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Contrôle de version avec git et github

Travailler avec git et github

Créer un référentiel


=> <https://github.com/new>

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

Required fields are marked with an asterisk (*).

Owner *

 totophe4444 ▾

Repository name *

/ my-first-repo

✔ my-first-repo is available.

Great repository names are short and memorable. Need inspiration? How about [miniature-giggle](#) ?

Description (optional)

Practice account for learn github.

☒  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.

Initialize this repository with:

☒ Add a README file

This is where you can write a long description for your project. [Learn more about READMEs](#).

Add .gitignore


.gitignore template: None ▾

Choose which files not to track from a list of templates. [Learn more about ignoring files](#).

Choose a license

License: None ▾

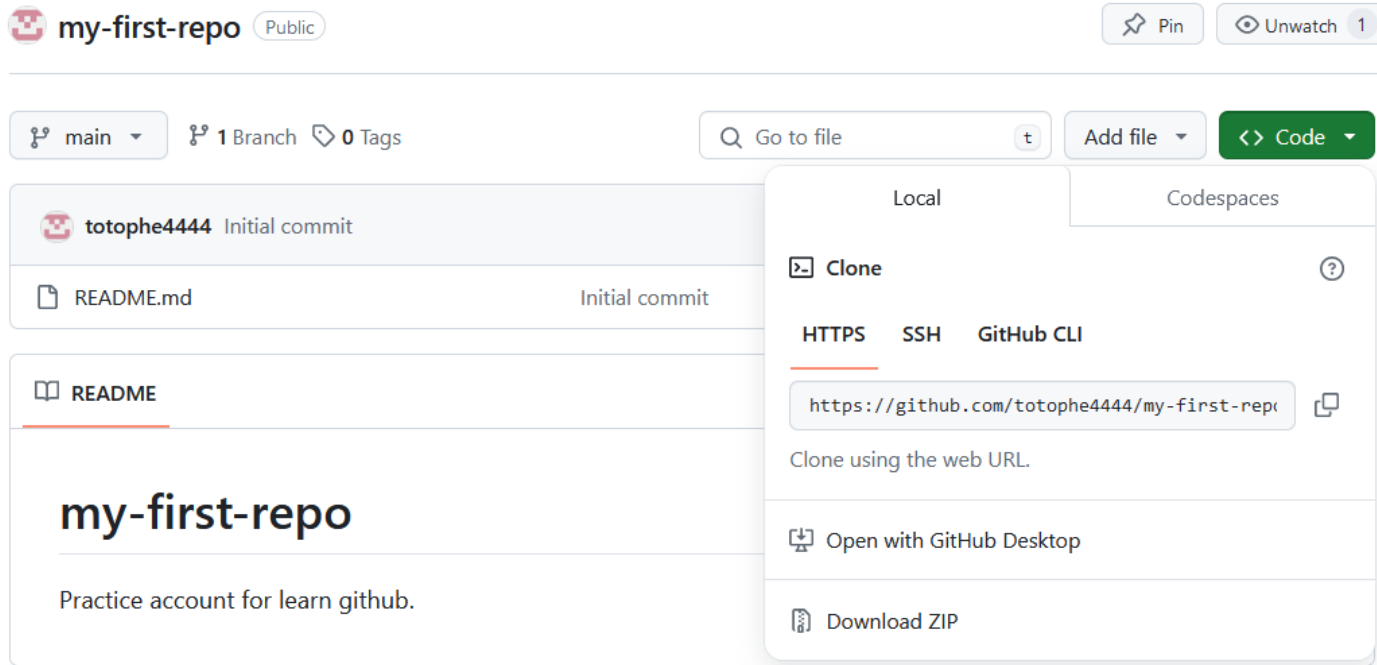
A license tells others what they can and can't do with your code. [Learn more about licenses](#).

This will set  main as the default branch. Change the default name in your [settings](#).

 You are creating a public repository in your personal account.

Create repository

Cloner un référentiel



Utilisez le protocole https pour cloner le projet

=> copiez l'adresse https

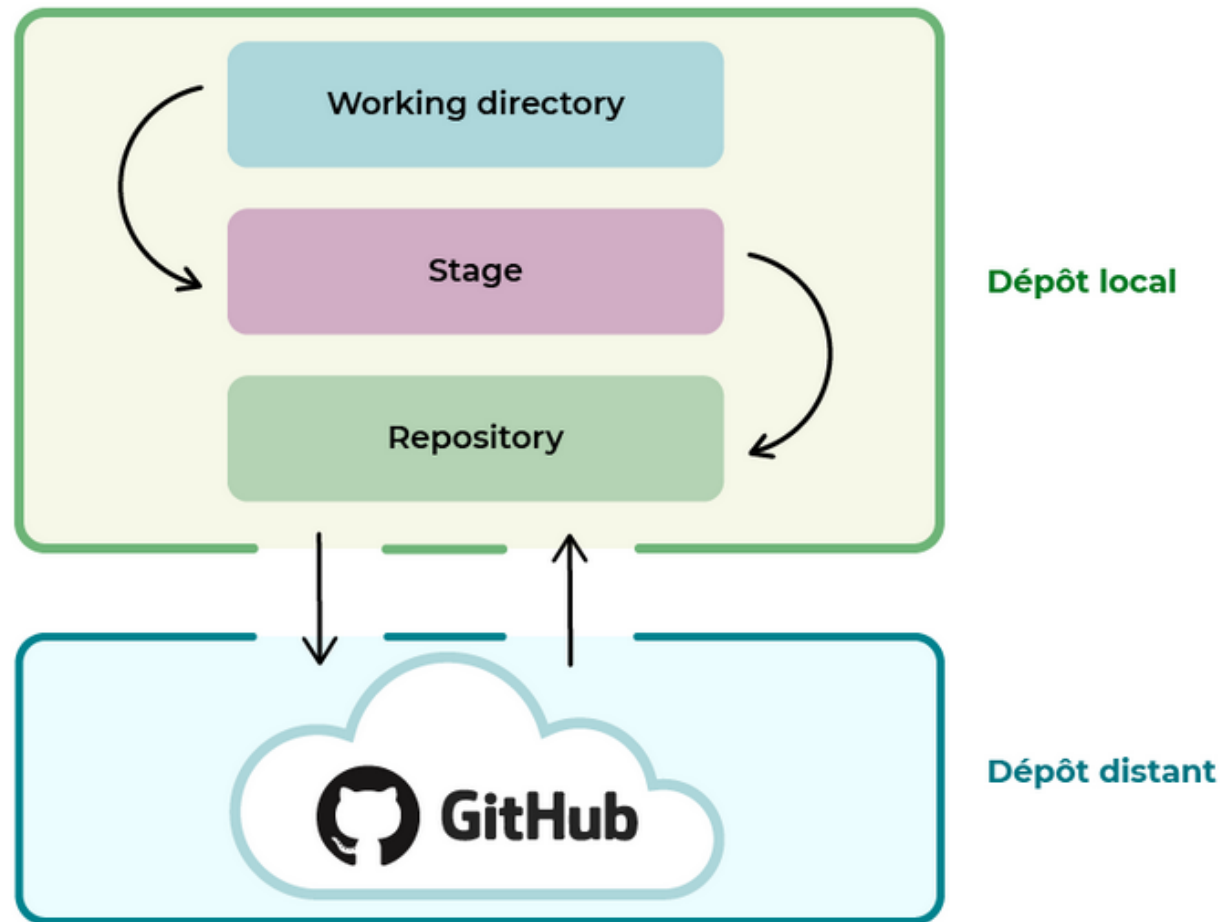
```
tophe@LAPTOP-FLENNB3D MINGW64 /c/tophe/mooc/coursera-version-c
$ cd my-first-repo/

tophe@LAPTOP-FLENNB3D MINGW64 /c/tophe/mooc/coursera-version-c
$ ls
README.md
```

```
tophe@LAPTOP-FLENNB3D MINGW64 /c/tophe/mooc/coursera-version-c
$ pwd
/c/tophe/mooc/coursera-version-controle/semaine-3/projet

tophe@LAPTOP-FLENNB3D MINGW64 /c/tophe/mooc/coursera-version-c
$ git clone https://github.com/totophe4444/my-first-repo.git
Cloning into 'my-first-repo'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```

Appréhendez le fonctionnement de Git

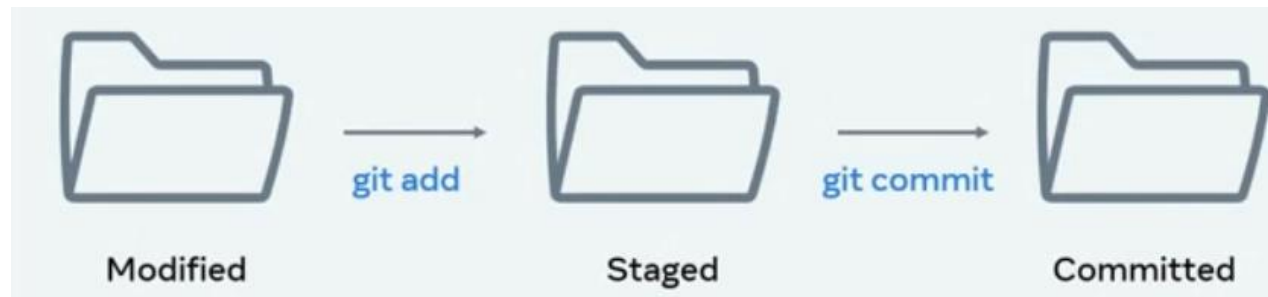


Le Working directory = dossier du projet sur votre ordinateur. Répertoire de travail

Le Stage ou index = tous les fichiers modifiés qui seront dans la prochaine version de code. Zone de préparation.

Repository = nouvelles versions d'un projet

Flux de travail git



Staged area = zone planifiée => suivre les modifications des fichiers placé dans cette zone.

Commit : la validation d'un fichier s'apparente à un point de sauvegarde (nouvelle version du fichier).

```
tophe@LAPTOP-FLENNB3D MINGW64 /c/tophe/mooc/coursera
$ ls -la
total 5
drwxr-xr-x 1 tophe 197121  0 Mar 28 11:21 ./
drwxr-xr-x 1 tophe 197121  0 Mar 28 11:21 ../
drwxr-xr-x 1 tophe 197121  0 Mar 28 11:21 .git/
-rw-r--r-- 1 tophe 197121 51 Mar 28 11:21 README.md
```

.git = dossier caché, utilisé pour suivre toutes les modifications.

```
tophe@LAPTOP-FLENNB3D MINGW64 /c/to
$ cat README.md
# my-first-repo
Practice account for learn github.
```

Ajouter et valider des fichiers

Vérifier si des modifications ont été effectuées.

```
tophe@LAPTOP-FLENNB3D MINGW64 /c/tophe/mooc/co
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

=> branche principale

=> les fichiers sont exactement les même que sur github.

=> branche principale

Créer un fichier test.txt

```
tophe@LAPTOP-FLEN
$ touch test.txt
```

```
tophe@LAPTOP-FLENNB3D MINGW64 /c/tophe/mooc/coursera-version-controle/semaine
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
       test.txt

nothing added to commit but untracked files present (use "git add" to track)
```

git add <fichier> => permettre à git de suivre les modification du fichier (git add .).

```
tophe@LAPTOP-FLENNB3D MINGW64 /c/tophe/mooc/coursera
$ git add test.txt

tophe@LAPTOP-FLENNB3D MINGW64 /c/tophe/mooc/coursera
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
       new file:   test.txt
```

Validation des évolutions

```
$ git commit -m "Adding a new file for testing"
[main 46170b2] Adding a new file for testing
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 test.txt

tophe@LAPTOP-FLENNB3D MINGW64 /c/tophe/mooc/coursera
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

Envoyer la nouvelle version sur le dépôt distant :

```
$ git push origin main
```

=> visualiser le projet en ligne sur github