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How to Install CodeBlocks in Linux (Ubuntu)



Author -  Sakib Mahmud

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<https://www.esakib.com/2022/08/how-to-install-codeblocks-in-linux-ubuntu.html> Code::Blocks is a popular IDE for C++ development on Linux. It is open source and cross-platform, running on Linux, Windows, and macOS. It is configurable and extensible, with a custom build system and support for multiple compilers, including GCC, Clang, and Visual C++. CodeBlocks is released under the GNU General Public License. You can install CodeBlocks on your Linux machine by using some commands on the Linux terminal. Here I will show you how to install CodeBlocks on your Linux machine.

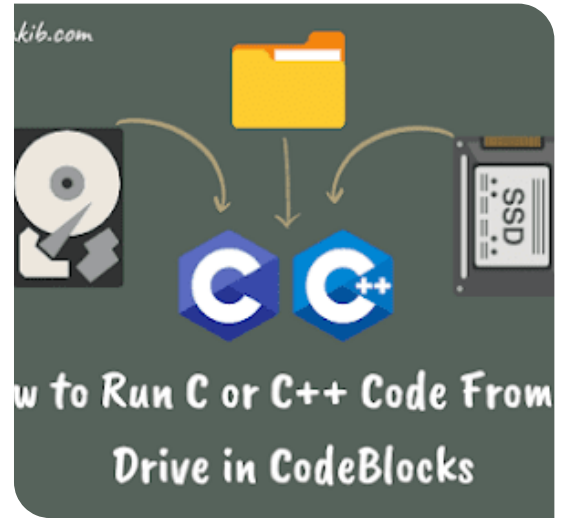
HOW TO INSTALL **CODEBLOCKS** IN LINUX (UBUNTU)  

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What to do before installing CodeBlocks on Linux


The first thing you have to do is check your system and figure out whether your system already has the

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compiler installed or not. Some Linux applications need gcc, and g++ and that's why you may be able to find those already existing in your system. To check that you can simply run the command on your terminal.

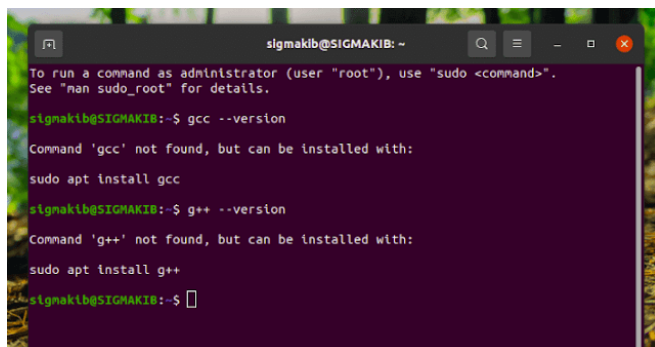
To check whether gcc is on your system or not, run the command below:

```
gcc --version
```

To check whether g++ is on your system or not, run the command below:

```
g++ --version
```

If they already exist then you don't need to do anything to install the compiler. In that case, you can even run a C, **object-oriented programming language** C++ file directly on your system. Just install any code editor, a code runner extension on that editor and you are ready to go.



```
sigmakib@SIGMAKIB: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
sigmakib@SIGMAKIB:~$ gcc --version  
Command 'gcc' not found, but can be installed with:  
sudo apt install gcc  
sigmakib@SIGMAKIB:~$ g++ --version  
Command 'g++' not found, but can be installed with:  
sudo apt install g++  
sigmakib@SIGMAKIB:~$
```

But if they don't exist in your system, you have to install them separately. The gcc compiler comes with the CodeBlocks, you just have to install g++ in your system separately. We need g++ to compile and run C++ codes.

If you are a Windows user then this article will help to solve the compiler problem: **CodeBlocks Can't Find Compiler (Windows OS)**

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Steps you have to follow to install CodeBlocks on Linux

Here is the step-by-step tutorial to install CodeBlocks on your Linux device:

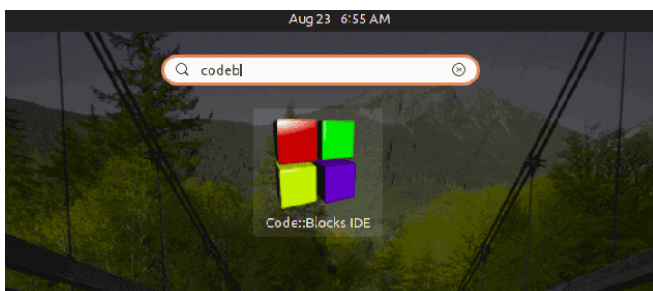
Step 1: Open your Linux terminal and run the 'sudo apt update' command.

```
sigmakib@SIGMAKIB:~$ sudo apt update
[sudo] password for sigmakib:
Hit:1 http://bd.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://packages.microsoft.com/repos/code stable InRelease
Hit:3 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:4 http://bd.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:5 http://bd.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:6 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:7 https://brave-browser-apt-release.s3.brave.com stable InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
3 packages can be upgraded. Run 'apt list --upgradable' to see them.
sigmakib@SIGMAKIB:~$
```

Step 2: Run the command 'sudo apt install codeblocks' to install CodeBlocks. The terminal will ask your permission to install it. To continue type 'y' then hit Enter.

```
sigmakib@SIGMAKIB:~$ sudo apt install codeblocks
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following package was automatically installed and is no longer required:
  libfswupdplugin1
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  binutils binutils-common binutils-x86-64-linux-gnu codeblocks codeblocks-common gcc gcc-9 lib
  libc6-dev libcodeblocks0 libcrypt-dev libctf-nobfd0 libctf0 libgcc-9-dev libitm1
  libutempter0 libwxbase3.0-0v5 libwxgtk3.0-gtk3-0v5 linux-libc-dev manpages-dev xtd
Suggested packages:
  binutils-doc codeblocks-contrib libwxgtk3.0-dev gcc-multilib make autoconf automake
  gcc-9-locales glibc-doc xfonts-cyrillic
The following NEW packages will be installed:
  binutils binutils-common binutils-x86-64-linux-gnu codeblocks codeblocks-common gcc
  libc-dev-bin libc6-dev libcodeblocks0 libcrypt-dev libctf-nobfd0 libctf0 libgcc-9
  libitm1 libubsan0 libutempter0 libwxbase3.0-0v5 libwxgtk3.0-gtk3-0v5 linux-libc-d
0 upgraded, 30 newly installed, 0 to remove and 3 not upgraded.
Need to get 39.7 MB of archives.
After this operation, 168 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

Step 3: After the installation check, whether the CodeBlocks application is accessible or not by searching the application.



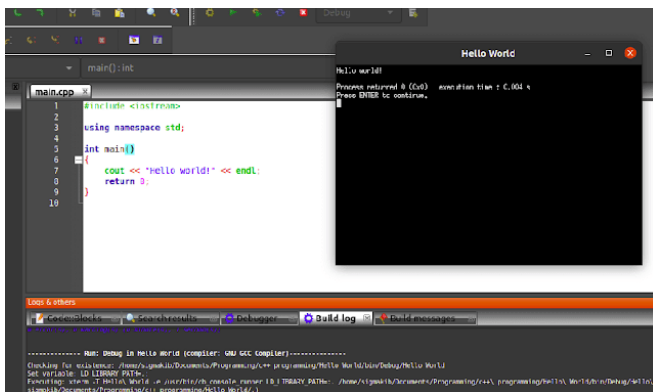
Step 4: Check gcc and g++ is available or not by running the 'gcc --version' and 'g++ --version' command on the terminal.

```
sigmakib@SIGMAKIB: ~  
$ gcc --version  
gcc (Ubuntu 9.4.0-1ubuntu1~20.04.1) 9.4.0  
Copyright (C) 2019 Free Software Foundation, Inc.  
This is free software; see the source for copying conditions. There is NO  
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  
$ g++ --version  
Command 'g++' not found, but can be installed with:  
$ sudo apt install g++  
$
```

Step 5: If g++ is not available then run the '**sudo apt install g++**' command to install g++ packages on the system. This will help you to run C++ codes on the CodeBlocks.

```
2 packages can be upgraded. Run 'apt list --upgradable' to see them.  
$ sudo apt install g++  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following package was automatically installed and is no longer required:  
libfwpdplugin1  
Use 'sudo apt autoremove' to remove it.  
The following additional packages will be installed:  
g++-9 libstdc++9-dev  
Suggested packages:  
g++-multilib g++-9-multilib gcc-9-doc libstdc++9-doc  
The following NEW packages will be installed:  
g++ g++-9 libstdc++9-dev  
0 upgraded, 3 newly installed, 0 to remove and 2 not upgraded.  
Need to get 10.1 MB of archives.  
After this operation, 46.8 MB of additional disk space will be used.  
Do you want to continue? [Y/n] y
```

Step 6: Open CodeBlocks and write basic C/C++ code and test whether the code compiling properly or not.



```
main.cpp  
1 #include <iostream>  
2  
3 using namespace std;  
4  
5 int main()  
6 {  
7     cout << "Hello World!" << endl;  
8     return 0;  
9 }  
10
```

```
Hello World!  
Process returned 0 (0x0)   execution time : 0.001 s  
Press ENTER to continue.
```

```
----- Main: Debug in Hello World (compiler: GNU GCC compiler) -----  
Checking for updates... /home/sigma.kib/Documents/Programming/C++/programing/Hello World/Debug/Hello World  
Set variable: LD_LIBRARY_PATH=/usr/lib/x86_64-linux-gnu/libc.so.6:/usr/lib/x86_64-linux-gnu/libstdc++.so.6:/usr/lib/x86_64-linux-gnu/libgcc_s.so.1  
Press ENTER to continue.
```

If your code is running properly then try to run the debugger of CodeBlocks. It should be run properly. This is the easiest and most proper way for CodeBlocks installation. You can ask your questioning the comment section below.

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Sakib Mahmud

Hello, there! I am Sakib Mahmud from Bangladesh. Currently, I am studying computer science and engineering. And I love to write articles.



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