C/C++ for Visual Studio Code

C/C++ support for Visual Studio Code is provided by a Microsoft C/C++ extension to enable cross-platform C and C++ development on Windows, Linux, and macOS. When you create a *.cpp file, the extension adds features such as syntax highlighting (colorization), smart completions and hovers (IntelliSense), and error checking.

```
helloworld.cpp X

    helloworld.cpp > 分 main()

       #include <iostream>
       #include <vector>
       #include <string>
       using namespace std;
       int main()
           vector<string> msg{"Hello", "C++", "World", "from", "VS Code!", "and the C++ extension!"};
           msg.
           for 😭 assign
                                                              void std::vector<std::_cxx11::string
               ⊕ at
                                                              >::assign(std::size_t __n, const std::
                m back
                                                              __cxx11::string &__val)
              😭 begin
           cout 😭 capacity
                                                              +2 overloads

☆ cbegin

                cend cend
                                                              @brief Assigns a given value to a %vector.
                @param _n Number of elements to be assigned.

☆ crbegin

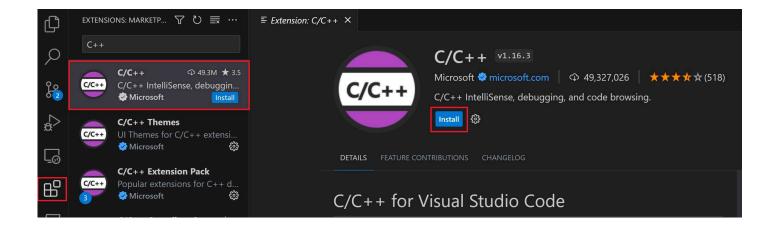
                                                               @param _val Value to be assigned.
                crend crend
                😭 data
                                                              This function fills a %vector with @a _n copies of

⊕ emplace

                                                              the given
```

Install the extension

- 1. Open VS Code.
- Select the Extensions view icon on the Activity bar or use the keyboard shortcut (Ctrl+Shift+X).
- 3. Search for 'C++'.
- 4. Select Install.



Set up your C++ Environment

C++ is a compiled language meaning your program's source code must be translated (compiled) before it can be run on your computer. The C/C++ extension doesn't include a C++ compiler or debugger, since VS Code as an editor relies on command-line tools for the development workflow. You need to install these tools or use the tools already installed on your computer