How to install CodeBlocks IDE?

CodeBlocks is an IDE (Integrated Development Environment) used to create, edit, compile, debug and execute C/C++ programs in single place. It is very powerful IDE for developing C projects.

Configure CodeBlocks and GCC C compiler

On first run CodeBlocks requires few things to gear up. So let us first configure CodeBlocks.

1. Associate CodeBlocks with C compiler. CodeBlocks automatically detects our installed C compiler. Set the detected compiler as default and click **OK** button.

ompliers auto-detection			—		×
ote: After auto-detection, at least on spect the list below and change the o lect you favourite default compiler h	e compiler's master p compiler's master path ere:	th is still empty and t later in the compiler	therefore invalid options.		
Compiler	Status		^	Set as de	efault
GNU GCC Compiler	Detected 1			2	
Microsoft Visual C++ Toolkit 2003	Not found				
Microsoft Visual C++ 2005/2008	Not found				
Microsoft Visual C++ 2010	Not found				
3orland C++ Compiler (5.5, 5.82)	Not found				
Digital Mars Compiler	Not found				
DpenWatcom (W32) Compiler	Not found				
Cygwin GCC	Not found				
.CC Compiler	Not found				
(ntel C/C++ Compiler	Not found				
Small Device C Compiler	Not found				
Tiny C Compiler	Not found				
DM class canadas	KILL L		Ŧ		
rrent default compiler: GNU GCC C	ompiler				
Iny C Compiler	ompiler		~		

2. Associate C/C++ files with CodeBlocks IDE. Make sure all C/C++ files opens in CodeBlocks by default.

File associations	×
Code::Blocks is currently not the default application for C/C++ source files. Do you want to set it as default?	
You can always change associations from the environment settings later.	
○ No, leave everything as it is	
○ No, leave everything as it is (but ask me again next time)	
Yes, associate Code::Blocks with C/C++ file types 1	
○ Yes, associate Code::Blocks with every supported type (including project files from other IDEs)
2 ОК	

3. Set an idle perspective to use CodeBlocks for beginner.



However, if you want to go geeky, compile programs from command line with various gcc options, then set environment variables for C compiler in Windows (in Linux no need).

1. Hit Win + R to open run command window. Type systempropertiesadvanced or c:\windows\system32\systempropertiesadvanced . Click OK or hit enter to open advanced system settings dialog.

📨 Run	×
Type the name of a program, folder, document, or Interesource, and Windows will open it for you.	rnet
Open: 1 c:\windows\system32\systempropertiesadvanced	\sim
2 OK Cancel <u>B</u> rows	e

2. Inside advanced system properties, click **Environment Variables**. Alternatively, hit n to open Environment Variables settings.

System Properties				×
Computer Name Hardware	Advanced	System Protection	Remote	
You must be logged on as an Administrator to make most of these changes. Performance Visual effects, processor scheduling, memory usage, and virtual memory Settings				
User Profiles Desktop settings related to) your sign-in		S <u>e</u> ttings	
Startup and Recovery				
System startup, system fail	ure, and deb	ugging information	Settings	
		1 Environme	ent Variables	
	ОК	Cancel	<u>A</u> pph	/

3. In the Environment Variables window, move down to **System variables**. Inside the system variables list, find **path** variable. Select the Path variable and click on **Edit**, alternatively hit Alt + I to open Environment Variable editor window.

Env	ironment Variables		×	
	Jser variables for Pankaj Prakash			
	Variable	Value		
	OneDrive	C:\Users\Pankaj Prakash\OneDrive		
	Path	%USERPROFILE%\AppData\Local\Microsoft\WindowsApps;		
	TEMP	%USERPROFILE%\AppData\Local\Temp		
	TMP	%USERPROFILE%\AppData\Local\Temp		
		<u>N</u> ew <u>D</u> elete		
5	ystem variables			
	Variable	Value		
1	Path	C:\oraclexe\app\oracle\product\11.2.0\server\bin;C:\Program Files		
	PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC		
	PROCESSOR_ARCHITECTURE	AMD64		
	PROCESSOR_IDENTIFIER	Intel64 Family 6 Model 69 Stepping 1, GenuineIntel		
	PROCESSOR_LEVEL	6		
	PROCESSOR_REVISION			
	PSModulePath	%ProgramFiles%\WindowsPowerShell\Modules:C:\Windows\svste		
		Ne <u>w</u> 2 Ed <u>i</u> t De <u>l</u> ete		
		OK Cancel		

4. Inside the environment variables editor window. We need to add a new entry to the **Path** environment variable. To add a new environment variable entry, click **New** then click **Browse**. This will open a file browser.



5. Go to your CodeBlocks installation folder, inside that browse for MinGW\bin folder. In my case CodeBlocks bin folder is located under C:\Program Files (x86)\CodeBlocks\MinGW\bin. Select bin folder and click **OK**.

Browse For Folder	×
✓ Program Files (x86)	^
> 🔥 Adobe	
> Cisco	
✓ CodeBlocks	
V MinGW	
1 🔂 bin	
> doc	
—	~
Folder: bin	
Make New Folder 2 OK Cancel	

6. Remaining is just OK...OK process. Click OK on every window you opened to save all configurations.

Verify GCC C compiler installation and configuration

To verify the above steps. Open command prompt on windows via any of these methods.

- 1. Open run command window by pressing Win + R. Inside run type cmd and hit enter.
- 2. Alternatively, hit Win + S to search, type cmd and hit enter.
- 3. The easiest one, press Win + X (on win 8 and later versions), then hit C to open command prompt.

In command prompt window type gcc --version and hit enter. This will show the version information of GCC compiler. On my machine, it shows following output.

```
gcc (tdm-1) 4.9.2
Copyright (C) 2014 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.
```

If gcc --version results in any error, then go back to the configuration step and configure it properly.