Installing NetBeans 8.0 on Windows 8/8.1

0. Introduction

In this document, you will learn how to install the NetBeans IDE software version 8.0 and the MinGW compiler on Windows 8 and 8.1. You will need reliable access to the internet to download some files, as well as at least 147 megabytes (62 MB for the minimal C++ NetBeans installation and 85 MB for the MinGW compiler) available for the downloads. You will also need administrative access to Windows to install programs and change system settings. Total installation time is approximately 15-45 minutes, depending on your internet speed, CPU speed, and installation size.

I. Downloading the NetBeans

First, you will need to download the latest version of NetBeans from the website: <u>https://netbeans.org/downloads/</u>. On this page, you will be prompted to select the bundle of your choice. It is recommended that you download the full bundle under "All", as this will allow you to program in other languages, such as Java, PHP, and HTML5. Alternatively, you can just install the minimal C++ bundle, which only requires 62 megabytes of hard drive space, as opposed to 210 megabytes for the full bundle download.

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Note: NetBeans is run using the Java SE Development Kit (JDK), so you will be prompted to either install or update Java on your computer, if you do not have Java 7 with the latest update installed already.

Click the "Download" button under the bundle you wish to install. Make sure that you have JavaScript turned in your browser. This will download the NetBeans installer. Open the file, and click the "Run" button to begin installation.

II. Installing NetBeans

- 1. Click "Next" on the "Welcome" page of the installation box.
 - If you chose to install the full bundle, you will prompted to select which software packages to install. (Not pictured.)
 - Be sure that C++ is selected.



NetBeans IDE Installer

License Agreement

Please read the following license agreement carefully.

NETBEANS IDE 8.0 ("Product") LICENSE AGREEMENT

PLEASE READ THE FOLLOWING LICENSE AGREEMENT TERMS AND

- 2. Read the software license agreement for NetBeans IDE.
- 3. Click the "Accept" checkbox.
- 4. Click the "Next" button.
- Read the software license agreement for JUnit, if you are installing the full package for NetBeans (Not pictured.)
- 6. Click the "Accept" checkbox.
- 7. Click the "Next" button.

	CONDITIONS CAREFULLY, INCLUDING WITHOUT LIMITATION THOSE DISPLAYED ELSEWHERE (AS INDICATED BY LINKS LISTED BELOW), BEFORE USING THE SOFTWARE. THESE TERMS AND CONDITIONS CONSTITUTE A LEGAL AGREEMENT BETWEEN YOU, OR THE ENTITY FOR WHICH YOU ARE AN AUTHORIZED REPRESENTATIVE WITH FULL	
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S NetBeans IDE

- 8. Accept the default installation folder for NetBeans and JDK, and click "Next".
 - The destination folder **must be empty**.
 - You must have **read/write permissions** for the folder.
- 9. Note: You will be prompted to install the latest version of Java if you do not have it or if you have an installation older than JDK 7 Update 10.
 - To update Java, cancel your NetBeans installation and go to the Java SE Downloads page at

http://www.oracle.com/technetwork/jav a/javase/downloads/index.html.

Download and install the latest version of Java, then install NetBeans.

0	NetBeans IDE Installer	- 🗆 🗙
NetBeans IDE 8.0 Installation Choose the installation folder and JDK	тм.	S NetBeans IDE
Install the NetBeans IDE to:		
C:\Program Files\NetBeans 8.0		Browse
JDK™ for the NetBeans IDE:		
C:\Program Files\Java\jdk1.8.0_11		✓ Browse
	< <u>B</u> ack	Next > Cancel

- 10. Review the installation summary and verify that you have adequate disk space.
- 11. Select whether you want NetBeans to automatically check for updates when you open it. This requires an internet connection and is recommended. However, NetBeans will still run without having to update itself.
- 12. Click the "Install" button to continue.



- 13. After setup is complete, you will be prompted to provide anonymous usage statistics **(optional)**.
 - Click the "more information" link to read about anonymous usage statistics.
- 14. Select your preference and click the "Finish" button.

Warning: NetBeans is now fully installed and ready for use, but you will *not* be able to create C++ files without a compiler (see next section).

0	NetBeans I	DE Installer	- 🗆 🗙
Setup Complete Click Finish to finish the NetBe	ans IDE setup.		8 NetBeans IDE
Installation completed suc	cessfully.		
JUnit library and 118 updates su	ccessfully installed.		
To launch the IDE, use either th	e Start menu or the NetBe	ans desktop icon.	
To change installed components IDE.	and add NetBeans plugins	, use Plugin Manager th	nat is an integral part of NetBeans
☑ <u>C</u> ontribute to the NetBeans	project by providing anon	ymous usage data	
 If you agree to partici The collected anonyme 	pate, the IDE will keep trac ous data will be submitted t	k of the high-level feati to a usage statistics dat	ures you use abase at netbeans.org server
The usage statistics will help improvements in future relea details concerning your proj	the development team to ases. We cannot and will n ects. See <u>more information</u>	better understand user ot reverse-engineer tha	requirements and prioritize at collected data to find specific
			Einish

III. Downloading MinGW

Now that you have NetBeans installed, you will need to download and install the MinGW complier.

Note: MinGW works best on Windows and *does not* provide a POSIX runtime environment. If you would like to install the POSIX application deployment, it is recommended you use the Cygwin compiler instead.

The recommended host for the MinGW installation package version 0.6.2 beta is located on SourceForge at: http://sourceforge.net/projects/mingw/files/latest/download?source=files.

Note: Following this link will automatically begin the download for MinGW.



IV. Installing MinGW

- 1. Once MinGW has downloaded, click "Run" to begin.
- 2. The MinGW Installation Manager Setup Tool will open.
 - Click the "View License" button if you wish to read the software licensing agreement.
- 3. Click the "Install" button to continue.

Mi	nGW Installation Manager Setup Tool
min	igw-get version 0.6.2-beta-20131004-1
	(
	Written by Keith Marshall
Сор	oyright © 2009-2013, MinGW.org Project
	http://mingw.org
This is free software; see redistribution conditions MERCHANTABIL	e the product documentation or source code, for copying and . There is NO WARRANTY; not even an implied WARRANTY OF .TY, nor of FITNESS FOR ANY PARTICULAR PURPOSE.
This tool will guide you th software (mingw-get) on install some other o	rrough the first time setup of the MinGW Installation Manager your computer; additionally, it will offer you the opportunity to ommon components of the MinGW software distribution.
After first time setup ha: Manager directly, (eitl according to your prefere upg	s been completed, you should invoke the MinGW Installation her the CLI mingw-get.exe variant, or its GUI counterpart, ence), when you wish to add or to remove components, or to grade your MinGW software installation.
View Licence	Install Cancel
Ste Installation Directory	p 1: Specify Installation Preferences
C:\MinGW	Change
If you elect to change thi includes white space with	is, you are advised to avoid any choice of directory which in the absolute representation of its path name.
User Interface Options Both command line and gr is always supported; the ✓ also install support	raphical options are available. The command line interface alternative only if you choose the following option to for the graphical user interface.
Program shortcuts for lau	nching the graphical user interface should be installed

● ... just for me (the current user), or ... ○ ... for all users * ...

 ${\bf \nabla}$... in the start menu, and/or ... ${\bf \nabla}$... on the desktop. * selection of this option requires administrative privilege.

View Licence

- Leave the installation directory as "C:/MinGW".
- 5. Select whether you would rather have graphic user interface or a command line interface.
 - For the sake of this tutorial, leave the graphic user interface option checked.
- 6. Select whether you would like program shortcuts on your Start page or on your Desktop.
- 7. Click the "Continue" button.
- This will take you to the MinGW Installation Setup Tool and will install the compiler catalog.
- 9. Once the catalog is installed, click the "Continue" button.
 - You have the option to click the "View License" button here as well.

MinGW Installation Manager Setup Tool mingw-get version 0.6.2-beta-20131004-1 **P** Step 2: Download and Set Up MinGW Installation Manager Download Progress Catalogue update completed; please check 'Details' pane for errors. Processed 109 of 109 items : 100 % Details mingw-get: *** INFO *** setup: unpacking mingw-get-setup-0.6.2-mingw32-beta-20 131004-1-xml.tar.xz mingw-get: ** INFO *** setup: updating installation database mingw-get: *** INFO *** setup: register mingw-get-0.6.2-mingw32-beta-20131004-1-bin.tar.xz * INFO *** setup: unpacking mingw-get-setup-0.6.2-mingw32-beta-20 , ingw-get: *** INFO *** setup: register mingw-get-0.6.2-mingw32-beta-20131004--bin.tar.xZ ingw-get: *** INFO *** setup: register mingw-get-0.6.2-mingw32-beta-20131004--gui.tar.xZ ingw-get: *** INFO *** setup: register mingw-get-0.6.2-mingw32-beta-20131004--lic.tar.xZ ingw-get: *** INFO *** setup: installation database updated View Licence Continue Quit

Continue

Cancel

- 10. Once finished, the MinGW Installation Manager will open. You likely will not need to make any changes here. However, in the list on the right, make sure you have at least the following selected:
 - mingw-developer-toolkit (Class bin);
 - mingw32-base (Class bin);
 - mingw32-gcc-g++ (Class bin);
 - mingw32-gcc-g++ (Class: dev);
 - msys-base (Class: bin).

3		1	MinGW Installation	n Manager		x
Installation Package Settings					ł	lelp
Basic Setup	Package	Class	Installed Version	Repository Version	Description	^
All Packages	mingw32-autoconf	bin	10-1	10-1	Wrapper scripts for autoconf commands	-
MinGW Base System	mingw32-autoconf	lic		10-1	Wrapper scripts for autoconf commands	
MinGW Libraries	mingw32-autoconf2.1	bin	2.13-4	2.13-4	Automatic Configure Script Builder (2.1x series)	
MinGW Contributed	mingw32-autoconf2.1	doc		2.13-4	Automatic Configure Script Builder (2.1x series)	
MinGW Autotools	mingw32-autoconf2.1	lic		2.13-4	Automatic Configure Script Builder (2.1x series)	
MSYS	mingw32-autoconf2.5	bin	2.68-1	2.68-1	Automatic Configure Script Builder (2.5x/2.6x series)	
MSYS Base System	mingw32-autoconf2.5	doc		2.68-1	Automatic Configure Script Builder (2.5x/2.6x series)	
MinGW Developer Toolkit	mingw32-autoconf2.5	lic		2.68-1	Automatic Configure Script Builder (2.5x/2.6x series)	
MSYS System Builder	mingw32-automake	bin	4-1	4-1	Wrapper scripts for automake and aclocal	
	mingw32-automake	lic		4-1	Wrapper scripts for automake and aclocal	
	mingw32-automake1.10	bin	1.10.2-1	1.10.2-1	Automatic Makefile Builder (1.10 series)	
	mingw32-automake1.10	doc		1.10.2-1	Automatic Makefile Builder (1.10 series)	
	mingw32-automake1.10	lic		1.10.2-1	Automatic Makefile Builder (1.10 series)	
	mingw32-automake1.11	bin	1.11.1-1	1.11.1-1	Automatic Makefile Builder (1.11 series)	
	mingw32-automake1.11	doc		1.11.1-1	Automatic Makefile Builder (1.11 series)	~
	General Description Depe	ndencie	s Installed Files Ve	ersions		
	Please select a package from	n the lis	t above, to view rela	ted data.		

- 11. Click the menu item "Installation in the upper left corner, and select "Apply Changes".
- 12. This will open the "Schedule of Pending Actions" box.
- 13. Click the "Apply" button to proceed.
- 14. After installation, click the "Close" button on the dialog box.
- 15. You can close the MinGW Installation Manager now if you wish.

1				MinGW Installation Manager			
Installation Package Settings							
L	Update Catalogue Mark All Upgrades Apply Changes		е	Class	Installed Version		
L			developer-toolkit	bin	2013072300		
			2-base	bin	2013072200		
-	- TF 2			2-gcc-ada	bin		
	Quit		Alt+F4	2-gcc-fortran	bin		
<u> </u>				2-gcc-g++	bin	4.8.1-4	
			ming	w32-gcc-objc	bin		
	msys-b			-base	bin	2013072300	

V. Including the MinGW Paths

Now that you have both NetBeans and MinGW installed, you will need to allow NetBeans access to MinGW's library.

- 1. From the Start menu, click the down arrow to "View Apps".
- 2. Click on "by name" to sort your apps.
- Click on "Control Panel" under the "Windows System" heading, at the end of the list.



- 4. In the Control Panel, click on "System".
- 5. In the left panel, click on "Advanced System Settings".
 - Again, be sure you are logged in as the administrator of the computer.
- System (→ ▼ ↑ 🕎 → Control Panel → All Control Panel Items → System Control Panel Home View basic information about your computer 🏮 Device Manager Windows edition Remote settings ۲ Windows 8.1 🍘 System protection © 2013 Microsoft Corporation. All rights reserved. Advanced system settings Get more features with a new edition of Windows System Intel(R) Core(TM) i7-4710H Processor: Installed memory (RAM): 8.00 GB (7.88 GB usable) System type: 64-bit Operating System, xt Pen and Touch: No Pen or Touch Input is a

	5	System Pro	perties	
Computer Name	Hardware	Advanced	System Protection	Remote
You must be lo	gged on as	an Administrat	or to make most of	these changes
Performance				
Visual effects	, processor s	scheduling, me	emory usage, and v	irtual memory
			-	Settings
User Profiles				
Desktop settir	ngs related t	o your sign-in		
				Settings
Startup and R	ecovery			
System startuj	p, system fai	iure, and debu	lgging information	
				Settings
			_	
			Environm	ent Variables
		OK	Cancel	Appl
		UK	Canoci	

 Under the "Advanced" tab, click on the "Environment Variables" button.

- In the box "User variables", select the "Path" option.
- 8. Click the "Edit..." button directly below.
- 9. This will open the "Edit User Variable" dialog box.

Warning: Do not remove anything here, as this can seriously damage your computer settings.

10. Under the line "Variable Value", scroll to the end of the line, and add the following *exactly*:

;C:\MinGW\bin;C:\MinGW\msys\1.0\bin;

- 11. Click the "OK" button on the dialog boxes to save your changes.
- 12. You must now either log off or restart Windows to apply your changes.



Open NetBeans and create a new project. You're all set!

0	New Project	×
Steps 1. Choose Project 2	Choose Project Choose Project Filter: Categories: Categories: Java JavaFX JavaFX Java Web Java EE HTML5 Java AEE HTML5 Java Card Java Card Haven PHP Concerning PHP Concerning C/C++ Categories: Creates a new application project. It uses an	Projects: C/C++ Project with Existing Sources C/C++ Project from Binary File C/C++ Application C/C++ Dynamic Library C/C++ Static Library C/C++ Qt Application C/C++ Qt Dynamic Library C/C++ Qt Static Library C/C++ Qt Static Library
17/1		
	< Back	Next > Finish Cancel Help

VI. Troubleshooting

If NetBeans does not have the option to open or create a C++ application project, try the following:

- Shut down the computer completely and restart it.
- After installing MinGW, uninstall NetBeans, and reinstall it.
- Make sure you downloaded a NetBeans installation that supports C++.
 - 1. Click on the "Tools" menu at the top and select "Options". (See picture below).
 - 2. If you do not see an icon for "C/C++", you did not install the C++ component for NetBeans.
 - 3. Go back to http://www.netbeans.org/downloads and download the correct build. (See Section I.)
 - 4. Make sure that C/C++ is selected during the install. (See Section II.)
- Make sure NetBeans has MinGW set as its default Build tool:
 - 1. Click on the "Tools" menu at the top and select "Options".
 - 2. Click on the "Click on the "C/C++" icon.
 - 3. Under the "Build Tools" tab, on the "Tool Collection", you should only see MinGW installed.
 - 4. Other options should be set to MinGW as well:
 - Family: GNU MinGW
 - Encoding: UTF-8
 - Base Directory: C:\MinGW\bin
 - C Compiler: C:\MinGW\bin\gcc.exe
 - C++ Compiler: C:\MinGW\bin\g++.exe
 - Assembler: C:\MinGW\bin\as.exe
 - Make Command: C:\MinGW\msys\1.0\bin\make.exe
 - Debugger Command: C:\MinGW\bin\gdb.exe

0		Options			×
Image: Second state Image: Second state	ava ⁻ php va PHP	C/C++ Team Appearance Miscellaneous		Q	
Build Tools Project Options Code Assistance	Debugging O	otions Other			
Build Host: localho	st			~	Edit
Tool Collection: MinGW		GNU MinGW	Encoding:	UTF-8	~
Base D	irectory:	C:\/MinGW\/bin			
C Com	piler:	C:\MinGW\bin\gcc.exe			
C++ C	ompiler:	C:\MinGW\bin\g++.exe			
Fortra	n Compiler:				
Assem	bler:	C:\MinGW\bin\as.exe			
Make 0	Command:	C:\MinGW\msys\1.0\bin\make.exe			
Debug	ger Command:	C:\MinGW\bin\gdb.exe			
QMake	Command:				
CMake	Command:				
Add Duplicate					
Remove Default			Versions	Restore D	efaults
Export Import		ОК	Apply	Cancel	Help

- Double check that you input the MinGW directories into the **PATH** for **"User variables"**, not into the Path for "System variables". (See **Section V**, step **7**.)
- Make sure that the MinGW directories in the User variables path are the same as the directories in which you installed MinGW. For example, if you installed MinGW to a desktop folder, you would change the path to read:

";C:\Users\[Your Name]\Desktop\MinGW\bin;C:\Users\[Your Name]\Desktop\MinGW\msys\1.0\bin;"

• Warning: It is recommended you install MinGW on C:\MinGW. Installing it under user folders is NOT recommended.

Good luck!