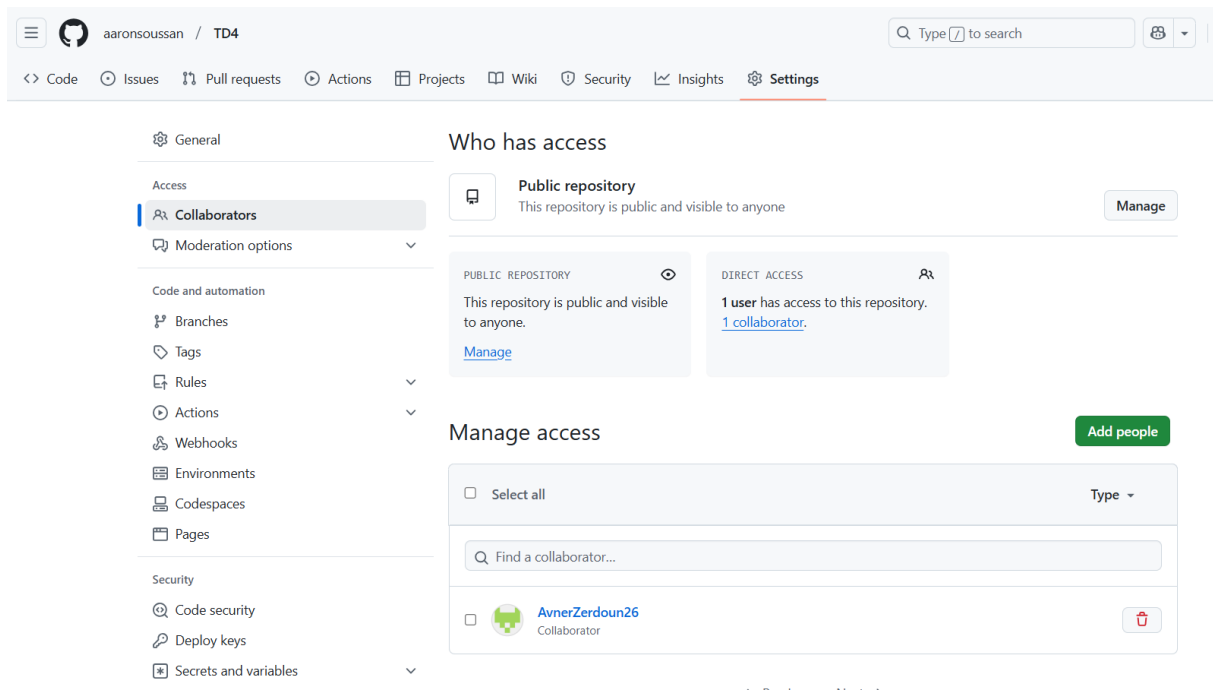


## TD4- GITHUB

Dans ce TP AARON est A+ et AVNER est B+

A+ : Création d'un répertoire partager et ajout d'un collaborateur



B+ : Clonage du repository

```
C:\Users\avner>git clone https://github.com/aaronsooussan/TD4.git
Cloning into 'TD4'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
```

## B+ :Création d'un fichier index.html

```
index.html X TP Collaborer avec Git.md
C: > Users > avner > TD4 > index.html > ...
1  <!DOCTYPE html>
2  <html lang="fr">
3      <head>
4          <meta charset="UTF-8">
5          <meta name="viewport" content="width=device-width, initial-scale=1.0">
6          <title>TP4</title>
7      </head>
8      <body>
9          <p>Hello world</p>
10     </body>
11 </html>
12
```

## B+ : Commit et Push du fichier

```
avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (main)
$ git add .

avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (main)
$ ls
README.md  index.html

avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (main)
$ git commit -m "Commit 1"
[main 5f42706] Commit 1
1 file changed, 11 insertions(+)
create mode 100644 index.html

avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (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

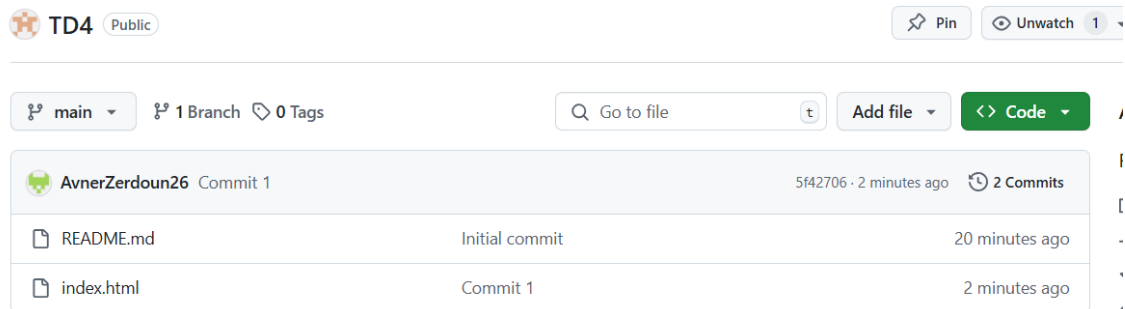
avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

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:   index.html

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

avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (main)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 441 bytes | 441.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/aaronsoussan/TD4.git
 f161fe3..5f42706  main -> main
```

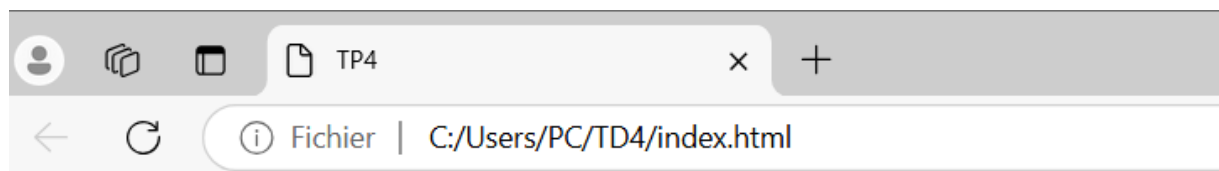
A+ : Les modifications ont bien été reçues pas le server



A+ : Avec la commande pull --ff-only on récupère les modifications

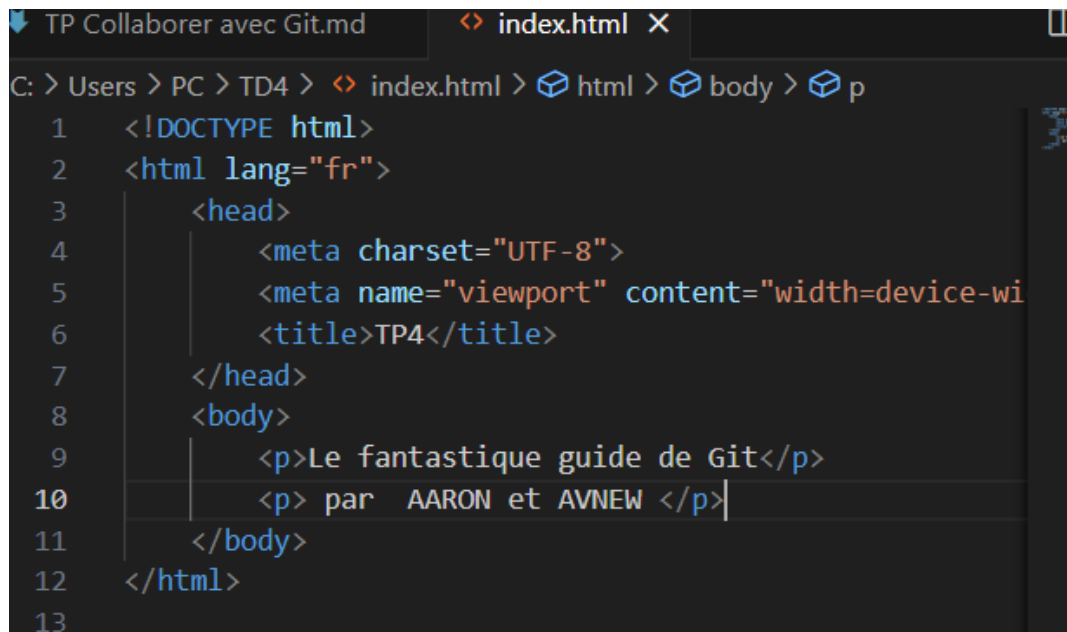
```
PC@DESKTOP-0KN0PR9 MINGW64 ~/td4 (main)
$ git pull --ff-only
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 3 (delta 1), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 312 bytes | 62.00 KiB/s, done.
From https://github.com/aaronsoissan/TD4
   5f42706..8b246c0  main       -> origin/main
Updating 5f42706..8b246c0
Fast-forward
 index.html | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
```

A+ Les modifications ont bien été apportés



Hello world 1

A+ : Modification du fichier

A screenshot of a code editor window with a dark theme. The title bar shows 'TP Collaborer avec Git.md' and 'index.html'. The breadcrumb navigation at the top reads 'C: > Users > PC > TD4 > index.html > html > body > p'. The code is an HTML document with the following content:

```
1 <!DOCTYPE html>
2 <html lang="fr">
3   <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-wi
6     <title>TP4</title>
7   </head>
8   <body>
9     <p>Le fantastique guide de Git</p>
10    <p> par  AARON et AVNEW </p>
11  </body>
12 </html>
13
```

A+ : Commit et Push

```
PC@DESKTOP-OKN0PR9 MINGW64 ~/td4 (main)
$ git add .

PC@DESKTOP-OKN0PR9 MINGW64 ~/td4 (main)
$ git commit -m "commit3"
[main ab59a43] commit3
1 file changed, 2 insertions(+), 1 deletion(-)

PC@DESKTOP-OKN0PR9 MINGW64 ~/td4 (main)
$ git push
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), 378 bytes | 378.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/aaronsoissan/TD4.git
8b246c0..ab59a43  main -> main
```

## B+ : Utilisation de Git fetch et création de commande.html

```
avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (main)
$ ls
README.md  commandes.html  index.html

avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (main)
$ 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)
    commandes.html

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

avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (main)
$ git fetch
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 3 (delta 1), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 358 bytes | 32.00 KiB/s, done.
From https://github.com/aaronsoussan/TD4
   8b246c0..ab59a43  main       -> origin/main

avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (main)
$ git status
On branch main
Your branch is behind 'origin/main' by 1 commit, and can be fast-forwarded.
  (use "git pull" to update your local branch)

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

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

Nous pouvons récupérer les modifications faites par le collaborateur sans pour autant pousser la notre

```
avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (main)
$ git pull --ff-only
Updating 8b246c0..ab59a43
Fast-forward
 index.html | 3 ++-
 1 file changed, 2 insertions(+), 1 deletion(-)

avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (main)
$ 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)
    commandes.html

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

A+ : Création de style.css puis commande fetch et status

```
PC@DESKTOP-0KN0PR9 MINGW64 ~/td4 (main)
$ git fetch
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 399 bytes | 26.00 KiB/s, done.
From https://github.com/aaronsoissan/TD4
   ab59a43..be8b710  main       -> origin/main

PC@DESKTOP-0KN0PR9 MINGW64 ~/td4 (main)
$ git status
On branch main
Your branch is behind 'origin/main' by 1 commit, and can be fast-forwarded.
  (use "git pull" to update your local branch)

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:   index.html

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

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

Git log

```
PC@DESKTOP-0KN0PR9 MINGW64 ~/td4 (main)
$ git log
commit be8b7104dd0c3c7738757cd6c9c59ed20af6e9a7 (HEAD -> main, origin/main, origin/HEAD)
Author: Avner Cv <avner.zerdoun@gmail.com>
Date:   Thu Jan 9 12:09:21 2025 +0100

    commit 4
```

B+ : Modification sur index.html puis pull des modifications

Cela ne peut pas s'exécuter puisque A+ a aussi modifier index.html

```
$ git pull --ff-only
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 1), reused 4 (delta 1), pack-reused 0 (from 0)
Unpacking objects: 100% (4/4), 492 bytes | 37.00 KiB/s, done.
From https://github.com/aaronsoissan/TD4
   be8b710..e6c91c1  main       -> origin/main
error: Your local changes to the following files would be overwritten by merge:
       index.html
Please commit your changes or stash them before you merge.
Aborting
Updating be8b710..e6c91c1
```



B+ : On utilise alors git stash pour pull les modifications en gardant de coter la notre

```
avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (main)
$ git stash
Saved working directory and index state WIP on main: be8b710 commit 4
```

```
$ git stash show
index.html | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)
```

On récupère la modification de B+ avec stash apply

```
avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (main)
$ git stash apply
Auto-merging index.html
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:   index.html

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

## Faites la guerre

A+ : le push est passé

---

 index.html

g gagner

3 minutes ago

B+ : le push a échoué

```
avner@LAPTOP-CQGLLFKU MINGW64 ~/TD4 (main|MERGING)
$ git push
To https://github.com/aaronsooussan/TD4.git
! [rejected]        main -> main (non-fast-forward)
error: failed to push some refs to 'https://github.com/aaronsooussan/TD4.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. Integrate the remote changes (e.g.
hint: 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
```

## Faites la paix

On utilise la commande gitk pour analyser

```
unknown <aaron.soussan@ortmontre 2025-01-09 12:47:02
Avner Cv <avner.zerdoun@gmail.com 2025-01-09 12:43:32
unknown <aaron.soussan@ortmontre 2025-01-09 12:24:36
Avner Cv <avner.zerdoun@gmail.com 2025-01-09 12:09:21
unknown <aaron.soussan@ortmontre 2025-01-09 11:51:56
Avner Cv <avner.zerdoun@gmail.com 2025-01-09 11:43:56
Avner Cv <avner.zerdoun@gmail.com 2025-01-09 11:36:56
aaronsooussan <113858055+aaronso 2025-01-09 11:18:13
```