

C++ dasturlash tili. Dasturlash muhitini sozlash



Reja:

- Dastur, dasturlash, dasturlash tili haqida
- Dasturlash tillarining turlari
- C++ dasturlash tili
- Basic syntax
- Comments



Dastur nima?



Dastur







Dasturlash nima?



Kompyuter va boshqa axborot texnologiyalari qurilmalari uchun dastur tuzish jarayoni **dasturlash** deb ataladi.



Dasturlash tili nima?



Dasturlash tili – bu dasturchi va kompyuter o'rtasidagi muloqot vositasi hisoblanadi.







Dasturlash tillari 2 ta katta guruhlarga bo'linadi:

- Quyi darajali
- Yuqori darajali



Quyi darajadagi dasturlash tillari kompyuter qurilmalari bilan bevosita bogʻliq boʻlib, buyruqlar maxsus raqamlar (kodlar) yordamida yoziladi.



ENIAK - Birinchi EHM



Yuqori darajali dasturlash tillaridagi koʻrsatmalar inson tiliga yaqin boʻlgan soʻzlar majmuidan iborat.

Bu tilda tuzilgan dasturlarni **translyatorlar** deb nomlanuvchi maxsus dasturlar kompyuterlar bajara olishi uchun raqamli ko'rinishga o'tkazib beradi.



















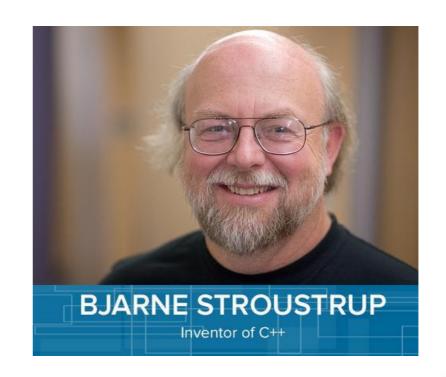




C++ nima?



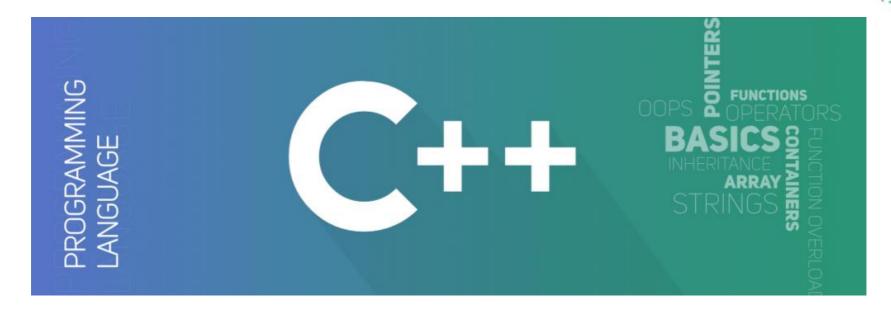
C++ - bu C tilining
kengaytmasi sifatida
Bjarne Stroustrup
tomonidan ishlab
chiqilgan dasturlash
tili.





Nima uchun C++?





C++ dasturchilarga tizim resurslari va xotirani yuqori darajada boshqarish imkoniyatini beradi.

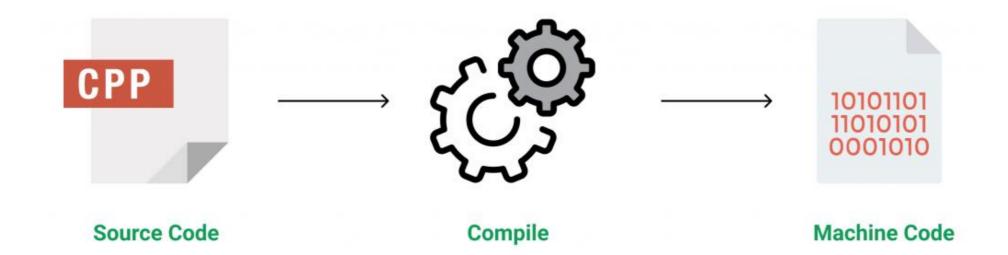


Compilator nima?



Compilator / interpretator – dastur kodini ikkilik kodga (mashina tiliga) aylantiradigan vosita (dasturiy ta'minot).

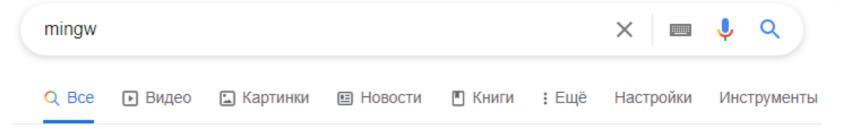






C++ ni install qilish





Результатов: примерно 2 760 000 (0,60 сек.)

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MinGW - Minimalist GNU for Windows download ...

MinGW: 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. All of **MinGW's** software will execute on the 64bit Windows platforms.

★★★★ Рейтинг: 4,1 · 156 голосов · Бесплатно · Windows · Инструменты и утилиты Browse /Installer · MinGW · Files · Mingw-get







MinGW Installation Manager Setup Tool

mingw-get version 0.6.2-beta-20131004-1



Written by Keith Marshall
Copyright © 2009-2013, MinGW.org Project
http://mingw.org

This is free software; see the product documentation or source code, for copying and redistribution conditions. There is NO WARRANTY; not even an implied WARRANTY OF MERCHANTABILITY, nor of FITNESS FOR ANY PARTICULAR PURPOSE.

This tool will guide you through the first time setup of the MinGW Installation Manager software (mingw-get) on your computer; additionally, it will offer you the opportunity to install some other common components of the MinGW software distribution.

After first time setup has been completed, you should invoke the MinGW Installation Manager directly, (either the CLI mingw-get.exe variant, or its GUI counterpart, according to your preference), when you wish to add or to remove components, or to upgrade your MinGW software installation.

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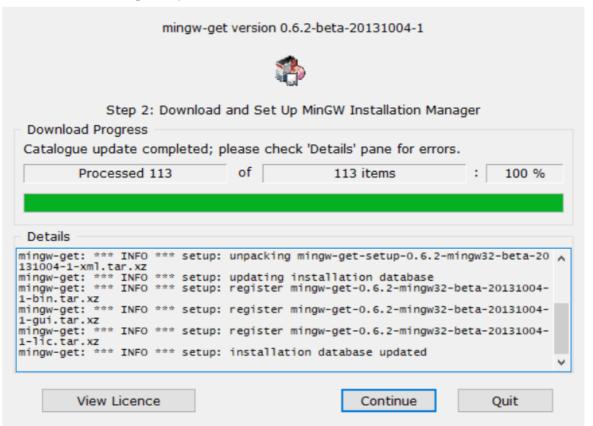
MinGW Installation Manager Setup Tool mingw-get version 0.6.2-beta-20131004-1 Step 1: Specify Installation Preferences Installation Directory C:\MinGW Change If you elect to change this, you are advised to avoid any choice of directory which includes white space within the absolute representation of its path name. User Interface Options Both command line and graphical options are available. The command line interface is always supported; the alternative only if you choose the following option to ... Program shortcuts for launching the graphical user interface should be installed just for me (the current user), or for all users * ... ☑ ... in the start menu, and/or ... ☑ ... on the desktop. selection of this option requires administrative privilege. View Licence Continue Cancel



mingw-get version 0.6.2-beta-20131004-1 Step 2: Download and Set Up MinGW Installation Manager Download Progress Updating catalogue: mingw32-mpfr.xml Processed 26 of 38 items : 68 % Details mingw-get: *** INFO *** setup: unpacking mingw-get-setup-0.6.2-mingw32-beta-20 and mingw-get: *** INFO *** setup: updating installation database mingw-get: *** INFO *** setup: register mingw-get-0.6.2-mingw32-beta-20131004-1-bin.tar.xz mingw-get: *** INFO *** setup: register mingw-get-0.6.2-mingw32-beta-20131004-1-gui.tar.xz mingw-get: *** INFO *** setup: register mingw-get-0.6.2-mingw32-beta-20131004-1-io.tar.xz mingw-get: *** INFO *** setup: register mingw-get-0.6.2-mingw32-beta-20131004-1-io.tar.xz mingw-get: *** INFO *** setup: installation database updated	
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MinGW Installation Manager Setup Tool





Installation Package Settings						Help
Basic Setup All Packages	Package	Class	Installed Version	Repository Version	Description	
All Packages	mingw-developer-toolkit	bin		2013072300	An MSYS Installation for MinGW Developers (meta)	
	mingw32-base	bin		2013072200	A Basic MinGW Installation	
	mingw32-gcc-ada	bin		6.3.0-1	The GNU Ada Compiler	
	mingw32-gcc-fortran	bin		6.3.0-1	The GNU FORTRAN Compiler	
	mingw32-gcc-g++	bin		6.3.0-1	The GNU C++ Compiler	
	mingw32-gcc-objc	bin		6.3.0-1	The GNU Objective-C Compiler	
	msys-base	bin		2013072300	A Basic MSYS Installation (meta)	
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MinGW Installation N	/lanager
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Installation Package Settings

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min	min Ui	Jnmark		2013072200	A Basic MinGW Installation	
	min M	Mark for Installation		6.3.0-1	The GNU Ada Compiler	
	min M	Mark for Reinstallation		6.3.0-1	The GNU FORTRAN Compiler	
	min M	Mark for Upgrade		6.3.0-1	The GNU C++ Compiler	
	min			6.3.0-1	The GNU Objective-C Compiler	
	msy M	Mark for Removal		2013072300	A Basic MSYS Installation (meta)	
		Dependencies allation for MinGW Deve		sions		
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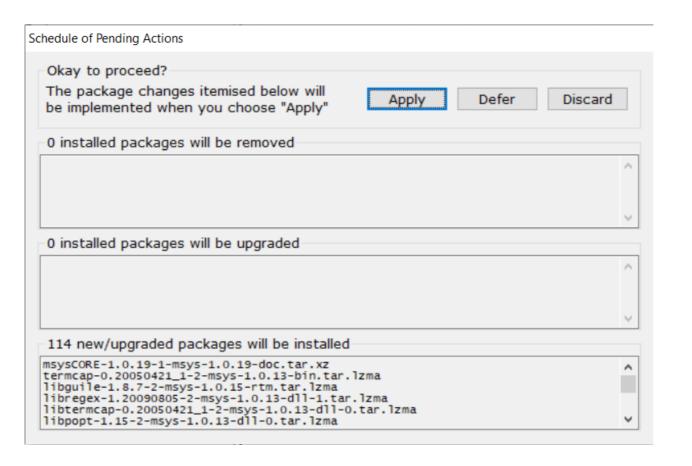


on Package Settings						Help
tup ages	Package	Class	Installed Version	Repository Version	Description	
ages	mingw-developer-toolkit	bin		2013072300	An MSYS Installation for MinGW Developers (meta)	
	mingw32-base	bin		2013072200	A Basic MinGW Installation	
	mingw32-gcc-ada	bin		6.3.0-1	The GNU Ada Compiler	
	mingw32-gcc-fortran	bin		6.3.0-1	The GNU FORTRAN Compiler	
	mingw32-gcc-g++	bin		6.3.0-1	The GNU C++ Compiler	
	mingw32-gcc-objc	bin		6.3.0-1	The GNU Objective-C Compiler	
	msys-base	bin		2013072300	A Basic MSYS Installation (meta)	
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Jpdate Catalogue		Package	Class	Installed Version	Repository Version	Description	
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Apply Changes		mingw32-base	bin		2013072200	A Basic MinGW Installation	
ipply changes		mingw32-gcc-ada	bin		6.3.0-1	The GNU Ada Compiler	
uit		mingw32-gcc-fortran	bin		6.3.0-1	The GNU FORTRAN Compiler	
		mingw32-gcc-g++	bin		6.3.0-1	The GNU C++ Compiler	
		mingw32-gcc-objc	bin		6.3.0-1	The GNU Objective-C Compiler	
	6	msys-base	bin		2013072300	A Basic MSYS Installation (meta)	
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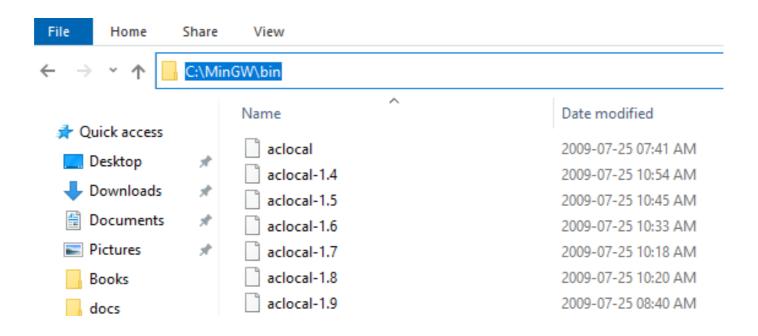


All changes were applied successfully; you may now close this dialog	
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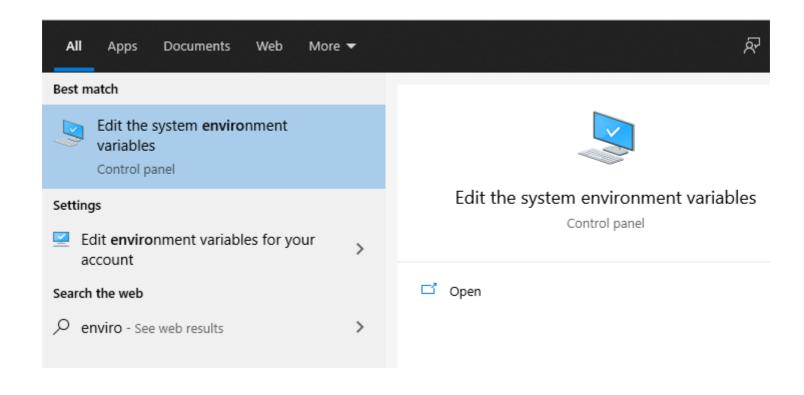


Installation Package Settings						 × <u>H</u> el
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All Packages	mingw-developer-toolkit	bin	2013072300	2013072300	An MSYS Installation for MinGW Developers (meta)	
	mingw32-base	bin	2013072200	2013072200	A Basic MinGW Installation	
	mingw32-gcc-ada	bin		6.3.0-1	The GNU Ada Compiler	
	mingw32-gcc-fortran	bin		6.3.0-1	The GNU FORTRAN Compiler	
	mingw32-gcc-g++	bin	6.3.0-1	6.3.0-1	The GNU C++ Compiler	
	mingw32-gcc-objc	bin		6.3.0-1	The GNU Objective-C Compiler	
	msys-base	bin	2013072300	2013072300	A Basic MSYS Installation (meta)	
	General Description Depe No package selected. Please select a package from		D 18	2000		

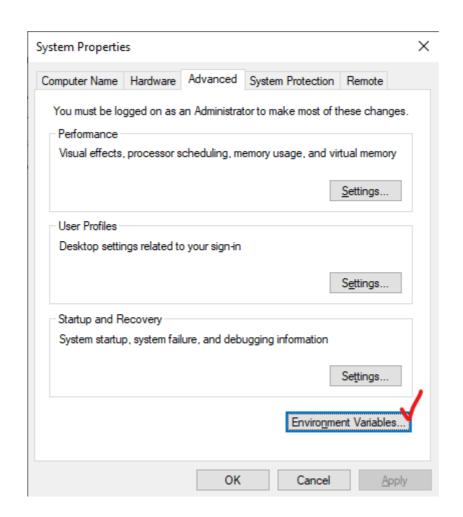




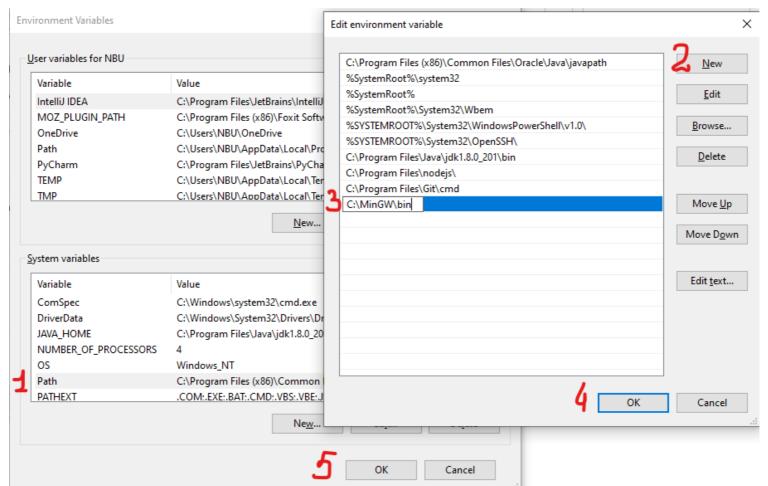














g++ --version

Administrator: Command Prompt

Microsoft Windows [Version 10.0.19041.985] (c) Microsoft Corporation. All rights reserved.

C:\Users\NBU>g++ --version
g++ (MinGW.org GCC-6.3.0-1) 6.3.0
Copyright (C) 2016 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.

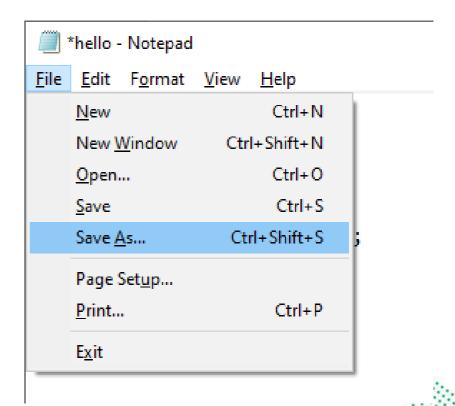




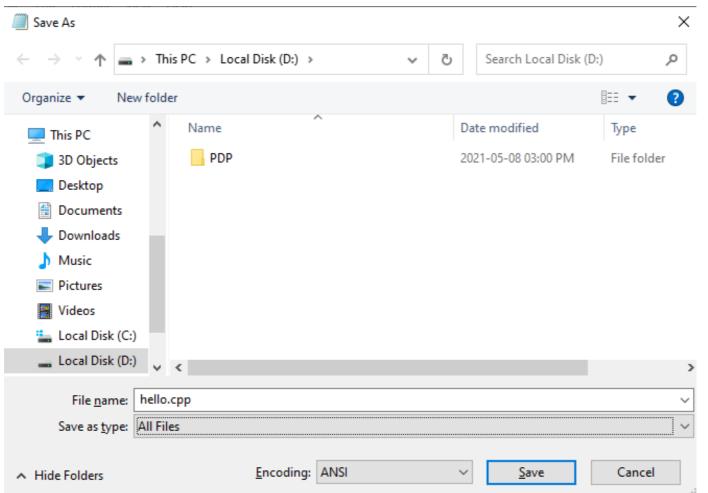
Birinchi C++ dasturimizni yozamiz



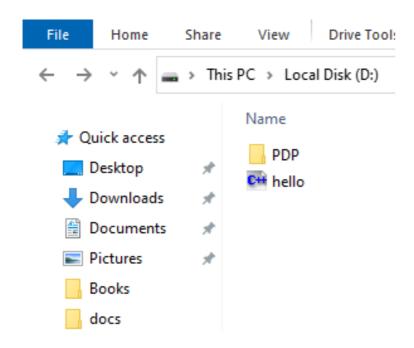
```
#hello - Notepad
File Edit Format View Help
#include<iostream>
using namespace std;
int main(){
        cout<<"Hello World!";
        return 0;
}</pre>
```

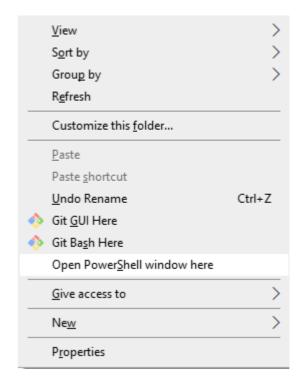






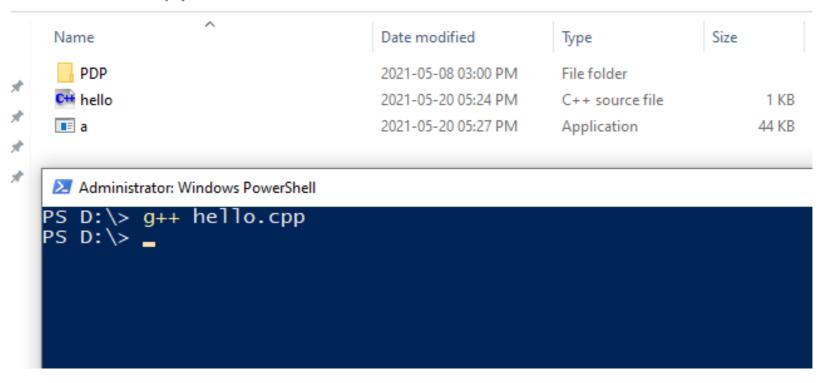








This PC > Local Disk (D:) >



Bu yerda: a faylni ishga tushiramiz.



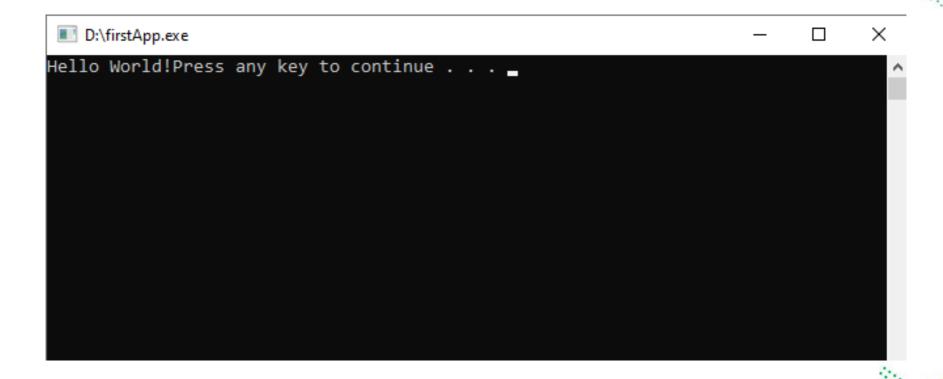
```
hello - Notepad
<u>File Edit Format View Help</u>
#include<iostream>
#include<stdlib.h>
using namespace std;
int main(){
         cout<<"Hello World!";
         system("pause");
         return 0;
```



This PC > Local Disk (D:) >

PDP	2021-05-08 03:00 PM	Type File folder	
hello2	2021-05-20 05:32 PM	C++ source file	1 K
C++ hello	2021-05-20 05:32 PM	C++ source file	1 K
■ a	2021-05-20 05:34 PM	Application	44 K
■ firstApp	2021-05-20 05:35 PM	Application	44 K
▲ Administrator: Windows	PowerShell		
PS D:\> g++ hell	o2.cpp -o firstApp		
PS D:\> _			









Tabriklaymiz! Siz birinchi C++ dasturingizni yozdingiz.



IDE nima?



IDE (Integrated development environment) - integratsiyalashgan rivojlanish muhiti, dasturiy ta'minotni yaratish uchun ishlatiladigan dasturdir.



Dev C++, Code::Blocks , Visual Studio, C free lar C++ dasturlash tili uchun IDE lar hisoblanadi .



IDE ni o'rnatish

https://www.codeblocks.org ▼

Code::Blocks

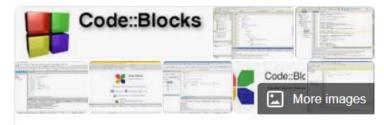
The free C/C++ and Fortran IDE. Code::Blocks is a free C/C++ and Fortran IDE built to meet the most demanding needs of its users. It is designed to be very ...

Binary releases

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

Source code

If you want to download the source code of Code::Blocks 20.03 ...

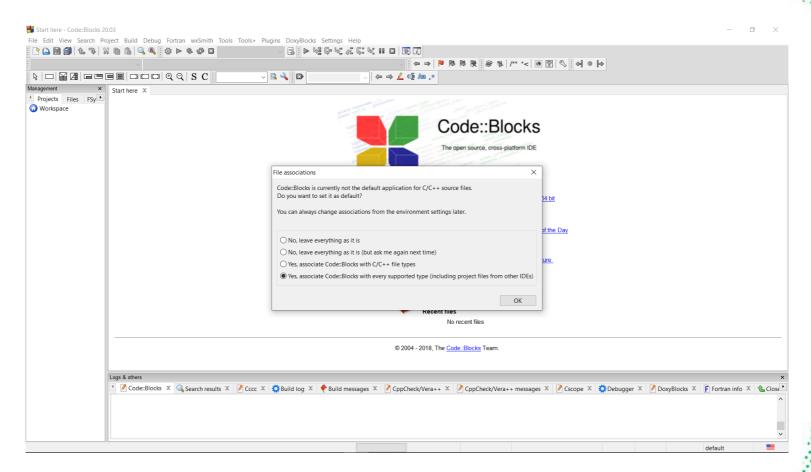


Code::Blocks





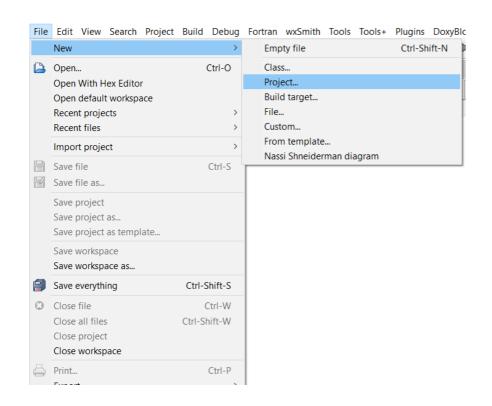


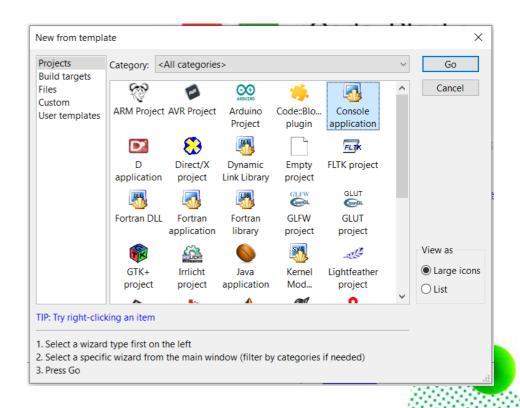




New Project Console application

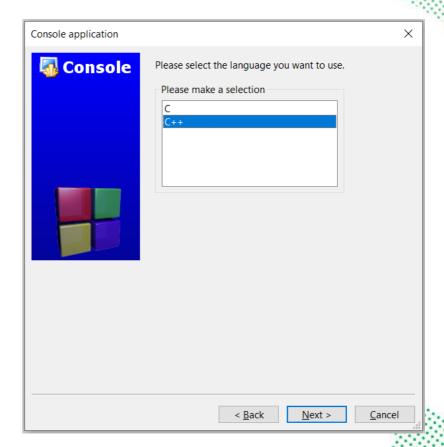
File > New > Project...



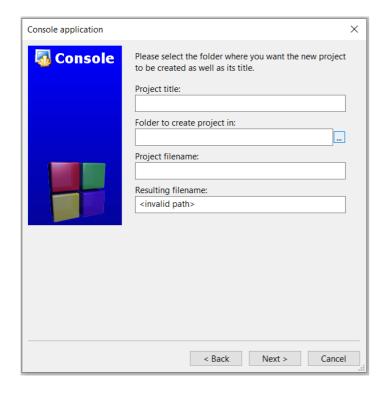


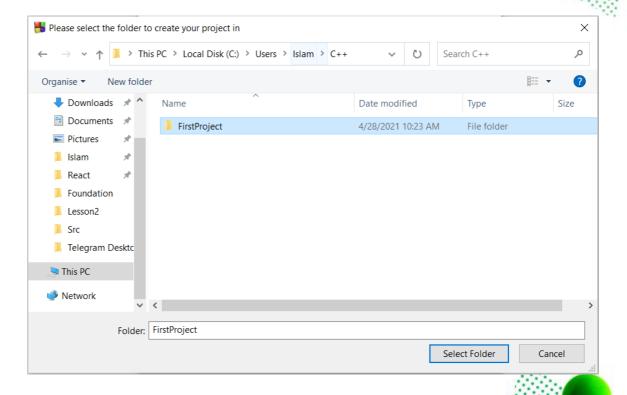














Basic syntax

Build > Build and Run

```
main.cpp X
           #include <iostream>
           using namespace std;
      5
            int main()
                cout << "Hello world!" << endl;</pre>
                return 0;
     10
```



Result

Hello world!

Process returned 0 (0x0) execution time : 0.009 s Press any key to continue.



C++ Comments (izohlar)

Commentlar - C++ kodini tushuntirish uchun foydalaniladi. Commentlar bir qatorli yoki ko'p qatorli bo'lishi mumkin.

Comments // Single line comment /* Multi-line comment */



Bir qatorli commentlar ikkita slash (kesma)lar bilan boshlanadi (//).

// va satr oxiri orasidagi har qanday matn kompilyator
tomonidan e'tiborga olinmaydi (bajarilmaydi).

```
int main()
{
    //Bu comment
    cout << "Hello world!" << endl;
    return 0;
}</pre>
```



Ko'p qatorli commentlar /* bilan boshlanadi va */ bilan tugaydi.

/* va */ orasidagi har qanday matn kompilyator tomonidan
e'tiborga olinmaydi:

```
int main()
{
    /*Dasturlashni
    pdp.uz da o`rganing!*/
    cout << "Hello world!" << endl;
    return 0;
}</pre>
```



E`tiboringiz uchun rahmat!