



[Logging in From a Linux System or Localhost](#)
4 days 33 min ago

[Auto response](#)
4 days 6 hours ago

[Re: final issue.](#)
4 days 22 hours ago

[Re: Rocky, thank you for this](#)
4 days 23 hours ago

Newsletter

Subscribe to
**HowtoForge
Newsletter**
and stay informed about
our latest HOWTOs and
projects.

 enter email address:

(To unsubscribe from
our newsletter, visit this
[link](#).)

[English](#) | [Deutsch](#) | [Site Map/RSS Feeds](#) | [Advertise](#)

You are here: [Home](#) » [Learning C/C++ Step-By-Step](#) » [Learning C/C++ Step-By-Step - Page 02](#)

Learning C/C++ Step-By-Step - Page 02

Want to support HowtoForge? Become a [subscriber](#)!

Submitted by [ganesh35](#) ([Contact Author](#)) ([Forums](#)) on Sun, 2008-12-21 22:33. ::

 0

 5

 1

02. Step-by-Step C/C++ --- IDE and Compilers for C/C++

C / C++ is a compiler based programming languages. In order to run a program you need a compiler software (i.e., GNU GCC, Tiny C, MS Visual C++, Cygwin C, Borland, Intel C etc..). Also you need an IDE to create/edit programs (eg: Dev-C++, Code::Blocks, Eclipse, TurboC, etc..)

I am giving you a couple of examples of my favorite compiler and IDEs, You may choose the best from the vast list.

1. Installing GNU GCC Compiler

- 1.1. For Linux
- 1.2. For Mac OS X
- 1.3. For Windows (MinGW + DevCpp-IDE)
- 1.4. How to Create, Compile and Execute Programs
- 1.5. Example Programs

1. Installing GNU GCC Compiler

1.1. For Linux

- For Redhat, get a gcc-c++ RPM, e.g. using Rpmfind and then install (as root) using

```
rpm -ivh gcc-c++-version-release.arch.rpm
```

- For Fedora Core/ CentOS, install the GCC C++ compiler (as root) by using

```
yum install gcc-c++
```

- For Mandrake, install the GCC C++ compiler (as root) by using

```
urpmi gcc-c++
```

- For Debian, install the GCC C++ compiler (as root) by using

```
apt-get install g++
```

- For Ubuntu, install the GCC C++ compiler by using

```
sudo apt-get install g++
```

- If you cannot become root, get the tarball from <http://ftp.gnu.org/> and follow the instructions in it to compile and install in your home directory.

1.2. For Mac OS X

Xcode has GCC C++ compiler bundled.

1.3. For Windows (MinGW + DevCpp-IDE)

- Go to <http://www.bloodshed.net/devcpp.html>, choose the version you want (eventually scrolling down), click on the appropriate download link! For the most current version, you will be redirected to <http://www.bloodshed.net/dev/devcpp.html>
- Scroll down to read the license and then to the download links. Download a version with Mingw/GCC. It's much easier than to do this assembling yourself. With a very short delay (only some days) you will always get the most current version of mingw packaged with the devcpp IDE. It's absolutely the same as with manual download of the required modules.
- You get an executable that can be executed at user level under any WinNT version. If you want it to be setup for all users, however, you need admin rights. It will install devcpp and mingw in folders of your wish.
- Start the IDE and experience your first project!

You will find something mostly similar to MSVC, including menu and button placement. Of course, many things are somewhat different if you were familiar with the former, but it's as simple as a handfull of clicks to let your first program run.

1.4. How to Create, Compile and Execute Programs

If you are using Linux, create/edit a program:

```
vi hello.cpp
```

Compilation:

```
g++ -Wall -g -o hello.out hello.cpp
```

Running a program:

```
./hello.out
```

1.5. Example Programs:

C Example Program:

```
\* 0001_hello.c *\n#include <stdio.h>\nint main()\n{\n    printf("\\nHello world");\n    return 0;\n}
```

C++ Example Program:

```
\* 0001_hello.cpp *\n#include <iostream>\nusing namespace std;\nint main()\n{\n    cout << endl << "Hello, Happy programming";\n    return 0;\n}
```

[previous](#)[up](#)[next](#)

Learning C/C++ Step-By-Step

Learning C/C++ Step-By-Step - Page 03

Copyright © 2008 Ganesh Kumar Butcha
All Rights Reserved.

0

Like

5

Send

Tweet

1

[add comment](#) | [view as pdf](#) | [print](#): [this](#) | [all](#) page(s)

Related Tutorials

- [Beginner's Guide To c++](#)

- [An Explanation of Pointers \(C++\)](#)



Please do not use the comment function to ask for help! If you need help, please use our [forum](#).
Comments will be published after administrator approval.

YPOS

Submitted by Anonymous (not registered) on Tue, 2009-09-01 12:56.

Shouldn't

```
\* 0001_hello.c *\ and \* 0001_hello.cpp *\
```

be

```
/* 0001_hello.c */ and /* 0001_hello.cpp */
```

?

[reply](#) | [view as pdf](#)

[Howtos](#) | [Mini-Howtos](#) | [Forums](#) | [News](#) | [Search](#) | [Contribute](#) | [Subscription](#)
[Site Map/RSS Feeds](#) | [Advertise](#) | [Contact](#) | [Disclaimer](#) | [Imprint](#)



Copyright © 2013 HowtoForge - Linux Howtos and Tutorials
All Rights Reserved.