account

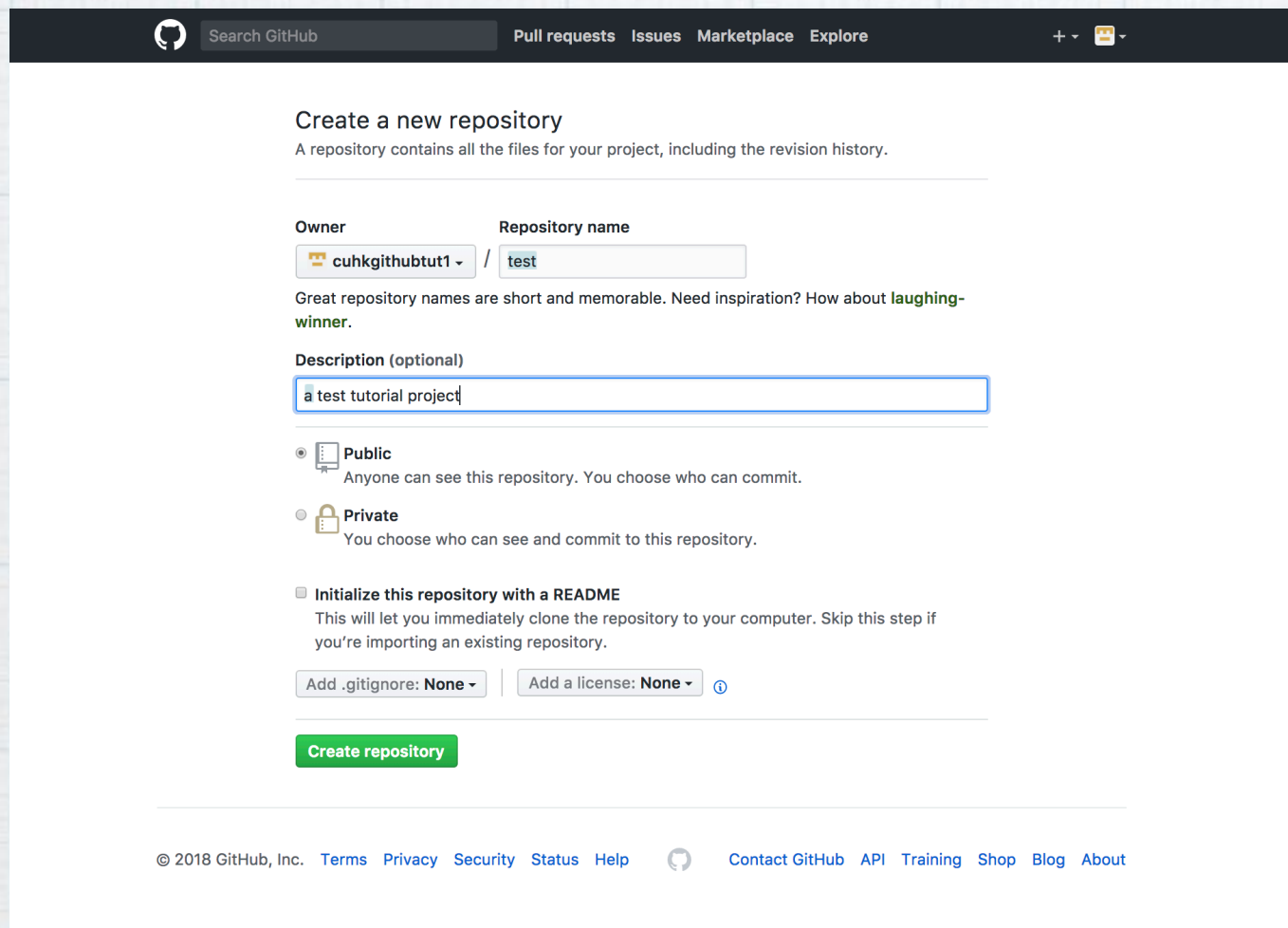▷ After verified your e-mail, it's the time to start your first project on GitHub.
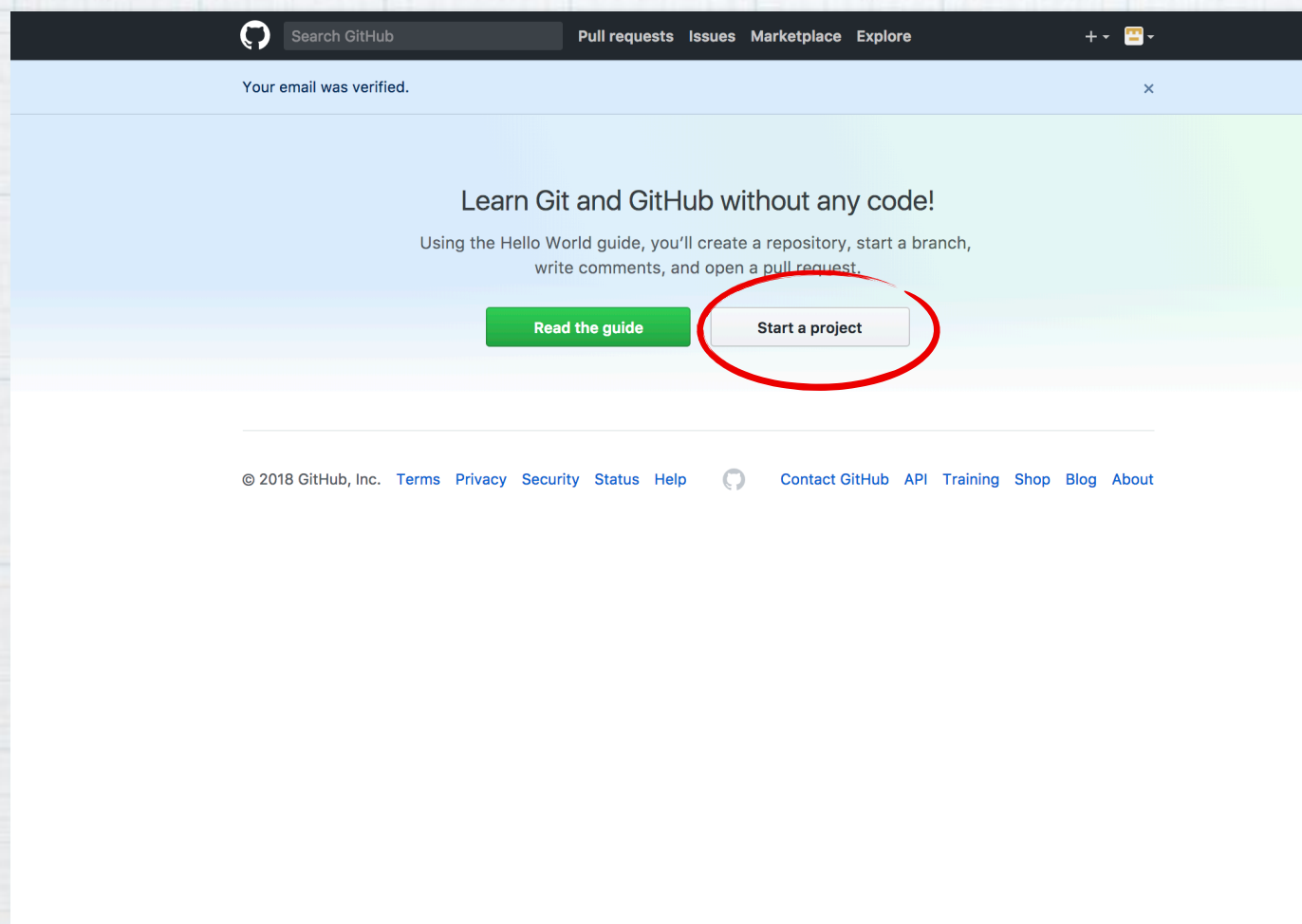
Create a Repository

What is a Repository

▷ A repository is the place to store your code and version information. You can regard it as an ordinary folder and put all your code into the folder;

▷ A Repository contains some version control information in ".git" subfolder. DO NOT modify it!

▷ You just write your program in a repository on your local machine and push it to GitHub.

Create a Repository

▷ Fill in the repository name and description

▷ Free account can only create public repository and every one else can see it.

Create a Repository

▷ Now, we have an empty repository
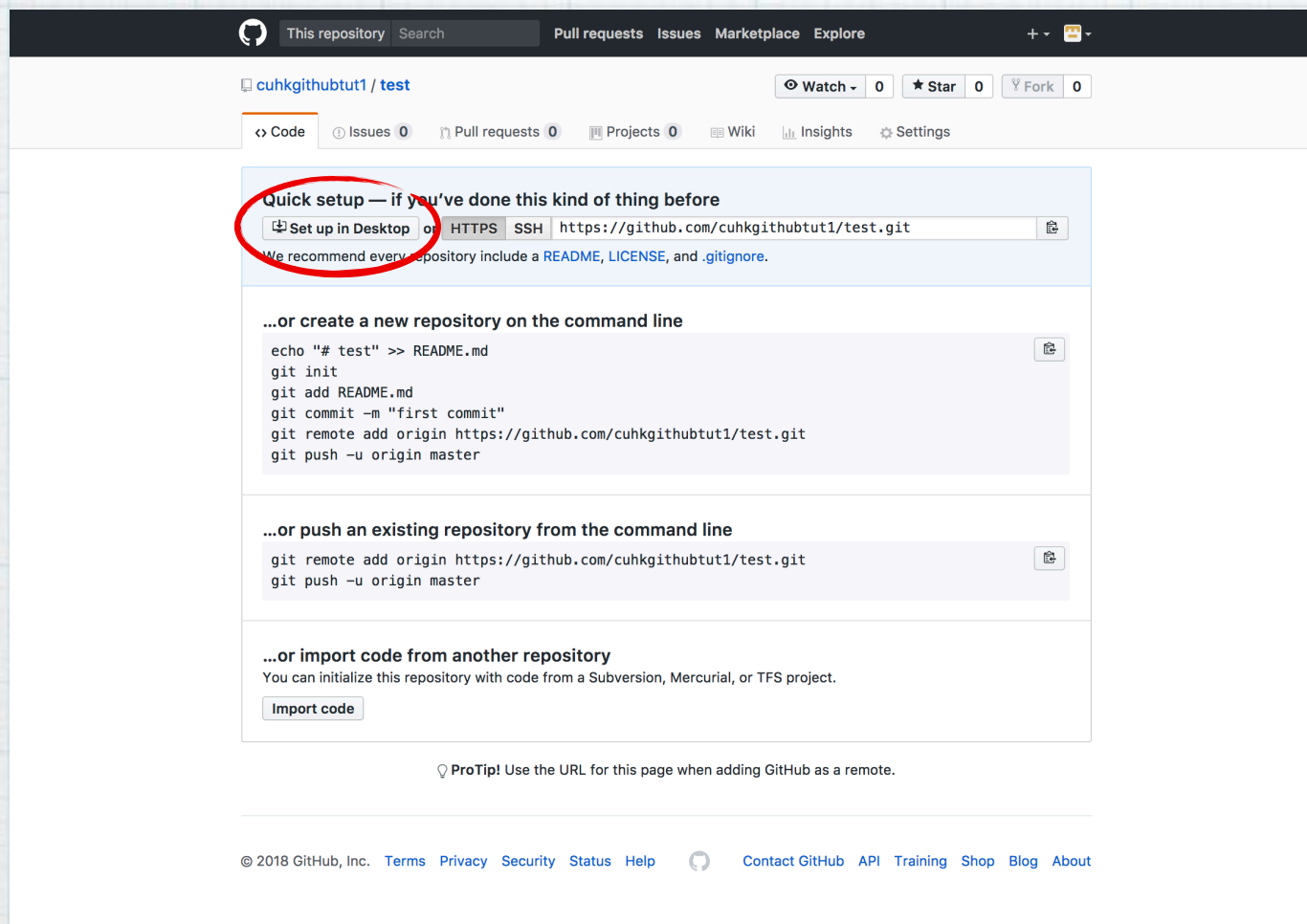
Operate by GUI

Introduction to Github Desktop

Operate by GUI

▷ Download at https://desktop.github.com/
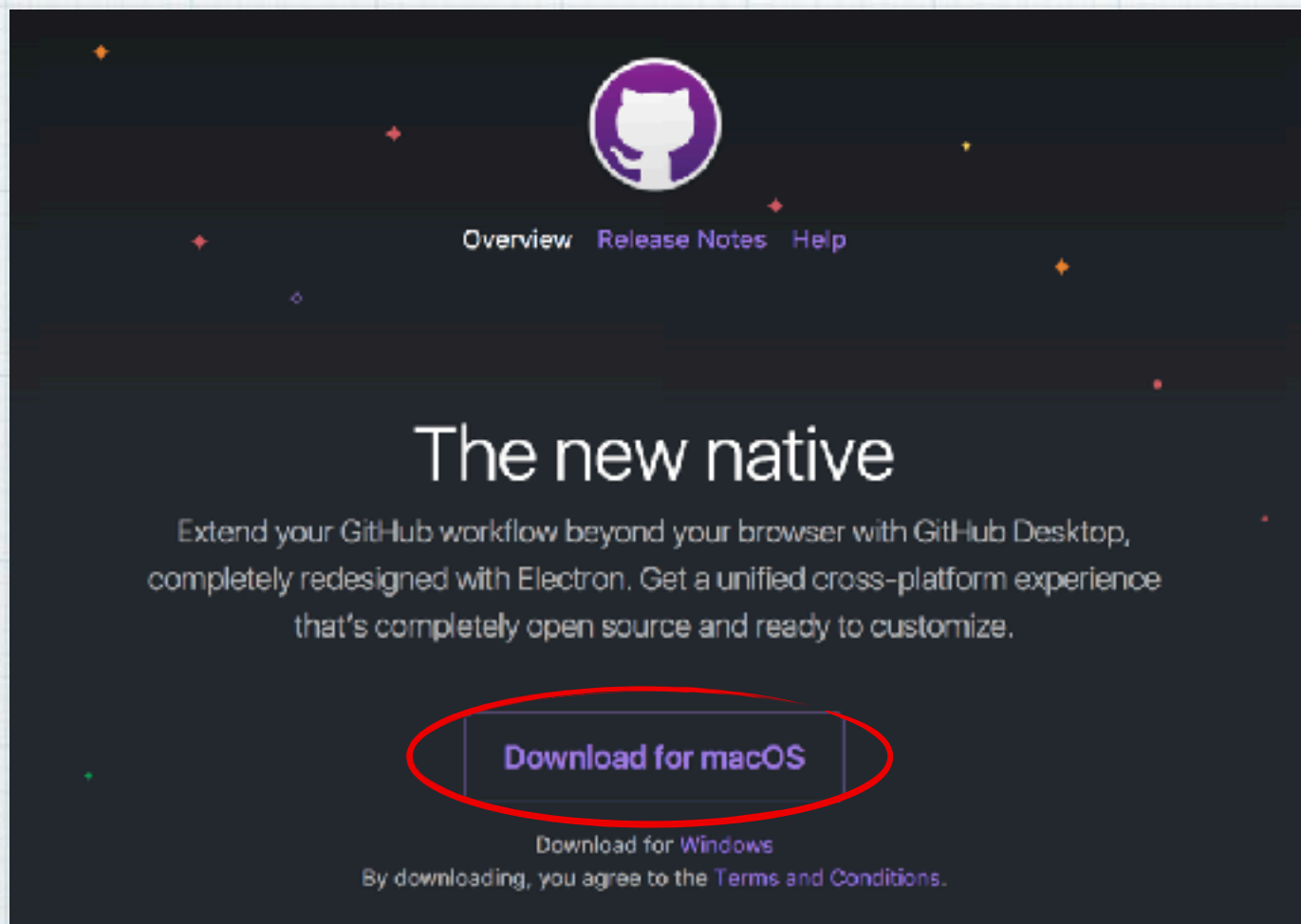
Operate by GUI

▷ Login with your account

Operate by GUI

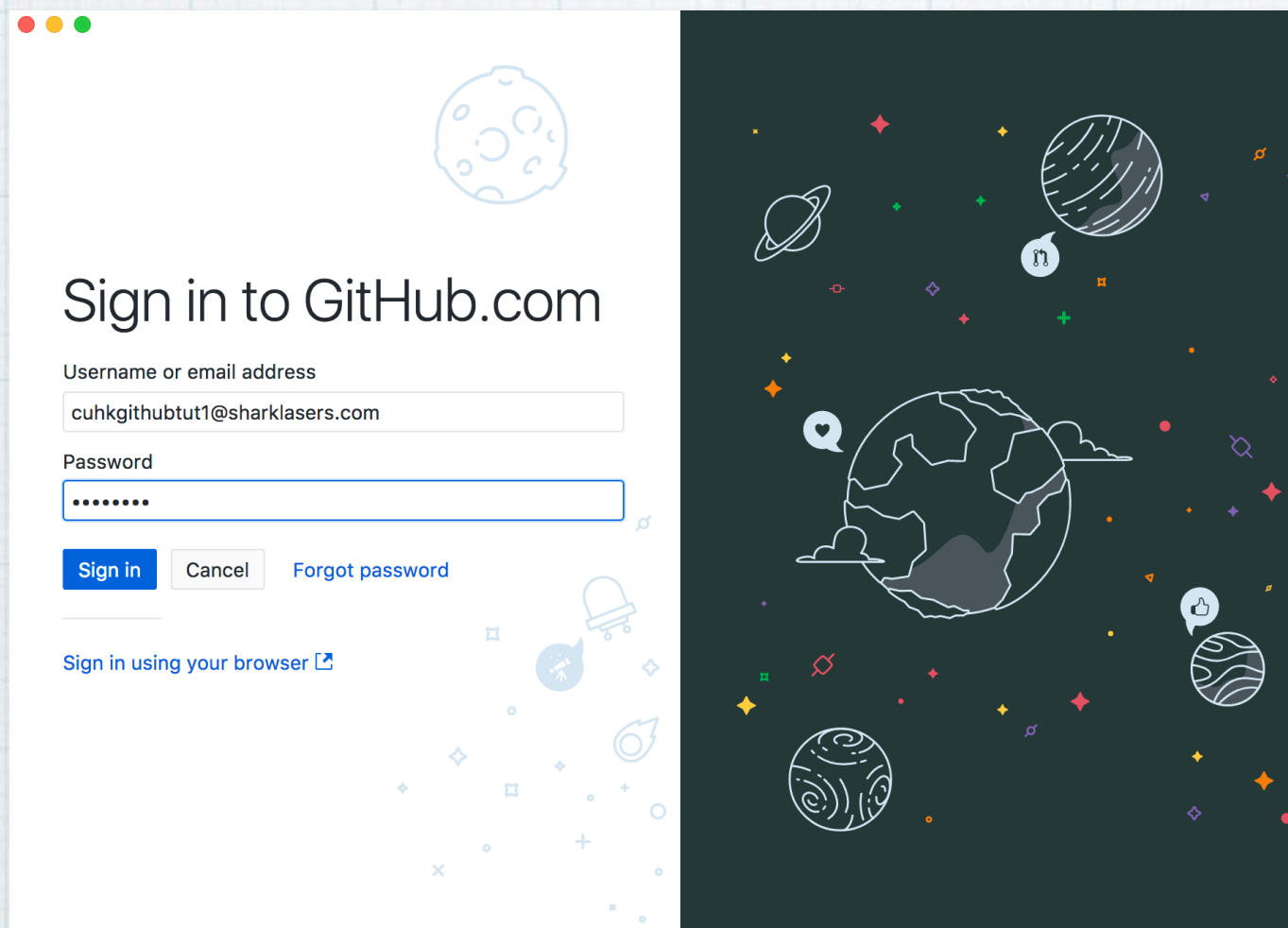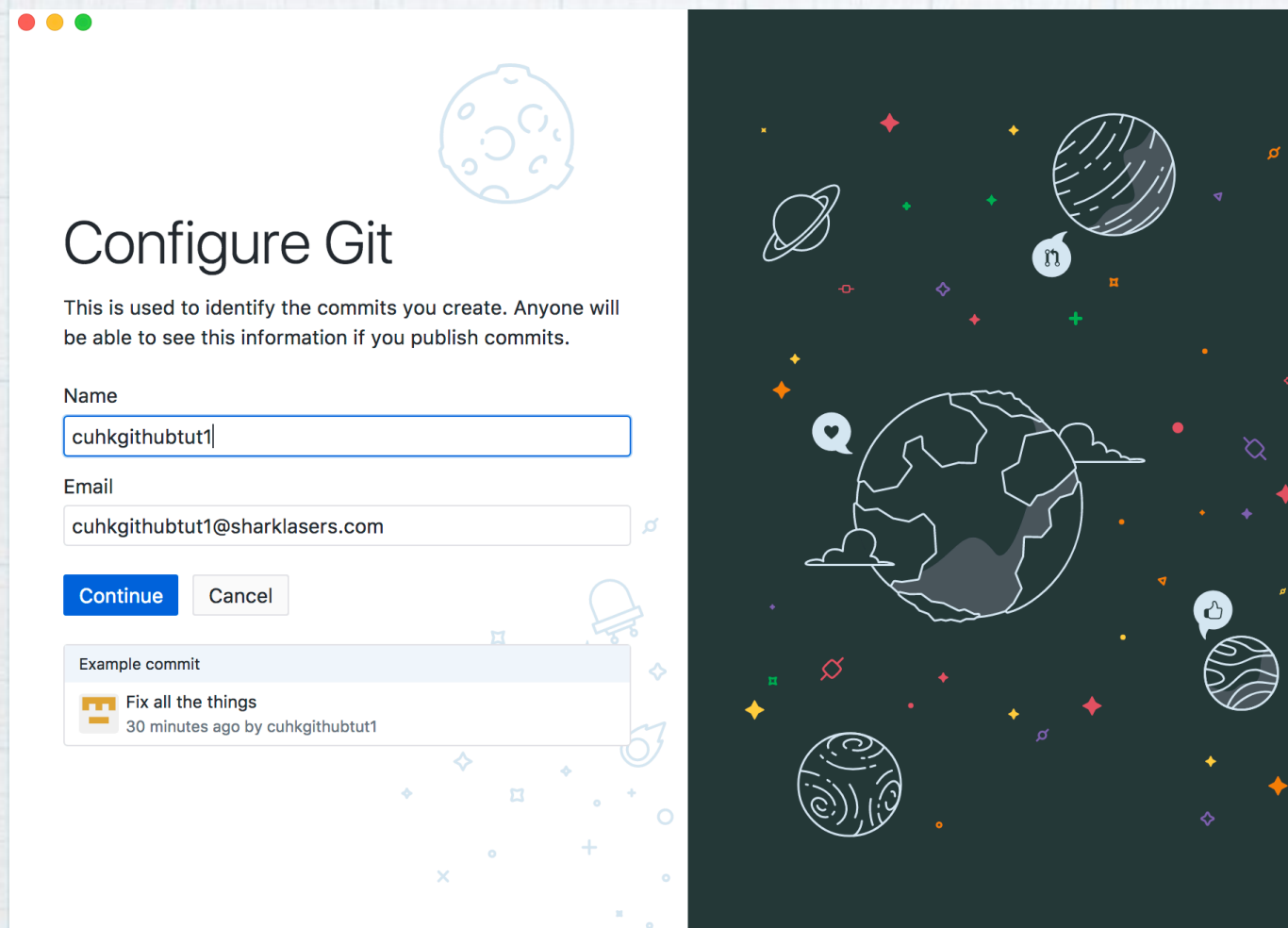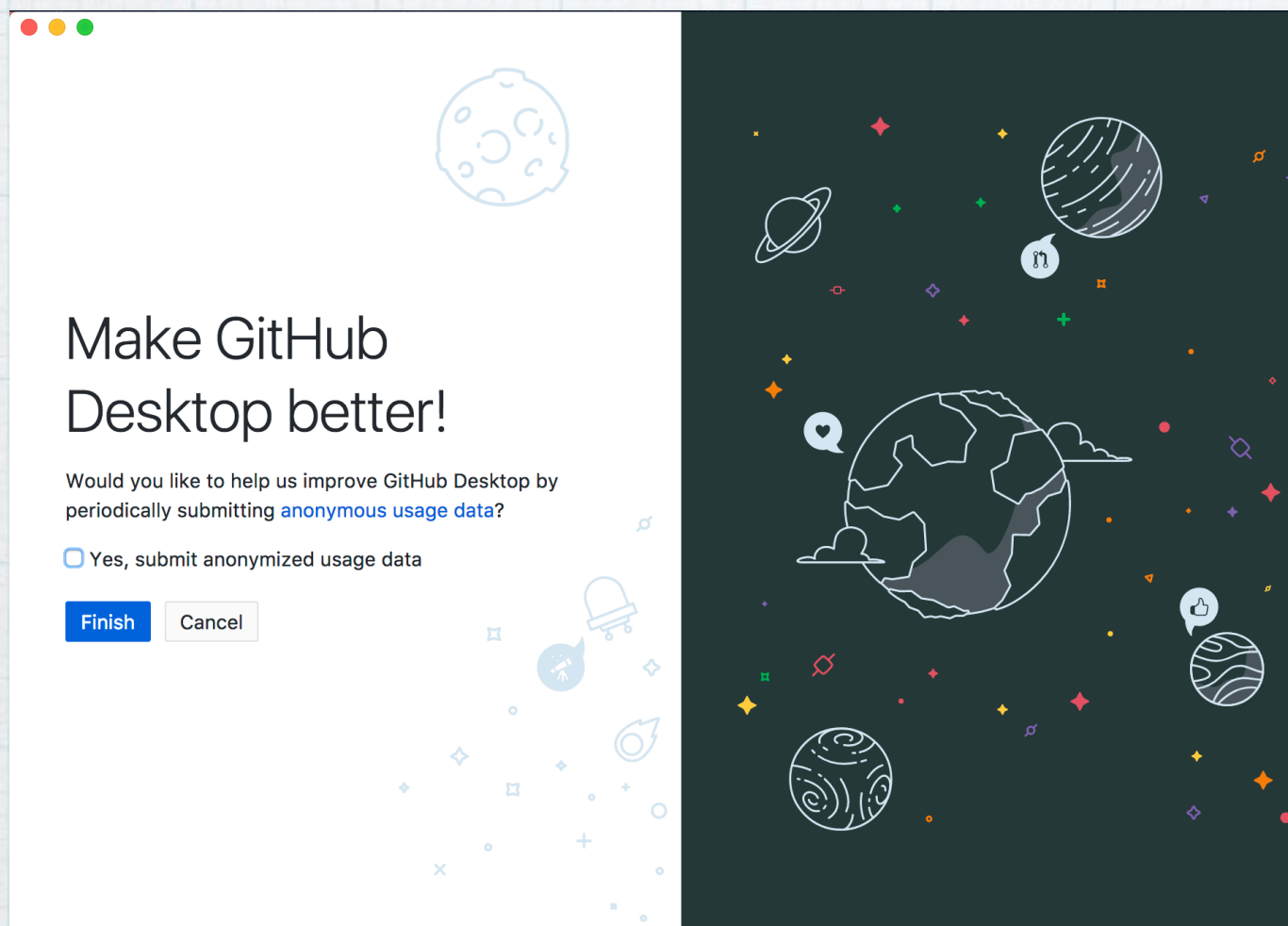▷ Fill your name and email. This will be used to indicate who have modified the code.
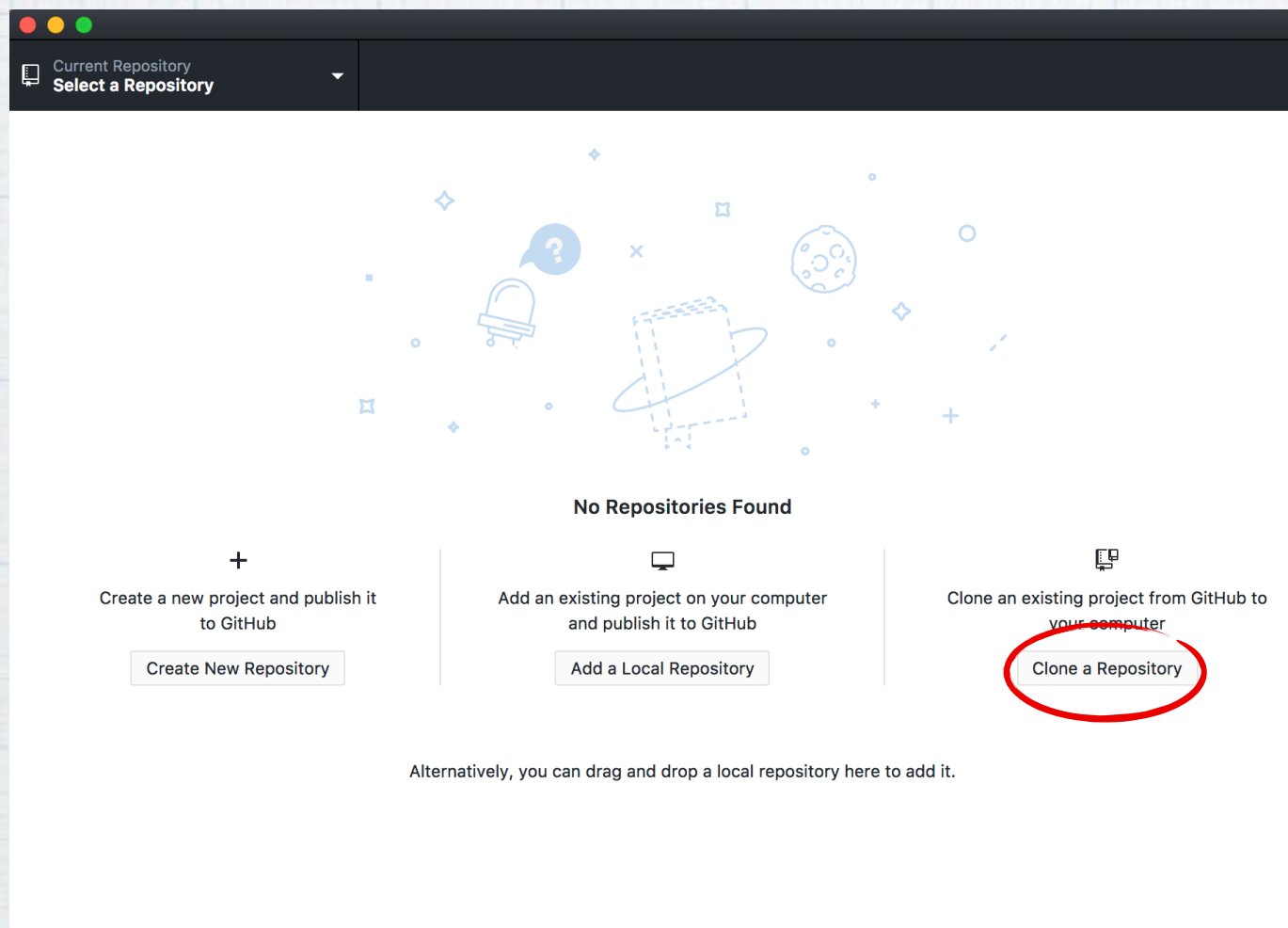
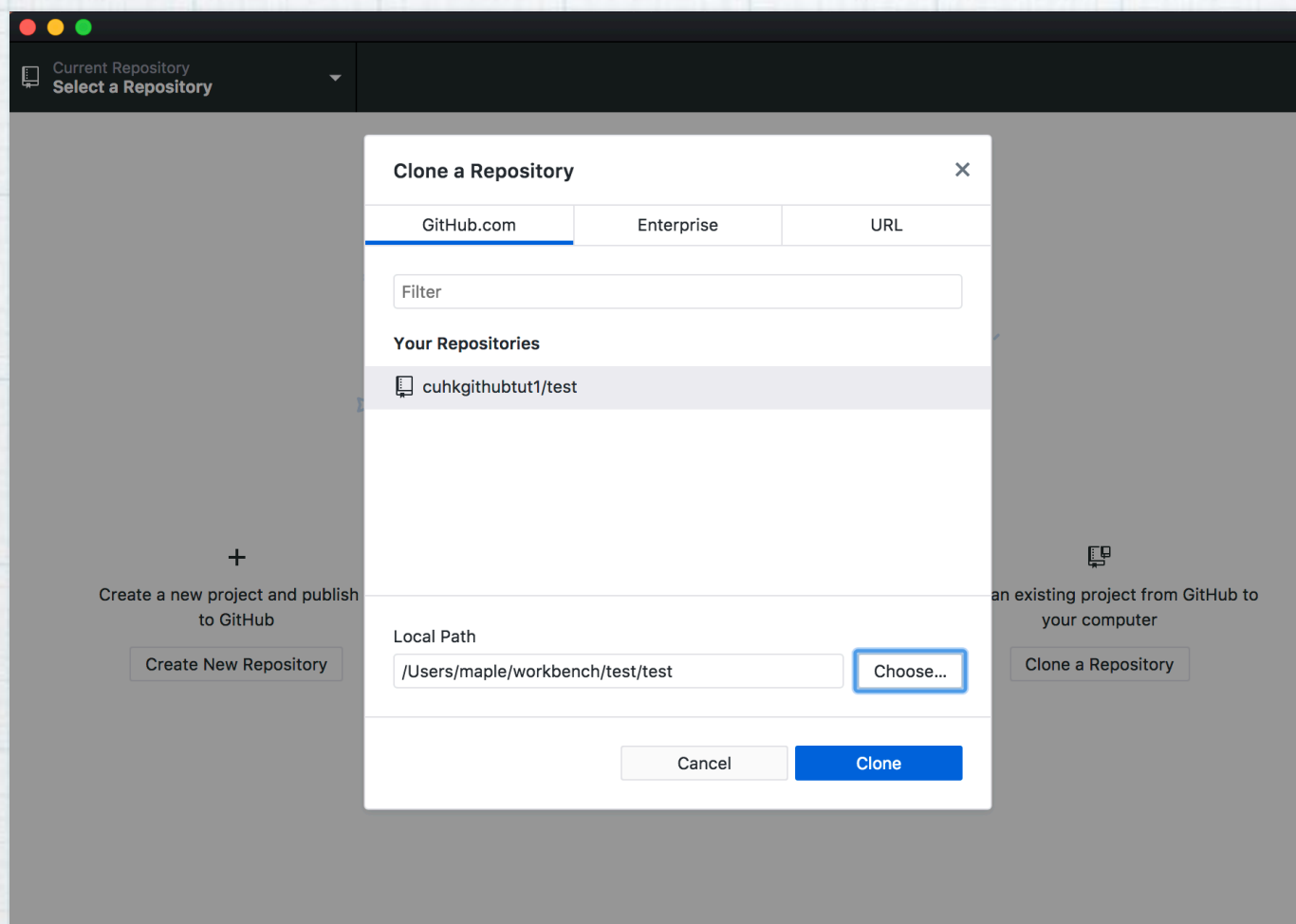# Operate by GUI

▷ Finish configuration

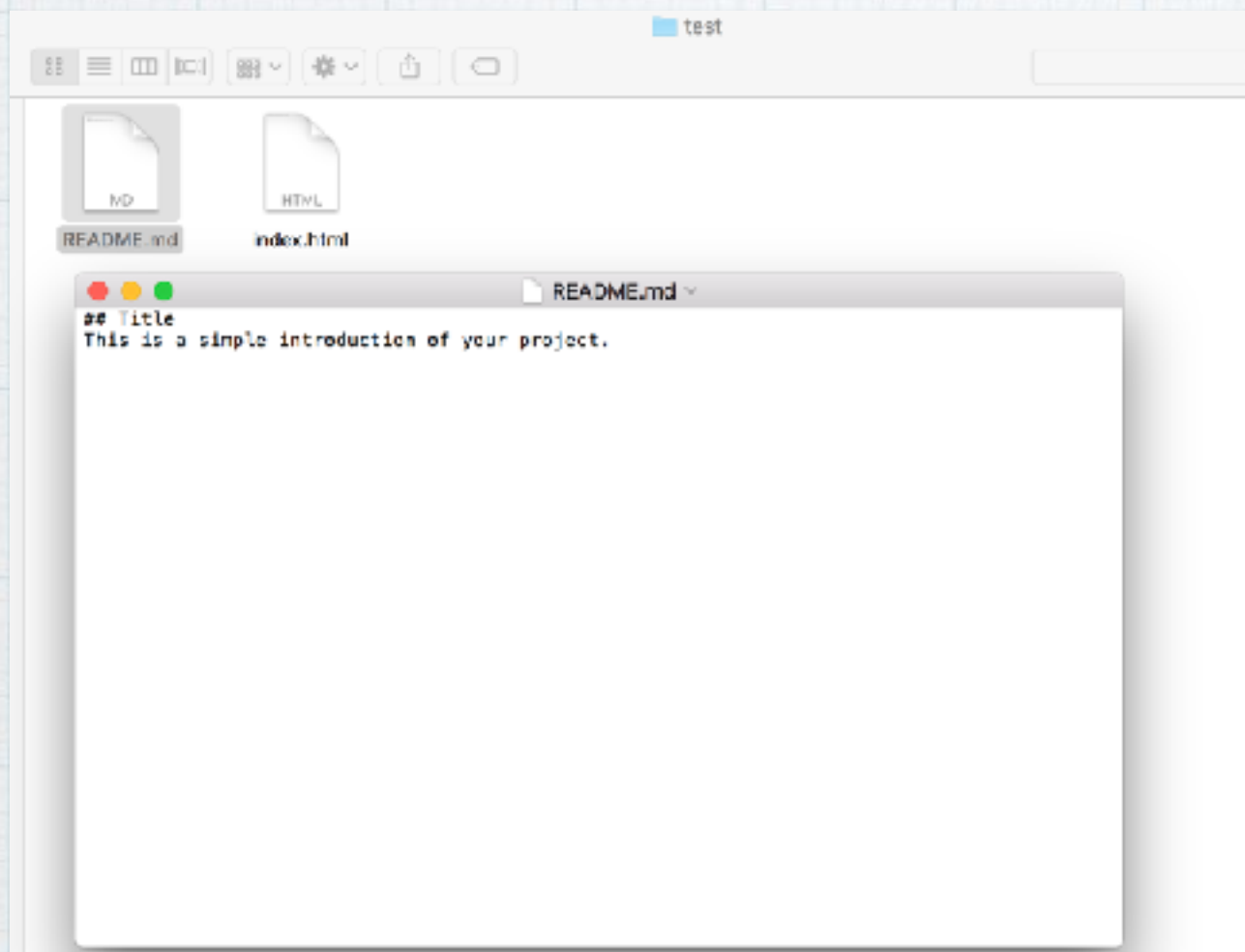# Operate by GUI

▷ The main interface

Operate by GUI

▷ We will clone the repository we just created to our local disk.

▷ Clone is a operation that copy a repository from other place to your local disk.

Operate by GUI

▷ Modify the folder, add some code file, etc.

▷ We add a README.md file. This is a markdown file and will be used as the default introduction page of your project on GitHub.

What is markdown

▷ Markdown is a simple language to make formatted text;

▷ Just write raw text, and GitHub will render it;

Operate by GUI

▷ We can see our modification on the Changes panel

▷ Commit the modification to our local master branch
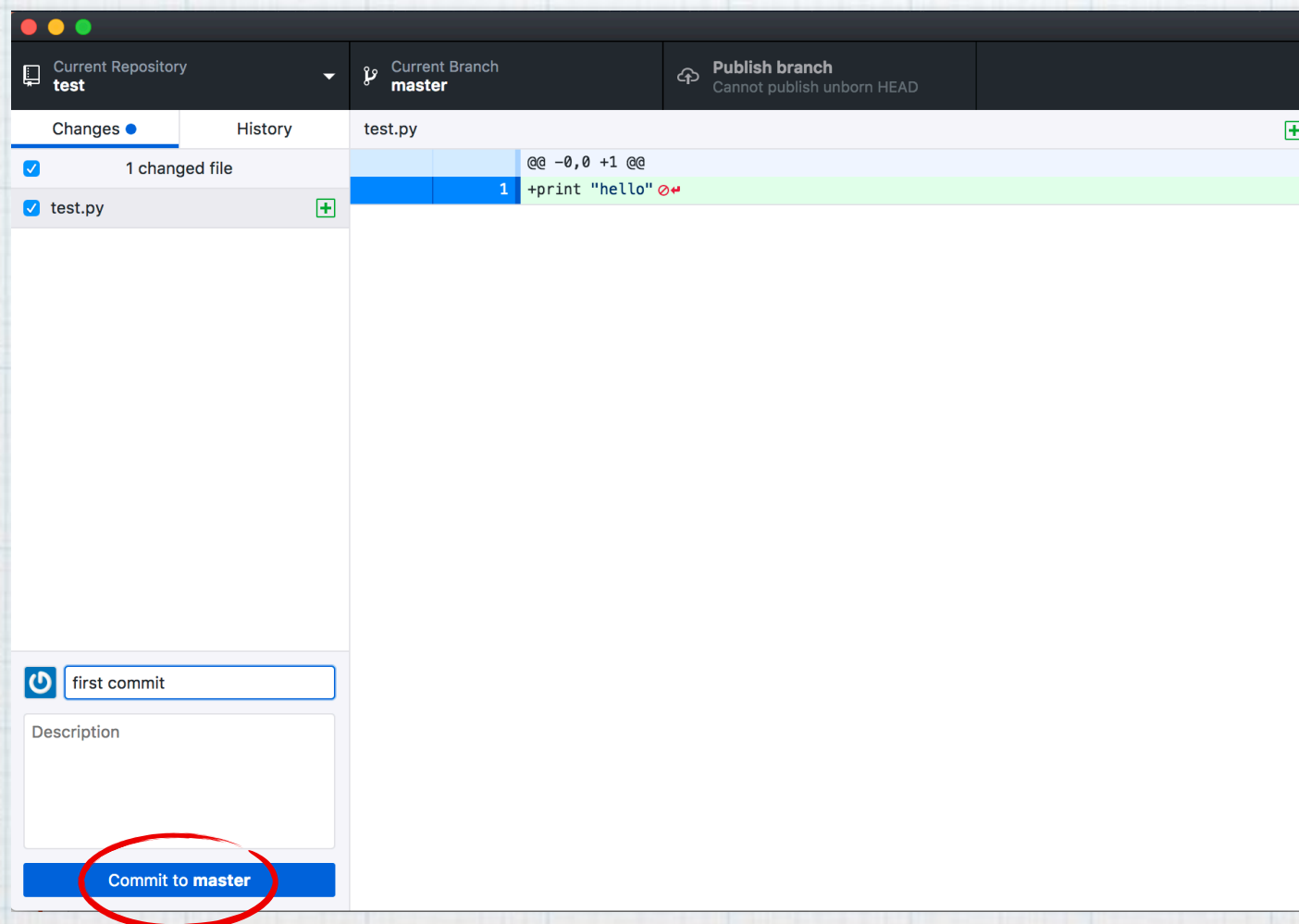
Operate by GUI

▷ We can see our modification on the history panel

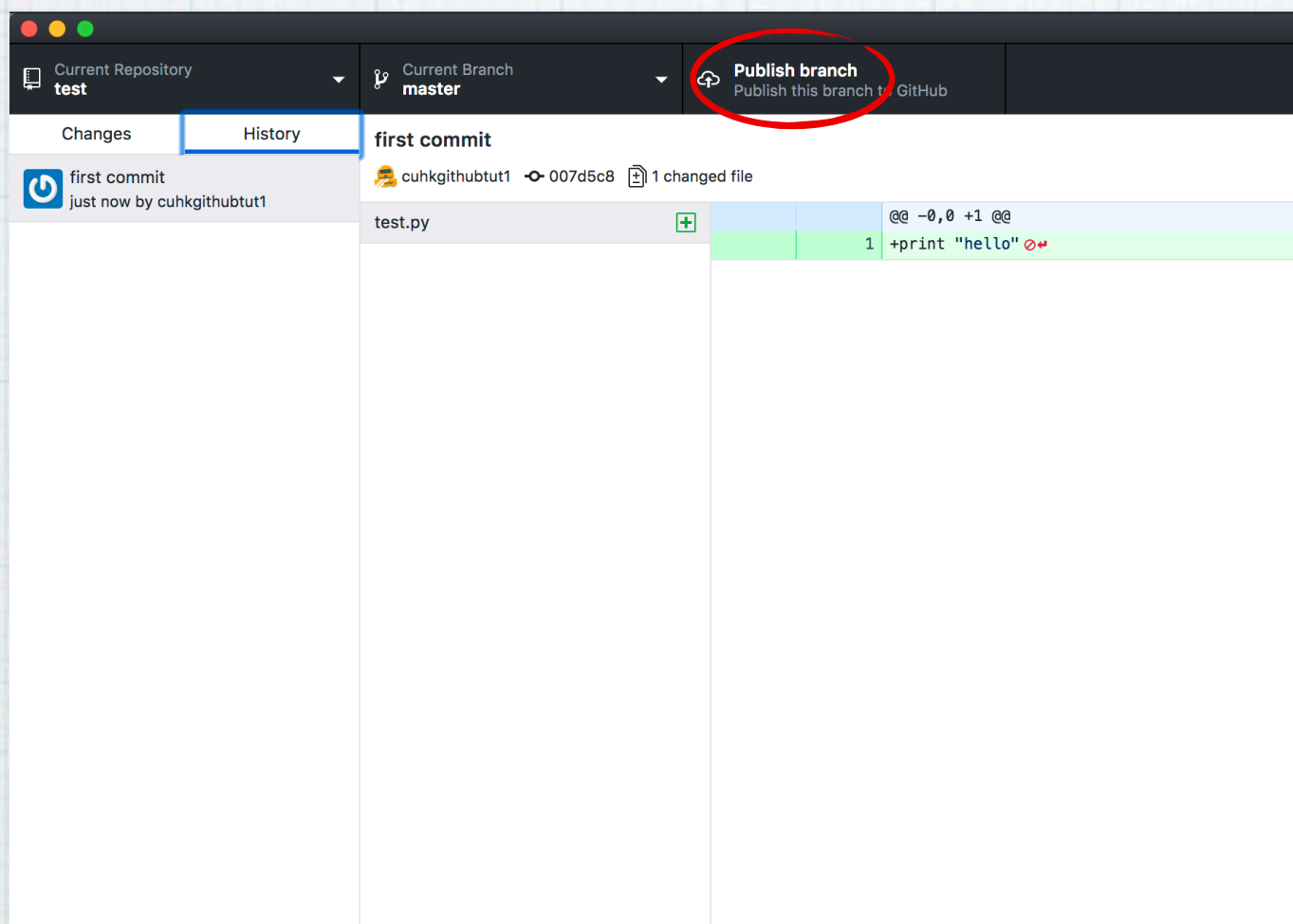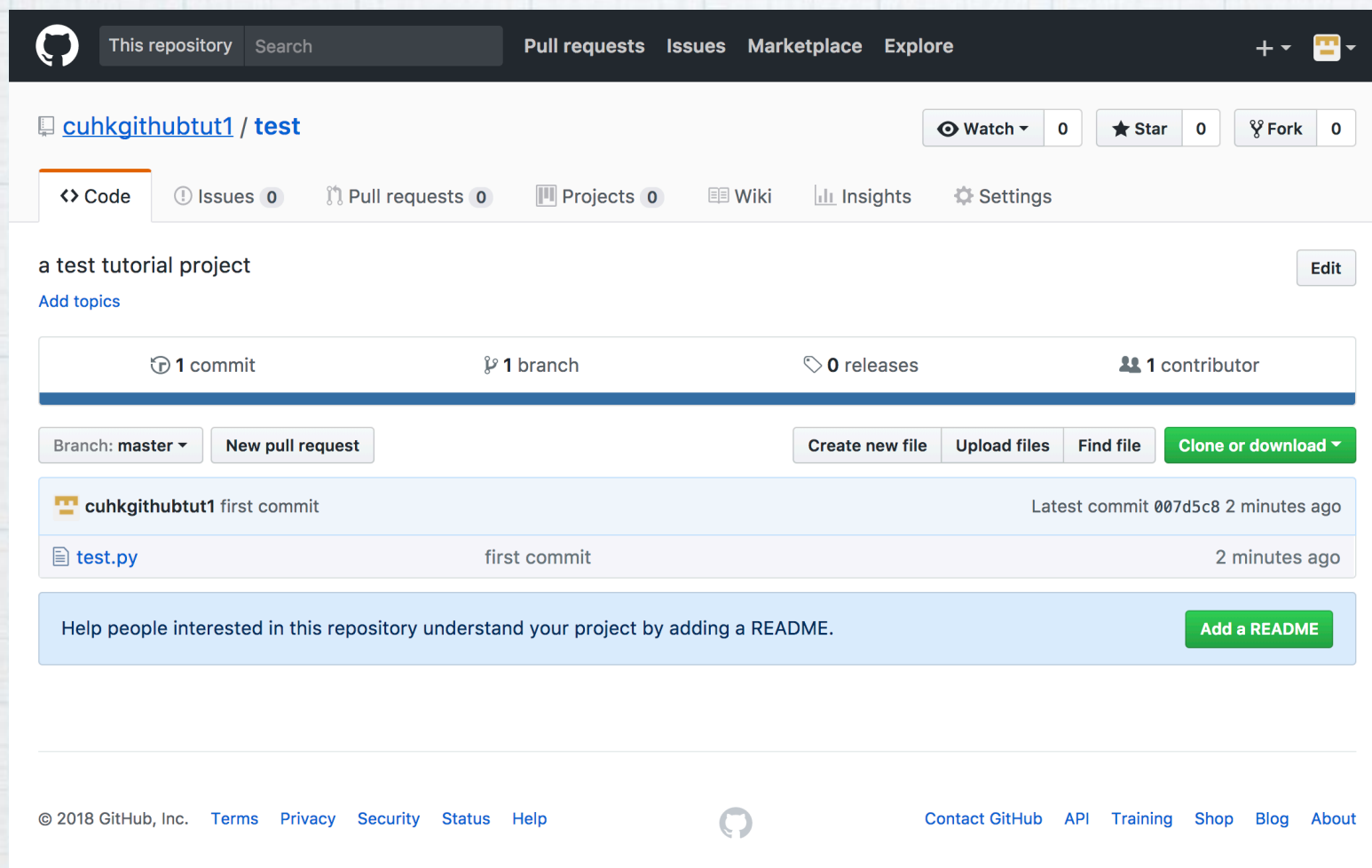▷ Click the "Publish branch" to upload our modification to GitHub

Operate by GUI

▷ Finally, we can see our code on GitHub.

Operate by Commands

Operate by Commands

▷ git clone https://github.com/cuhkgithubtut1/test.git

▷ make some changes in file test.c

▷ git add test.c

▷ git commit -m "I have changed test.c"

▷ git push origin master

▷ git pull (others can use this to get latest version)

Thanks!