



Faculté : Sciences Informatique

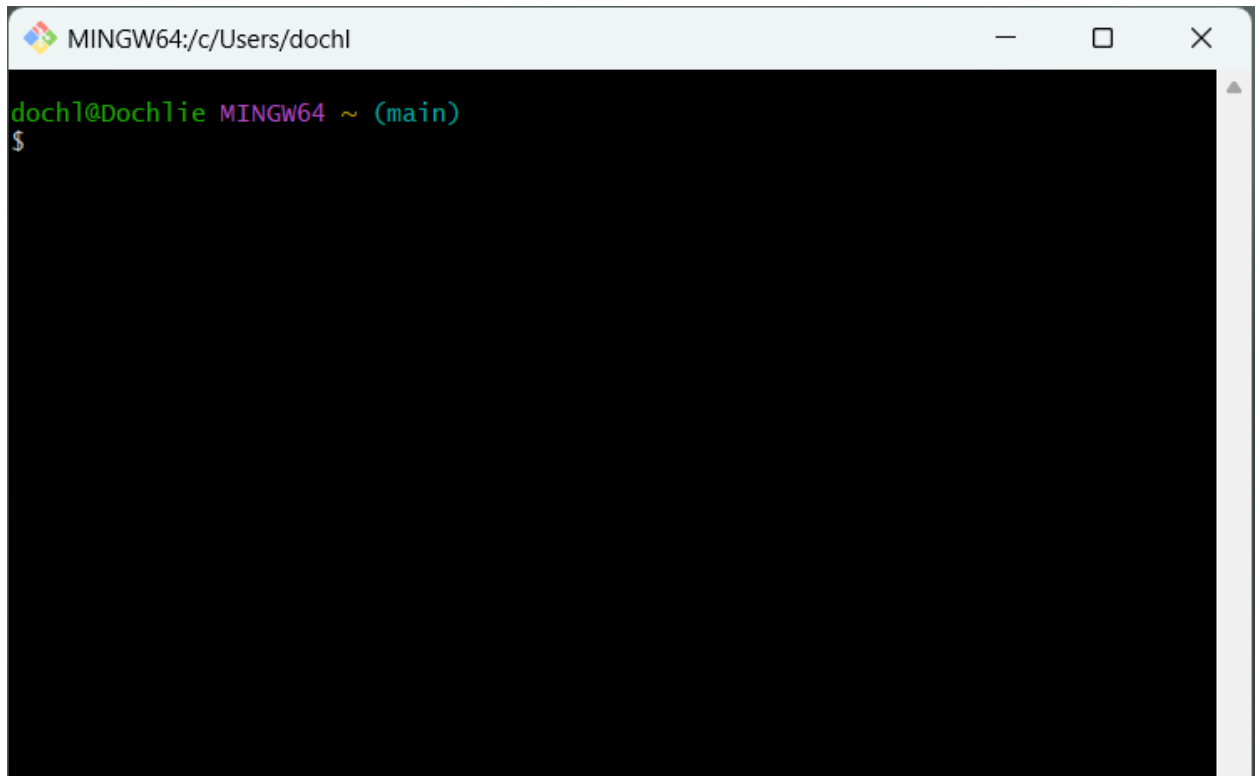
Nom & Prénom : Louis Dochlie

TD N°1 – Systèmes

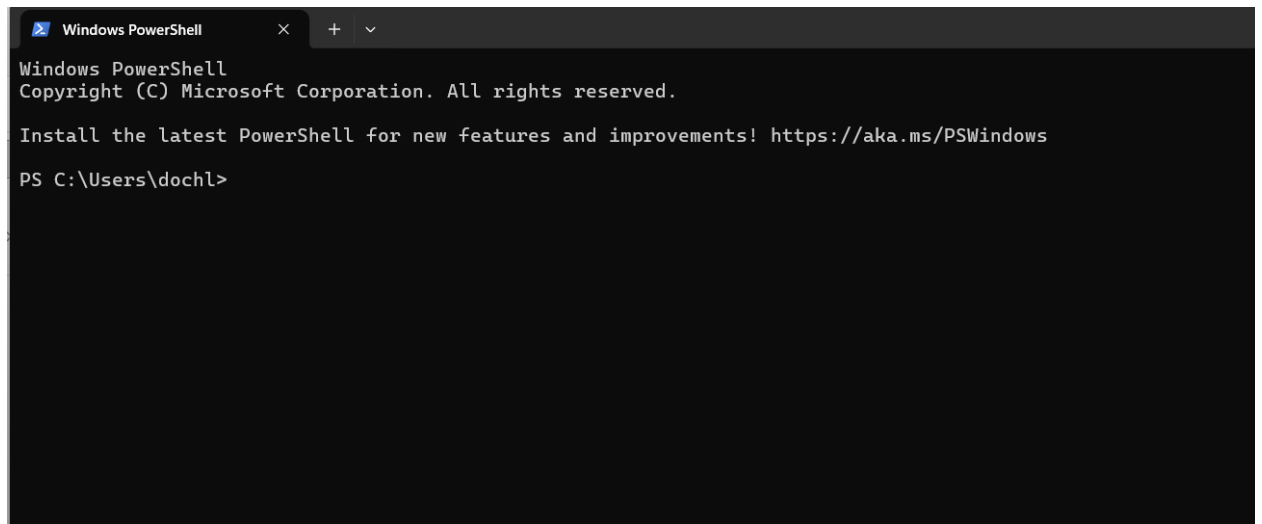
Niveau : L3

Date : Le/26/10/25

1. Installation de Git sur Windows et utilisation avec PowerShell

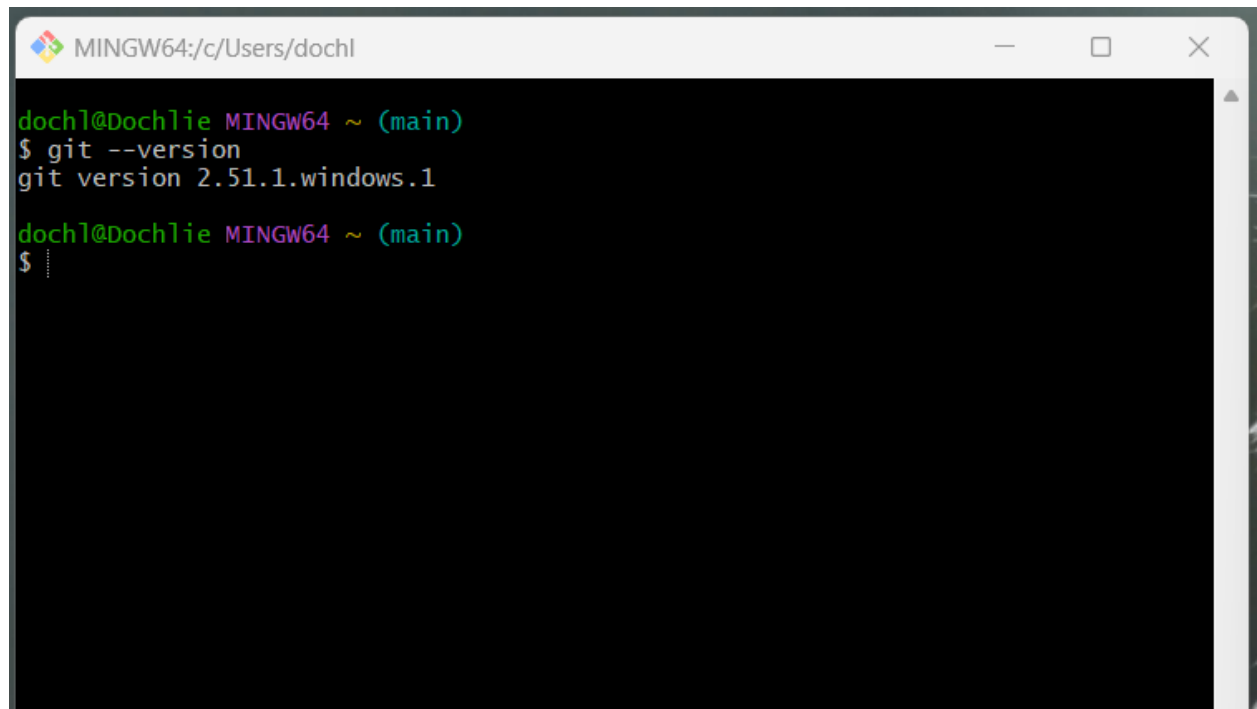
A screenshot of a MINGW64 terminal window. The title bar shows the path 'MINGW64:/c/Users/dochl'. The terminal content shows the prompt 'dochl@Dochlie MINGW64 ~ (main)' followed by a dollar sign '\$' on the next line.

```
MINGW64:/c/Users/dochl  
dochl@Dochlie MINGW64 ~ (main)  
$
```

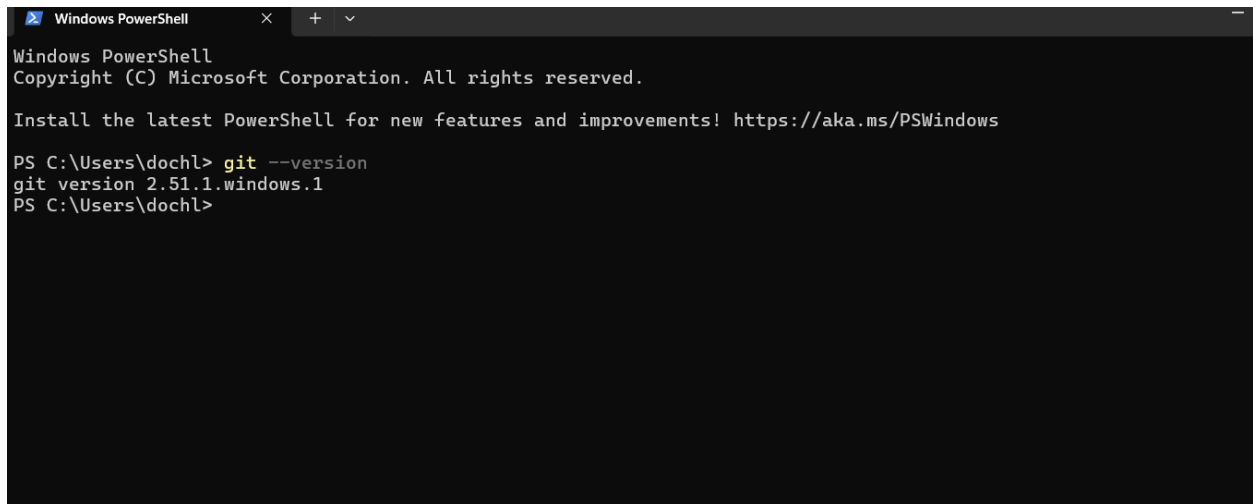
A screenshot of a Windows PowerShell window. The title bar shows 'Windows PowerShell'. The terminal content displays copyright information, a message about installing the latest PowerShell, and the current prompt 'PS C:\Users\dochl>'.

```
Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.  
  
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows  
PS C:\Users\dochl>
```

2. Vérification de l'installation git



```
MINGW64:/c/Users/dochl
dochl@Dochlie MINGW64 ~ (main)
$ git --version
git version 2.51.1.windows.1
dochl@Dochlie MINGW64 ~ (main)
$
```




```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\dochl> git --version
git version 2.51.1.windows.1
PS C:\Users\dochl>
```

3. la Création d'un compte GitHub

J'étais déjà inscrit sur GitHub, je viens de me connecter.

 GitHub


<https://github.com> · [Traduire cette page](#) ⋮

GitHub · Build and ship software on a single, collaborative platform ... ✓

Join the world's most widely adopted, **AI-powered developer platform** where millions of developers, businesses, and the largest open source community build ...


Login ✓

GitHub is where people build software. More than 150 million ...



Sign up for GitHub ✓

Create your free account · Access to GitHub Copilot Increase your ...



Download GitHub Desktop ✓

Focus on what matters instead of fighting with Git. Whether you're ...

>

GitHub Student Developer Pack ✓

Offer. Free Camber Student plan that includes 200 CPU hours ...

>

Copilot ✓

Bottle your team's secret sauce. Organize the context GitHub ...

>

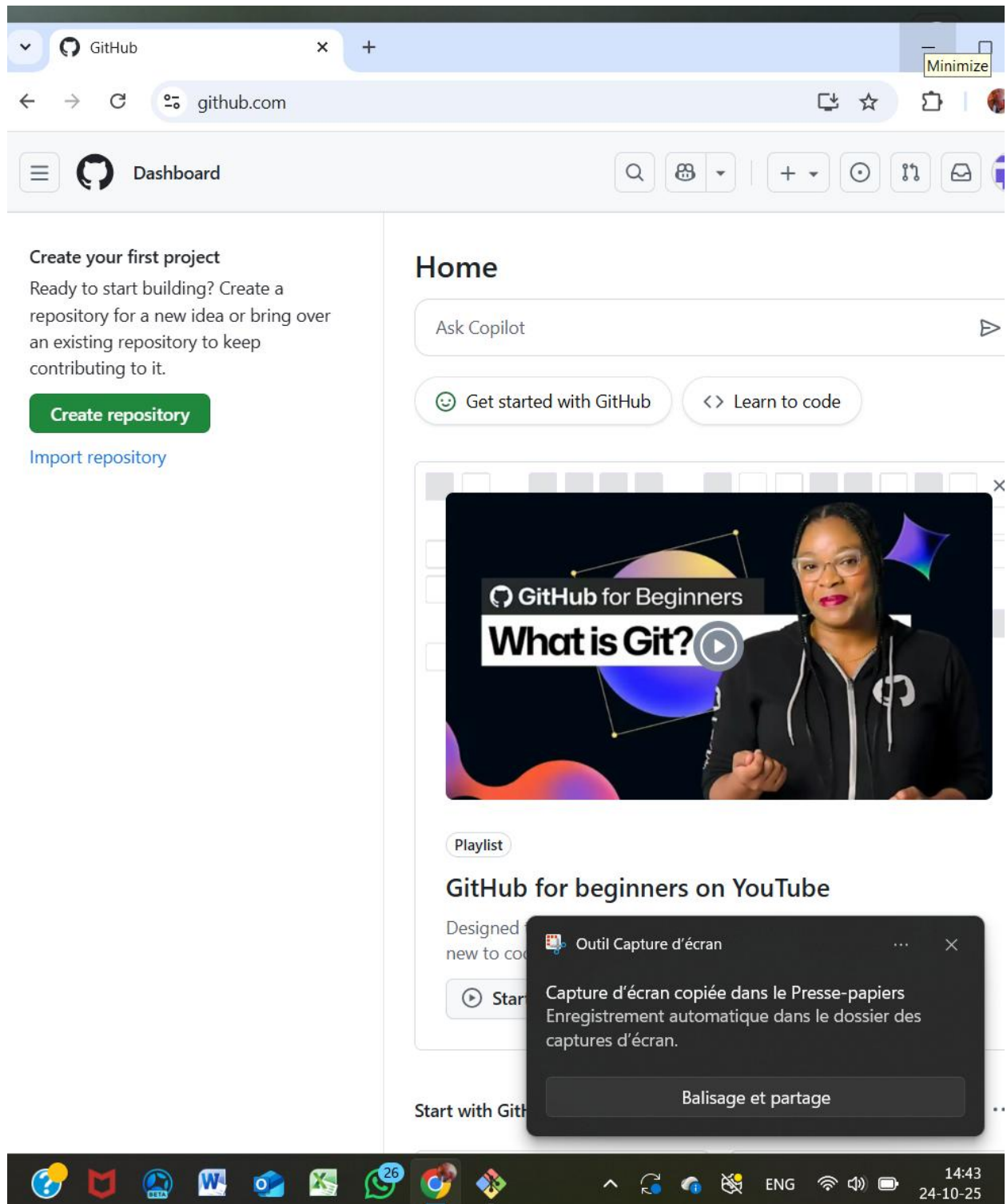
Explore GitHub ✓

Discover the world of open source with Open Source Friday ...

>

[Autres résultats sur github.com »](#)

Vidéos ⋮



4.J'ai Configuré Git

```
MINGW64:/c/Users/dochl

dochl@Dochlie MINGW64 ~ (main)
$ git --version
git version 2.51.1.windows.1

dochl@Dochlie MINGW64 ~ (main)
$ git config --global user.name "Dodoche12"
```

J'ai vérifié la confirmation de Git

```
dochl@Dochlie MINGW64 ~ (main)
$ git config --list
diff.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=schannel
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=main
user.email=dochlielouis3@gmail.com
user.name=Dodoche12
core.repositoryformatversion=0
core.filemode=false
core.bare=false
core.logallrefupdates=true
core.symlinks=false
core.ignorecase=true

dochl@Dochlie MINGW64 ~ (main)
$ |
```

5. Tester Git avec PowerShell

Pour tester Git avec PowerShell j'ai créé un dossier mais il y avait un petit problème avec mon lecteur.

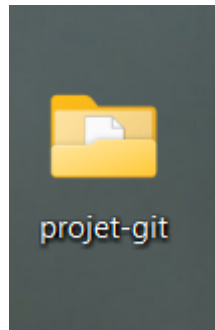
```
dochl@Dochlie MINGW64 ~ (main)
$ ls
  AppData/
  'Application Data'@
  'Cisco Packet Tracer 8.2.2'/
  Contacts/
  Cookies@
  Desktop/
  Documents/
  Downloads/
  Favorites/
  Links/
  'Local Settings'@
  Music/
  'My Documents'@
  NTUSER.DAT
  NTUSER.DAT{e326e2e4-0540-11f0-b65f-80c01e2f8bdf}.TM.blf
  NTUSER.DAT{e326e2e4-0540-11f0-b65f-80c01e2f8bdf}.TMContainer00000000000000000000
1.regtrans-ms
  NTUSER.DAT{e326e2e4-0540-11f0-b65f-80c01e2f8bdf}.TMContainer00000000000000000000
2.regtrans-ms
  NetHood@
  OneDrive/
  PrintHood@
  Recent@
  'Saved Games' /
  Searches/
  SendTo@
  'Start Menu'@
  Templates@
  Videos/
  eclipse/
  eclipse-workspace/
  ntuser.dat.LOG1
  ntuser.dat.LOG2
  ntuser.ini
  test_project/

dochl@Dochlie MINGW64 ~ (main)
$ cd Desktop

dochl@Dochlie MINGW64 ~/Desktop (main)
$ mkdir projet-git

dochl@Dochlie MINGW64 ~/Desktop (main)
$ cd projet-git

dochl@Dochlie MINGW64 ~/Desktop/projet-git (main)
$ |
```

Initialisation un un dépôt et créé un fichier

```
dochl@Dochlie MINGW64 ~/Desktop/projet-git (main)
$ git init
Initialized empty Git repository in C:/Users/dochl/Desktop/projet-git/.git/

dochl@Dochlie MINGW64 ~/Desktop/projet-git (main)
$ |
```

```
dochl@Dochlie MINGW64 ~/Desktop/projet-git (main)
$ echo "Hello Git!" > README.md

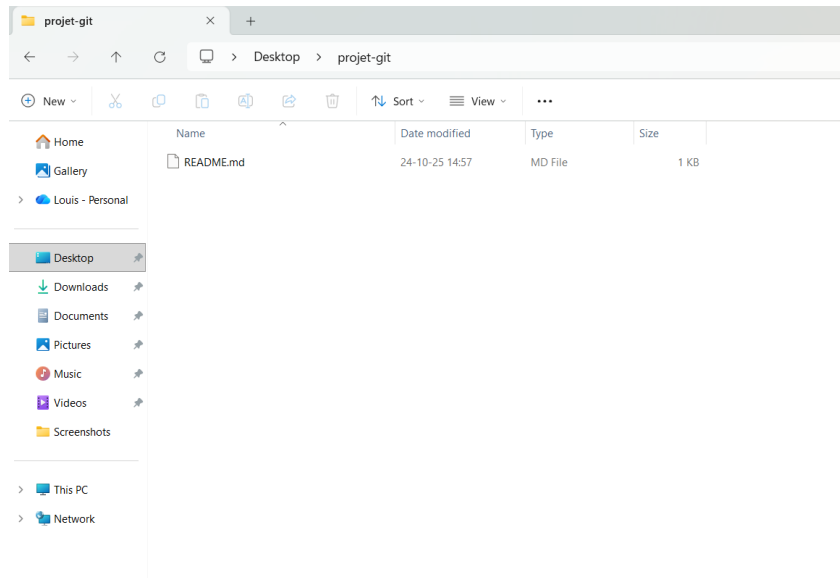
dochl@Dochlie MINGW64 ~/Desktop/projet-git (main)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

dochl@Dochlie MINGW64 ~/Desktop/projet-git (main)
$ git commit -m "Premier commit avec PowerShell"
[main (root-commit) 853b0c8] Premier commit avec PowerShell
1 file changed, 1 insertion(+)
create mode 100644 README.md

dochl@Dochlie MINGW64 ~/Desktop/projet-git (main)
$ git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    README.md

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

dochl@Dochlie MINGW64 ~/Desktop/projet-git (main)
$ |
```



Historique des Commits

J'ai oublié de prendre la capture d'écran de l'historique des commit

6.Générer une nouvelle clé SS

```
dochl@Dochlie MINGW64 ~/Desktop/projet-git (main)
$ cd ..

dochl@Dochlie MINGW64 ~/Desktop (main)
$ cd ..

$ cd ..

dochl@Dochlie MINGW64 ~ (main)
$ ssh-keygen -t ed25519 -C "dochlielouis3@gmail.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/c/Users/dochl/.ssh/id_ed25519):
/c/Users/dochl/.ssh/id_ed25519 already exists.
Overwrite (y/n)?

dochl@Dochlie MINGW64 ~ (main)
$ ssh-keygen -t ed25519 -C "dochlielouis3@gmail.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/c/Users/dochl/.ssh/id_ed25519):
/c/Users/dochl/.ssh/id_ed25519 already exists.
Overwrite (y/n)? y
Enter passphrase for "/c/Users/dochl/.ssh/id_ed25519" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/dochl/.ssh/id_ed25519
Your public key has been saved in /c/Users/dochl/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:W0f/xI5461Np+GNm7b0FoX115f5ua0hxMdDpj1osC00 dochlielouis3@gmail.com
The key's randomart image is:
+--[ED25519 256]--+
|      .o .|
|      =|
|      . . +|
|      .Eo =.|
|      S .o..*.0|
|      o..o*+@=|
|      . .+=0.B|
|      oo.@=|
|      .BB0|
+-----[SHA256]-----+

dochl@Dochlie MINGW64 ~ (main)
$ cat ~/.ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIH0YmmIknovuD0nwbCgp7LdGs9xr+SK5d14/F5H2wT4 dochlielouis3@gmail.com
```

ssh-keygen -t ed25519 -C ton.email@example.com



ssh-keygen -t rsa -b 4096 -C votre.email@example.com


- Le fichier id_ed25519.pub = ta clé publique → tu peux la partager.


Lorsque j'ai essayé de générer une nouvelle clé SSH, j'ai eu beaucoup de mal à l'afficher. J'ai effectué une recherche, et on m'a indiqué d'ajouter « pub » après la clé, ce qui la rendrait publique.


Browser toolbar: Download, Star, Extensions, Profile, Menu


GitHub toolbar: Home, +, Search, Repositories, Pull requests, Issues, Profile


**Dodoche12** 


 Set status


 Profile


 Repositories


 Stars


 Gists


 Organizations


 Enterprises


 Sponsors


 Settings


 Copilot settings

 Feature preview

 Appearance

 Accessibility

 Upgrade

 Sign out



Dodoche12 (Dodoche12)

Your personal account

Go to your profile

Public profile

- Account
- Appearance
- Accessibility
- Notifications

Access

- Billing and licensing
- Emails
- Password and authentication
- Sessions
- SSH and GPG keys**
- Organizations
- Enterprises
- Moderation

Code, planning, and automation

- Repositories
- Codespaces
- Models
- Packages

Preview

Public profile

Name

Your name may appear around GitHub where you contribute or are mentioned. You can remove it at any time.

Public email

Select a verified email to display

You can manage verified email addresses in your [email settings](#)

Bio

Tell us a little bit about yourself

You can @mention other users and organizations to link to them.

Pronouns

Don't specify

URL

Social accounts

2)

[Go to your personal profile](#)

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



SSH

win key

SHA256:W0f/xI5461Np+GNm7bOf0X115f5ua0hxMdDpj1osC00

Added on Oct 24, 2025

Never used — Read/write

[Delete](#)

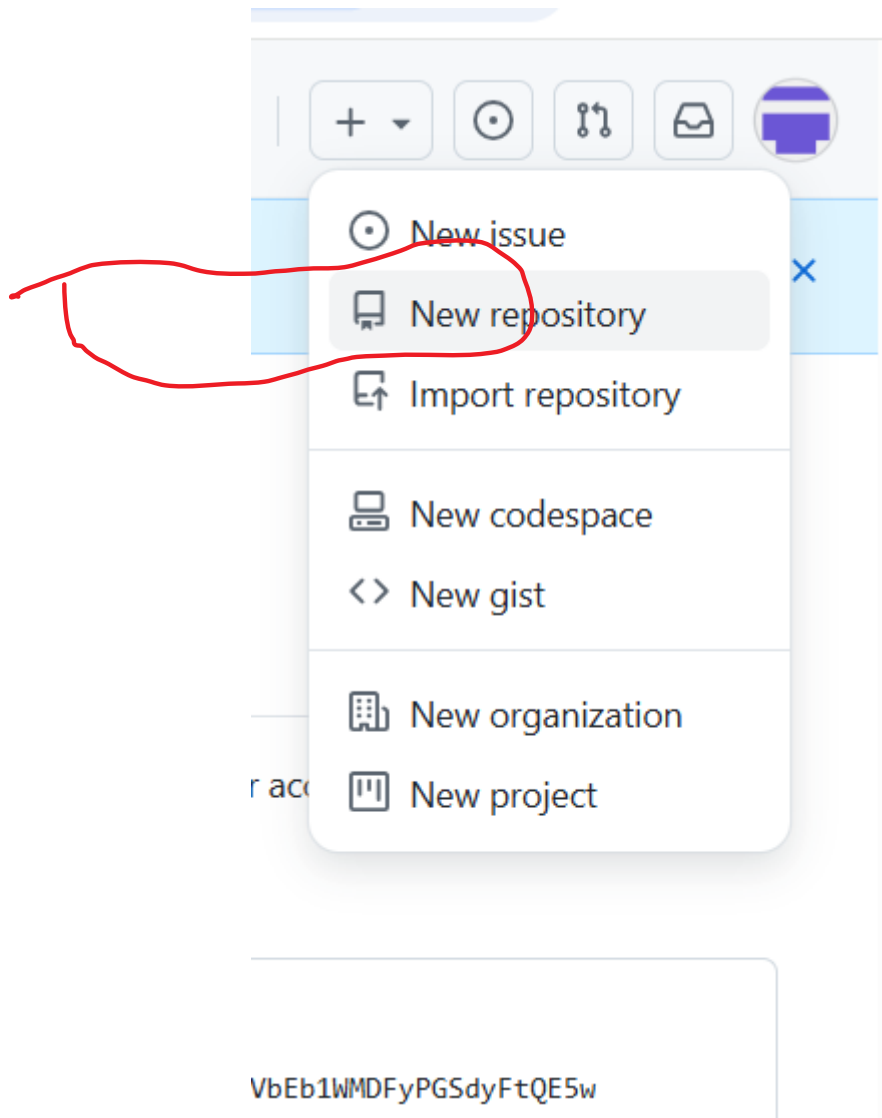
Check out our guide to [connecting to GitHub using SSH keys](#) or troubleshoot [common SSH problems](#).

GPG keys

[New GPG key](#)

There are no GPG keys associated with your account.


1. Créer un dépôt GitHub



1

General

Owner *

 Dodoche12

 /

Repository name *

mon-projet

✔ mon-projet is available.

Great repository names are short and memorable. How about **effective-invention**?

Description

mes projets


11 / 350 characters

2

Configuration

Choose visibility *

Choose who can see and commit to this repository

 Public

Add README

READMEs can be used as longer descriptions. [About READMEs](#)

On ☒

Add .gitignore

.gitignore tells git which files not to track. [About ignoring files](#)

No .gitignore

Add license

Licenses explain how others can use your code. [About licenses](#)

No license

Create repository

Terms

Privacy

Security

Status


Community

Docs

Contact

Manage cookies

Do not share my personal information

 © 2025 GitHub, Inc.

2. Cloner un dépôt GitHub via SSH


```

dochl@Dochlie MINGW64 ~ (main)
$ cd Desktop

dochl@Dochlie MINGW64 ~/Desktop (main)
$ git clone git@github.com:Dodoche12/mon-projet.git
Cloning into 'mon-projet'...
The authenticity of host 'github.com (140.82.112.4)' can't be established.
ED25519 key fingerprint is: SHA256:+DiY3wvvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvCOqU
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 7 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (7/7), done.

dochl@Dochlie MINGW64 ~/Desktop (main)
$ ls
desktop.ini  mon-projet/  projet-git/

dochl@Dochlie MINGW64 ~/Desktop (main)
$ cd mon-projet

dochl@Dochlie MINGW64 ~/Desktop/mon-projet (main)
$ echo "Systeme d'exploitation!" > Module.txt

dochl@Dochlie MINGW64 ~/Desktop/mon-projet (main)
$ git add .
warning: in the working copy of 'Module.txt', LF will be replaced by CRLF the next time Git touches it

dochl@Dochlie MINGW64 ~/Desktop/mon-projet (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

dochl@Dochlie MINGW64 ~/Desktop/mon-projet (main)
$ git commit -m "Ajout Module"
[main 4b028cf] Ajout Module
 1 file changed, 1 insertion(+)
 create mode 100644 Module.txt

dochl@Dochlie MINGW64 ~/Desktop/mon-projet (main)
$ git branch -M main

dochl@Dochlie MINGW64 ~/Desktop/mon-projet (main)
$ git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 305 bytes | 152.00 KiB/s, done.
Total 3 (delta 0), reused 2 (delta 0), pack-reused 0 (from 0)
To github.com:Dodoche12/mon-projet.git
   e193e42..4b028cf  main -> main
branch 'main' set up to track 'origin/main'.

dochl@Dochlie MINGW64 ~/Desktop/mon-projet (main)
$

```

1. J'ai réussi à Cloner un dépôt distant.

2. Créer et modifier un fichier localement.

3. Ajouter, valider et pousser les changements sur GitHub.

Je montre la compréhension du flux de travail de base (clone → edit → add → commit → push).

