

IDE

IDE (Integrated Development Environment)

- An application to develop software
 - Editor: Write source codes
 - Builder: Compile, Execute testing
 - Debugger: Support debugging
- Examples of IDE
 - Eclipse, Xcode, Android Studio, Visual Studio, IntelliJ IDEA
 - Visual Studio Code, Cloud9

Visual Studio Code

- A free and open source IDE
- Developed by Microsoft
- Supports many programming languages
- Supports many extensions
- Available on Windows, MacOS, and Linux

View

- The main view consists of the editor, sidebar, and status bar
- The sidebar can be used to navigate files, view extensions, and manage source control
- The status bar shows information about the current file and workspace

Fudamental Operations

- Open a folder as a workspace
- Open a file in the workspace
- Edit the file
- Save the file
- Run commands in the terminal

Extensions

- Extensions are available to add features to Visual Studio Code
- Extensions can be installed from the marketplace
- Examples of useful extensions
 - Language support (e.g., Python, Java, C++)
 - Linting and formatting (e.g., ESLint, Prettier)
- Debugging support (e.g., Python, Java)
- Version control (e.g., GitLens, Git Graph)
- Remote development (e.g., Remote - SSH, Remote - Containers)

VSCode Commands

- Open the command palette with `ctrl + Shift + P` (or `Cmd + Shift + P` on Mac)
- Common commands:
 - `>Open File` : Open a file in the workspace
 - `>Open Folder` : Open a folder as a workspace
 - `>New File` : Create a new file in the workspace
 - `>New Window` : Open a new window
 - `>Preferences: Open Settings` : Open the settings editor

Summary

- Visual Studio Code is a powerful and flexible IDE
- It supports many programming languages and extensions
- It is available on Windows, MacOS, and Linux
- It is widely used by developers around the world