

Institut Universitaire des Sciences (IUS)
FACULTÉ DES SCIENCES ET DES TECHNOLOGIES (FST)

RAPPORT
SUR LE TRAVAIL DE LABORATOIRE N° 1

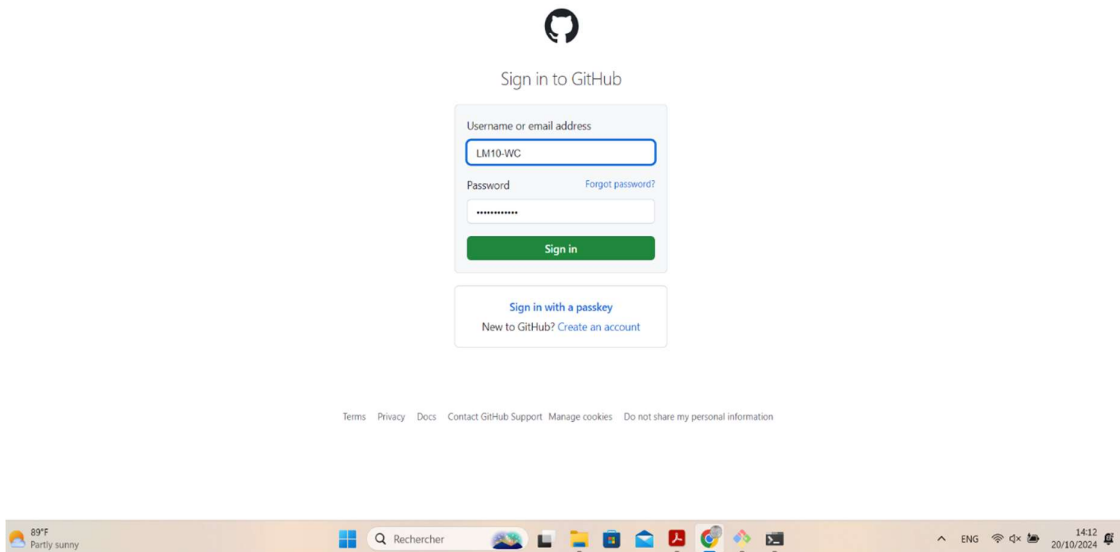
Cours : Systèmes d'Exploitation Linux

Étudiant : Wendy Colas
Niveau : L3

2024

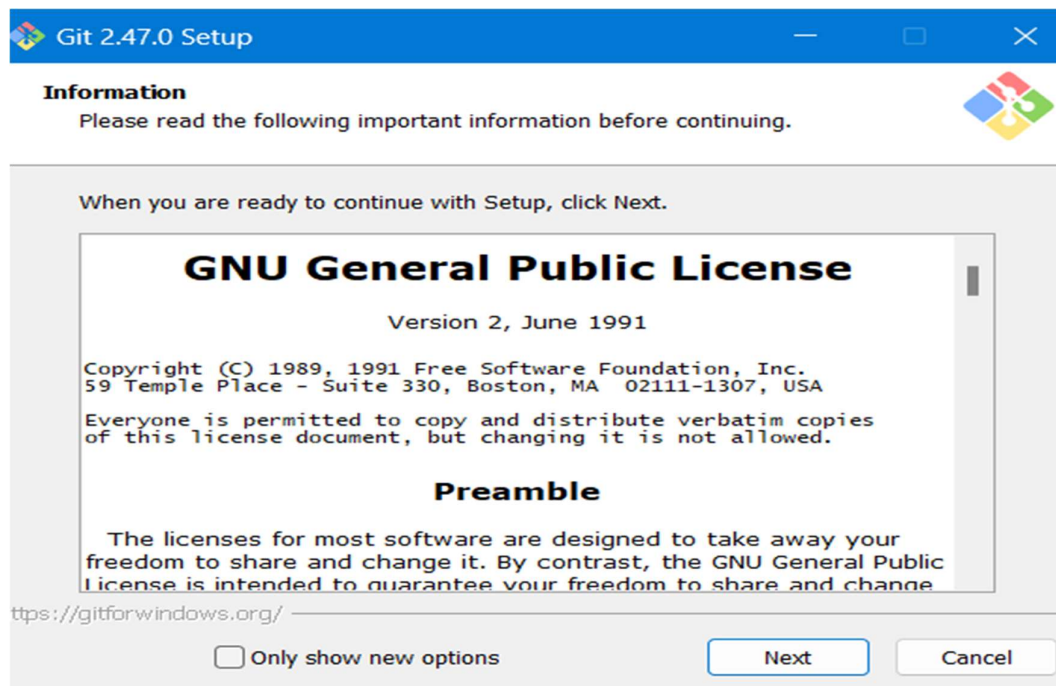
Exécution du TD

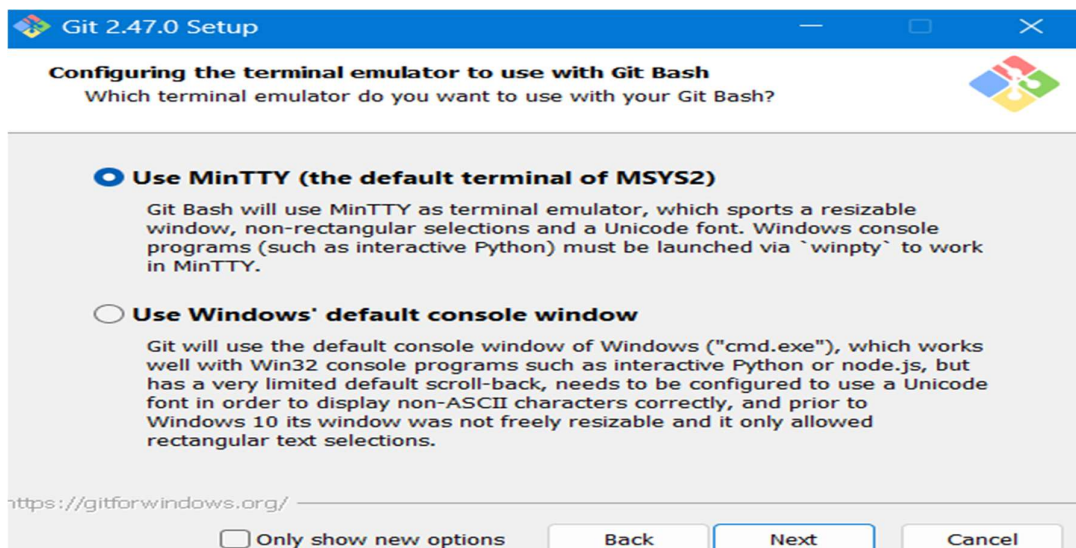
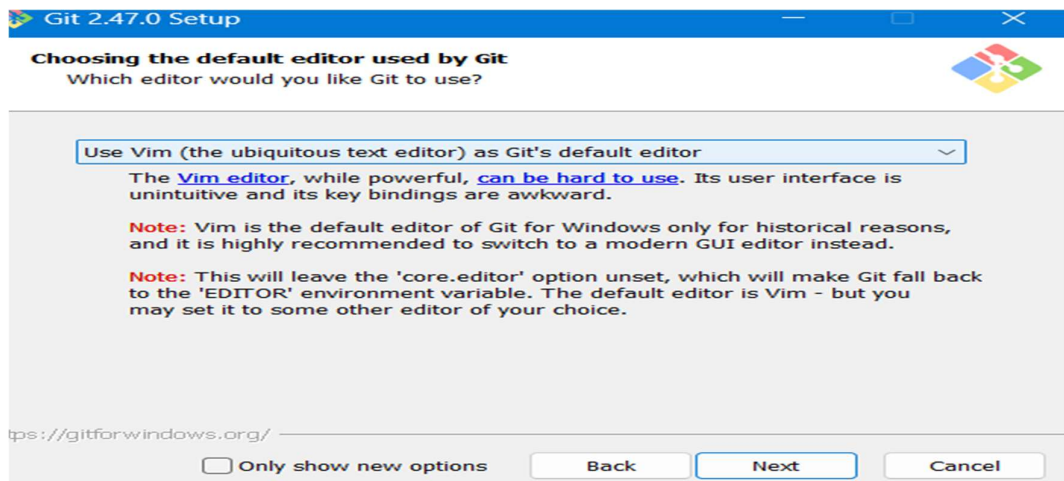
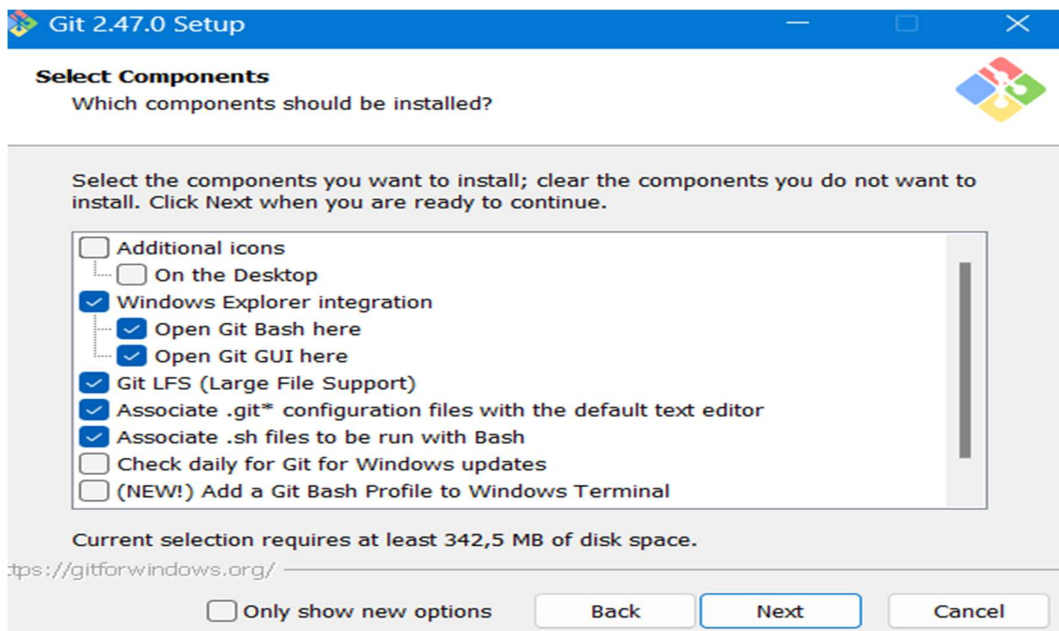
1. Créez un compte sur [GitHub](https://github.com).



The image shows the GitHub sign-in page. At the top is the GitHub logo and the text "Sign in to GitHub". Below this is a form with two input fields: "Username or email address" (containing "LM10-WC") and "Password" (containing "*****"). There is a "Forgot password?" link next to the password field. A green "Sign in" button is below the fields. Below the button is a link "Sign in with a passkey" and a link "New to GitHub? Create an account". At the bottom of the page, there are links for "Terms", "Privacy", "Docs", "Contact GitHub Support", "Manage cookies", and "Do not share my personal information". The Windows taskbar is visible at the bottom of the browser window, showing the time as 14:12 on 20/10/2024.

2. Installation de Git





3. Créer un nouveau projet.

```
Windows PowerShell
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Installez la dernière version de PowerShell pour de nouvelles fonctionnalités et améliorations ! https://aka.ms/PSWindows

PS C:\Users\DARLA> cd desktop
PS C:\Users\DARLA\desktop> mkdir Monprojet2

Répertoire : C:\Users\DARLA\desktop

Mode                LastWriteTime         Length Name
----                -
d-----          20/10/2024      13:28             Monprojet2

PS C:\Users\DARLA\desktop> cd Monprojet2
PS C:\Users\DARLA\desktop\Monprojet2> git init
Initialized empty Git repository in C:/Users/DARLA/Desktop/Monprojet2/.git/
PS C:\Users\DARLA\desktop\Monprojet2> |
```

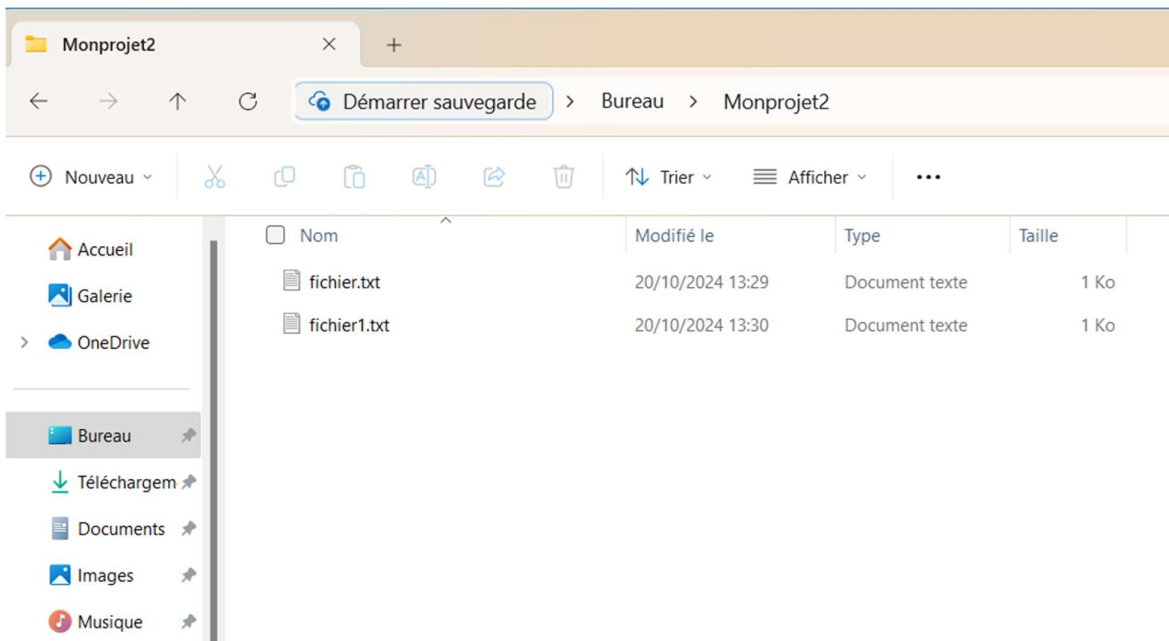
4. Ajouter un fichier au dépôt, le suivre avec Git et afficher l'état du dépôt.

```
PS C:\Users\DARLA\desktop\Monprojet2> echo "Hello, Git!" > fichier.txt
PS C:\Users\DARLA\desktop\Monprojet2> echo "Bonjour, Git!" > fichier1.txt
PS C:\Users\DARLA\desktop\Monprojet2> git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    fichier.txt
    fichier1.txt

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\DARLA\desktop\Monprojet2> |
```



5. Pour afficher tous les fichiers modifiés et faire des commits.

```
PS C:\Users\DARLA\desktop\Monprojet2> git add .
PS C:\Users\DARLA\desktop\Monprojet2> git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   fichier.txt
    new file:   fichier1.txt

PS C:\Users\DARLA\desktop\Monprojet2> git commit -m "Ajout fichier et fichier1"
[master (root-commit) c754d17] Ajout fichier et fichier1
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 fichier.txt
 create mode 100644 fichier1.txt
```

```

PS C:\Users\DARLA\desktop\Monprojet2> git add .
PS C:\Users\DARLA\desktop\Monprojet2> git status
On branch master

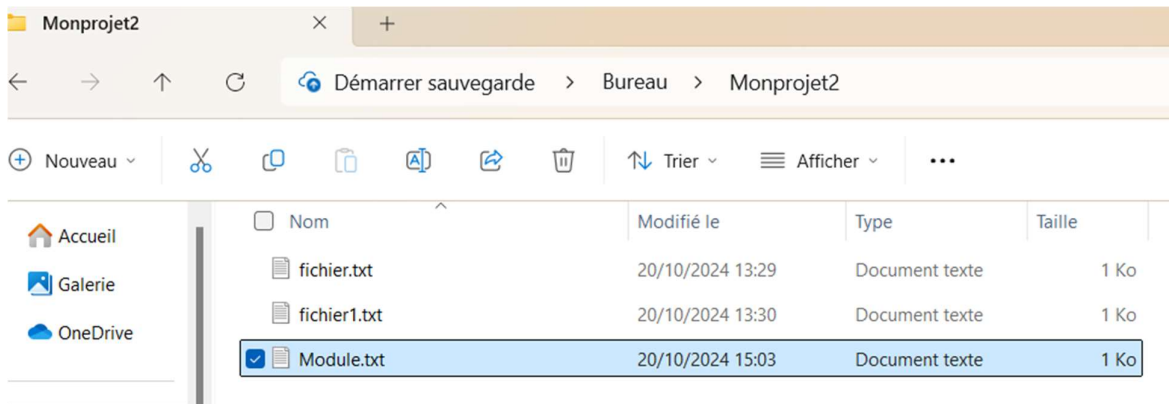
No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   fichier.txt
        new file:   fichier1.txt

PS C:\Users\DARLA\desktop\Monprojet2> git commit -m "Ajout fichier et fichier1"
[master (root-commit) c754d17] Ajout fichier et fichier1
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 fichier.txt
 create mode 100644 fichier1.txt
PS C:\Users\DARLA\desktop\Monprojet2> git status
On branch master
nothing to commit, working tree clean
PS C:\Users\DARLA\desktop\Monprojet2> echo "systeme d'exploitation!" > module.txt
PS C:\Users\DARLA\desktop\Monprojet2> git add .
PS C:\Users\DARLA\desktop\Monprojet2> git status
On branch master

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   module.txt

```



6. Pour voir l'historique des commits et revenir à un commit spécifique.


```

PS C:\Users\DARLA\desktop\Monprojet2> git commit -m "Ajout Module"
[master 5e9a068] Ajout Module
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 module.txt
PS C:\Users\DARLA\desktop\Monprojet2> git log
commit 5e9a068e25eead0c195583c6b3d2e1dba44d13b6 (HEAD -> master)
Author: LM10-WC <colaswendy10@gmail.com>
Date: Sun Oct 20 13:38:54 2024 -0400

    Ajout Module

commit c754d176a67ddeb55f7178394a047332c64f9723
Author: LM10-WC <colaswendy10@gmail.com>
Date: Sun Oct 20 13:34:20 2024 -0400

    Ajout fichier et fichier1
PS C:\Users\DARLA\desktop\Monprojet2> |

```

```

PS C:\Users\DARLA\desktop\Monprojet2> git checkout 5e9a068e25eead0c195583c6b3d2e1dba44d13b6
Previous HEAD position was c754d17 Ajout fichier et fichier1
HEAD is now at 5e9a068 Ajout Module
PS C:\Users\DARLA\desktop\Monprojet2> git checkout c754d176a67ddeb55f7178394a047332c64f9723
Previous HEAD position was 5e9a068 Ajout Module
HEAD is now at c754d17 Ajout fichier et fichier1
PS C:\Users\DARLA\desktop\Monprojet2> |

```

7. Générer une nouvelle clé SSH

```

PS C:\Users\DARLA> ssh-keygen -t rsa -b 4096 -C "colaswendy10@gmail.com"
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\DARLA\.ssh\id_rsa):
C:\Users\DARLA\.ssh\id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\DARLA\.ssh\id_rsa
Your public key has been saved in C:\Users\DARLA\.ssh\id_rsa.pub
The key fingerprint is:
SHA256:RaR7zFtjvhOE5xMMDZArOX2/95nRYtle+CqYi6yryqY4 colaswendy10@gmail.com
The key's randomart image is:
+---[RSA 4096]-----+
|      .+..o      |
|      o. . .     |
|      .o.o .     |
|      +=+ *      |
|      So+..+o     |
|      . =+.oo     |
|      .o.o+o=     |
|E      .o.oo.+*   |
| oo.ooooo .+.o.== |
+---[SHA256]-----+
PS C:\Users\DARLA> cat ~/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCAQCNDE5W4fBC4uoPvxqQa3B5BtCrBrB8gfV2dRU/1cm4o/Z+1HEEUqa55MNNjFJnbssk09m+NiwbbK9KzzerS0lv6z1RoA05Gm0TCLZLsapjCwv+ogsqd0Xc
zhGsM6zrnj/eZgvQM5w0kclBZnadT2Jw07Pttn5yix9J25Gmne6zR7Y0USAmY14Be20xe5C7yEVgilmlI1nzKFaF50rvF/bqDLRRDCe8rQTuXFeZBC20i9gYA8EXY+hHgx0FpZ64HkVmeIejbVDIy7VX0PDdN
DwL3mj9Xi6+kPJaKob4VpM4o2I14uirEAA1bLTzSKrI4wjFybEkEJamj8BJ44Pgy7+bUNYZLYfYfIt+sSLWkSs1FT2dj0/g3xLdzkHBtRHGevM3uTgcs/VBv+xueIGR/SBT2scBpVjoA7egOVQaIKgZdOnv
+kEhNS5YlgtmKAf9PpKD5DbTP9Q7lVyOTyq6H0j8JgsmC0+36omd34LWSJ6g7iA3cmpIu1wltf6n4nZ8D+Iw/bwAlS68EauKVLZx+USs0rtDvaolUcArrAuMCREgGLxQfNxnWbK0qgB1+aVNY7JQZZ69ZQ
xImVuXDSLMB8/yN0qtdHKz8PwraKULiGtVtMg9D2qocsy7NQLzpk+QCAySTVjIkdTmqBWC0GBYCK1PmW0ponrv7M0VLIDxgU8w== colaswendy10@gmail.com
PS C:\Users\DARLA> |

```

8. Ajouter la clé à mon compte GitHub

Settings

Type to search

+ 🔍 📧 🏠

You have successfully added the key 'Clé'.

LM10-WC (LM10-WC)

Your personal account

Go to your personal profile

Public profile

Account

Appearance

Accessibility

Notifications

Access

Billing and plans

Emails

Password and authentication

Sessions

SSH and GPG keys

Organizations

Enterprises

Moderation

SSH keys

New SSH key

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

Authentication keys

Clé

SHA256:RaR7zFtjvhoE5s0W0ZArOXZ/95nRyt1e+CqY16yrqy4

Added on Oct 20, 2024

Never used — Read/write

Delete

Check out our guide to [connecting to GitHub using SSH keys](#) or troubleshoot [common SSH problems](#).

GPG keys

New GPG key

There are no GPG keys associated with your account.

Learn how to [generate a GPG key](#) and [add it to your account](#).

9. Création d'un dépôt sur GitHub et son clonage

Owner *

Repository name *

LM10-WC

/

Try

Try is available.

Great repository names are short and memorable. Need inspiration? How about **probable-octo-bassoon** ?

Description (optional)

c'est mon premier depot de GitHub

Public

Anyone on the internet can see this repository. You choose who can commit.

Private

You choose who can see and commit to this repository.

Initialize this repository with:

☐ Add a README file

This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

.gitignore template: None

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

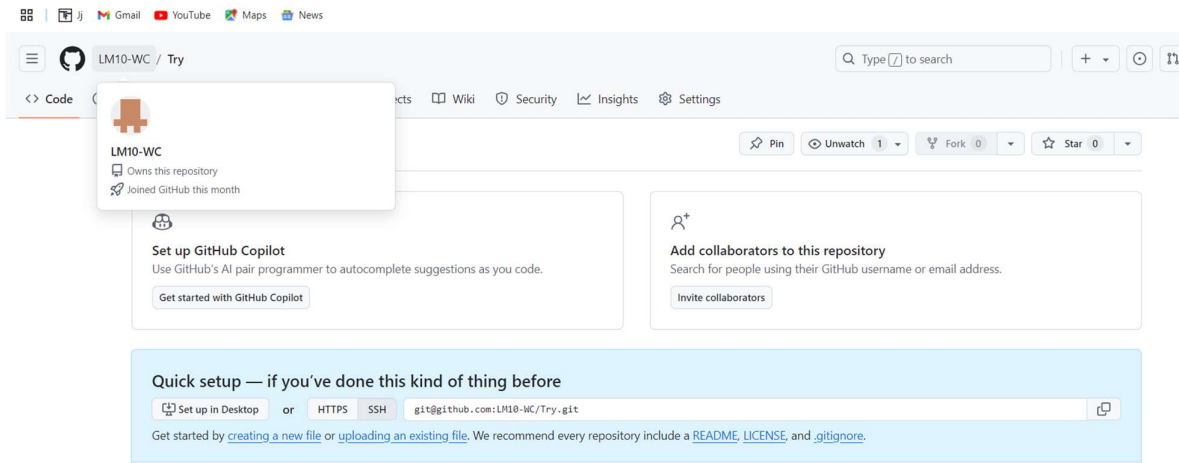
Choose a license

License: None

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

📌 You are creating a public repository in your personal account.

Create repository



```
PS C:\Users\DARLA> cd desktop
PS C:\Users\DARLA\desktop> git clone git@github.com:LM10-WC/Try.git
Cloning into 'Try'...
The authenticity of host 'github.com (140.82.112.4)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvC0qU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
warning: You appear to have cloned an empty repository.
```

```
Windows PowerShell
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Installez la dernière version de PowerShell pour de nouvelles fonctionnalités et améliorations ! https://aka.ms/PSWindows
S

PS C:\Users\DARLA> cd desktop
PS C:\Users\DARLA\desktop> move "C:\Users\DARLA\desktop\Monprojet2" "C:\Users\DARLA\desktop\Try"
PS C:\Users\DARLA\desktop> cd Try
PS C:\Users\DARLA\desktop\Try> ls

Répertoire : C:\Users\DARLA\desktop\Try

Mode                LastWriteTime         Length Name
----                -
d-----          20/10/2024   15:03         Monprojet2

PS C:\Users\DARLA\desktop\Try> |
```

```

PS C:\Users\DARLA\desktop\Try> git status
On branch main

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Monprojet2/

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\DARLA\desktop\Try> git add .
warning: adding embedded git repository: Monprojet2
hint: You've added another git repository inside your current repository.
hint: Clones of the outer repository will not contain the contents of
hint: the embedded repository and will not know how to obtain it.
hint: If you meant to add a submodule, use:
hint:   git submodule add <url> Monprojet2
hint:
hint: If you added this path by mistake, you can remove it from the
hint: index with:
hint:   git rm --cached Monprojet2
hint:
hint: See "git help submodule" for more information.
hint: Disable this message with "git config advice.addEmbeddedRepo false"
PS C:\Users\DARLA\desktop\Try> git commit -m "Ajout"
[main (root-commit) 3fb0d43] Ajout
 1 file changed, 1 insertion(+)
 create mode 160000 Monprojet2
PS C:\Users\DARLA\desktop\Try> git status
On branch main
Your branch is based on 'origin/main', but the upstream is gone.
  (use "git branch --unset-upstream" to fixup)

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)
  (commit or discard the untracked or modified content in submodules)
    modified:   Monprojet2 (untracked content)

```

```

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\DARLA\desktop\Try> git push
Enumerating objects: 2, done.
Counting objects: 100% (2/2), done.
Writing objects: 100% (2/2), 204 bytes | 204.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:LM10-WC/Try.git
 * [new branch]      main -> main
PS C:\Users\DARLA\desktop\Try> |

```

10. Créer un nouveau Dépôt

```

Windows PowerShell
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Installez la dernière version de PowerShell pour de nouvelles fonctionnalités et améliorations ! https://aka.ms/PSWindows
PS C:\Users\DARLA> cd desktop
PS C:\Users\DARLA\desktop> git clone git@github.com:LM10-WC/TD.git
Cloning into 'TD'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
PS C:\Users\DARLA\desktop> |

```

```
Windows PowerShell
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Installez la dernière version de PowerShell pour de nouvelles fonctionnalités et améliorations ! https://aka.ms/PSWindows

PS C:\Users\DARLA> cd desktop
PS C:\Users\DARLA\desktop> ls
```

Répertoire : C:\Users\DARLA\desktop

Mode	LastWriteTime		Length	Name
----	-----		-----	----
d-----	03/06/2024	16:23		09 Déchets - Aspects environnementaux - Les cahiers du DD - outil complet_files
d-----	03/06/2024	16:22		Budget et dotations des collectivités locales - Ministère de la Transition Écologique et de la Cohésion des Territoires_files
d-----	31/05/2024	21:40		Conférence des Nations Unies sur l'environnement, Stockholm 1972_files
d-----	03/06/2024	16:15		Différentes catégories de déchets - Ministère de la Transition Écologique et de la Cohésion des Territoires_files
d-----	31/05/2024	21:30		Journée mondiale de l'environnement 2024_files
d-----	31/05/2024	21:35		La gestion des déchets générés par les ONG en Haïti_files

```
PS C:\Users\DARLA\desktop> cd TD
PS C:\Users\DARLA\desktop\TD> mkdir systeme
```

Répertoire : C:\Users\DARLA\desktop\TD

Mode		LastWriteTime	Length	Name
----		-----	-----	----
d-----		20/10/2024 15:54		systeme

```
PS C:\Users\DARLA\desktop\TD> cd systeme
PS C:\Users\DARLA\desktop\TD\systeme> mkdir image
```

Répertoire : C:\Users\DARLA\desktop\TD\systeme

Mode		LastWriteTime	Length	Name
----		-----	-----	----
d-----		20/10/2024 15:54		image

```
PS C:\Users\DARLA\desktop\TD\systeme> cd ..
PS C:\Users\DARLA\desktop\TD> mkdir reseau
```

Répertoire : C:\Users\DARLA\desktop\TD

Mode		LastWriteTime	Length	Name
----		-----	-----	----
d-----		20/10/2024 15:54		reseau

```
PS C:\Users\DARLA\desktop\TD> cd reseau
PS C:\Users\DARLA\desktop\TD\reseau> mkdir image
```

```
Répertoire : C:\Users\DARLA\desktop\TD\reseau

Mode                LastWriteTime         Length Name
----                -
d-----          20/10/2024      15:55             image

PS C:\Users\DARLA\desktop\TD\reseau> cd ..
PS C:\Users\DARLA\desktop\TD> git push|
```

CONCLUSION :

J'ai bien assimilé les notions relatives à Git et GitHub. J'ai lu les théories et ai exécuté les exercices afin de parfaire ma compréhension.