

# CS 420 - Compilers

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# Introduction to MinGW

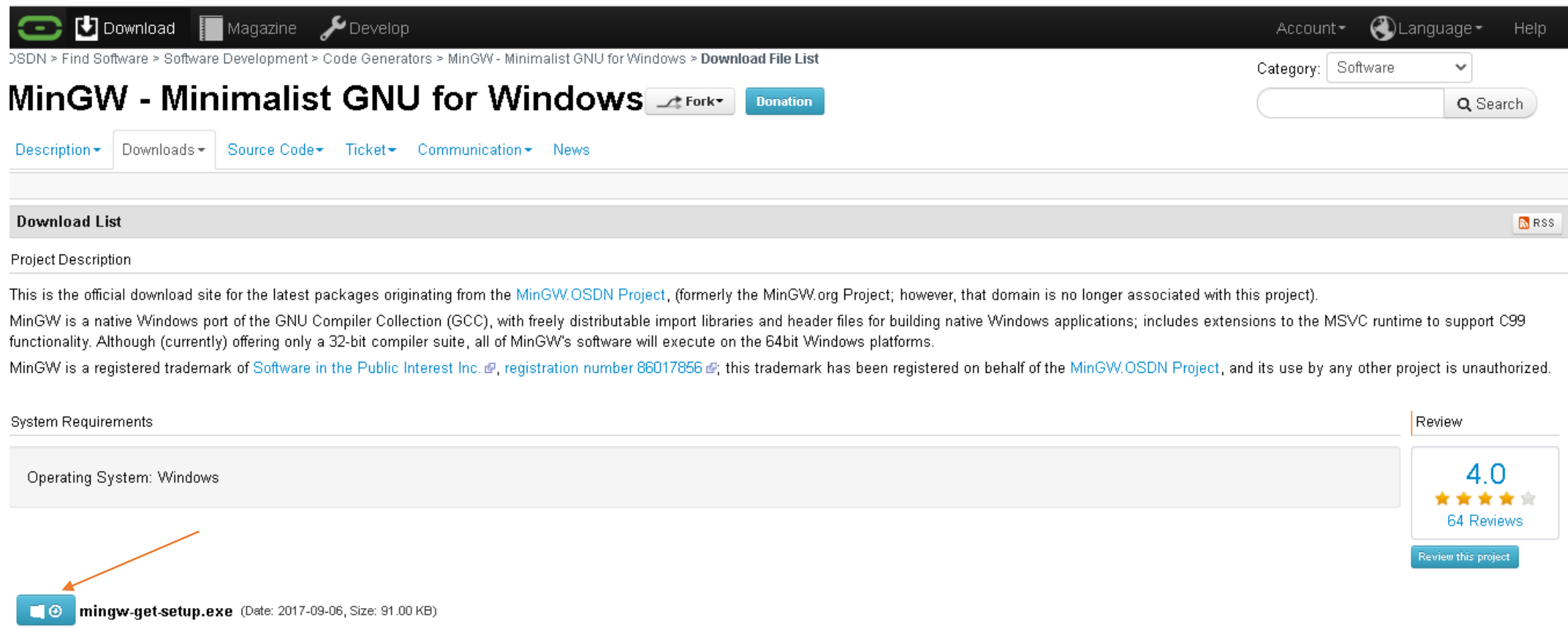
- If you want to compile the C code using gcc in Windows, any options?
- Minimalist GNU for Windows (MinGW) project, you can download and install the GNU Compiler Collection (GCC) along with several other essential GNU components.

# Why?

- When I'm introducing our idea in C language, you need to compile the assembly code

# Install MinGW

- Go to this webpage and click this:
  - <https://osdn.net/projects/mingw/releases/>



The screenshot shows the OSDN project page for MinGW. The header includes navigation links like 'Download', 'Magazine', and 'Develop', along with user options like 'Account', 'Language', and 'Help'. The breadcrumb trail indicates the path: OSDN > Find Software > Software Development > Code Generators > MinGW - Minimalist GNU for Windows > Download File List. The main title is 'MinGW - Minimalist GNU for Windows', with links for 'Fork' and 'Donation'. Below the title are tabs for 'Description', 'Downloads', 'Source Code', 'Ticket', 'Communication', and 'News'. The 'Downloads' tab is active, showing a 'Download List' with an RSS feed icon. The project description states that this is the official download site for the latest packages from the MinGW.OSDN Project, formerly the MinGW.org Project. It describes MinGW as a native Windows port of the GNU Compiler Collection (GCC) with freely distributable import libraries and header files. A note mentions that MinGW is a registered trademark of Software in the Public Interest Inc. and its use by other projects is unauthorized. The 'System Requirements' section lists 'Operating System: Windows'. On the right, there is a 'Review' section showing a 4.0 star rating from 64 reviews, with a 'Review this project' button. At the bottom, a download link for 'mingw-get-setup.exe' is shown, with an orange arrow pointing to it. The file details are: (Date: 2017-09-06, Size: 91.00 KB).

OSDN > Find Software > Software Development > Code Generators > MinGW - Minimalist GNU for Windows > Download File List

## MinGW - Minimalist GNU for Windows

Category: Software

Description Downloads Source Code Ticket Communication News

### Download List

Project Description

This is the official download site for the latest packages originating from the [MinGW.OSDN Project](#), (formerly the MinGW.org Project; however, that domain is no longer associated with this project).

MinGW is a native Windows port of the GNU Compiler Collection (GCC), with freely distributable import libraries and header files for building native Windows applications; includes extensions to the MSVC runtime to support C99 functionality. Although (currently) offering only a 32-bit compiler suite, all of MinGW's software will execute on the 64bit Windows platforms.

MinGW is a registered trademark of [Software in the Public Interest Inc.](#), registration number 86017856; this trademark has been registered on behalf of the [MinGW.OSDN Project](#), and its use by any other project is unauthorized.

#### System Requirements

Operating System: Windows

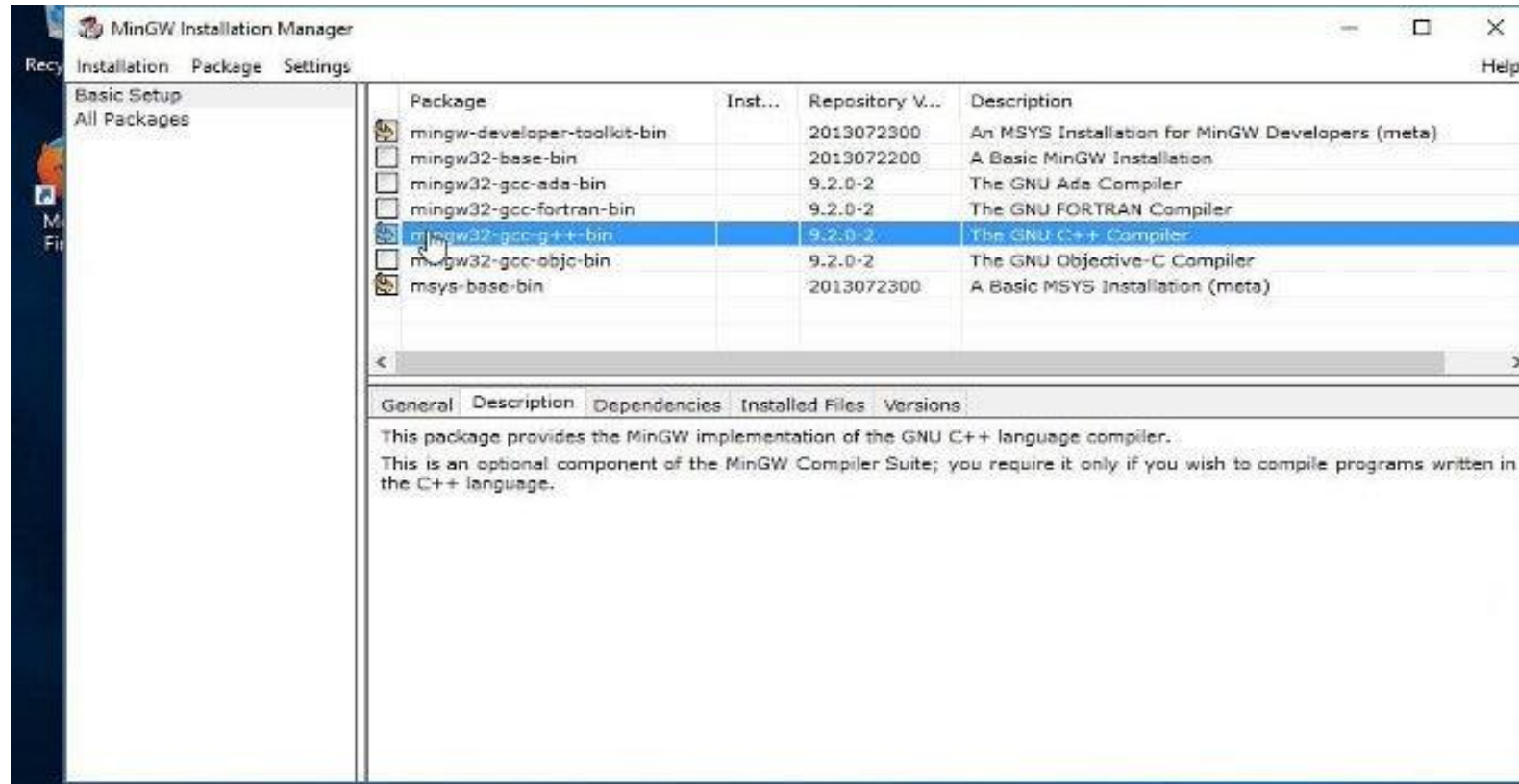
#### Review

4.0  
64 Reviews  
[Review this project](#)

[mingw-get-setup.exe](#) (Date: 2017-09-06, Size: 91.00 KB)

# Install GCC

- Once you finished the MinGW, you need to install GCC
- Check the related description about “gcc” you need to use



# Install GCC

- To install GCC, click the GCC and G++ related package to mark them for installation.
- To complete the process, you need to select **Apply Changes** from the **Installation** menu in the **top-left corner** of the mingw-get window
- Add the installation directory into the system PATH and see if it is working?
  - Type following in the Windows command: `C:\MinGW\bin\gcc.exe --version`