# Version control – Git

## Terminology

* Commit = snapshot of files of your project
* Repo = directory containing your project
* Working directory = files in your local
* Checkout = content in repo has been copied to Working directory
* Stagging area = area where files will be added to the repo
  + Git add .
* SHA = unique identifier number of commit

## Git commands

### Create a repo

* Git init = create a local repo
* Git clone httpsAdresse = copy remote repo on your local

### Useful

* Git status = check status of a repo
  + Show the branch
  + If copied from remote repo, it will tell you the synchronization
  + Stagging area

### History

* Git log = show all commits
  + q = to quit
  + arrows up and down = move
  + git log --oneline = display shorter version
  + git log --stat = display more precise version with files modified
  + git log --p = display changes
  + if you add SHA after the command => will begin at the corresponding commit
* Git show SHA = show a given commit
  + --p
  + --stat

### Delete a repo

* rm -fr .git = go in the working directory and simply delete the .git file
* git status = to check if good, should display an error

### From Working directory to stagging area

* git add . = add all files or a specific to stagging area
* git status = check all files ready to be committed
* git rm --cached <file> = remove files from stagging area

### From stagging area to local repo

* git commit -m “msg”

### gitignore

* as we will git add . => add all element we can use a .gitignore file where we will specify all file that we don’t want to add