Installing MinGW on Windows 11

1. Understanding MinGW

Concept

- MinGW (Minimalist GNU for Windows) is a development environment designed for native Windows applications.
- It provides open-source tools that ensure compatibility with the Windows operating system.

Why MinGW on Windows?

- Compatibility: MinGW ensures your applications run seamlessly on Windows 11.
- Open-Source Advantage: Leverage freely available open-source tools.
- Streamlined Development: Focus on your code rather than system intricacies.

2. Download MinGW

- Visit the official MinGW website and download the latest version.
- Choose the installer that matches your system specifications.

3. Installation Wizard

3.1. Installing MinGW Installation Manager

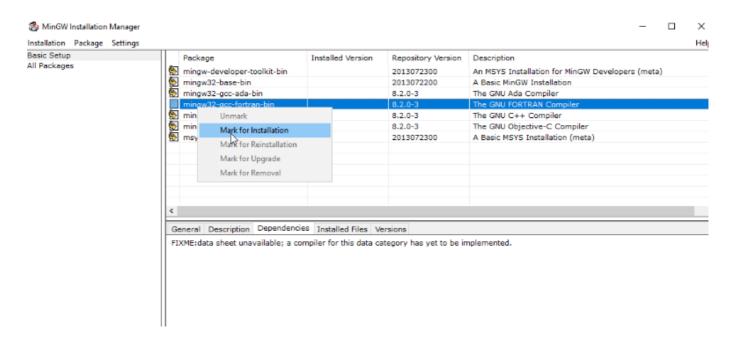
- Run the downloaded installer (usually an .exe file).
- Follow the on-screen instructions.

At the moment I wrote this document, the installer which I downloaded is for installing "MinGW Installation Manager".

"MinGW Installation Manager" is an application which helps you to select packages of "MinGW" toolchain and to install them.

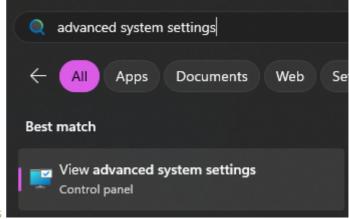
3.2. Installing MinGW packages

- Open MinGW Installation Manager application.
- Select "Basic Setup" > check all the basic packages here.



- You can select the components you need for your development requirements now or later.

4. Configure Environment Variables



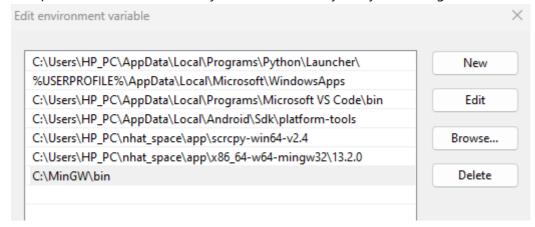
Open Windows Advanced System Settings

If you don't know how to open System Information, use Google please.

• Click "Environment Variables" > At "User variable", select "Path" and click "Edit".

If "Path" doesn't exist yet, click New to create one.

• Add path of MinGW bin directory. This ensures that your system recognizes MinGW commands.



5. Verify Installation

• Open your command prompt (E.g: PowerShell) and type the following command:

gcc --version

• If successful, you'll receive information about the installed GCC version, confirming that MinGW is ready for use.

Pay attention that applications which have been run before you set Environment variable "path" won't update automatically.

So, you must close and open any application which you intent to use with "MinGW" now.

Happy coding! 🔗