

Creating a repo, Staging files,  
commits, see history

# 1)Creating a repository:

- Type the commands: **mkdir myProjet**  
**cd myProjet**
- If you already created a folder, grab its full path (windows file manager) then **cd fullPath**
- Type the command: **git init**

This command initialises an empty git repo, you can execute git init on a folder that already has content.

## 2)Staging files:

- **git status**

This command shows changed files and staged ones

- To stage files: **git add file1 file2 file3**

or to stage all files at once: **git add .**

- If you want to remove a file from the staging area:

**git rm --cached filename**

- IMPORTANT NOTE: you should commit ONLY on logical points (it's not good to have lots of commits and without a purpose)

### 3) Making commits:

- **git commit -m "message"**
- The message must have be significant and has a sense because you will get back after a time and you'll need to understand what you've done in that commit
- After the commit, git will show a message and a hex code, it's the commit id in a short version.

## 4) See the history of commits:

- You can see the history with details and commit id in full version or you can see the history in brief with commit id in short version.
- We will see an example in both cases:

## 4.1) See the history in details with `git log`:

```
$ git log
commit e5102bd04d550221c7945e72133f942d988bbb74 (HEAD -> master)
Author: ismail-cherrak <ismailcherrak481@gmail.com>
Date:   Mon Dec 18 00:08:29 2023 +0100

    third commit, modified file1.txt

commit 15667d00195bd3d78fdb989fb8f4195810ddb641
Author: ismail-cherrak <ismailcherrak481@gmail.com>
Date:   Mon Dec 18 00:07:11 2023 +0100

    second commit, creating file2.txt

commit 6fb5938c52087d96c9c44045f0682109a24fb327
Author: ismail-cherrak <ismailcherrak481@gmail.com>
Date:   Mon Dec 18 00:06:42 2023 +0100

    first commit, creating file1.txt
```

4.2) See the history in brief with **git log --oneline**:

```
$ git log --oneline
e5102bd (HEAD -> master) third commit, modified file1.txt
15667d0 second commit, creating file2.txt
6fb5938 first commit, creating file1.txt
```