Guides for Mac User

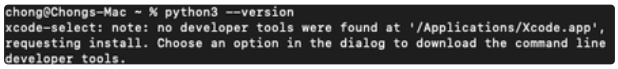
- Python Installation
- IDE Installation: Visual Studio Code
- Libraries Installation
- Install C++ compiler in Visual Studio Code

Python Installation

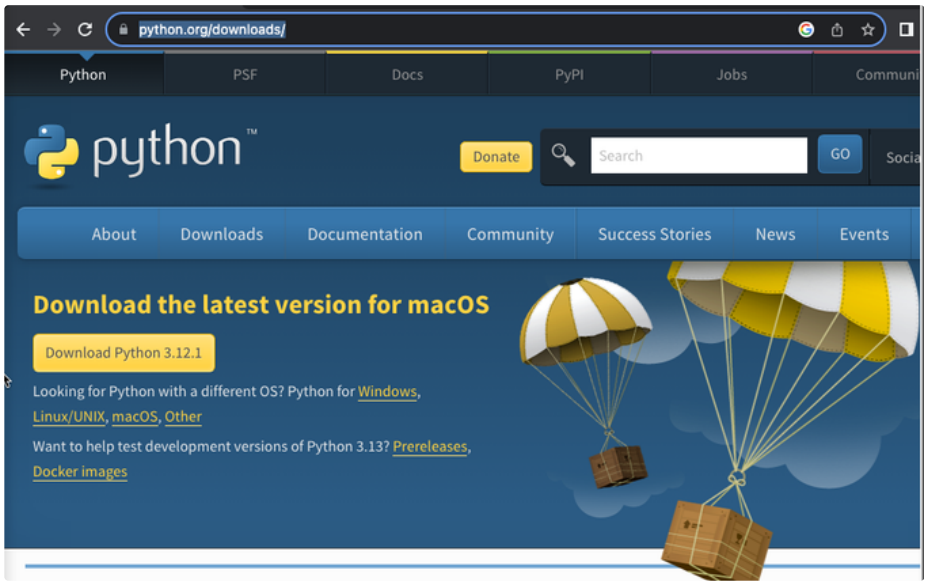
1. Go to your terminal.
2. Enter command below to check python version installed in your Mac.

```
python3 --version
```

3. If you get the output like below. You will need to install python from the official website.



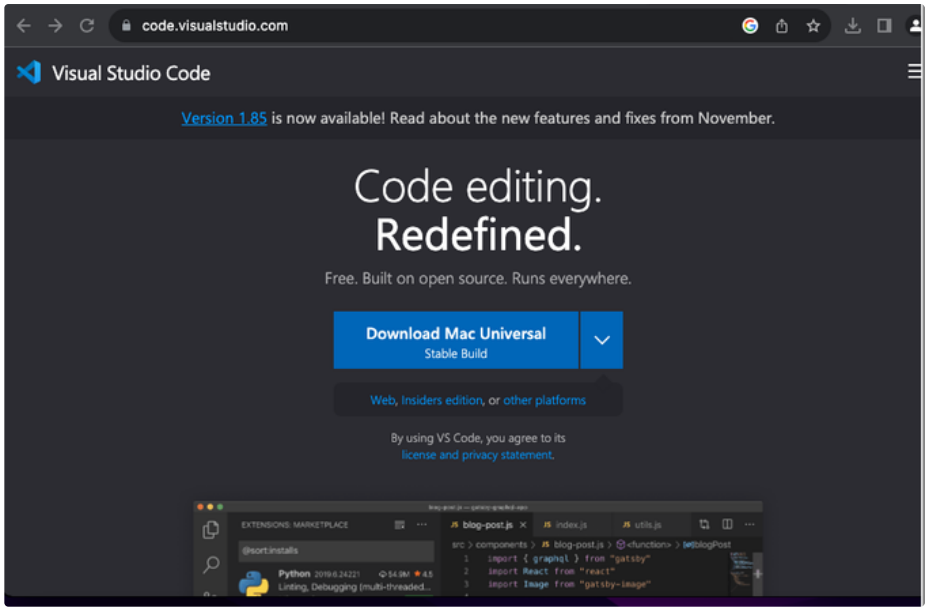
4. Go to your browser, download and install the latest python version for macOS from Download Python.



5. After finished installed, open your terminal again and check your python 3 version.
6. If you get the output like below, it means Python is successfully installed to your Mac.

IDE Installation: Visual Studio Code

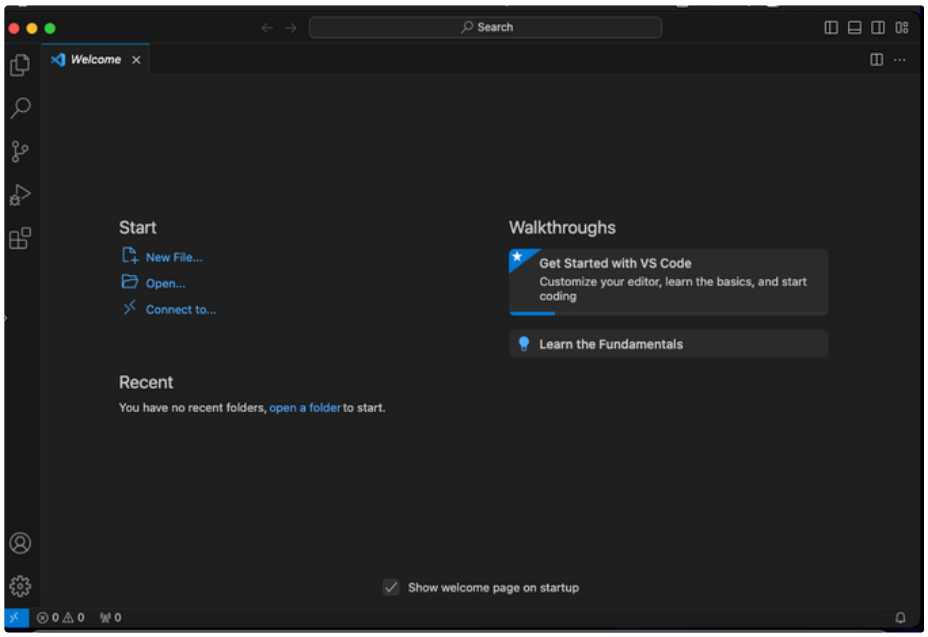
1. In your browser, go to https://code.visualstudio.com/ and click on Download Mac Universal to download VSCode zip.



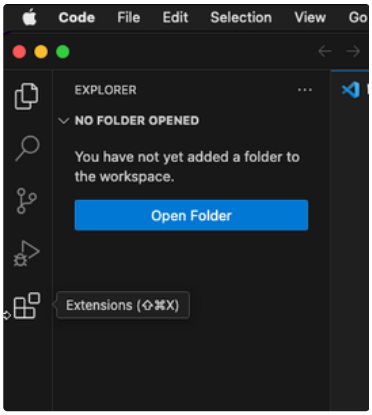
2. After downloaded the zip file, open and unzip it, your VSCode should be ready to use.

3. Open your VSCode.

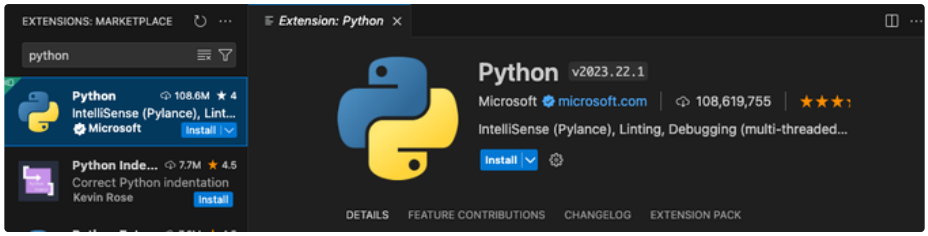
4. You should be able to see the welcome page of VS Code like below.



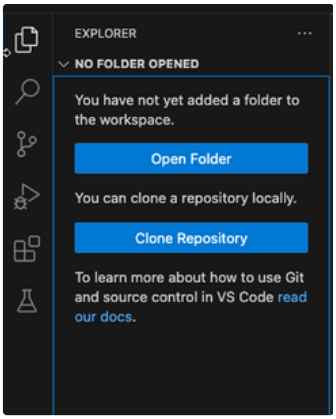
5. Next, you need to install Python extension in VSCode. Go to the Extensions tab on the left side.



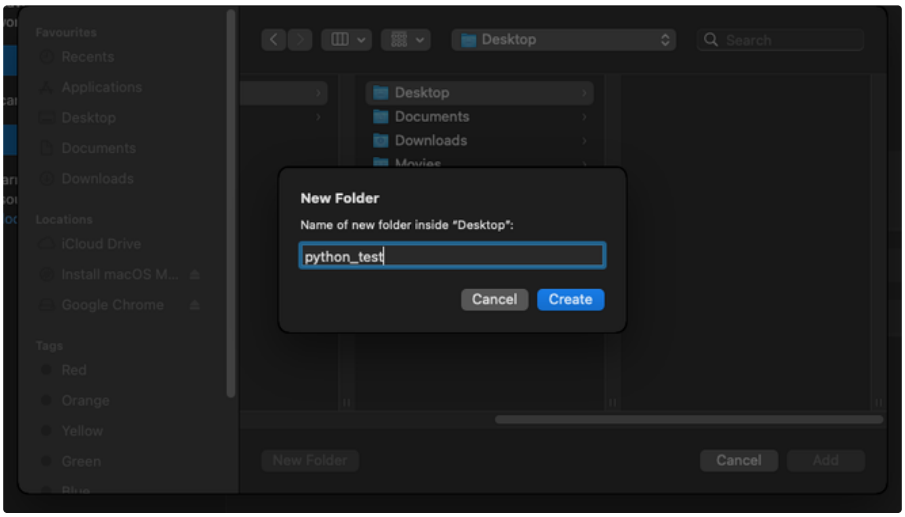
6. Search python and install it.



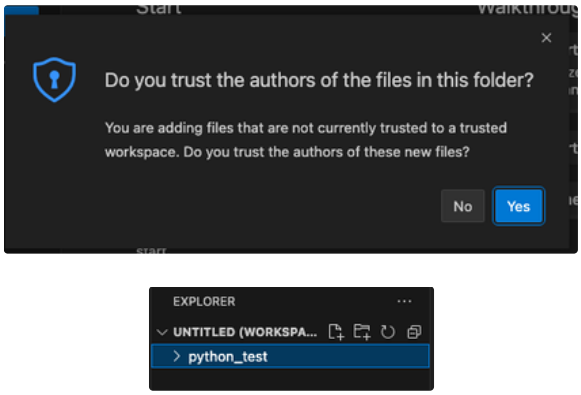
7. After completed, you are ready to code! Go back to Explorer tab on the left side and click on Open Folder.



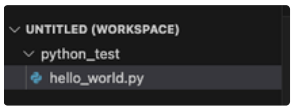
8. Click on Desktop followed by New Folder, name your folder as python_test, click on Create, then Add.



9. Next, click on Yes to make the file trusted in workspace. You will see python_test added to your workspace.



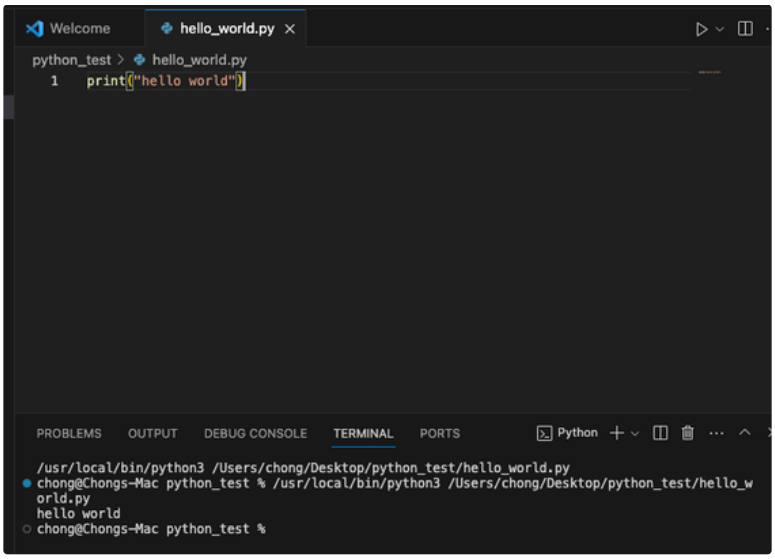
10. Right click on the python_test, and click on New File, enter hello_world.py to create a python file.



11. In the text editor insert code below and click run button on the right upper side.

```
print("hello world")
```

12. You should see the output of “hello world“ below.



Libraries Installation

1. Before you install any library, you will need to install pip (Package Installer for Python).
2. Open your terminal, enter command below to install pip.

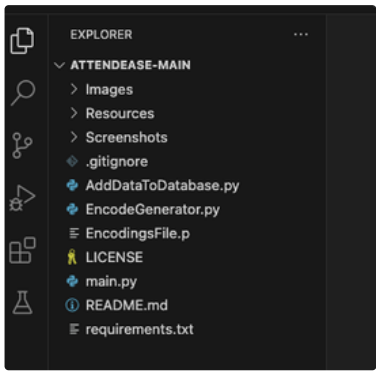
```
curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py
python3 get-pip.py
```

3. After completed, enter command below to check your pip version. Then you are ready to install libraries.

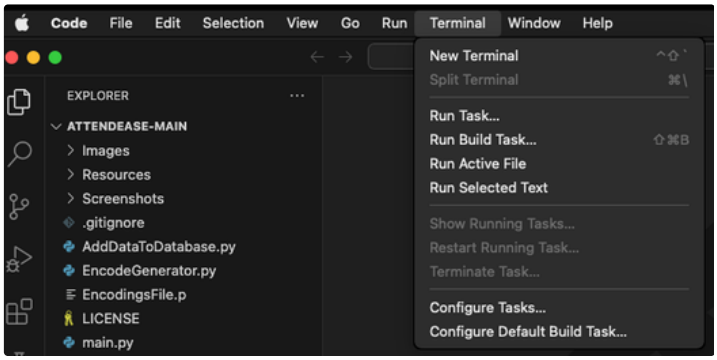
```
pip --version
```

```
pip3 --version
```

4. Click on File>Open Folder… and select AttendEase-main, click Open to open the AttendEase folder in VSCode.

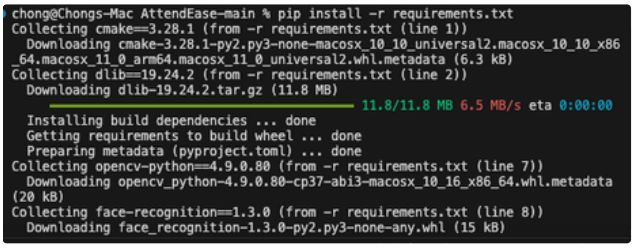


5. Click on Terminal tab in the bar above, select New Terminal.



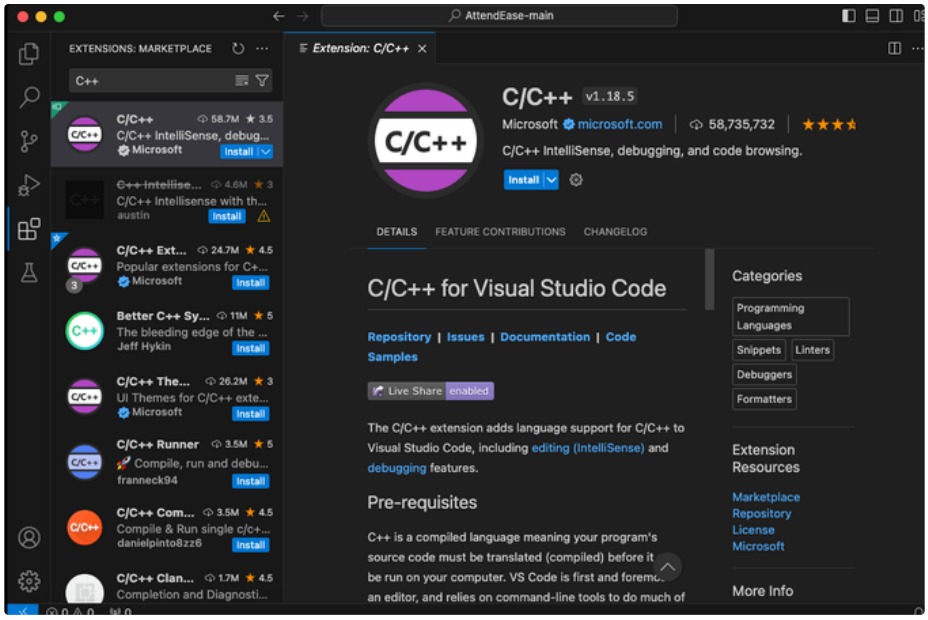
6. Enter command below to install the libraries required. It takes around 5-10 minutes, please wait until the installation completed.

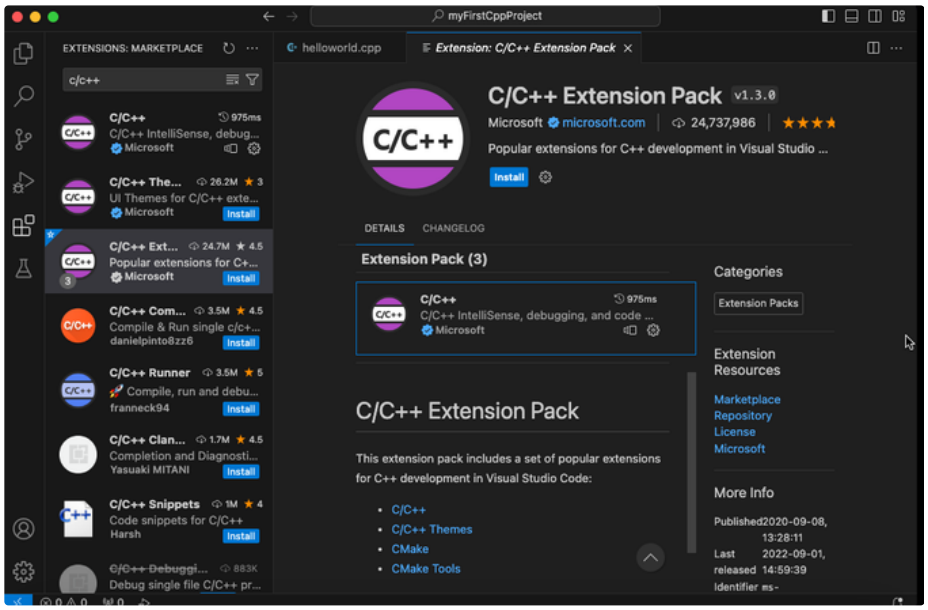
```
pip install-r requirements.txt
```

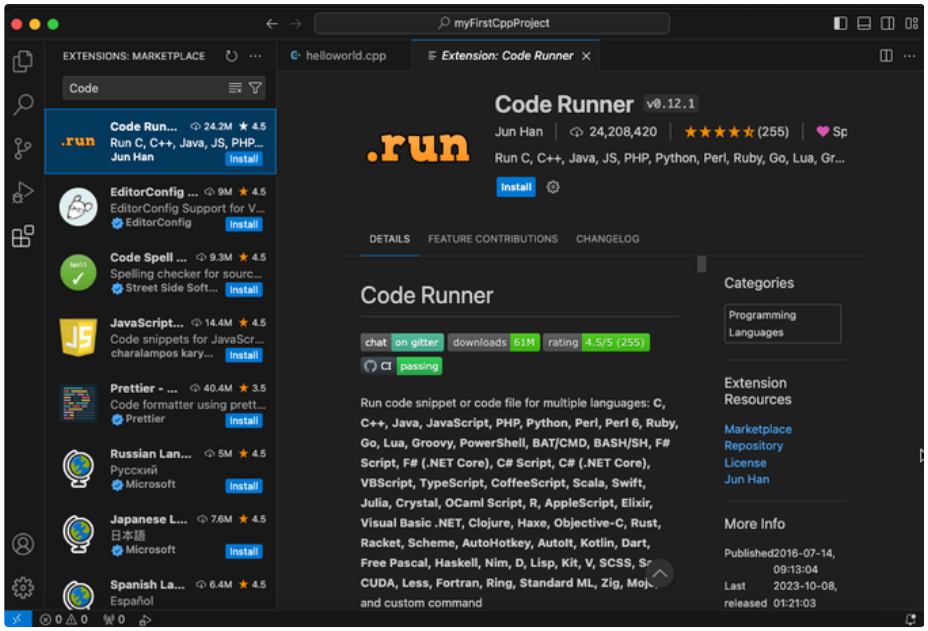


Install C++ compiler in Visual Studio Code

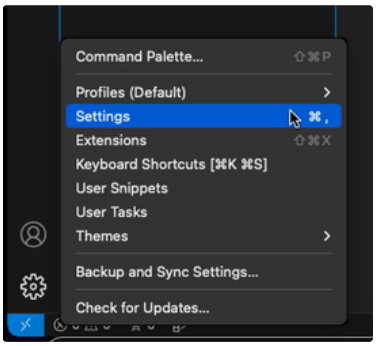
1. Launch Visual Studio Code, click on Extension tab on the left of the, search for C++ and install the C/C++, C/C++ Extension Pack, and Code Runner as below.


AttendEase-main
EXTENSIONS: MARKETPLACE
C++
Extension: C/C++
C/C++ v1.18.5
Microsoft microsoft.com | 58,735,732
C/C++ IntelliSense, debugging, and code browsing.
Install
DETAILS FEATURE CONTRIBUTIONS CHANGELOG
C/C++ for Visual Studio Code
Repository | Issues | Documentation | Code Samples
Live Share enabled
The C/C++ extension adds language support for C/C++ to Visual Studio Code, including editing (IntelliSense) and debugging features.
Pre-requisites
C++ is a compiled language meaning your program's source code must be translated (compiled) before it be run on your computer. VS Code is first and foremo... an editor, and relies on command-line tools to do much of
Categories
Programming Languages
Snippets
Linters
Debuggers
Formatters
Extension Resources
Marketplace
Repository
License
Microsoft
More Info

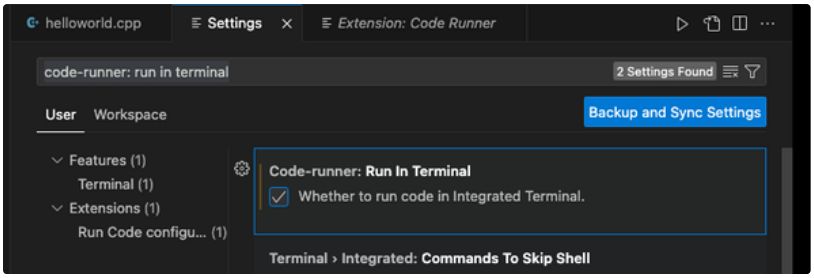

myFirstCppProject
EXTENSIONS: MARKETPLACE
c/c++
helloworld.cpp
Extension: C/C++ Extension Pack
C/C++ Extension Pack v1.3.0
Microsoft microsoft.com | 24,737,986
Popular extensions for C++ development in Visual Studio ...
Install
DETAILS CHANGELOG
Extension Pack (3)
C/C++
C/C++ IntelliSense, debugging, and code ...
Microsoft
C/C++ Extension Pack
This extension pack includes a set of popular extensions for C++ development in Visual Studio Code:
C/C++
C/C++ Themes
CMake
CMake Tools
Categories
Extension Packs
Extension Resources
Marketplace
Repository
License
Microsoft
More Info
Published 2020-09-08, 13:28:11
Last released 2022-09-01, 14:59:39


myFirstCppProject
EXTENSIONS: MARKETPLACE
Code
helloworld.cpp
Extension: Code Runner
Code Runner v0.12.1
Jun Han | 24,208,420 | (255)
Run C, C++, Java, JS, PHP, Python, Perl, Ruby, Go, Lua, Gr...
Install
DETAILS FEATURE CONTRIBUTIONS CHANGELOG
Code Runner
chat on gitter downloads 61M rating 4.5/5 (255)
CI passing
Run code snippet or code file for multiple languages: C, C++, Java, JavaScript, PHP, Python, Perl, Perl 6, Ruby, Go, Lua, Groovy, PowerShell, BAT/CMD, BASH/SH, F# Script, F# (.NET Core), C# Script, C# (.NET Core), VBScript, TypeScript, CoffeeScript, Scala, Swift, Julia, Crystal, OCaml Script, R, AppleScript, Elixir, Visual Basic .NET, Clojure, Haxe, Objective-C, Rust, Racket, Scheme, AutoHotkey, AutoIt, Kotlin, Dart, Free Pascal, Haskell, Nim, D, Lisp, Kit, V, SCSS, S... CUDA, Less, Fortran, Ring, Standard ML, Zig, Moj... and custom command
Categories
Programming Languages
Extension Resources
Marketplace
Repository
License
Jun Han
More Info
Published 2016-07-14, 09:13:04
Last released 2023-10-08, 01:21:03

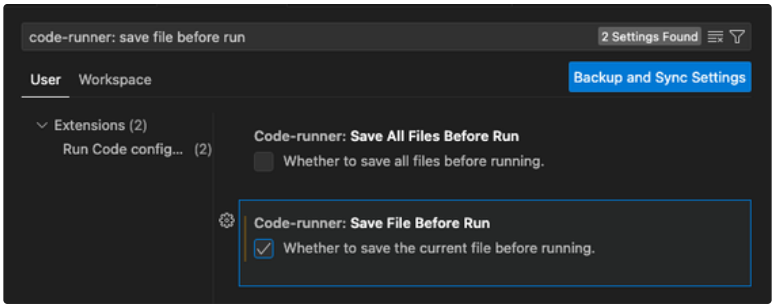
2. After installation completed, open the setting.



3. Search for “Code-runner: Run In Terminal” and check.



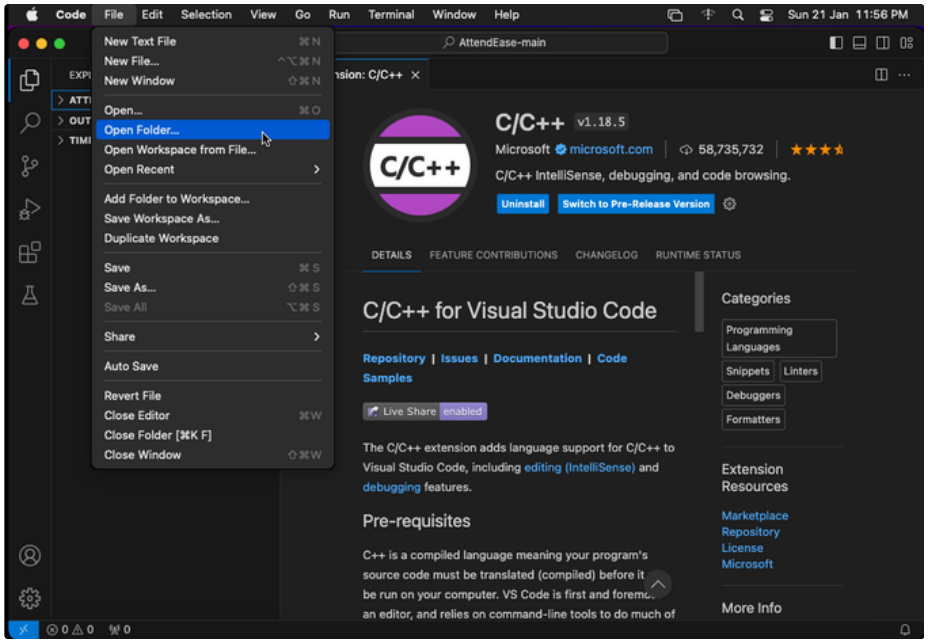
4. After that, search “Code-runner: Save File Before Run“ and check for saving current file before run.



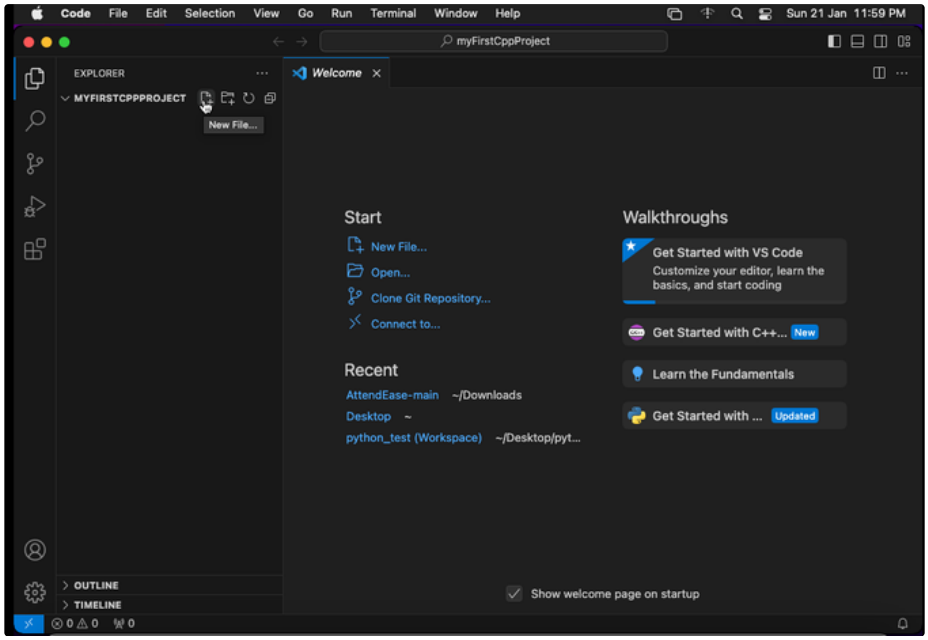
5. Open terminal, execute command below to check your C/C++ language version. You should able to see output as below.

```
clang --version
```

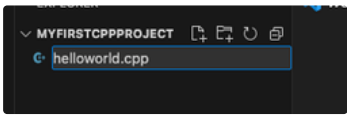
6. Now, you may test your C++ availability in your Mac, create a new folder by clicking File>Open Folder>New Folder. Name the folder as “myFirstCppProject“ and create, open the folder.



3. After opened your new folder, click on New File logo as below.



4. Name it as “helloworld.cpp“ and click enter.

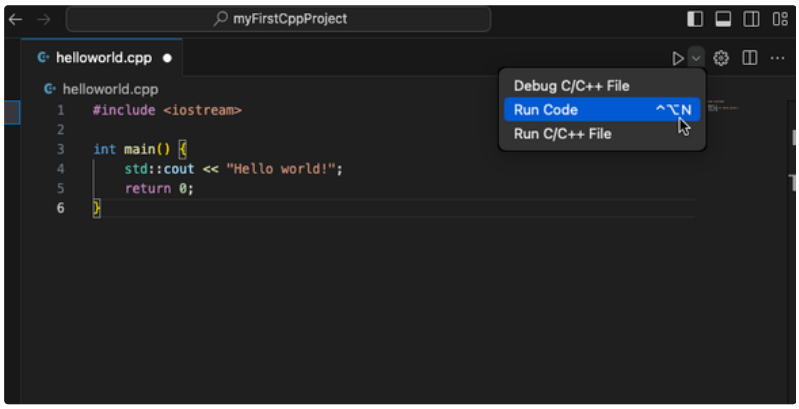


5. Copy the code snippet below into the text editor.

```
#include <iostream>

int main() {
    std::cout << "Hello world!";
    return 0;
}
```

6. Click the run logo in the right upper side.



7. If you get the output of “Hello world!“ in the terminal. Then you are ready to go!