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Contrôle de version avec git et github

Pointeur HEAD

Dossier .git : est responsable de tracer toutes les modifications du projet.

Pointeur HEAD = pointe sur la branche courante, est un fichier du répertoire .git

```
$ 1s

COMMIT_EDITMSG HEAD config hooks/ info/ objects/ refs/
FETCH_HEAD ORIG_HEAD description index logs/ packed-refs

tophe@LAPTOP-FLENNB3D MINGW64 /c/tophe/mooc/coursera-version-controle/sema projet/my-first-repo/.git (GIT_DIR!)
$ cat HEAD ref: refs/heads/main
```

```
$ cat refs/heads/main
2459f5b71c65032cb5981cdcef23a7cc9c39c956
```

=> id haché qui identifie le commit actuel.

Changeons de branche:

```
$ git branch
   feature/lesson

* main

tophe@LAPTOP-FLENNB3D MINGW64 /c/tophe/mooc/coursera-ver
projet/my-first-repo (main)

$ git checkout feature/lesson
Switched to branch 'feature/lesson'
Your branch is up to date with 'origin/feature/lesson'.

tophe@LAPTOP-FLENNB3D MINGW64 /c/tophe/mooc/coursera-ver
projet/my-first-repo (feature/lesson)

$ git branch

* feature/lesson
main
```

```
$ cat .git/HEAD
ref: refs/heads/feature/lesson
```

\$ cat .git/refs/heads/feature/lesson 93cd1c7fc5f7470701a31b8dba9d1ca52b3a010b

Revenons dans la branche principale.

```
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

```
$ cat .git/refs/heads/main
2459f5b71c65032cb5981cdcef23a7cc9c39c956
```

```
$ 1s
README.md test.txt test2.txt

=> Modifier le fichier test.txt

Mettre à jour les commit =>

tophe@LAPTOP
ain)
$ git add .
```

```
$ git commit -m "modification mineur"
[main 5f836a4] modification mineur
1 file changed, 1 insertion(+)
```

```
$ cat .git/refs/heads/main
5f836a494768b8598dcb0af974c8ac19c2955a0d
```

Chaque fois qu'une modification est apportée à un commit, l'identifiant unique haché est mis à jour et devient le dernier commit pour ce répertoire de travail.