

## Formation Git : Installations

El Hadji Gaye

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**Pour** Formation

**Date** 30/10/2024

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**Objet** Formation Git : installations

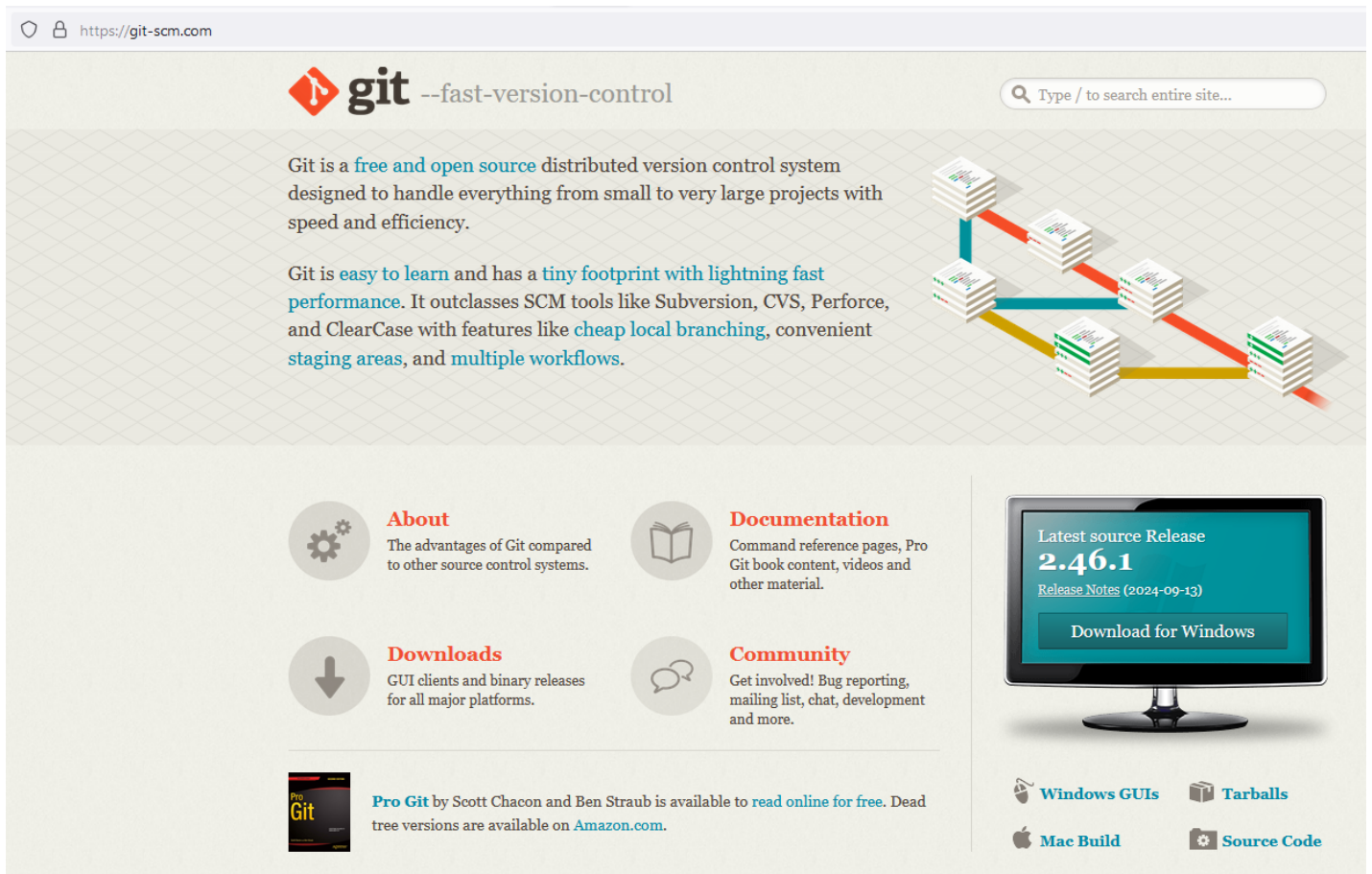
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## I) Installation de la plateforme

### 1. Git Visual Studio Code

Se rendre sur le site officiel de Git <https://git-scm.com/>



The screenshot shows the Git website homepage. At the top, there's a navigation bar with the Git logo and the tagline "--fast-version-control". A search bar is on the right. The main content area features a description of Git as a free and open source distributed version control system, followed by a list of its features: easy to learn, tiny footprint, lightning fast performance, outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase, cheap local branching, convenient staging areas, and multiple workflows. To the right of the text is a diagram illustrating the distributed nature of Git with multiple repositories connected by a network. Below the main text are four sections: "About" (advantages of Git), "Documentation" (command reference, Pro Git book, videos), "Downloads" (GUI clients, binary releases), and "Community" (bug reporting, mailing list, chat). On the right side, there's a large monitor displaying the latest source release "2.46.1" with a "Download for Windows" button. At the bottom, there are links to "Windows GUIs", "Tarballs", "Mac Build", and "Source Code".

https://git-scm.com

**git** --fast-version-control

Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Git is **easy to learn** and has a **tiny footprint with lightning fast performance**. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like **cheap local branching**, convenient **staging areas**, and **multiple workflows**.

**About**  
The advantages of Git compared to other source control systems.

**Documentation**  
Command reference pages, Pro Git book content, videos and other material.

**Downloads**  
GUI clients and binary releases for all major platforms.

**Community**  
Get involved! Bug reporting, mailing list, chat, development and more.

**Pro Git** by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Latest source Release  
**2.46.1**  
[Release Notes \(2024-09-13\)](#)  
[Download for Windows](#)

[Windows GUIs](#) [Tarballs](#)  
[Mac Build](#) [Source Code](#)




This is a close-up of the download banner from the Git website. It features a large monitor displaying the text: "Latest source Release 2.46.1", "Release Notes (2024-09-13)", and a prominent "Download for Windows" button. Below the monitor, there are four icons with corresponding text: a mouse icon for "Windows GUIs", a box icon for "Tarballs", an Apple icon for "Mac Build", and a gear icon for "Source Code".

Latest source Release  
**2.46.1**  
[Release Notes \(2024-09-13\)](#)  
[Download for Windows](#)

[Windows GUIs](#) [Tarballs](#)  
[Mac Build](#) [Source Code](#)

https://git-scm.com/download/win

 **git** --fast-version-control

Type / to search entire site...

**About**  
**Documentation**  
**Downloads**  
GUI Clients  
Logos  
**Community**

The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

## Download for Windows

[Click here to download](#) the latest (2.46.1) 64-bit version of Git for Windows. This is the most recent maintained build. It was released 4 days ago, on 2024-09-18.

**Other Git for Windows downloads**

**Standalone Installer**  
[32-bit Git for Windows Setup.](#)  
[64-bit Git for Windows Setup.](#)


**Portable ("thumbdrive edition")**  
[32-bit Git for Windows Portable.](#)  
[64-bit Git for Windows Portable.](#)

**Using winget tool**  
Install [winget tool](#) if you don't already have it, then type this command in command prompt or Powershell.  

```
winget install --id Git.Git -e --source winget
```

The current source code release is version 2.46.1. If you want the newer version, you can build it from [the source code](#).

Le clic sur **64-bit Git for Windows Setup** nous renvoie vers <https://github.com/git-for-windows/git/releases/download/v2.46.1.windows.1/Git-2.46.1-64-bit.exe>

 Git 2.46.1 Setup

**Information**

Please read the following important information before continuing.

When you are ready to continue with Setup, click Next.

## GNU General Public License

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change

<https://gitforwindows.org/>

**Next** **Cancel**

## Completing the Git Setup Wizard

Setup has finished installing Git on your computer. The application may be launched by selecting the installed shortcuts.



Click Finish to exit Setup.

- ☐ Launch Git Bash
- ☒ View Release Notes

## 2. Visual Studio Code

Se rendre sur le site <https://code.visualstudio.com/>

The image shows the Visual Studio Code website on the left and a screenshot of the Visual Studio Code editor on the right. The website features the text "Code Editing. Redefined." and a "Download for Windows" button. The editor screenshot shows a file explorer on the left with a project named "MY-APP" containing various components. The main editor area displays a TypeScript file named "button.ts" with an interface definition and a function. A search bar at the top of the editor shows "Create a new button component". The bottom panel shows the "PROBLEMS" tab with a list of errors.

Visual Studio Code Docs Updates Blog API Extensions FAQ

Free. Built on open source. Runs everywhere.

# Code Editing. Redefined.

[Download for Windows](#)

[Web](#) [Insiders edition](#) or [other platforms](#)

By using VS Code, you agree to its [license](#) and [privacy statement](#).

```
1 interface ButtonProps {
2   onClick: () => void;
3   text: string;
4 }
5
6 const Button: React.FC<ButtonProps> = ({ onClick, text }) => {
7   return <button onClick={onClick}>{text}</button>;
8 };
9
10 export default Button;
```

Create a new button component

Accept Discard Changed 9 lines

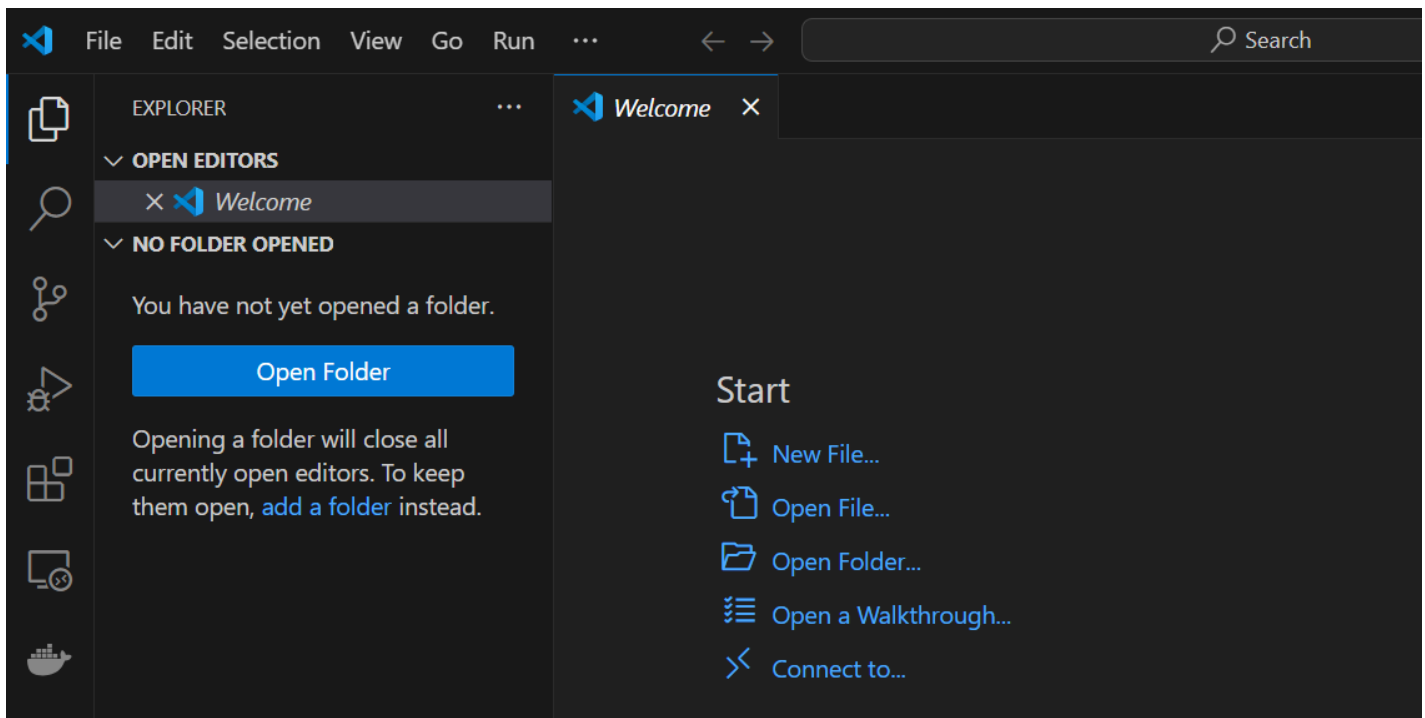
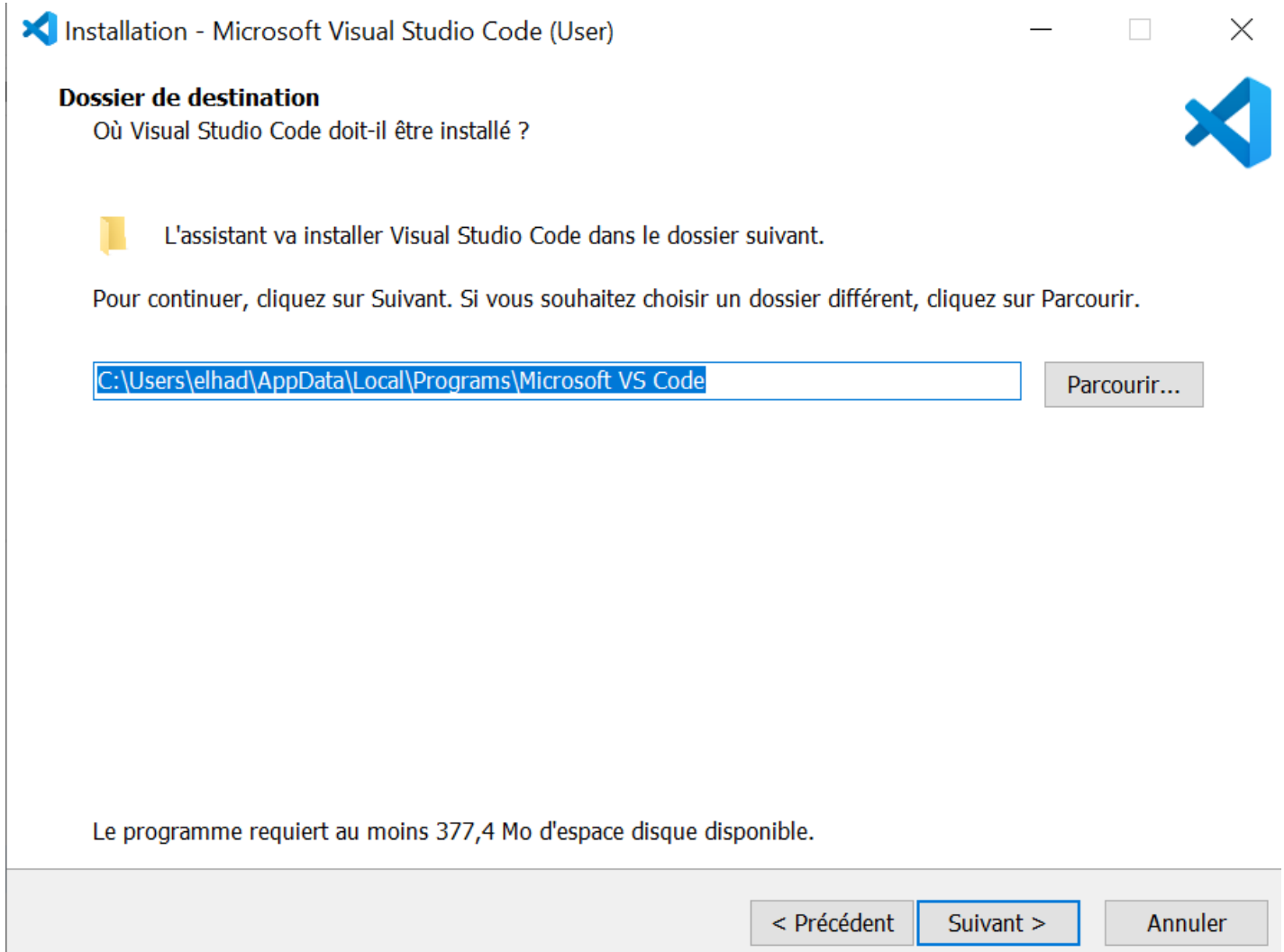
PROBLEMS OUTPUT TERMINAL

[09:44:50] [monaco.d.ts] Starting monaco.d.ts generation

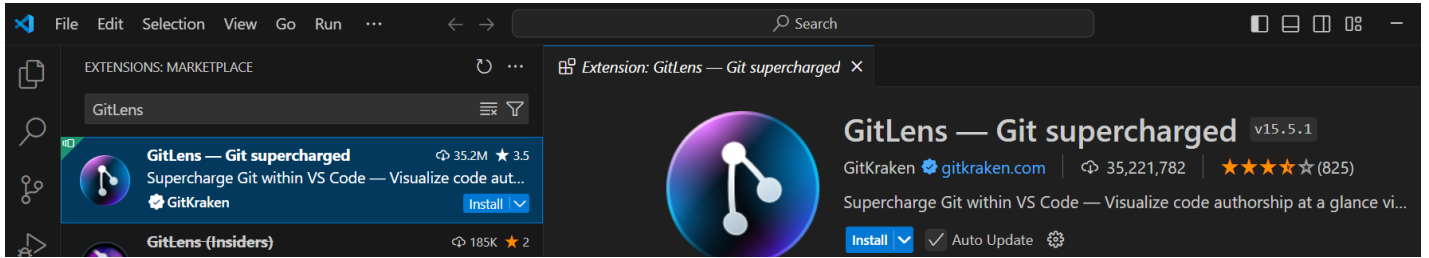
[09:44:56] [monaco.d.ts] Finished monaco.d.ts generation

[09:44:56] Finished compilation with 557 errors after 80542 ms

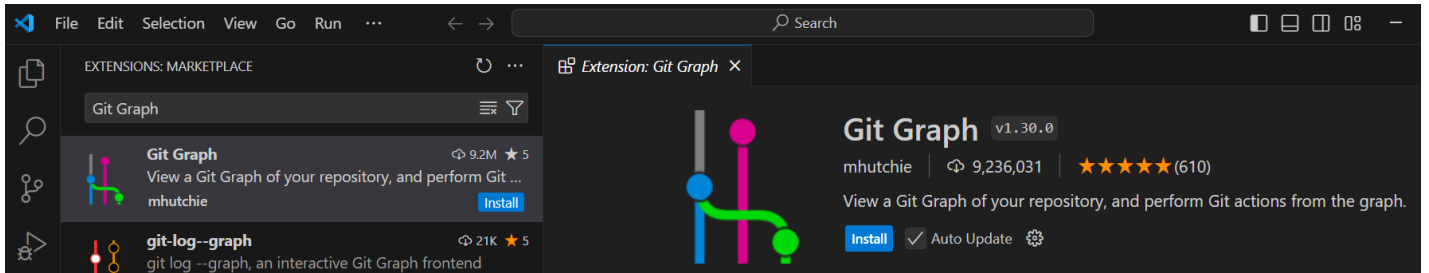
my-app git:(main)



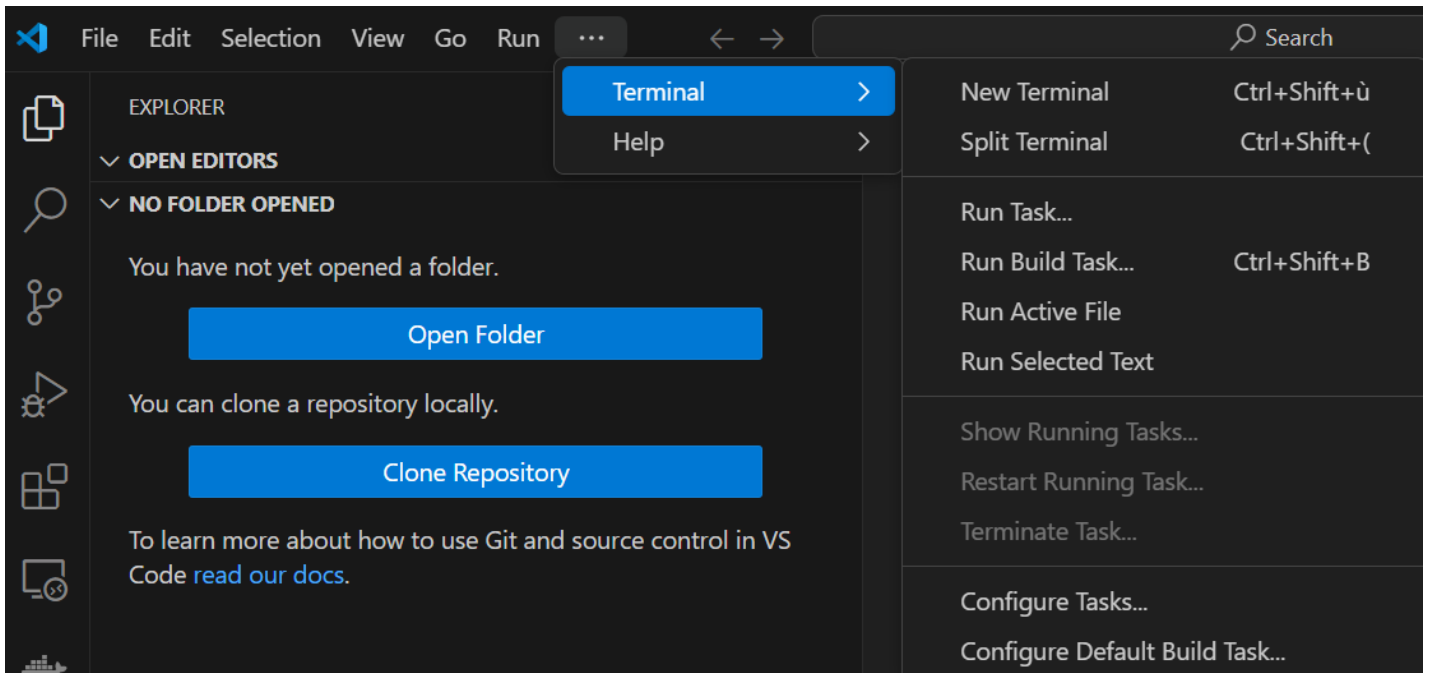
Une fois que l'installation de visual studio est termin   alors installer l'extension **GitLens** :



installer aussi l'extension **Git Graph** :



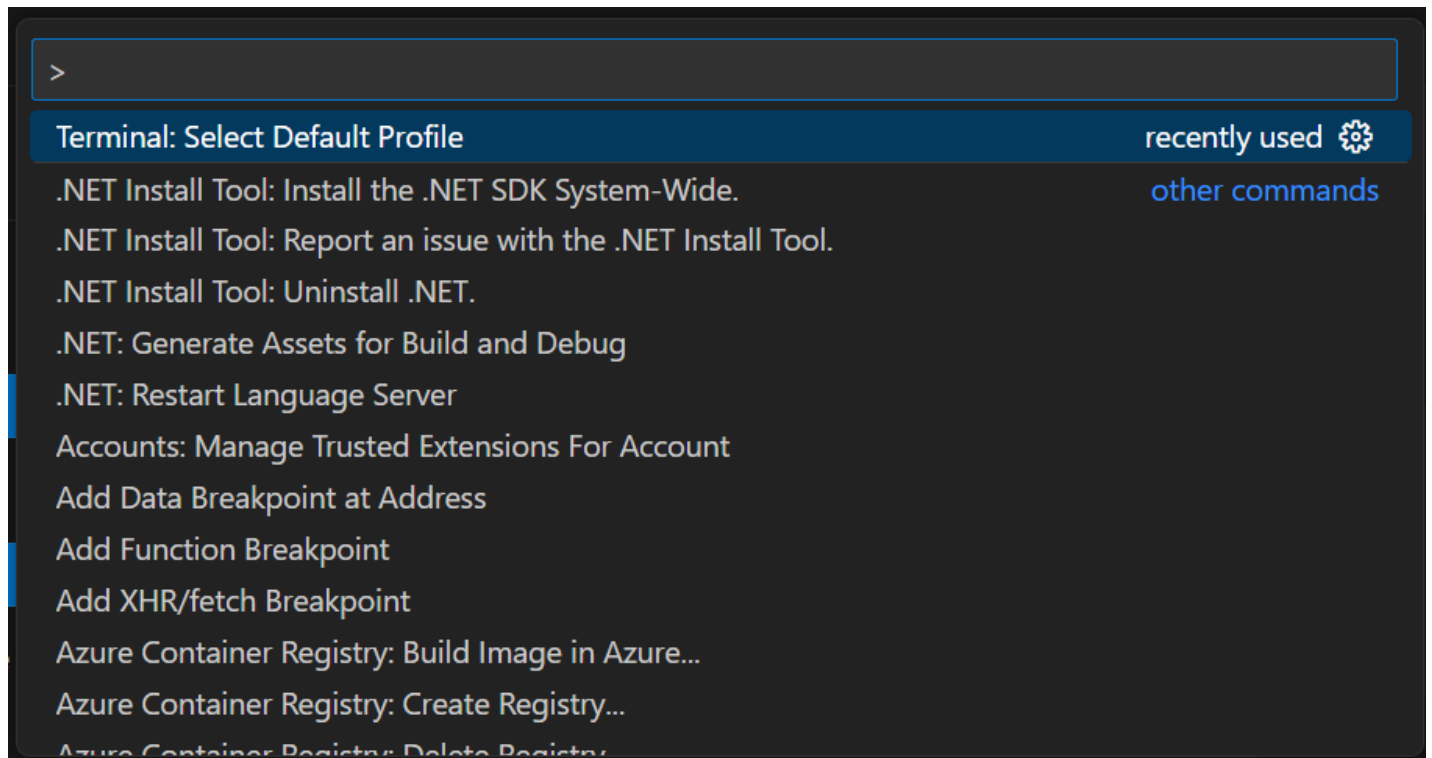
Nous allons maintenant configurer notre bash Windows :



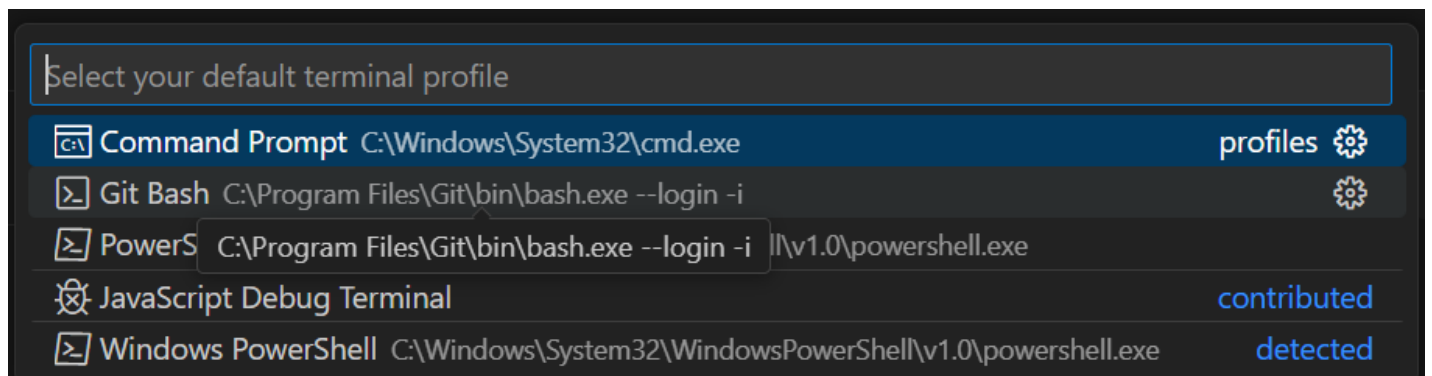


Charger la console **Git Bash** à la place de **Powershell**.

Taper **Ctrl+Shift+P** sur visual studio code pour obtenir :

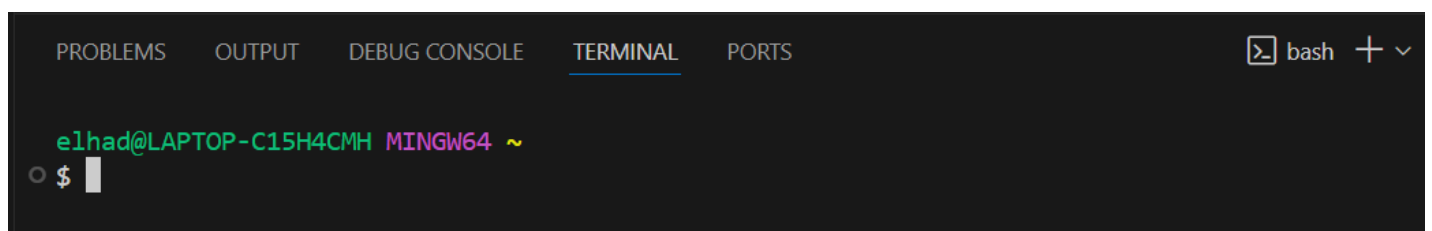


Mettre dans la section recherche « **Select Default Profile** »



Sélectionner **Git Bash**.

Fermer et Relancer Visual Studio Code et verifier bien que par défaut Git Bash est votre terminal par défaut.



### 3. Node Js

Se rendre sur le site <https://nodejs.org/en/download/package-manager/current>

## Download Node.js®


Download Node.js the way you want.

[Package Manager](#) [Prebuilt Installer](#) [Prebuilt Binaries](#) [Source Code](#)


Install Node.js 

v22.9.0 (Current) ▾

 on 


 Windows ▾

 using 

 fnm ▾

```
1 # installs fnm (Fast Node Manager)
2 winget install Schniz.fnm
3
4 # configure fnm environment
5 fnm env --use-on-cd | Out-String | Invoke-Expression
6
7 # download and install Node.js
8 fnm use --install-if-missing 22
9
10 # verifies the right Node.js version is in the environment
11 node -v # should print `v22.9.0`
12
13 # verifies the right npm version is in the environment
14 npm -v # should print `10.8.3`
```

PowerShell 

 Copy to clipboard

Installer d'abord Chocolatey avec le **PowerShell** :

```
Sélection Administrateur : Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. Tous droits réservés.

score6
em32> Set-ExecutionPolicy AllSigned; iex ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))

La stratégie d'exécution permet de vous prémunir contre les scripts que vous jugez non fiables. En modifiant la
stratégie d'exécution, vous vous exposez aux risques de sécurité décrits dans la rubrique d'aide
about_Execution_Policies à l'adresse https://go.microsoft.com/fwlink/?LinkID=135170. Voulez-vous modifier la stratégie
d'exécution ?
[O] Oui [T] Oui pour tout [N] Non [U] Non pour tout [S] Suspendre [?] Aide (la valeur par défaut est « N ») : Oui
Forcing web requests to allow TLS v1.2 (Required for requests to Chocolatey.org)
Getting latest version of the Chocolatey package for download.
Not using proxy.
Getting Chocolatey from https://community.chocolatey.org/api/v2/package/chocolatey/2.3.0.
Downloading https://community.chocolatey.org/api/v2/package/chocolatey/2.3.0 to C:\Users\elhad\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip
Not using proxy.
Extracting C:\Users\elhad\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip to C:\Users\elhad\AppData\Local\Temp\chocolatey\chocoInstall
Installing Chocolatey on the local machine
```

**Set-ExecutionPolicy AllSigned; iex ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))**

Puis taper : **Oui**

Puis taper : **T**

Une fois que chocolatey est installé installer Node Js :

**fnm use --install-if-missing 22**

```
PS C:\Windows\system32> choco install nodejs --version="22.9.0"
Chocolatey v2.3.0
Installing the following packages:
nodejs
By installing, you accept licenses for the packages.
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading nodejs.install 22.9.0... 100%

nodejs.install v22.9.0 [Approved]
nodejs.install package files install completed. Performing other installation steps.
The package nodejs.install wants to run 'chocolateyInstall.ps1'.
Note: If you don't run this script, the installation will fail.
Note: To confirm automatically next time, use '-y' or consider:
choco feature enable -n allowGlobalConfirmation
Do you want to run the script?([Y]es/[A]ll - yes to all/[N]o/[P]rint): A

Installing 64 bit version
Installing nodejs.install...
nodejs.install has been installed.
nodejs.install may be able to be automatically uninstalled.
Environment Vars (like PATH) have changed. Close/reopen your shell to
see the changes (or in powershell/cmd.exe just type `refreshenv`).
The install of nodejs.install was successful.
Software installed as 'msi', install location is likely default.
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading nodejs 22.9.0... 100%

nodejs v22.9.0 [Approved]
nodejs package files install completed. Performing other installation steps.
The install of nodejs was successful.
Deployed to 'C:\ProgramData\chocolatey\lib\nodejs'
```