

Práctica 1. Laboratorio de Computación

- 1.1 Instalación del Compilador MinGW.
- 1.2 Instalación del Entorno de desarrollo integrado para C CodeBlocks
- 1.3 Primer programa en C para verificar el buen funcionamiento.



1.1 Instalación del Compilador MinGW.

Ir a la dirección web: <https://osdn.net/projects/mingw/>

MinGW - Minimalist GNU for Windows

Last Update: 2021-08-12 22:48

Description Downloads Source Code Ticket Communication News

Project Description

This is the official download site for the latest packages originating from the [MinGW.org 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.

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Download

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

Latest Release

- [MinGW.org Windows System Libraries \(WSL\) Windows API \(32-bit\), Version 5.4.2](#) (Date: 2021-04-12)
- [MinGW.org Windows System Libraries \(WSL\) C-Runtime Library \(32-bit\), Version 5.4.2](#) (Date: 2021-04-12)
- [MinGW.org Windows System Libraries \(WSL\) C-Runtime Library \(32-bit DLL\), Version 5.4.2](#) (Date: 2021-04-12)
- [MinGW.org Compiler Collection \(GCC\) GCC-9.2.0 Licence](#) (Date: 2021-02-02)
- [MinGW.org Compiler Collection \(GCC\) GCC-9.2.0 Source Code \(includes MinGW.org patches\)](#) (Date: 2021-02-02)

Project Information

Last Update
2021-08-12 22:48

Registered
2008-11-28 19:42

Project Ranking
Activeness Ranking: 1 (11231 point)
Download Ranking: 1 (47175)

Developer Member
[cstrauss](#), [earnie](#), [keith](#), [texasgaidheal](#)

Software Map

Development Status
6 - Mature

Target Users
Developers

License
[BSD 3-Clause License \(aka "BSD"\)](#)




1.1 Instalación del Compilador MinGW.

Dar click en mingw-get-setup.exe



unauthorized.

Download

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

Latest Release

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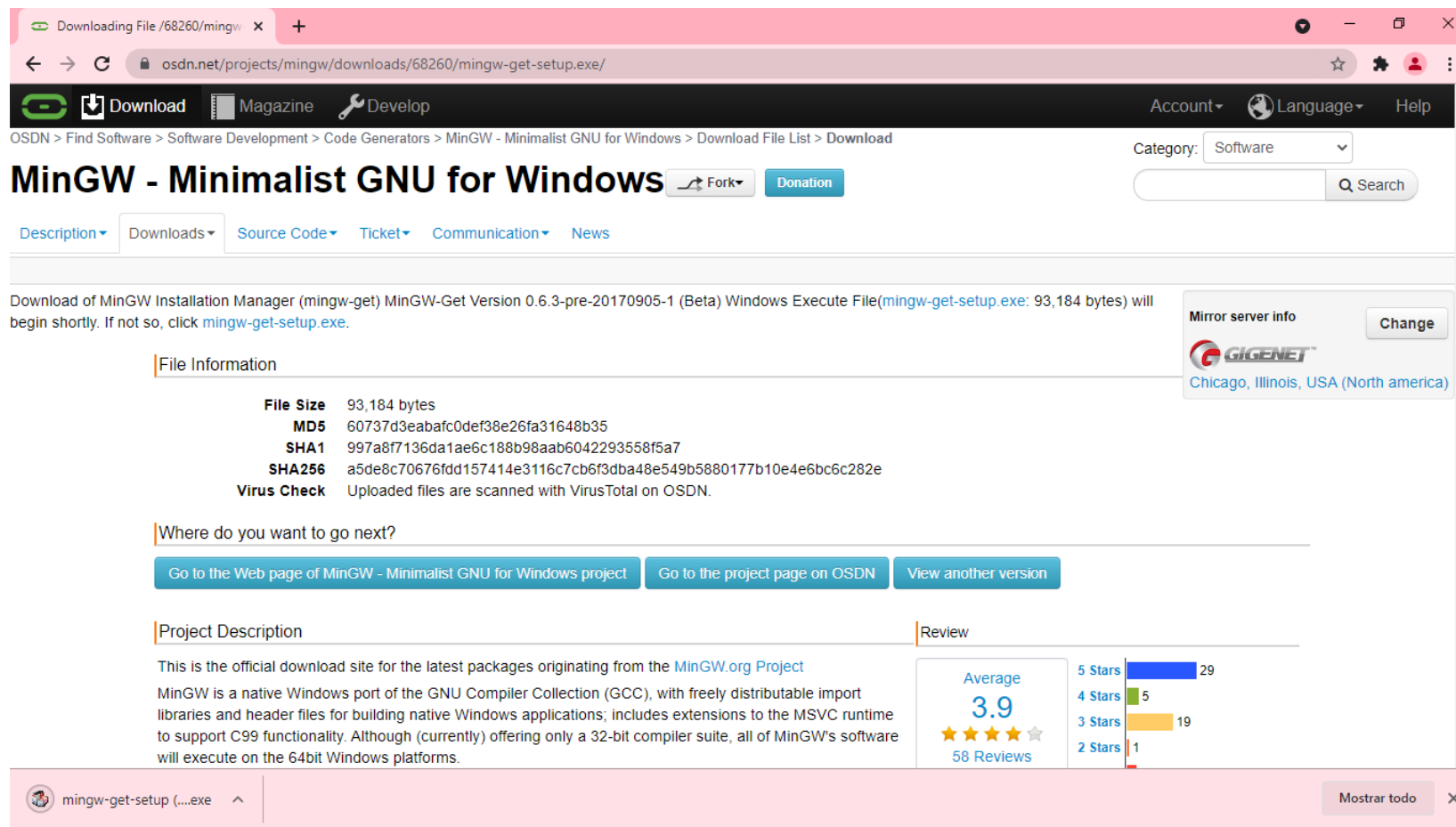
[MinGW.org Windows System Libraries \(WSL\) C-Runtime Library \(32-bit DLL\), Version 5.4.2](#) (Date: 2021-04-12)

[MinGW.org Compiler Collection \(GCC\) GCC-9.2.0 Licence](#) (Date: 2021-02-02)

[MinGW.org Compiler Collection \(GCC\) GCC-9.2.0 Source Code \(includes MinGW.org patches\)](#) (Date: 2021-02-02)



1.1 Instalación del Compilador MinGW.



The screenshot shows the OSDN website for MinGW. The browser address bar displays 'osdn.net/projects/mingw/downloads/68260/mingw-get-setup.exe/'. The page title is 'MinGW - Minimalist GNU for Windows'. Below the title, there are tabs for 'Description', 'Downloads', 'Source Code', 'Ticket', 'Communication', and 'News'. The 'Downloads' tab is selected. The main content area shows the download of MinGW Installation Manager (mingw-get) and the MinGW-Get Version 0.6.3-pre-20170905-1 (Beta) Windows Execute File (mingw-get-setup.exe: 93,184 bytes). It includes a 'File Information' section with details like File Size, MD5, SHA1, SHA256, and Virus Check. There are also buttons for 'Go to the Web page of MinGW - Minimalist GNU for Windows project', 'Go to the project page on OSDN', and 'View another version'. The 'Project Description' section explains that MinGW is a native Windows port of the GNU Compiler Collection (GCC). A 'Review' section shows an average rating of 3.9 stars from 58 reviews.

Downloading File /68260/mingw x +

osdn.net/projects/mingw/downloads/68260/mingw-get-setup.exe/

Download Magazine Develop Account Language Help

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

Category: Software Search

MinGW - Minimalist GNU for Windows

Fork Donation

Description Downloads Source Code Ticket Communication News

Download of MinGW Installation Manager (mingw-get) MinGW-Get Version 0.6.3-pre-20170905-1 (Beta) Windows Execute File(mingw-get-setup.exe: 93,184 bytes) will begin shortly. If not so, click [mingw-get-setup.exe](#).

Mirror server info Change

GIGANET
Chicago, Illinois, USA (North america)

File Information

File Size	93,184 bytes
MD5	60737d3eabafc0def38e26fa31648b35
SHA1	997a8f7136da1ae6c188b98aab6042293558f5a7
SHA256	a5de8c70676fdd157414e3116c7cb6f3dba48e549b5880177b10e4e6bc6c282e
Virus Check	Uploaded files are scanned with VirusTotal on OSDN.

Where do you want to go next?

Go to the Web page of MinGW - Minimalist GNU for Windows project Go to the project page on OSDN View another version

Project Description

This is the official download site for the latest packages originating from the [MinGW.org 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.

Review

Average 3.9 58 Reviews

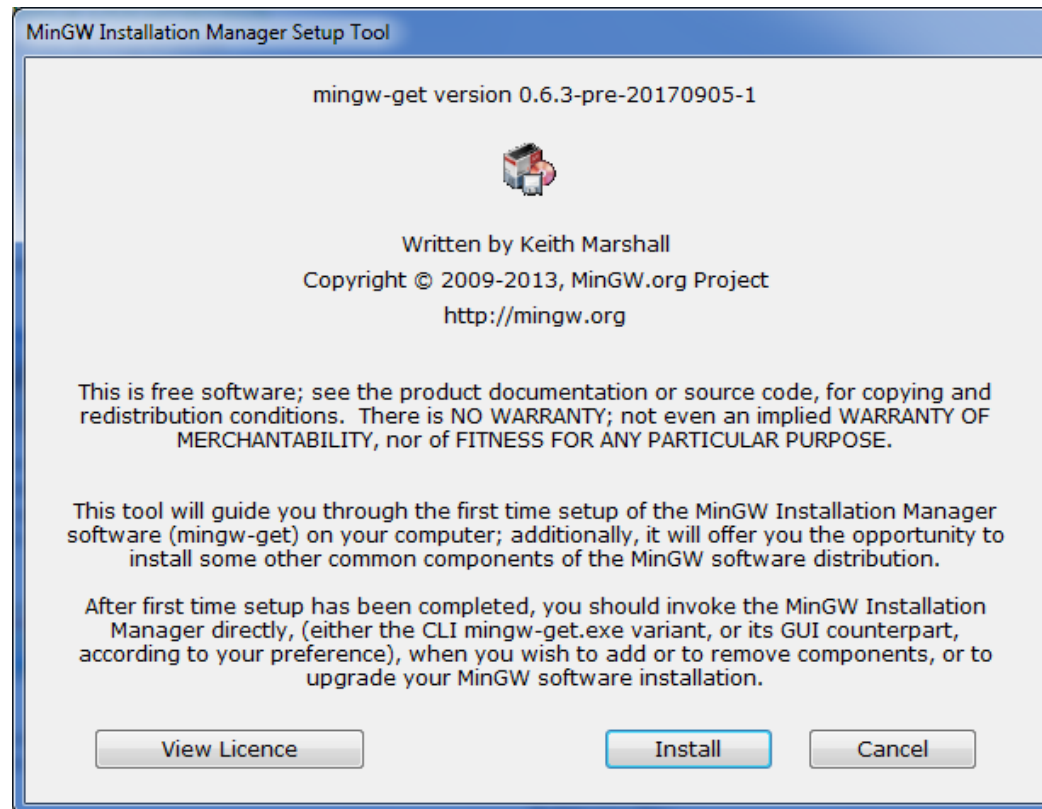
5 Stars	29
4 Stars	5
3 Stars	19
2 Stars	1

mingw-get-setup (....exe) Mostrar todo



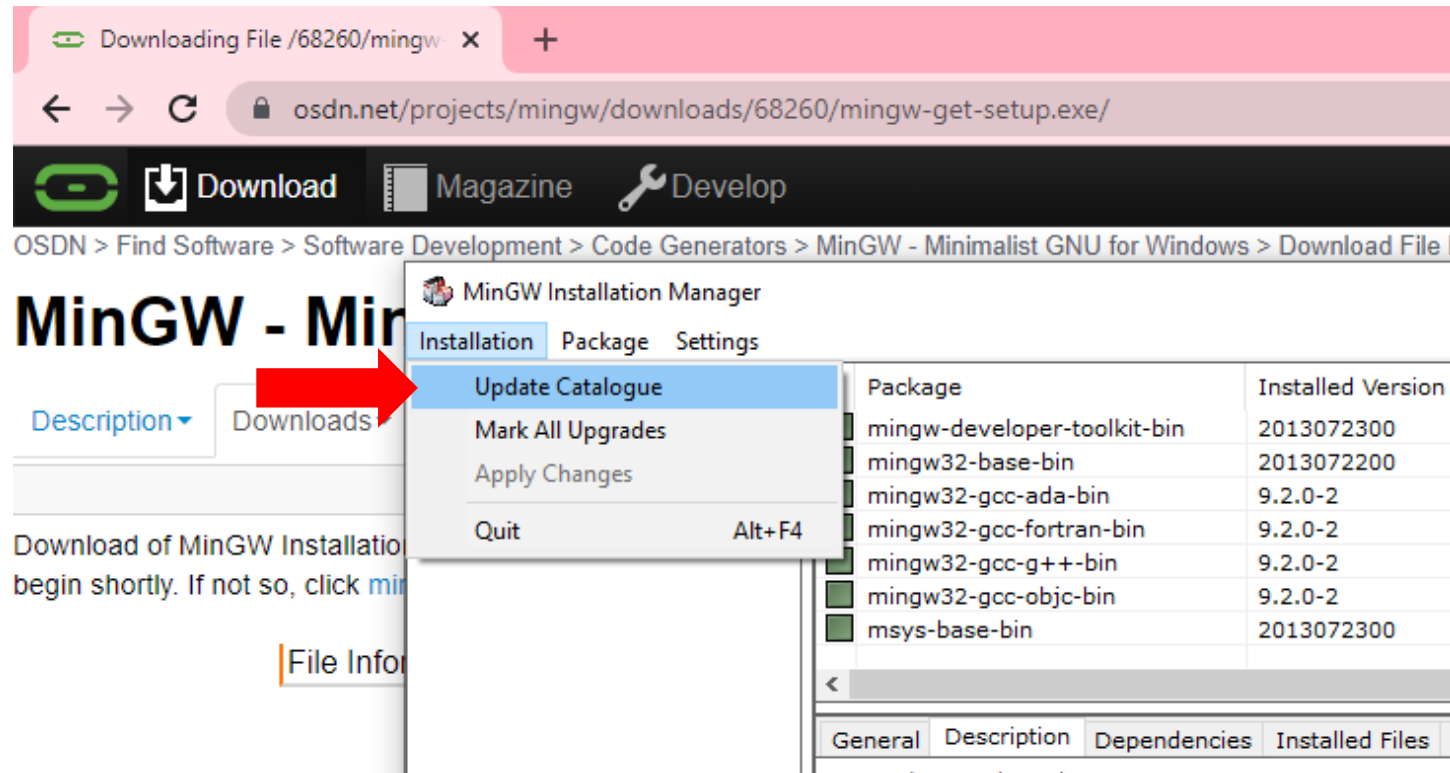
1.1 Instalación del Compilador MinGW.

Ejecutar mingw-get-setup.exe para iniciar la instalación del compilador



1.1 Instalación del Compilador MinGW.

Elegir todos los paquetes



The screenshot shows the MinGW Installation Manager window. A red arrow points to the 'Update Catalogue' button in the 'Installation' tab. The 'Package' list is visible, showing various MinGW packages and their installed versions.

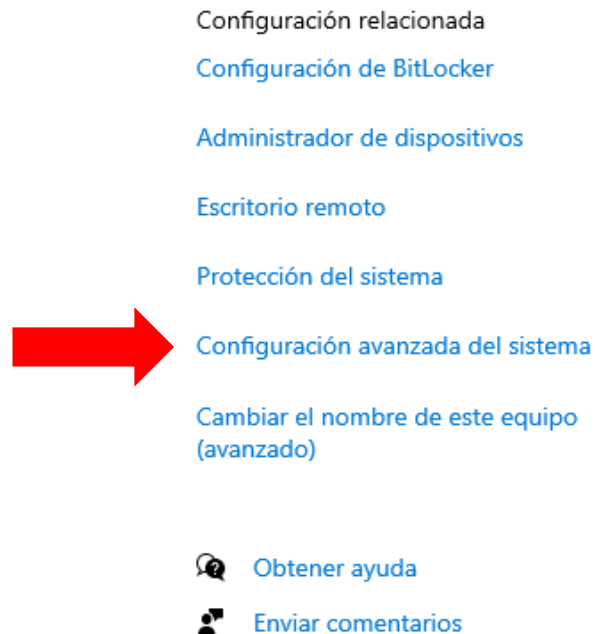
Package	Installed Version
mingw-developer-toolkit-bin	2013072300
mingw32-base-bin	2013072200
mingw32-gcc-ada-bin	9.2.0-2
mingw32-gcc-fortran-bin	9.2.0-2
mingw32-gcc-g++-bin	9.2.0-2
mingw32-gcc-objc-bin	9.2.0-2
msys-base-bin	2013072300



1.1 Instalación del Compilador MinGW.

Ya instalado el compilador, se debe modificar el Path, editándolo en:
Panel de control\Sistema y seguridad\Sistema

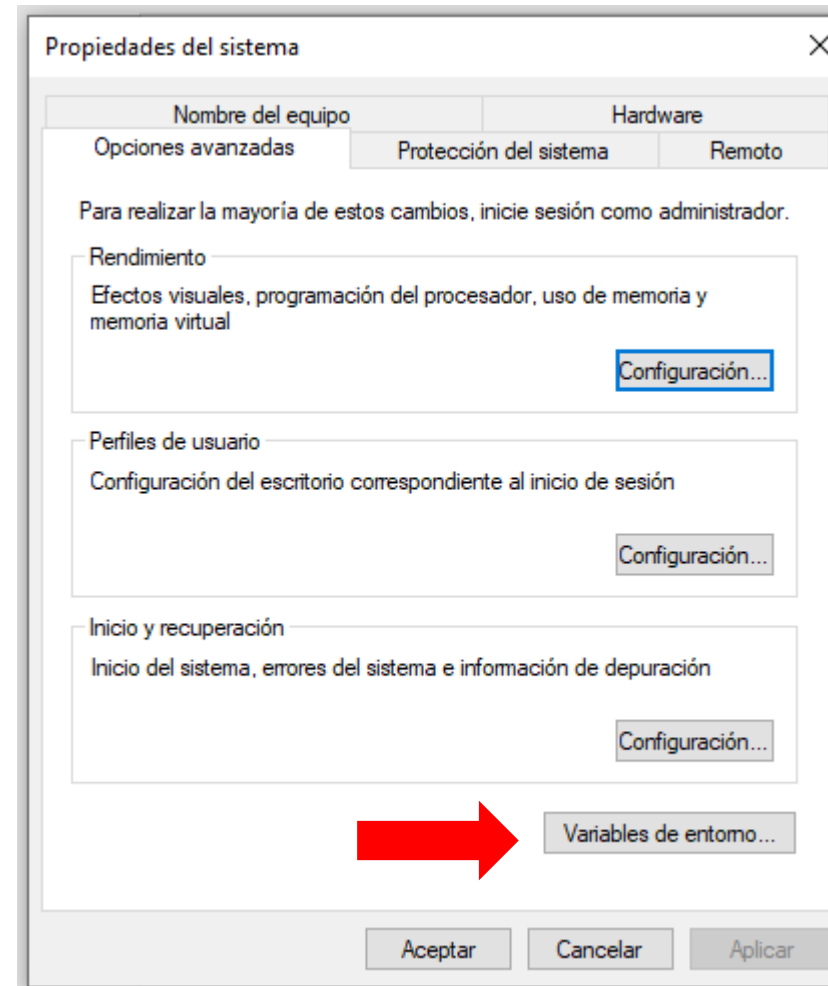
Dar Click en Configuración
Avanzada del sistema





1.1 Instalación del Compilador MinGW.

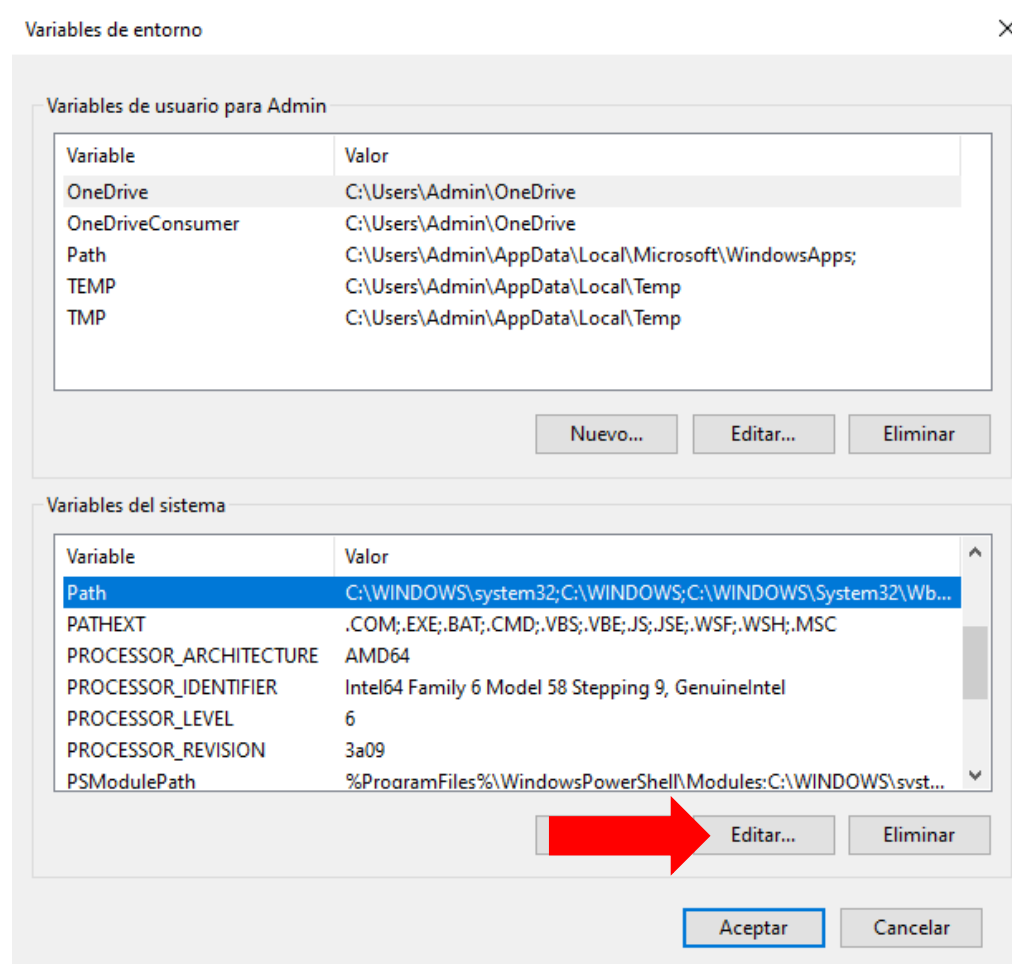
En opciones avanzadas
dar Click en
Variables de entorno





1.1 Instalación del Compilador MinGW.

Editar el Path,
seleccionándolo y
dar click en editar

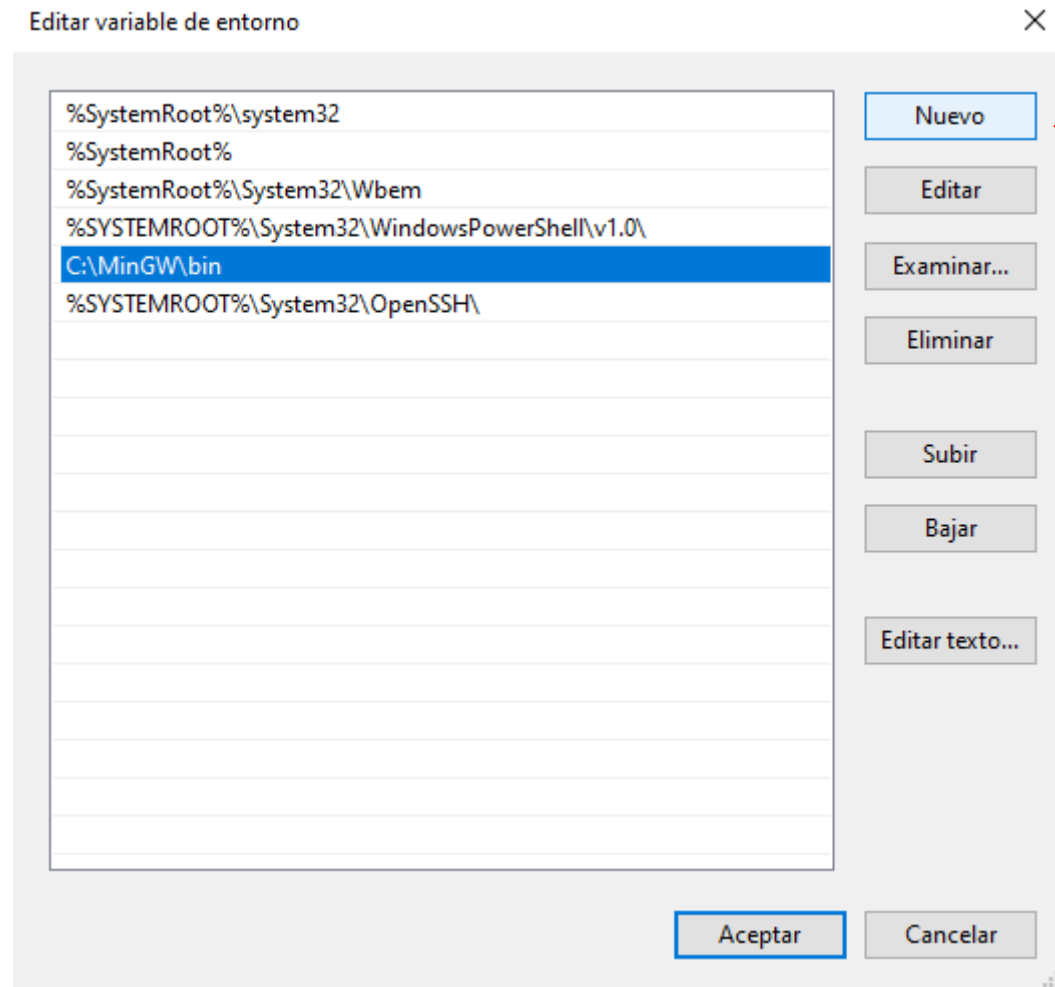




1.1 Instalación del Compilador MinGW.


Añadir un Path Nuevo, y escribir la dirección en donde se guardó el compilador.

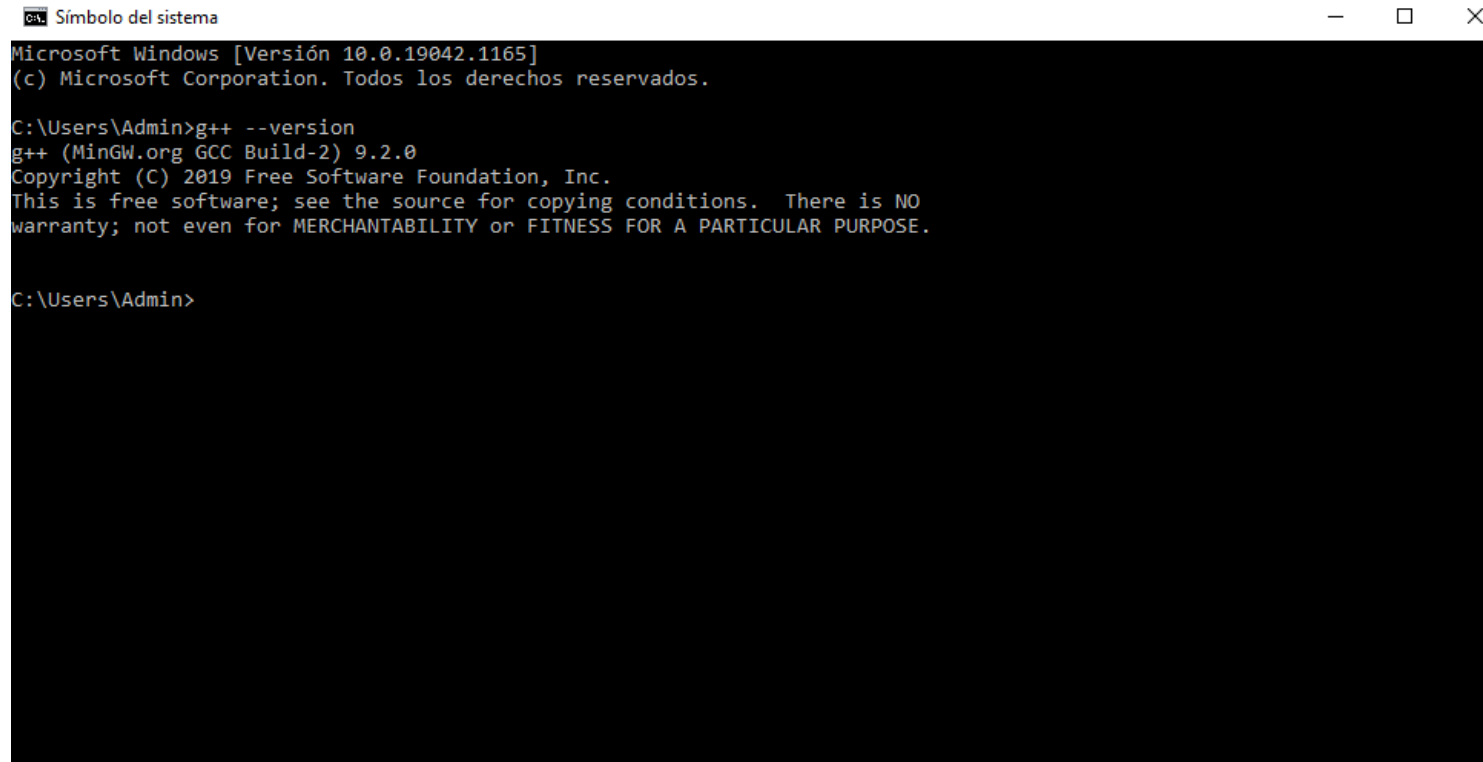
C:\MinGW\bin





1.1 Instalación del Compilador MinGW.

Para verificar que se instaló correctamente, abre una pantalla del Símbolo del sistema  **Símbolo del sistema** escribe: `g++ --version` y das click en enter.



```
Símbolo del sistema
Microsoft Windows [Versión 10.0.19042.1165]
(c) Microsoft Corporation. Todos los derechos reservados.

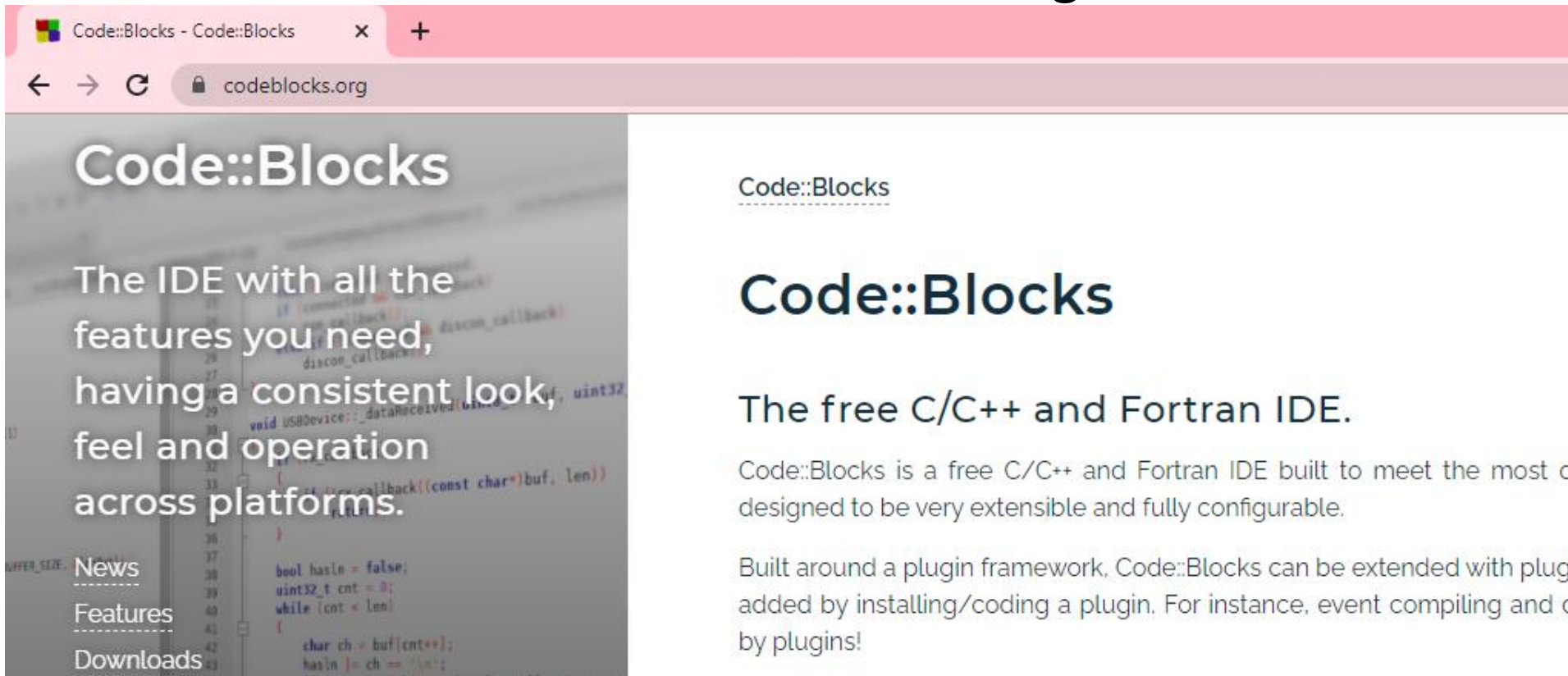
C:\Users\Admin>g++ --version
g++ (MinGW.org GCC Build-2) 9.2.0
Copyright (C) 2019 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

C:\Users\Admin>
```



1.2 Instalación del Entorno de desarrollo integrado para C CodeBlocks

Ir a la dirección web: www.codeblocks.org





1.2 Instalación del Entorno de desarrollo integrado para C CodeBlocks

Dar click en Downloads





1.2 Instalación del Entorno de desarrollo integrado para C CodeBlocks

Dar click en [Download the binary release](#)

Downloads

There are different ways to download and install Code::Blocks on your computer:



Download the binary release

This is the easy way for installing Code::Blocks. Download the setup file, run it on your computer and Code::Blocks will be installed, ready for you to work with it. Can't get any easier than that!

- **Download a nightly build**

There are also more recent so-called nightly builds available in the [forums](#). Please note that you should consider nightly builds to be stable, usually, unless stated otherwise.



1.2 Instalación del Entorno de desarrollo integrado para C CodeBlocks

Seleccionar el sistema operativo de su computadora

Binary releases

Please select a setup package depending on your platform:



- Windows XP / Vista / 7 / 8.x / 10
- Linux 32 and 64-bit
- Mac OS X



1.2 Instalación del Entorno de desarrollo integrado para C CodeBlocks

Elegir el ejecutable según el tipo de sistema operativo de 32bits o 64bits y descargarlo



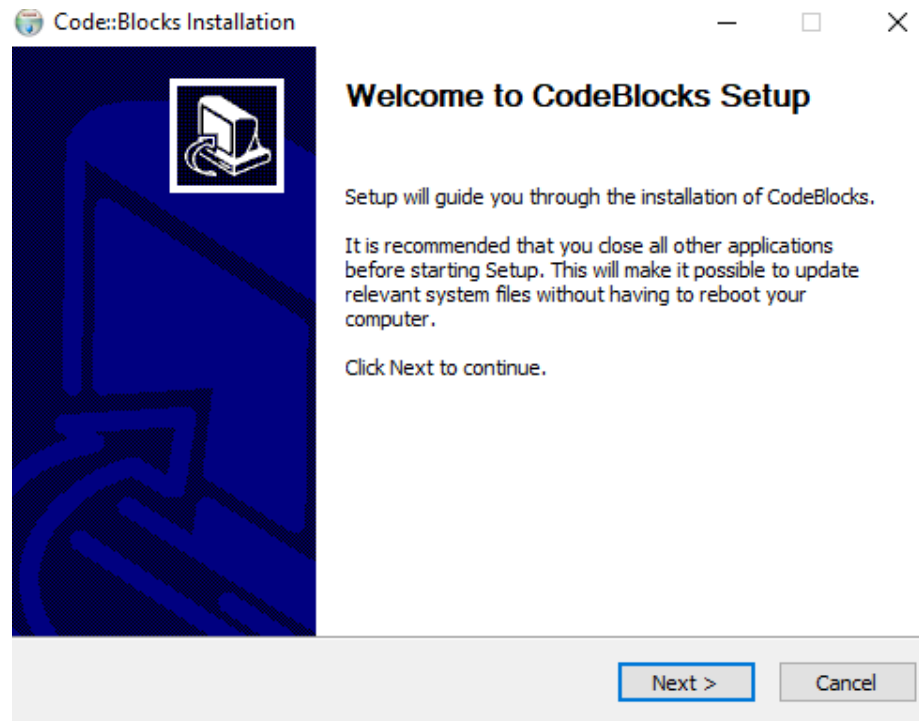
	File	Download from
	codeblocks-20.03-setup.exe	FossHUB or Sourceforge.net
	codeblocks-20.03-setup-nonadmin.exe	FossHUB or Sourceforge.net
	codeblocks-20.03-nosetup.zip	FossHUB or Sourceforge.net
	codeblocks-20.03mingw-setup.exe	FossHUB or Sourceforge.net
	codeblocks-20.03mingw-nosetup.zip	FossHUB or Sourceforge.net
	codeblocks-20.03-32bit-setup.exe	FossHUB or Sourceforge.net
	codeblocks-20.03-32bit-setup-nonadmin.exe	FossHUB or Sourceforge.net
	codeblocks-20.03-32bit-nosetup.zip	FossHUB or Sourceforge.net
	codeblocks-20.03mingw-32bit-setup.exe	FossHUB or Sourceforge.net
	codeblocks-20.03mingw-32bit-nosetup.zip	FossHUB or Sourceforge.net

NOTE: The codeblocks-20.03-setup.exe file includes CodeBlocks with all



1.2 Instalación del Entorno de desarrollo integrado para C CodeBlocks

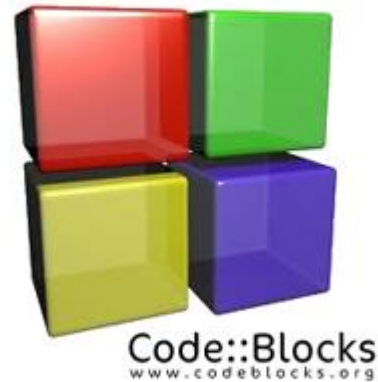
Ejecutar el archivo ejecutable codeblocks





1.3 Primer programa en C para verificar el buen funcionamiento.

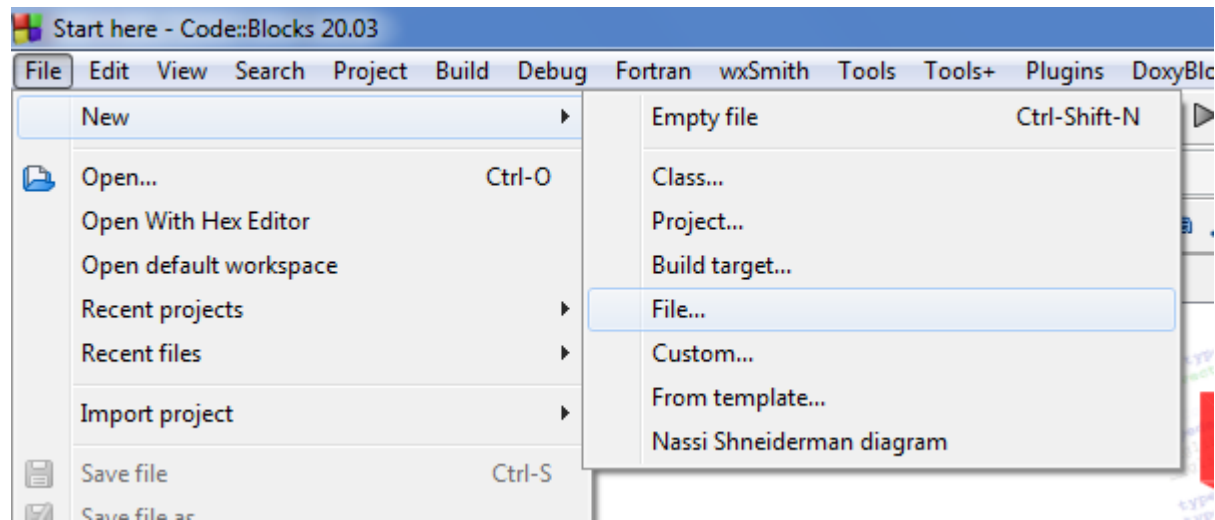
Abrir el editor de desarrollo codeblocks.





1.3 Primer programa en C para verificar el buen funcionamiento.

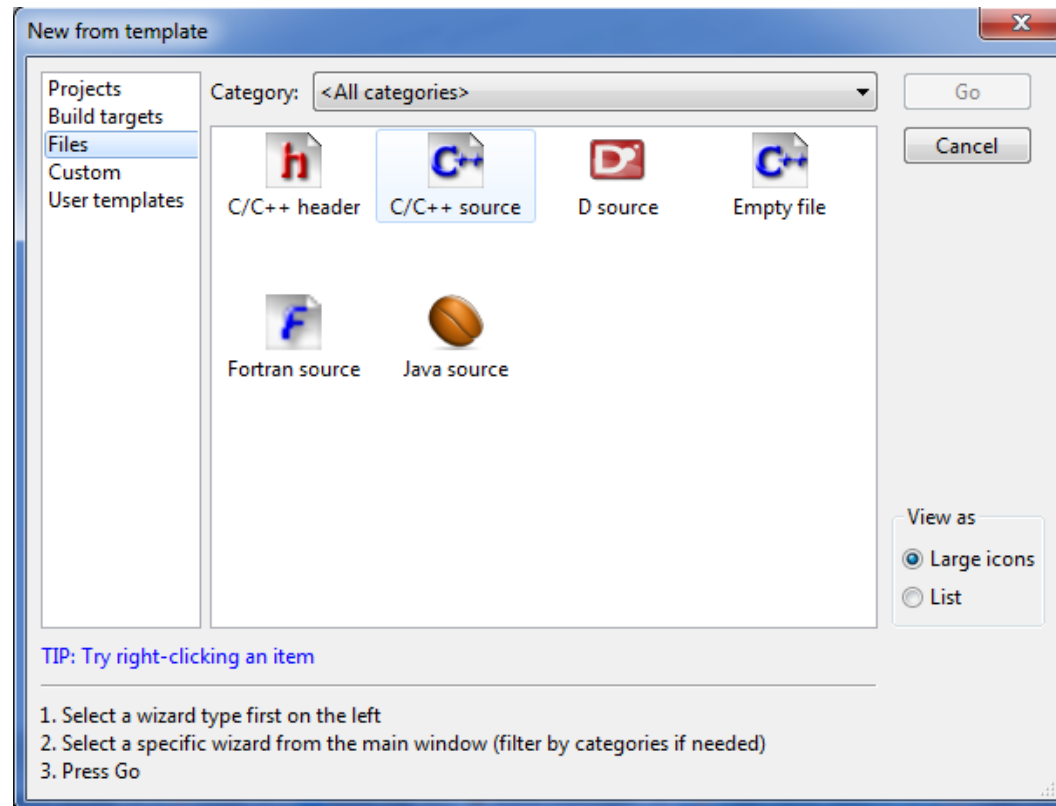
Dar click en File, ir a new, ir a File...





1.3 Primer programa en C para verificar el buen funcionamiento.

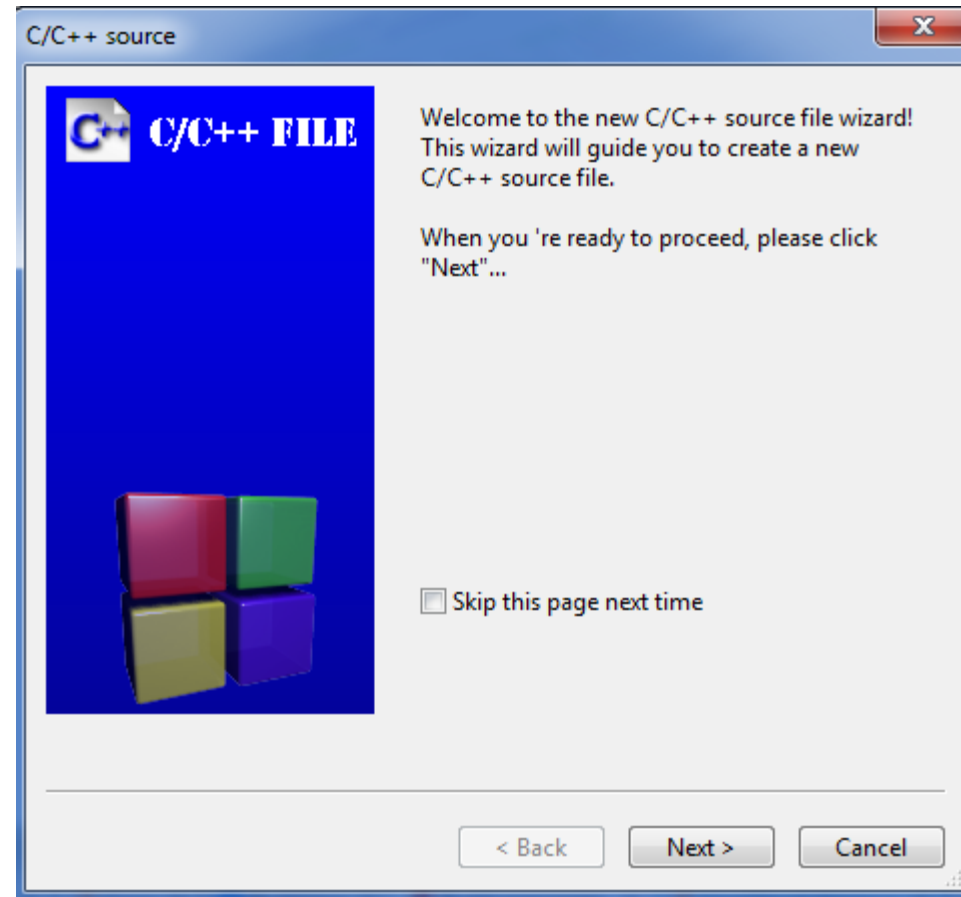
Dar click en C/C++ source, y dar click en Go





1.3 Primer programa en C para verificar el buen funcionamiento.

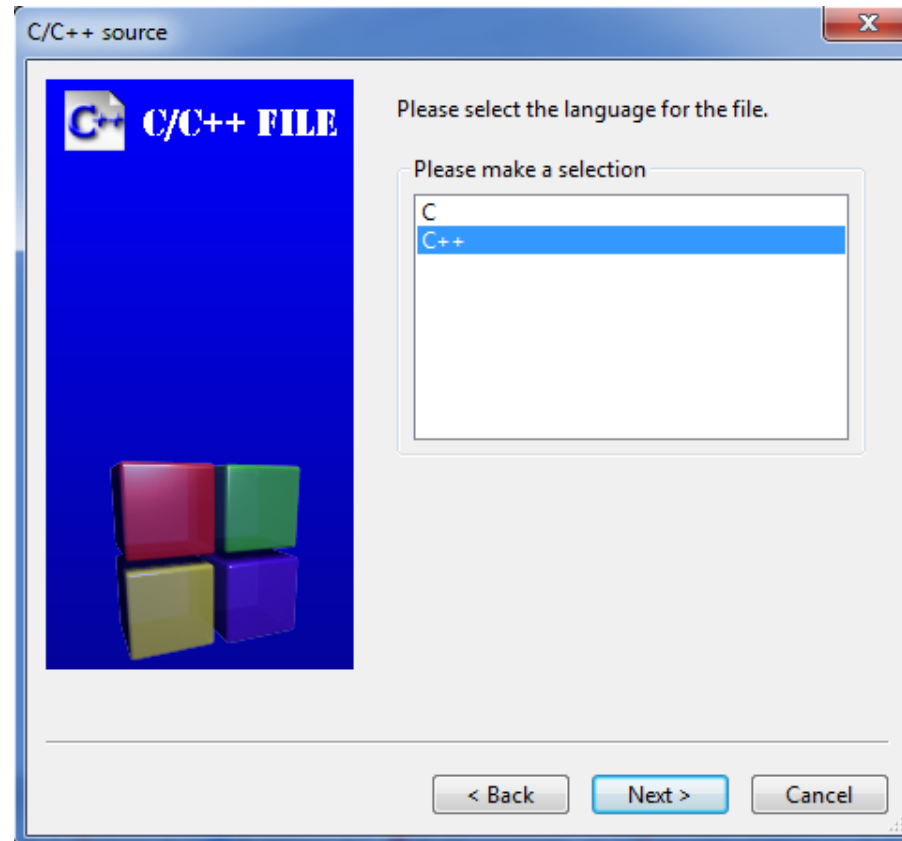
Dar click en next





1.3 Primer programa en C para verificar el buen funcionamiento.

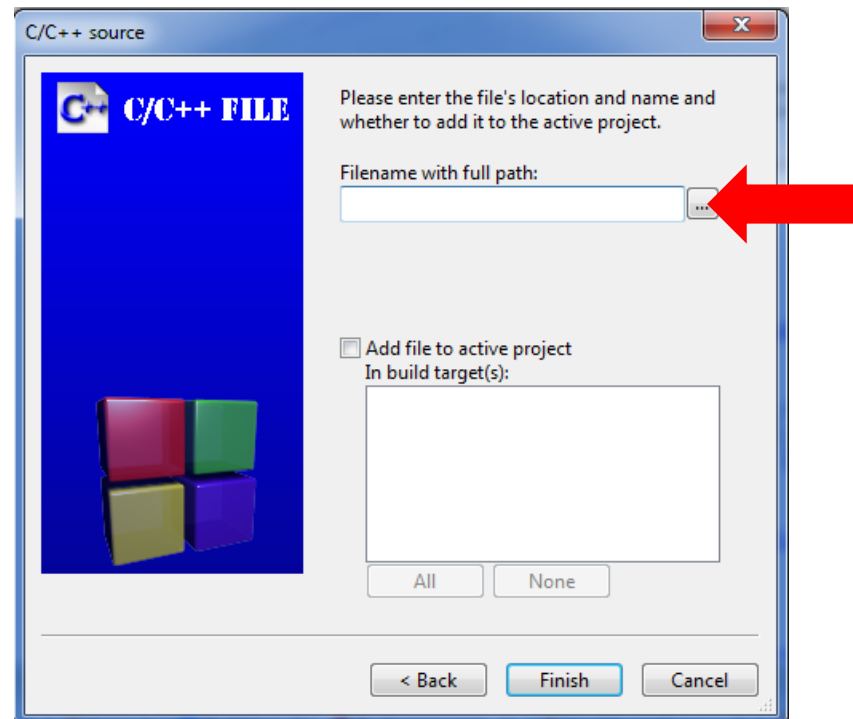
Marcar la selección de C y Dar click en next





1.3 Primer programa en C para verificar el buen funcionamiento.

Escribir el nombre del archivo con la dirección donde se guardará o dar click en ... para abrir un explorador de archivos (el nombre será su número de lista seguido de Practica1). Después dar click en Finish.





1.3 Primer programa en C para verificar el buen funcionamiento.

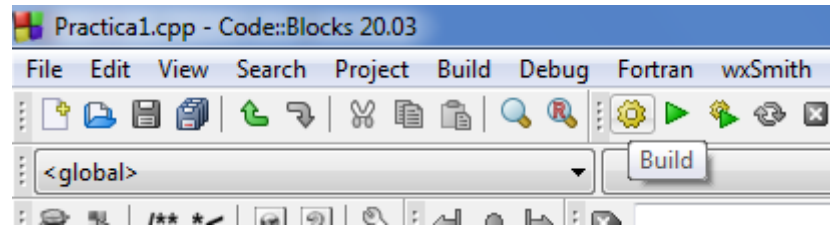
Escribir el siguiente programa, cambiando el nombre y boleta.

```
Practica1.c X
1  #include <stdio.h>
2  #include <locale.h>
3
4  int main()
5  {
6      setlocale(LC_ALL, "spanish");
7      printf("HOLA MUNDO\n");
8      printf("FUNDAMENTOS DE PROGRAMACIÓN\n");
9      printf("NOMBRE: ABRAHAM ESCOBAR PIO\n");
10     printf("BOLETA: 0000000000\n");
11 }
12
```

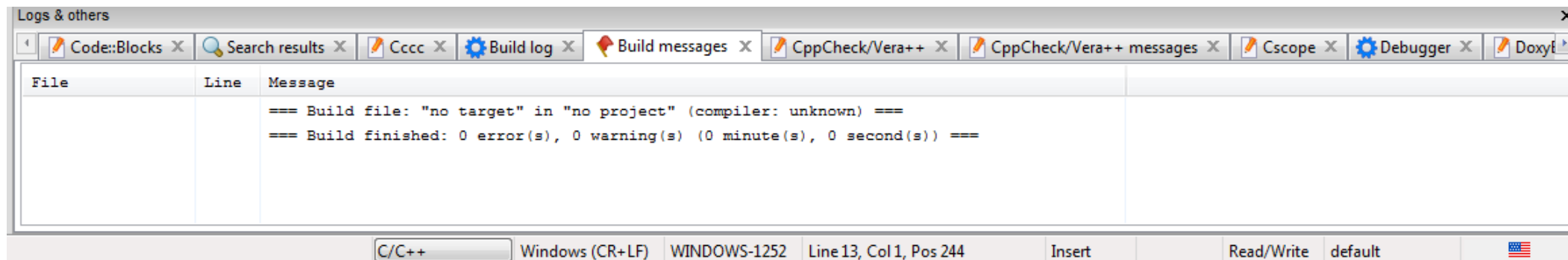



1.3 Primer programa en C para verificar el buen funcionamiento.

Dar click en Build.



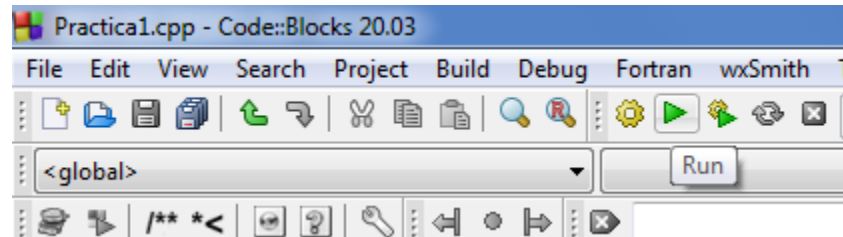
La respuesta en la parte de abajo será:





1.3 Primer programa en C para verificar el buen funcionamiento.

Después dar click en Run.



Abrirá una pantalla de Símbolo del sistema con la respuesta

```
HOLA MUNDO
FUNDAMENTOS DE PROGRAMACIÓN
NOMBRE: ABRAHAM ESCOBAR PIO
BOLETA: 0000000000

Process returned 0 (0x0)   execution time : 0.122 s
Press any key to continue.
```



1.3 Primer programa en C para verificar el buen funcionamiento.

Al terminar satisfactoriamente la Práctica 1 deberás guardar el archivo generado, como practica1.c

Mostrarás y ejecutarás el programa al profesor, la próxima clase.