




## Objectifs de la séance

(05-06/03/2022)

Les objectifs de la séance d'aujourd'hui:

### Objectif 14.1 :

Apprendre à installer git et savoir utiliser ses commandes:

-  installation du Git
-  simples commandes
-  branching

## I. INSTALLATION GIT BASH

1. ALLER SUR LE SITE [HTTPS://GIT-SCM.COM/DOWNLOADS](https://git-scm.com/downloads):

TÉLÉCHARGER LA NOUVELLE VERSION GIT BASH SELON VOTRE SYSTÈME D'EXPLOITATION

### Downloads



Older releases are available and the Git source repository is on GitHub.



#### GUI Clients

Git comes with built-in GUI tools (**git-gui**, **gitk**), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

#### Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

[View Logos →](#)

2. INSTALLER SUR L'EXE SUR VOTRE MACHINE

# Download for Windows

Click here to download the latest (2.39.2) 64-bit version of Git for Windows. This is the most recent maintained build. It was released 3 days ago, on 2023-02-14.

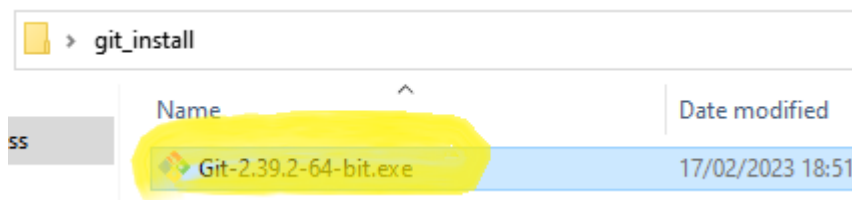
## Other Git for Windows downloads

### Standalone Installer

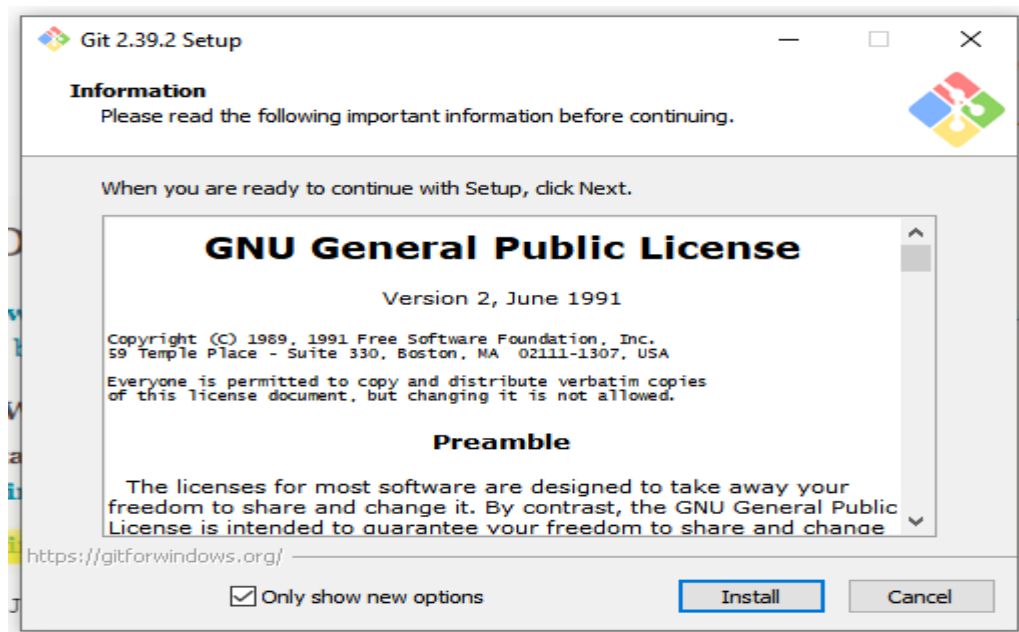
32-bit Git for Windows Setup.

64-bit Git for Windows Setup.

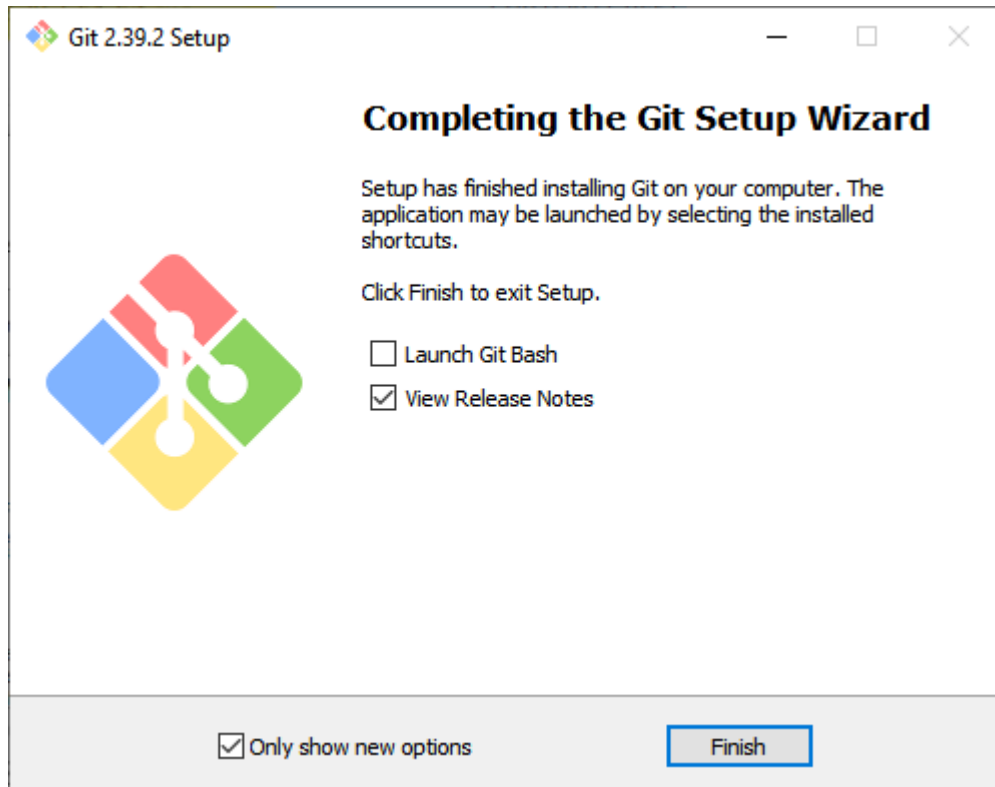
DANS MON CAS : J'AI TÉLÉCHARGÉ LA VERSION 2.39.2 POUR WINDOWS 64BIT



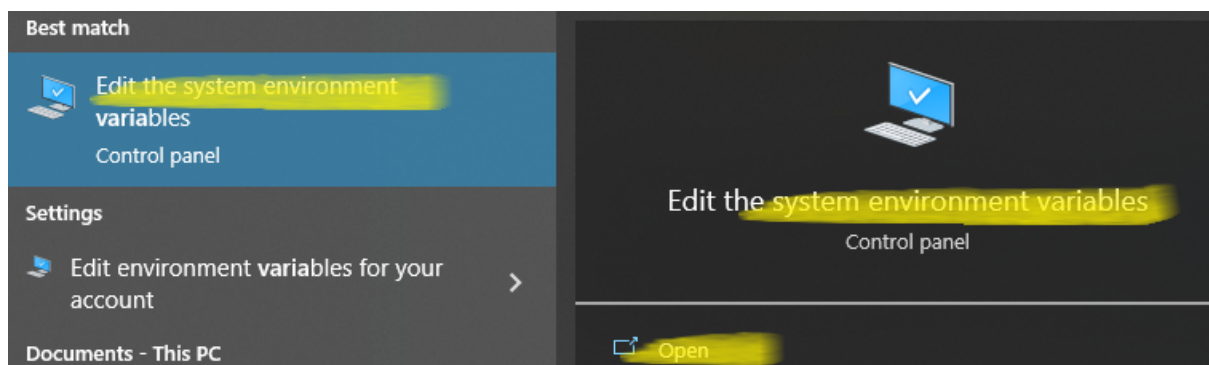
3. CLIQUER SUR GIT-2.39.2-64-BIT.EXE PUIS INSTALL



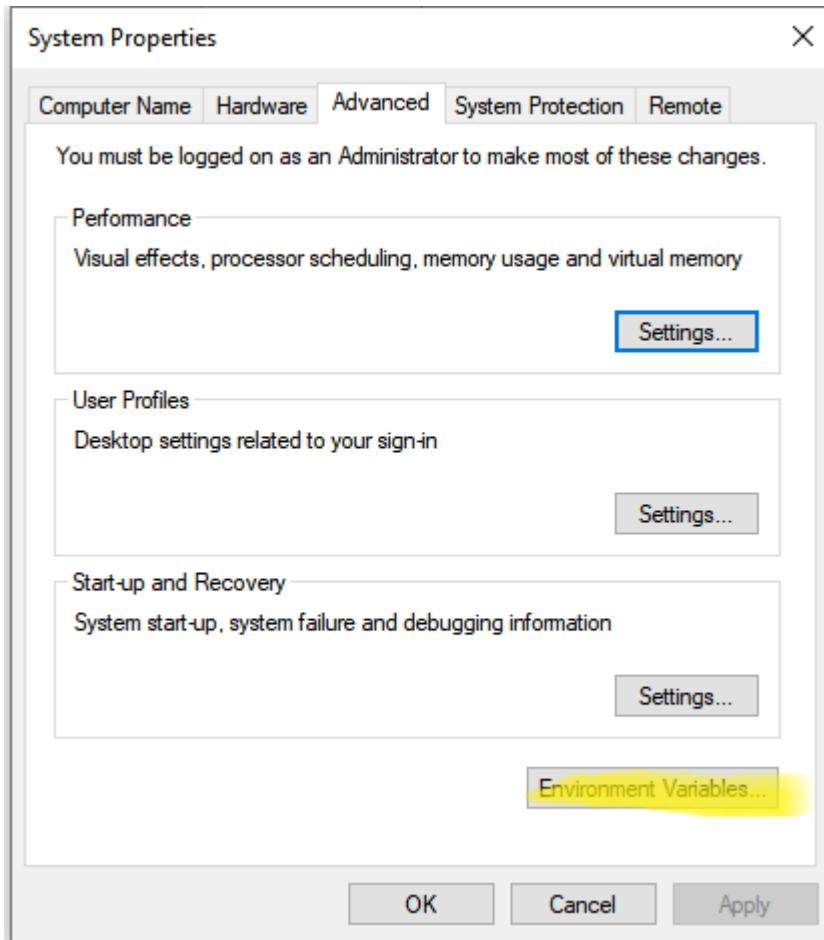
4. UNE FOIS INSTALLÉ, CLIQUER SUR FINISH



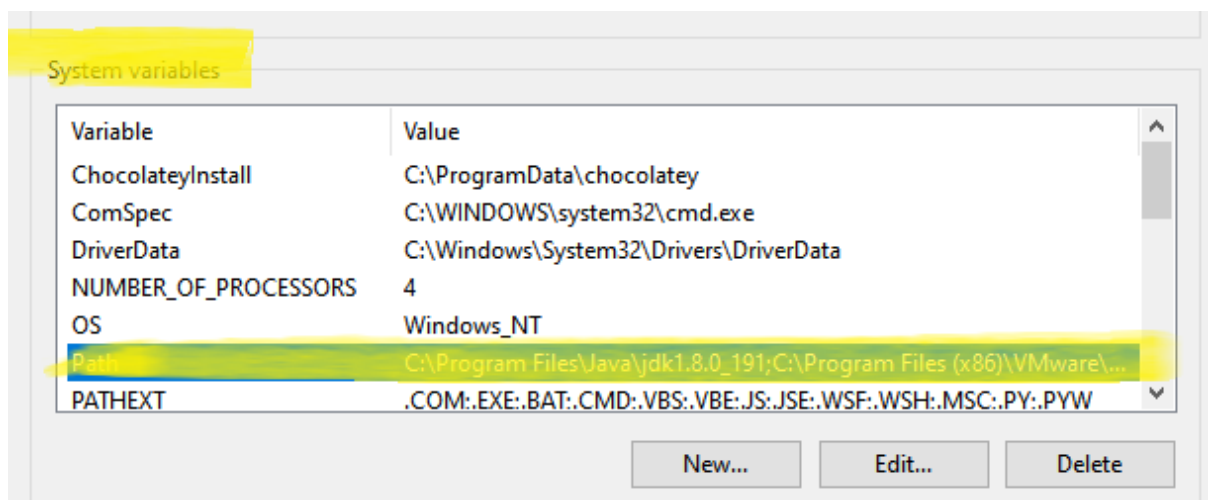
5. VÉRIFIER LE DOSSIER D'INSTALLATION DU GIT : C:\PROGRAM FILES\GIT
6. AJOUTER LES COMMANDES GIT AUX VARIABLES D'ENVIRONNEMENT.



CLIQUER SUR OPEN.



CLIQUEZ SUR ENVIRONMENT VARIABLES



DANS LES VARIABLES SYSTEM -> MODIFIER LA VARIABLE PATH EN AJOUTANT LE CHEMIN : C:\PROGRAM FILES\GIT\BIN (GARDER LES ANCIENS CHEMINS. LA SÉPARATION ENTRE LES CHEMINS SE FAIT PAR ;) )

7. REDÉMARRER INTELLIJ ET VÉRIFIER SI LES COMMANDES GIT SONT OPÉRATIONNELLES. DANS LE TERMINAL DE GIT LANCER LA COMMANDE : GIT VERSION (EN MINUSCULE)

Dossier des travaux pratiques. Module 3 : JEE and Fwks .Années scolaire 2021/2022. Niveau : Licence FST Settati

Professeur : M. Boulchahoub Hassan [hboulchahoub@gmail.com](mailto:hboulchahoub@gmail.com)

Mise à jour 17 Feb 2023

```
Terminal: Local x + v
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\LENOVO GAMER\Desktop\MonPFE> git version
git version 2.39.2.windows.1
PS C:\Users\LENOVO GAMER\Desktop\MonPFE>
```

8. CRÉER UN COMPTE SUR GITHUB OU SUR BITBUCKET.



Sign in to GitHub

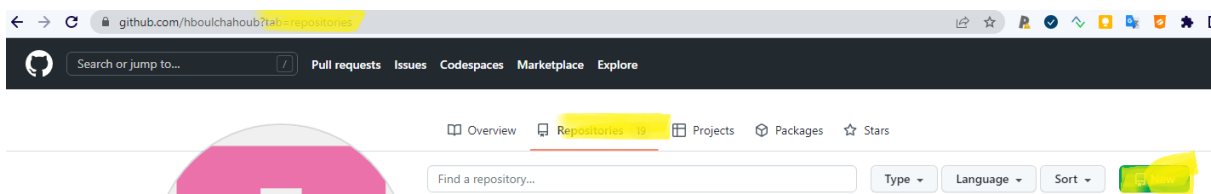
Username or email address

Password [Forgot password?](#)

**Sign in**

New to GitHub? [Create an account.](#)

9. CRÉER UN REPOSITORY DISTANT SUR VOTRE COMPTE GITHUB OU SUR BITBUCKET.




10. DONNEZ LE NOM DE VOTRE PROJET DANS LE REPO NAME. PUIS CLIQUER SUR CREATE

## Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?  
[Import a repository.](#)

Owner \* Repository name \*

 h Boulchahoub /  ✓



Great repository names are short, lowercase, and use hyphens. geoproject is available. Need inspiration? How about **studious-funicular**?

Description (optional)

11. NOTER L'URL DE VOTRE REPO DISTANT :

[HTTPS://GITHUB.COM/HBOULCHAHOUB/GEOPROJECT.GIT](https://github.com/hboulchahoub/geoproject.git)

Quick setup — if you've done this kind of thing before

 Set up in Desktop or ☐ HTTPS ☐ SSH  

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

12. SUR LE TERMINAL INTELLIJ, CRÉER LE RÉPERTOIRE .INIT EN LANÇANT LA COMMAND  
> GIT INIT

Terminal: Local   

```
PS C:\Users\LENOVO GAMER\Desktop\MonPFE> git init
Initialized empty Git repository in C:/Users/LENOVO GAMER/Desktop/MonPFE/.git/
```

13. SUR LE TERMINAL INTELLIJ, AJOUTER CE REPO DISTANT AVEC L'ALIAS ORIGIN

> GIT REMOTE ADD ORIGIN [HTTPS://GITHUB.COM/HBOULCHAHOUB/GEOPROJECT.GIT](https://github.com/hboulchahoub/geoproject.git)

14. VÉRIFIER LA CRÉATION DE CE REMOTE REPO

> GIT REMOTE -V

```
PS C:\Users\LENOVO GAMER\Desktop\MonPFE> git remote -v
origin https://github.com/hboulchahoub/geoproject.git (fetch)
origin https://github.com/hboulchahoub/geoproject.git (push)
```

15. VÉRIFIER LA SITUATION DES COMMITS PAR LA COMMANDE GIT STATUS

> GIT STATUS

```
PS C:\Users\LENOVO GAMER\Desktop\GeoProject> git status
```

```
On branch main
```

```
No commits yet
```

```
Untracked files:
```

```
(use "git add <file>..." to include in what will be committed)
```

```
.idea/
```

```
pom.xml
```

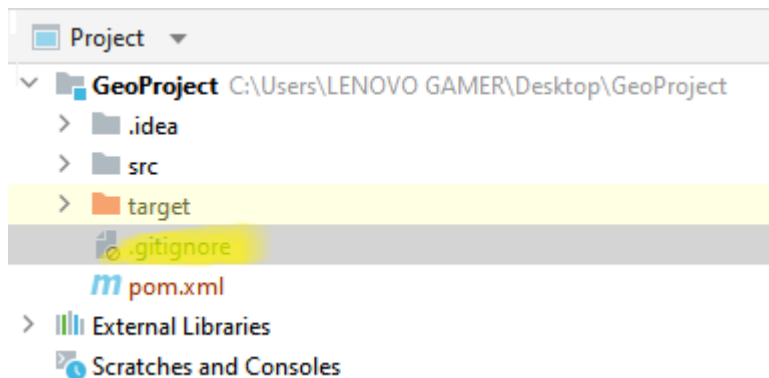
```
src/
```

```
target/
```

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

```
PS C:\Users\LENOVO GAMER\Desktop\GeoProject>
```

16. AJOUTER .GITIGNORE POUR IGNORER LE DOSSIER .IDEA/ ET LE DOSSIER TARGET/



LE CONTENU DE .GITIGNORE FILE

```
# Directories #
/build/
/bin/
/target/
.idea/

# OS Files #
.DS_Store

*.class

# Package Files #
*.jar
*.war
*.ear
*.db
```

17. REVÉRIFIER LA SITUATION DES COMMITS PAR LA COMMANDE GIT STATUS

```
> GIT STATUS
```

```
PS C:\Users\LENOVO GAMER\Desktop\GeoProject> git status
On branch main

No commits yet

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

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:   .gitignore

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        pom.xml
        src/
```

18. AJOUTER LES FICHIERS, POUR LES GÉRER PAR GIT. LA COMMANDE EST

```
> GIT ADD .
> GIT STATUS (POUR VERIFIER)
```

19. COMMITER LES FICHIER EN LOCAL, EN UTILISANT LA COMMANDE

```
> GIT COMMIT -AM "CREATE COMPONENTS OF MY PROJECT"
```

```
PS C:\Users\LENOVO GAMER\Desktop\GeoProject> git commit -am " create components of my project"
[main (root-commit) f522e69] create components of my project
12 files changed, 376 insertions(+)
create mode 100644 .gitignore
create mode 100644 pom.xml
create mode 100644 src/main/java/ma/geo/GeoApplication.java
create mode 100644 src/main/java/ma/geo/local/controllers/StudentController.java
create mode 100644 src/main/java/ma/geo/local/dtos/StudentDTO.java
create mode 100644 src/main/java/ma/geo/local/entities/StudentEntity.java
create mode 100644 src/main/java/ma/geo/local/mappers/StudentMapper.java
create mode 100644 src/main/java/ma/geo/local/repositories/StudentRepository.java
create mode 100644 src/main/java/ma/geo/local/repositories/StudentRepositoryImpl.java
create mode 100644 src/main/java/ma/geo/local/services/StudentService.java
create mode 100644 src/main/java/ma/geo/local/services/StudentServiceImpl.java
create mode 100644 src/main/resources/application.yml
```

```
> GIT STATUS (POUR VERIFIER)
```



```
PS C:\Users\LENOVO GAMER\Desktop\GeoProject> git status
On branch main
nothing to commit, working tree clean
```

## 20. CRÉER UNE BRANCHE LOCALE "TP/11/02"

```
> GIT CHECKOUT -B TP/11/02
> GIT STATUS
```

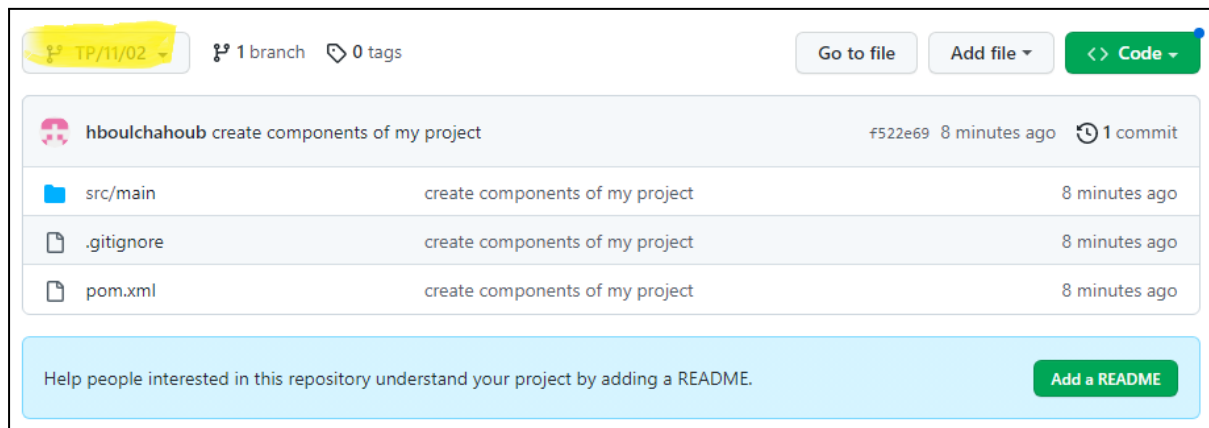
```
PS C:\Users\LENOVO GAMER\Desktop\GeoProject> git checkout -b TP/11/02
Switched to a new branch 'TP/11/02'
PS C:\Users\LENOVO GAMER\Desktop\GeoProject> git status
On branch TP/11/02
nothing to commit, working tree clean
```

## 21. POUSSER LA BRANCHE "TP/11/02" SUR LE REPO DISTANT.

```
> GIT PUSH ORIGIN TP/11/02
```

```
PS C:\Users\LENOVO GAMER\Desktop\GeoProject> git push origin TP/11/02
Enumerating objects: 27, done.
Counting objects: 100% (27/27), done.
Delta compression using up to 4 threads
Compressing objects: 100% (20/20), done.
Writing objects: 100% (27/27), 4.29 KiB | 879.00 KiB/s, done.
Total 27 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/hboulchahoub/geoproject.git
 * [new branch]      TP/11/02 -> TP/11/02
PS C:\Users\LENOVO GAMER\Desktop\GeoProject>
```

## 22. VÉRIFIER LE REPO DISTANT SUR VOTRE COMPTE GITHUB.



The screenshot shows a GitHub repository named "TP/11/02" with 1 branch and 0 tags. The repository was created by user "hboulchahoub" with the commit message "create components of my project" 8 minutes ago. The commit hash is #522e69. The repository contains three files: "src/main", ".gitignore", and "pom.xml", all created 8 minutes ago. A button "Add a README" is visible at the bottom.