

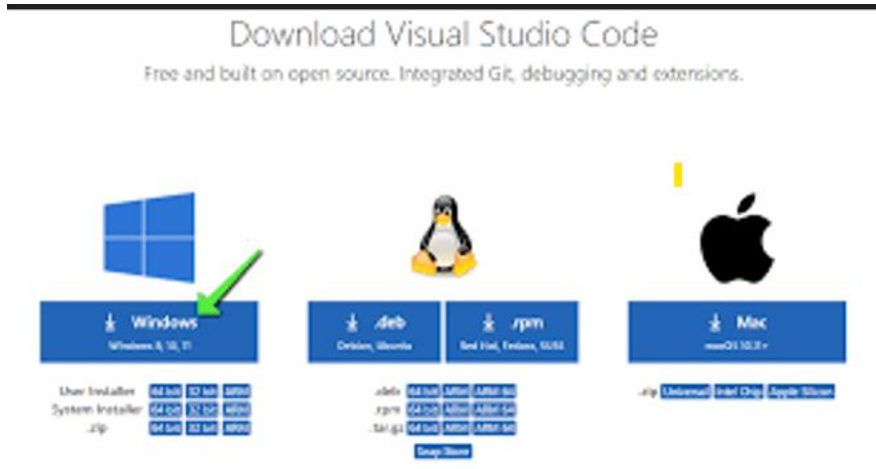
1. Installation of VS Code:

a. Download:

Step one:

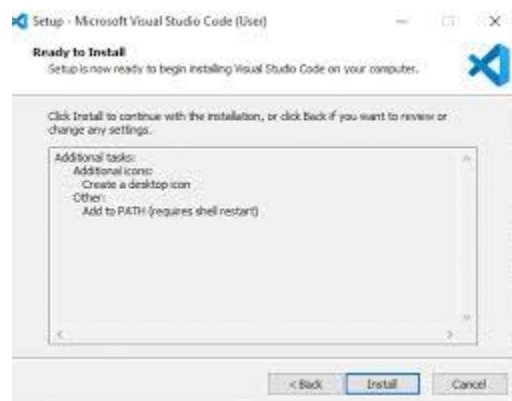
- visit website: code.visualstudio.com and click on the Download for windows

b. Install:



Step two:

- Run the downloaded file for VsCode
- Follow the installation steps
 - Accept the license agreement
 - Choose the installation location {best pick where your windows is }
 - Select additional task such as creating a desktop icon, adding to PATH and registering the context menu for easy file opening



Then click Install

c. Prerequisites:

- Ensure you have windows 11 and administrative privileges to install VsCode software.
- Ensure you have an internet connection to download the vscode installer and extension.

2. First-time Setup:

Initial Configuration and Settings

a. Theme and Layout

- Open vscode application and navigate to File > Preferences > Color Theme to choose a preferred color theme.

b. Extensions

- Open the application navigate Extension icon in the Activity bar
- Install essential extensions such as:
 - Prettier for code formatting.
 - Python for python support

c. Settings

- Access setting via File > preference > settings
- Adjust setting such as font size, auto-save, and tab size to optimize your coding environment.

3. User Interface Overview:

Main components of vscode

a. Activity Bar

- It is located on the left side on the application interface
- It provide quick access to different views such as Explore, Search, Source Control, Run and Debug and Extensions.

b. Side Bar

- Next to the activity Bar
- Displays the contents of the selected view from the activity Bar, such as the file explorer or search results.

c. Editor Group

- Open the edit your file, multiple file can be opened in tabs within this space

d. Status Bar

- Located at the bottom
- It show information about the current file, such as encoding, line ending and active branch in version control

4. Command Palette

- The Command Palette is a powerful tool in VS code that provide access to many commands and features
- Access it by pressing CTRL + Shift + p

Examples of common tasks

- Opening file by typing open FILE
- Running tasks by typing Run Task
- Accessing setting by typing Preferences: open settings

5. Extension in VS Code

- Extensions is used to enhance the functionality of VS Code by adding support for additional languages, debuggers, and tools and features

Finding, Installing and Managing Extensions:

- Go to extension view
- Search for extension using keywords
- Click in stall on the extension
- Mange installed extension from extension view

• Essential extensions for web development.

- HTML CSS Support
- Live Server
- JavaScript (ES6) code snippets

6. Integrated Terminal:

How to Open and use the Integrated Terminal:

- Open the terminal by selecting View > Terminal
- Use the terminal just like an external terminal to run commands, install packages, and execute scripts

Advantages:

- Directly interact with your project's file and environment without leaving the editor
- Easily view and edit code while running commands

7. File and Folder Management:

Creating, Opening and Managing File and Folder:

- Create a new file or folder using the Explorer view by right-clicking and selecting New File or New Folder.

- Open files by double-clicking in the Explorer or using Ctrl+O.
- Navigate between files using the Explorer or by pressing Ctrl+P to quickly open files by name.

8. Setting and Preference:

Customizing Settings:

- Access settings via File > Preferences > Settings
- Change themes: Color Theme in the settings.
- Adjust font size: Editor: Font Size in settings.

9. Debugging in VS code

Setting Up and Starting Debugging:

- Configuration:**
 - Go to Run > Add Configuration to create a launch configuration file (launch.json).
- Start Debugging:**
 - Set breakpoints by clicking in the gutter next to the line numbers.
 - Start debugging by pressing F5 or selecting Run > Start Debugging.
- Key Debugging Features:**
 - Breakpoints, step through code, watch variables, and evaluate expressions

10. Using Source Control:

Integrating Git with VS Code:

- Initialize a Repository:**
 - Open your project folder in VS Code.
 - Go to the Source Control view by clicking the Source Control icon in the Activity Bar.
 - Click Initialize Repository.
- Making Commits:**
 - Stage changes by clicking the + icon next to the file.
 - Enter a commit message and click the check mark icon to commit.
- Pushing Changes to GitHub:**
 - Use the terminal to add the remote repository:
 - git remote add origin <repository-url>.
 - Push changes using git push.

