

Installing Visual Studio Code on a Windows system:

Step 1: Download the Installer

1. Open your web browser and go to the [Visual Studio Code website](https://code.visualstudio.com/).
2. Click the **"Download for Windows"** button. This will download the VS Code installer (VSCodeSetup-x64-<version>.exe).

Step 2: Run the Installer

1. Once the download is complete, locate the downloaded file (usually in your "Downloads" folder).
2. Double-click the installer file to run it.

Step 3: Accept the License Agreement

1. The Visual Studio Code Setup window will appear.
2. Read the license agreement and check the box to accept the terms.
3. Click the **"Next"** button.

Step 4: Choose Installation Location

1. Choose the destination folder where you want to install Visual Studio Code or leave it as the default location.
2. Click the **"Next"** button.

Step 5: Select Additional Tasks

1. In the "Select Additional Tasks" window, you can choose additional options such as:
 - Create a desktop icon
 - Add "Open with Code" actions to Windows Explorer file context menus
 - Add "Open with Code" actions to Windows Explorer directory context menus
 - Register Code as an editor for supported file types
 - Add to PATH (this allows you to open VS Code from the command line)

2. Check the options you want and click the **"Next"** button.

Step 6: Install

1. Review your installation settings.
2. Click the **"Install"** button to start the installation process.

Step 7: Complete the Installation

1. Once the installation is complete, you will see the "Completing the Visual Studio Code Setup" window.

2. Check the box that says "Launch Visual Studio Code" if you want to open VS Code immediately after installation.

3. Click the **"Finish"** button.

Step 8: Launch Visual Studio Code

1. If you didn't check the "Launch Visual Studio Code" box, you can open VS Code manually by finding the shortcut on your desktop or searching for "Visual Studio Code" in the Start menu.

Step 9: Install Extensions (Optional)

1. Once Visual Studio Code is open, you can install extensions to enhance its functionality.

2. Click on the Extensions icon in the Activity Bar on the side of the window or press Ctrl+Shift+X.

3. Search for and install any extensions you need.

Install Git and MySQL on a Windows machine:

Installing Git

1. ***Download Git:***

- Go to the [Git official website](<https://git-scm.com/>).
- Click on the "Download" button for Windows.

2. ***Run the Installer:***

- Locate the downloaded .exe file (e.g., Git-2.x.x-64-bit.exe).
- Double-click the file to run the installer.

3. ***Setup Wizard:***

- Click "Next" on the initial setup screen.
- Read and accept the license agreement, then click "Next".

4. ***Select Destination Location:***

- Choose the installation location or leave it as default, then click "Next".

5. ***Select Components:***

- Select the components you want to install. It's recommended to leave the defaults checked, then click "Next".

6. ***Select Start Menu Folder:***

- Choose the Start Menu folder or leave it as default, then click "Next".

7. ***Choosing the Default Editor Used by Git:***

- Select the default text editor for Git. You can choose any editor you prefer (e.g., Vim, Notepad++, Visual Studio Code), then click "Next".

8. *Adjusting Your PATH Environment:*

- Select "Git from the command line and also from 3rd-party software", then click "Next".

9. *Choosing HTTPS Transport Backend:*

- Select "Use the OpenSSL library", then click "Next".

10. *Configuring the Line Ending Conversions:*

- Select "Checkout Windows-style, commit Unix-style line endings", then click "Next".

11. *Configuring the Terminal Emulator to Use with Git Bash:*

- Select "Use MinTTY (the default terminal of MSYS2)", then click "Next".

12. *Choose the Default Behavior of 'git pull':*

- Select the preferred behavior or leave it as default, then click "Next".

13. *Choose a Credential Helper:*

- Select "Git Credential Manager", then click "Next".

14. *Configuring Extra Options:*

- Check or uncheck additional options as needed (enable symbolic links is often unchecked), then click "Next".

15. *Installing:*

- Click "Install" to begin the installation process.
- Once the installation is complete, click "Finish".

16. *Verify Installation:*

- Open Command Prompt or Git Bash.
- Type `git --version` and press Enter. You should see the Git version installed.

Installing MySQL

1. *Download MySQL Installer:*

- Go to the [MySQL official website](<https://dev.mysql.com/downloads/installer/>).
- Choose the appropriate installer for your Windows version (e.g., MySQL Installer MSI).

2. *Run the Installer:*

- Locate the downloaded .msi file.

- Double-click the file to run the installer.

3. *Setup Type:*

- Choose the setup type that best suits your needs. For most users, "Developer Default" is recommended. Click "Next".

4. *Check Requirements:*

- The installer will check for any missing requirements. If any are missing, follow the prompts to install them. Click "Next".

5. *Installation:*

- Click "Execute" to download and install the necessary components. Once all items are installed, click "Next".

6. *Product Configuration:*

- Click "Next" to start the configuration process.

7. *MySQL Server Configuration:*

- Choose the configuration type (e.g., "Development Machine"), then click "Next".
- Set the connectivity options (e.g., default port 3306), then click "Next".
- Configure the authentication method. It is recommended to use "Use Strong Password Encryption for Authentication", then click "Next".

8. *Account and Roles:*

- Set a root password and create user accounts if needed. Click "Next".

9. *Windows Service:*

- Configure the MySQL Server as a Windows Service. Leave the defaults and click "Next".

10. *Apply Configuration:*

- Click "Execute" to apply the configuration settings. Once completed, click "Finish".

11. *Installation Complete:*

- Click "Finish" to exit the installer.

12. *Verify Installation:*

- Open Command Prompt.
- Type `mysql --version` and press Enter. You should see the MySQL version installed.
- To further verify, you can log in to the MySQL server by typing `mysql -u root -p` and entering the password you set during installation.

By following these steps, you should have both Git and MySQL installed on your Windows machine successfully.