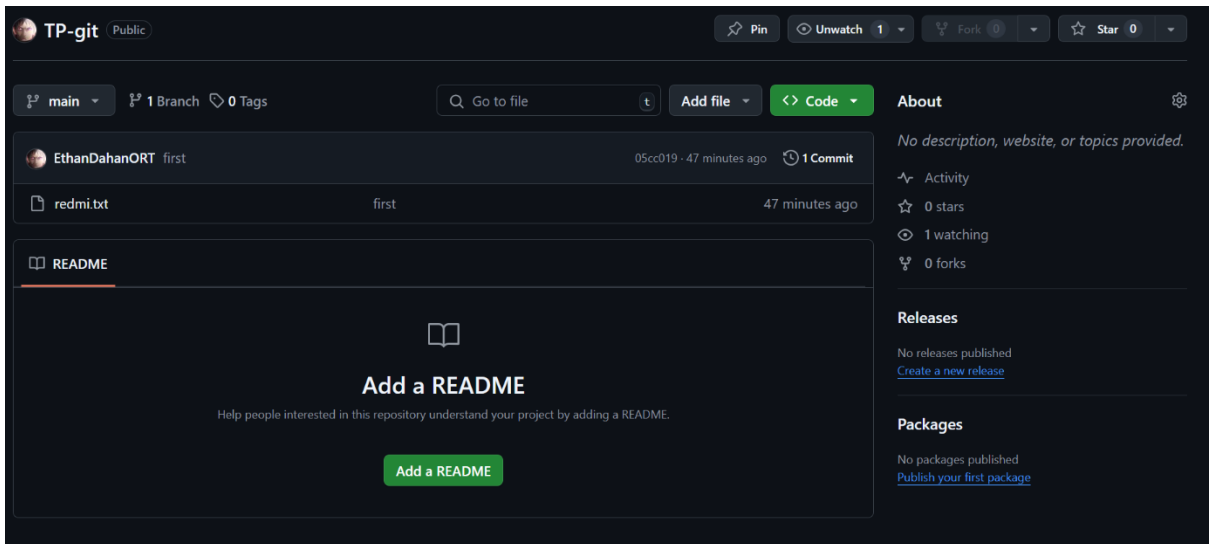


TP-GIT-Branche

Pour commencer on va créer notre repository et notre fichier redmi.



Ensuite on tape la commande « **git clone** » afin de copier celui-ci dans un nouveau répertoire puis on accède au répertoire via la commande **cd** le nom du répertoire.

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~ (main)
$ git clone https://www.github.com/EthanDahanORT/TP-git
Cloning into 'TP-git'...
warning: redirecting to https://github.com/EthanDahanORT/TP-git.git/
warning: You appear to have cloned an empty repository.

EthanD@LAPTOP-DOUA47GF MINGW64 ~ (main)
$ cd TP-git

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ ls -a
./ ../ .git/

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git status
On branch main

No commits yet

nothing to commit (create/copy files and use "git add" to track)
```

Ensuite on fait un « git Status » permet d'afficher l'état du répertoire de travail. Ici on voit qua ça na pas marché :

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git status
On branch main

No commits yet

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

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

Ici on voit qua ça à marcher :

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git status
On branch main

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   redmi.txt
```

Ensuite on fait un git commit :

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git commit -m "first"
[main (root-commit) 05cc019] first
 1 file changed, 1 insertion(+)
 create mode 100644 redmi.txt
```

Puis on fait un git push qui permet d'ajouter les contenus d'un dépôt local vers un dépôt central :

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git push
warning: redirecting to https://github.com/EthanDahanORT/TP-git.git/
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 212 bytes | 212.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://www.github.com/EthanDahanORT/TP-git
 * [new branch]      main -> main
```

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git config --global user.name "Ethan Dahan"

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git config --global user.email "Ethan.DAHAN@ortmontreuil.fr"
```

Ensuite on crée le répertoire `tp_git_python_1` avec la commande « `mkdir` » puis on accède à ce répertoire via la commande « `cd` »

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ mkdir tp_git_python_1

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ cd tp_git_python_1
```

Ensuite on fait `git init` puis un `ls -a`

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git/tp_git_python_1 (main)
$ git init
Initialized empty Git repository in C:/Users/33782/TP-git/tp_git_python_1/.git/

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git/tp_git_python_1 (master)
$ ls

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git/tp_git_python_1 (master)
$ ls -a
./  ../  .git/
```

Ensuite on fait un `git status` :

```
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   ../redmi.txt

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

no changes added to commit (use "git add" and/or "git commit -a")
```

Puis on ajoute le fichier `hello.py` à la racine et `redmi.txt` :

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git add hello.py ^C

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git add redmi.txt
```

On voit ici que le fichier redmi a été modifié :

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

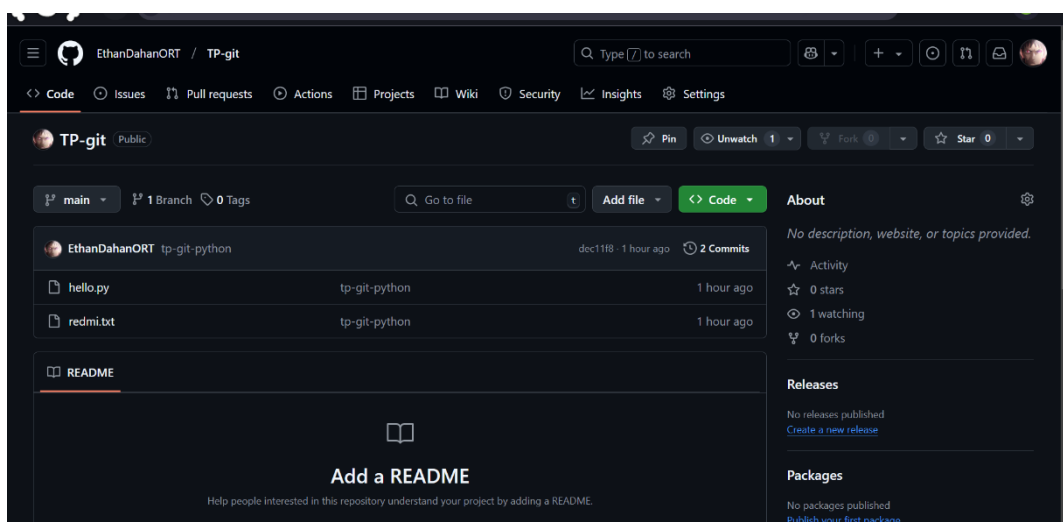
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   hello.py
        modified:   redmi.txt
```

Puis on commit et on push :

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git commit -m 'tp-git-python'
[main dec11f8] tp-git-python
 2 files changed, 2 insertions(+), 1 deletion(-)
 create mode 100644 hello.py

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git push
warning: redirecting to https://github.com/EthanDahanORT/TP-git.git/
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 343 bytes | 343.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://www.github.com/EthanDahanORT/TP-git
   05cc019..dec11f8  main -> main
```

Ensuite lorsqu'on va sur github in voit bien que nos deux fichiers ont bien été pris en compte.



TP2 Apprendre les branches avec un sandBox.

Pour commencer on va créer la branche avec la commande :

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git branch tpbranche
```

Puis on fait un git checkout pour passer au répertoire tpbranche :

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git checkout tpbranche
Switched to branch 'tpbranche'
M       hello.py

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (tpbranche)
$ git status
On branch tpbranche
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   hello.py

no changes added to commit (use "git add" and/or "git commit -a")
```

Ensuite on rajoute le fichier hello.py dans le répertoire « tpbranche » puis on fait un git status :

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (tpbranche)
$ git add hello.py

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (tpbranche)
$ git status
On branch tpbranche
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.py

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (tpbranche)
$ git commit -m "branche"
[tpbranche fe8dc5d] branche
1 file changed, 4 insertions(+)
```

Ensuite on switch de tpbranche pour retourner au main

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git merge tpbranche
Updating dec11f8..fe8dc5d
Fast-forward
 hello.py | 4 ++++
 1 file changed, 4 insertions(+)
```

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ 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
```

Ensuite on va fusionner les deux branches via les commandes suivantes :

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git commit -m "merge"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git add redmi.txt

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git commit -m "merge"
[main f1c3f47] merge
1 file changed, 3 insertions(+), 1 deletion(-)

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git push
warning: redirecting to https://github.com/EthanDahanORT/TP-git.git/
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 316 bytes | 316.00 KiB/s, done.
```

On voit que notre merge apparait bien :

The screenshot shows the GitHub interface for a repository named 'TP-git' (Public). The main branch is 'main', and there are 2 branches and 0 tags. A search bar and buttons for 'Add file' and 'Code' are visible. The commit history shows a merge commit by 'EthanDahanORT' with commit hash 'f1c3f47' and the message 'merge', made 6 minutes ago. The commit details show two files: 'hello.py' (branch) and 'redmi.txt' (merge), both updated 6 minutes ago. Below the commit history, there is a section for 'README' with a large 'Add a README' button and a message: 'Help people interested in this repository understand your project by adding a README.'

Ici on supprime la branche :

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git branch -d tpbranche
Deleted branch tpbranche (was fe8dc5d).
```

Ici on voit que notre tp branche a bien été supprimé :

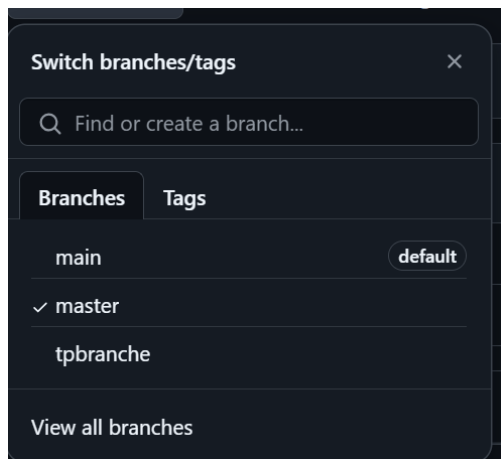
```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git branch
* main
```

Ici on créer notre branche master :









```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git branch master
```

On voit ici que notre branche master et discussion ont bien été créés via la commande « git branch »:

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (master)
$ git branch
discussion
main
* master
```



Your branches					
Branch		Updated	Check status	Behind Ahead	Pull request
discussion		now		0 0	..
master		20 minutes ago		0 0	..

d	EthanDahanORT committed now	beb65ef		
c	EthanDahanORT committed 1 minute ago	51dd14e		
b	EthanDahanORT committed 2 minutes ago	a30fa13		
a	EthanDahanORT committed 3 minutes ago	961f2fd		

```
EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git commit -m "d"
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   hello.py







no changes added to commit (use "git add" and/or "git commit -a")

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git add .









EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git commit -m "d"
[main beb65ef] d
1 file changed, 1 insertion(+), 1 deletion(-)

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git push
warning: redirecting to https://github.com/EthanDahanORT/TP-git.git/
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 302 bytes | 302.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://www.github.com/EthanDahanORT/TP-git
51dd14e..beb65ef  main -> main
```

On voit que les commit ont bien marché via les commandes ci-dessus et à bien été pris en compte sur github sur la branche main.

Commits on Jan 8, 2025				
g	EthanDahanORT committed now	901234f		
f	EthanDahanORT committed 1 minute ago	8f8b669		
e	EthanDahanORT committed 3 minutes ago	0679937		

Avec la commande rebase on fusionne les deux branches et on peut voir qu'on retrouve de a jusqu'à b.

merge
 EthanDahanORT committed 1 minute ago
g
 EthanDahanORT committed 17 minutes ago
f
 EthanDahanORT committed 18 minutes ago
e
 EthanDahanORT committed 20 minutes ago
d
 EthanDahanORT committed 26 minutes ago
c
 EthanDahanORT committed 26 minutes ago
b
 EthanDahanORT committed 28 minutes ago
a
 EthanDahanORT committed 29 minutes ago

```
hint: Please, commit your changes before merging.
fatal: Exiting because of unfinished merge.

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main|MERGING)
$ git merge
fatal: You have not concluded your merge (MERGE_HEAD exists).
Please, commit your changes before you merge.

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main|MERGING)
$ git reset HEAD
Unstaged changes after reset:
D      hello.py

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git pull
warning: redirecting to https://github.com/EthanDahanORT/TP-git.git/
Auto-merging hello.py
CONFLICT (content): Merge conflict in hello.py
Automatic merge failed; fix conflicts and then commit the result.

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main|MERGING)
$ git rm hello.py
rm 'hello.py'

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main|MERGING)
$ git commit -m "merge"
[main ala409e] merge

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git pull
warning: redirecting to https://github.com/EthanDahanORT/TP-git.git/
Already up to date.

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git push
warning: redirecting to https://github.com/EthanDahanORT/TP-git.git/
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (1/1), done.
Writing objects: 100% (2/2), 266 bytes | 266.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
To https://www.github.com/EthanDahanORT/TP-git
   beb65ef..ala409e  main -> main

EthanD@LAPTOP-DOUA47GF MINGW64 ~/TP-git (main)
$ git pull
warning: redirecting to https://github.com/EthanDahanORT/TP-git.git/
Already up to date.
```