WEEK 3

Dev C++ IDE: Installation, Features and C++ Development

Dev-C++ is a fully featured graphical IDE (Integrated Development Environment) that uses the MinGW compiler system to create Windows as well as Console based C/C++ applications. It can also be used with any other GCC-based compiler like Cygwin. Dev-C++ is free software and is distributed under the GNU General Public License. Thus we can distribute or modify the IDE freely. It was originally developed by "Bloodshed Software". It has been formed by Orwell after it was abandoned by Bloodshed in 2006.

Features of Dev-C++ IDE

Enlisted below are some of the features of this IDE that help us developing efficient and user-friendly C/C++ applications.

- Dev-C++ supports GCC-based compilers including Cygwin, MinGW, etc. We can either install a Dev-C++ IDE along with the compiler integrated or just an IDE if we already have a compiler on our system.
- We can use integrated debugging (using GDB) with this IDE. The debugger allows us to perform all the general debugging operations on source code.
- It has a localization feature that provides support for multiple languages. We can select the language the first time when we open the IDE after installing it. We can also change the language anytime using settings.
- Like the other IDEs, this IDE also provides the "Auto-Completion" feature for the code we write.
- It comes with customizable syntax highlighting editor that can make the source code more readable.
- Allows editing and compiling the Resource files.
- Has a Tool Manager that contains various tools that can be used in the project.
- This IDE also has inbuilt Find and replace facilities.
- Using Dev-C++ IDE, we can create various types of applications be it Windows, Console, Static libraries or DLLs.
- We can also create our own project templates to create our own project types.
- Make files that are used for managing the build process for the application can also be created using dev-C++ IDE.
- It provides support for Class Browser as well as Debug variable Browser.
- It has a Project Manager that helps us to manage various projects.
- Also provides print support through its interface.
- We can easily install the add-on libraries using the package manager provided by the IDE.

- This C++ IDE also provides CVS support for source code management.

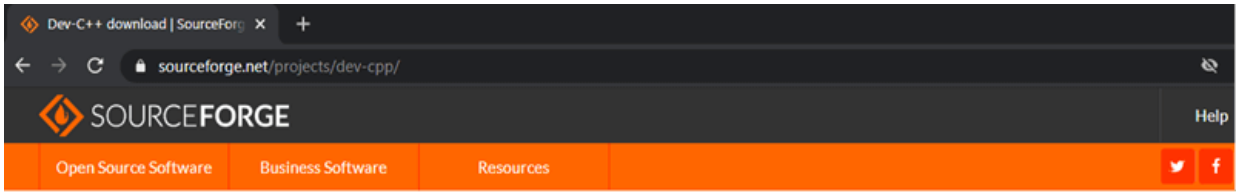
Installing and Configuring C++ IDE

First you must download the Dev C++ on your Windows machine. Visit to Download Dev C++: http://www.bloodshed.net/

There are packages for different Operating Systems.

Under package Dev-C++ 5.0 (4.9.9.2) with Mingw/GCC 3.4.2 compiler and GDB 5.2.1 debugger (9.0 MB) Click on the link “Download from SourceForge”.

This package will download C++ **.exe file** for Windows that can be used to install on Windows 7/8/XP/Vista/10.

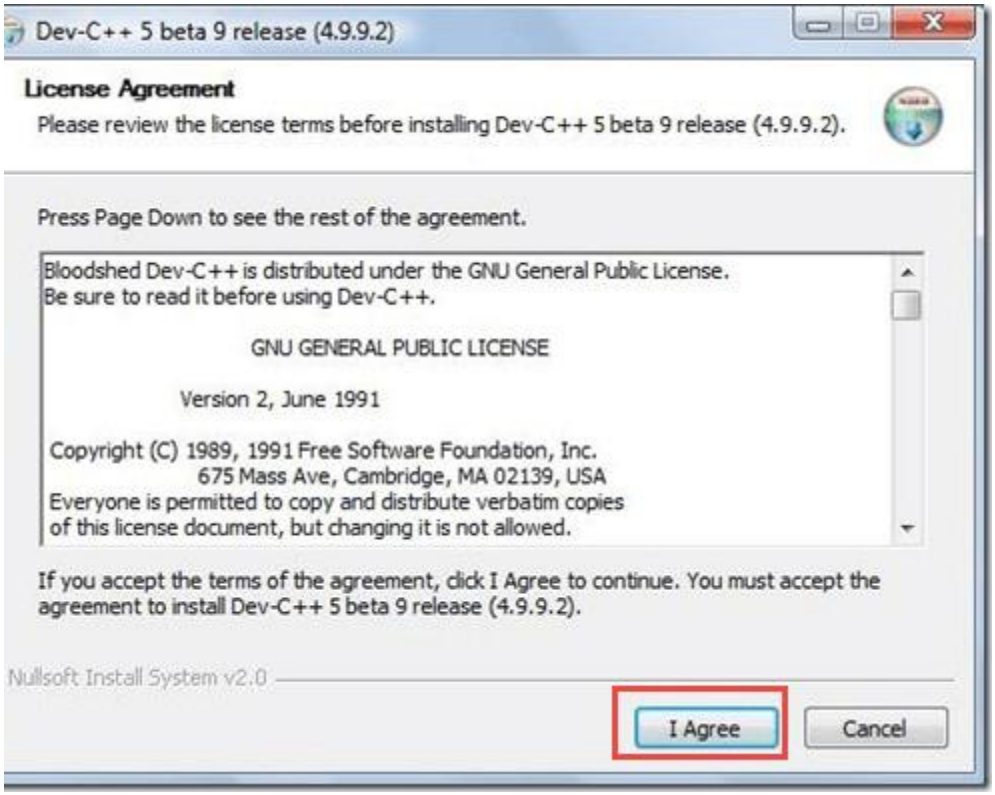


You will direct to SourceForge website, and your C++ download will start automatically.

- Click on save button to save. By default, it is saved in "Downloads" folder.
- After the download completes, go to the saved .exe file and click on it to Run.

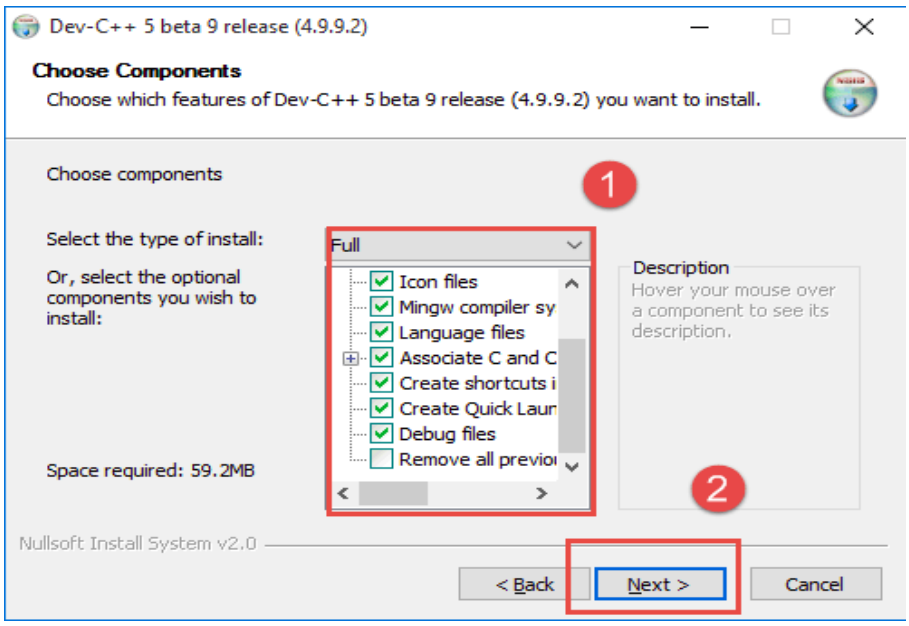
The installer will ask you a language to select. Select "English" and click on "OK".

Then screen for license agreement will appear. Click on "I agree" to proceed further.



In this step,

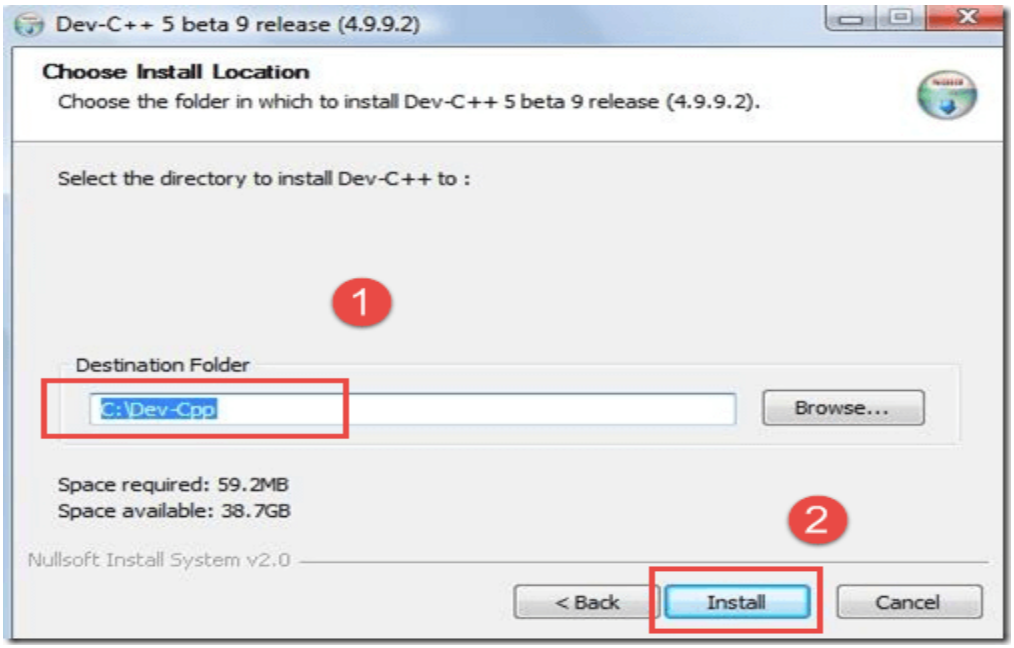
1. You can see different components of Dev C++ that will be installed with this package.
2. Just click on “next” button.



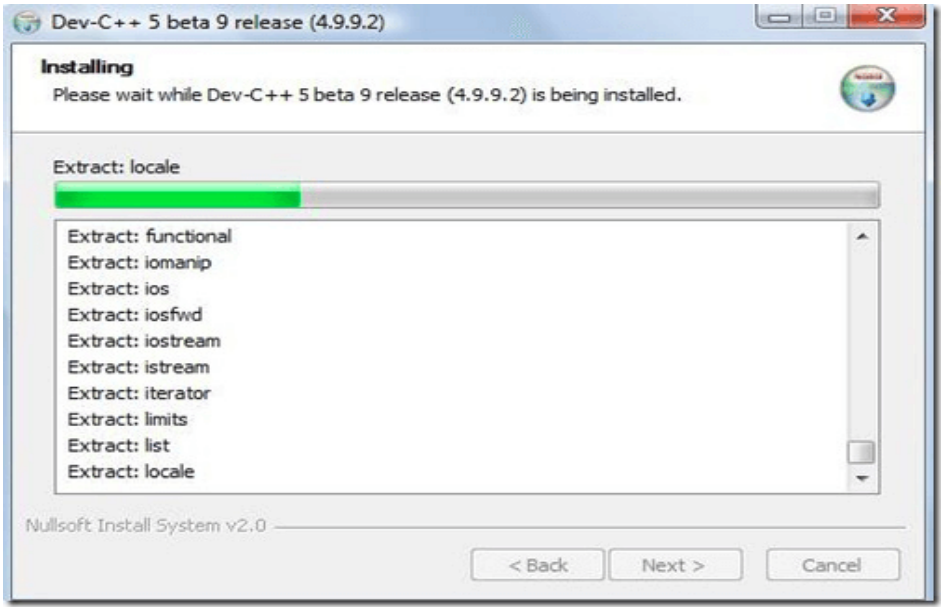
Step 7) In this step,

1. By default, the destination folder is in C drive. You are free to change this destination folder but make sure you have enough memory.

Click on "Install" button.



In the next screen, installation begins.



Now, Dev C++ is installed successfully on your Windows. Select ” Run Dev C++” to run it and click on ” Finish” button.

That’s it! Now you are ready to compile your C or C++ programs with Dev C++ compiler.