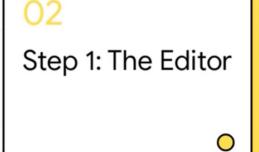
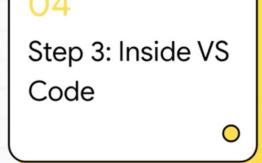
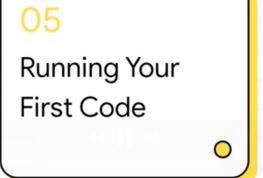
Stuck getting C++ and VS Code to work together?











Your C++ Dev Environment

The Two Key Pieces

Development Environment



An Editor (where you write code) and a Compiler (what turns your code into a runnable program).



Step 1: The Editor

Installing VS Code



Visual Studio Code. The lightweight code editor. We want this one!



Visual Studio IDE. A full development environment. Not what we need.

Install VS Code

Go to website

Go to code.visualstudio.com

Download

Download the installer for your OS

Install

Run the installer using default settings



Step 2: The Compiler

The Path Divides



Windows Path: Install MinGW, which provides the GCC Compiler.



Mac Path: Install Xcode Tools, which provide the Clang Compiler.



Let's install the MinGW compiler using a tool called MSYS2.



Install MinGW

Download MSYS2

Follow the C++ link on the VS Code setup page and install MSYS2.

Open Shell

Open the MSYS2 shell after installation.

Paste Command

Paste the 'pacman' command to install the toolchain.

Update Path Variable



Check your work! Open Command Prompt and type gcc <mark>-version</mark>. You should see version info.



Let's install the Clang compiler via the Xcode Command Line Tools.



Install Clang



First, open the Terminal application.

Check Version

Type `clang --version` to see if it's already installed.

Install if needed

If not, run `xcode-select -install` and follow the prompts.

Check your work! Run

clang <mark>-version</mark> again.

You **should** see 'Apple clang version...'

Check your work! Run

clang <mark>-version</mark> again.

You **should** see 'Apple clang version...'



Step 3: Inside VS Code

Powering Up The Editor

Essential Extensions

- C/C++ Extension Pack: From Microsoft for IntelliSense and debugging.
- Code Runner: Adds a simple 'Play' button to run your code.



Running Your First Code

The Payoff!

Hello, World! Add Code Create File Save Run Save the file. Create a new file Paste in the 'Hello, Click the 'Play' button named 'hello.cpp'. World!' code. to run your code.

Your C++ environment is running. What will you build next?