Git learning tutorial

https://git-scm.com/docs

1. Install Git

Homebrew

Xcode

<https://gist.github.com/derhuerst/1b15ff4652a867391f03#file-mac-md>

1. Set up and config

$ git config --global user.name "Your Name"

$ git config --global user.email "email@example.com"

1. Create repository

First, choose or create a directory where you want to create repository. It can be empty/

$ mkdir learngit

$ cd learngit

$ pwd

/Users/michael/learngit

This repository is located in the /Users/michael/learngit

Then, git init. This directory could be managed by Git.

$ git init

Initialized empty Git repository **in** /Users/michael/learngit/.git/

Result: create an empty Git repository. Now, learngit directory is a Git repository that can be managed by Git. The txt, or code should be imported into this directory, otherwise Git has no access to them.

There will be a directory called .git.

If you cannot see this directory, you can use ls -ah command.

1. Import documents into Git repository

Two steps

add，then commit

$ git add readme.txt

$ git **commit** -m "wrote a readme file"

[master (root-**commit**) eaadf4e] wrote a readme file

1 file changed, 2 insertions(+)

**create** mode 100644 readme.txt

git commit, -m <msg>: the explanation for this action, so that we can keep record of each change in this repository.

We can add many documents at one time.

$ git add file1.txt

$ git add file2.txt file3.txt

$ git commit -m "add 3 files."