This is a basic tutorial for installing Cygwin on Windows 10.

Step 1: Navigate to the Cygwin website and click on setup-x86_64.exe under Installing Cygwin:

ygwin Install Cygwin Update Cygwin Search Packages Licensing Terms YgwinX	Cygwin Get the Linux, Meling - on Window						
community Reporting Problems Mailing Lists Newsgroups	This is the home of the Cygwin project						
IRC channels Gold Stars	What						
Mirror Sites Donations	is it?	isn't it?					
Ocumentation	Cygrvin is:	Cygwin is not:					
User's Guide API Reference Acronyms	 a large collection of CONU and Open Source tools which provide functionality similar to a <u>Lance dorbitation</u> on Windows. a DLL (crystrail.dll) which provides substantial POSIX AP? functionality. 	 a way to run native Lana apps on Windows. You must rebuild your application from source if you want it to run on Windows. a way to magnify make native Windows apps source of UNIX's functionality like signals, pity, etc. Appin, you need to build your apps, from source if you want to take advantage of Cygroin functionality. 					
Contributing Snapshots	Cygwin version						
Source in Git Cynwin Packages	The most recent version of the Cympin DLL is 3.3.0.						
telated Sites	The Cygwin DLL currently works with all recent, commercially released x86_64 versions of Windows, starting with Windows Vista. For more information see the FAQ.						
	DEPRECATION NOTE						
	Cygrwin 3.3.0 is the last version supporting						
	 Windows Vista Windows Server 2008 2.32 br Windows versions, including WOW64 						
	Installing Cygwin						
	Install Cygwin by running setup-1286, 54 exe						
	Use the setup program to perform a fresh install or to update an existing installation.						
	Keep in mind that individual packages in the distribution are updated separately from the DLL so the Cygwin DLL version is not useful as a general Cygwin distribution of	rlease number.					
	Support for Cygwin						
	For all Cygnin-related questions and observations, please check the resources available at this site, such as the EAO, the List's Gaide and the maining list archives. If you'find things, questions about why things are done a certain way, questions about the color preferences of Cygnvin developers, questions about the meaning of the number 42	ve exhausted these resources then please send email to an appropriate mailing list. This includes observations about web pages, setup questions, questions about where to , etc.					
	Please send notification of technical problems (bad html, broken links) concerning these web pages to the Cygwin mailing list.						
	Please do not send personal email with "quick questions" to individual Cygwin contributors. The Cygwin mailing lists are the places for all questions. Really. I mean it.						
	32 bit Cygwin						
	Address space is a very limiting factor for Cygwin. These days, a full 32 bit Cygwin distro is not feasible anymore, and will in all likelihood fail in random places due to a	n issue with the fock(2) system call.					
	Therefore we recommend using 32 bit Cygwin only in limited scenarios, with only a minimum of necessary packages installed, and only if there's no way to run 64 bit Cyg	gwin instead.					
	You have been warned. If you're still sure you really need a 32 bit Cygwin, and there's absolutely no way around it, you may run the setup-x86 exc installer.						
	The Cyperio DLL and unline are Copyright 0 Cy- SOLT & a regioned instances of the Open	rein nallers. Ohne genhagen hine ohne rogerafin. Orenge niche Consel Elaner and ohner ronerse.					

Step 2: Save the file to a location you know how to access. I'm using the Downloads folder:

🌍 Save As						×
\leftarrow \rightarrow \checkmark \uparrow \downarrow \rightarrow This PC \rightarrow Downloads \rightarrow						
Organize 👻 New folder					ii -	
Downloads * ^ Name Documents * Last week (3)	Date modified	Туре	Size			
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 Google Drive ★ Cloud Computir Jave Program_7 student work 						
> 😹 Creative Cloud Fil						
> 🥌 OneDrive						
✓ This PC SO Objects Desktop Documents Downloads Music Pictures Wideos						
> 📇 Local Disk (C:) 🗸						
File name: [setup=x86_64.exe Save as type: [Application (*.exe)						~
∧ Hide Folders					Save 📐 Cano	:el:

Step 3: Install Cygwin

i4aa



We'll be installing from the internet since that's the easiest option.

E Cygwin Setup - Choose Installation Type	-		\times
Choose A Download Source Choose whether to install or download from the internet, or install from files in a local directory.		ĺ	
 Install from Internet (downloaded files will be kept for future re-use) 			
 Download Without Installing 			
O Install from Local Directory			
· 			
< Back Next	2	Can	icel

For this tutorial we will be going with the default settings. The Root Directory (where Cygwin will be installed) can be changed, just make sure to remember where it was changed to since we'll need it later.

Select Root Install Directory Select the directory where you want to inst installation parameters	all Cygwin. Also choose	a few		>
Root Directory				
C:¥cygwin64			Browse.	
Install For				
All Users (RECOMMENDED)				
Cygwin will be available to all users of the	system.			
◯ Just Me				
Cygwin will still be available to all users, b Installer information are only available to t Administrator privileges or if you have spe	ut Desktop Icons, Cygwin he current user. Only sek cific needs.	Menu Entries, a ect this if you lac	and importa k	int

The Local Package Directory is just where files are stored when downloading the necessary files. If you plan on installing again in the future, make note of this location later for easier reinstallation. Otherwise, just click "Next".

Cygwin Setup - Select Local Package Directory	-		×
Select Local Package Directory Select a directory where you want Setup to store the installation files it downloads. The directory will be created if it does not already exist.			
Local Package Directory			
C:¥Users¥Cory¥Downloads		Browse.	
< Back Ne	extly_	Can	cel

Leave it default here unless you know what you're doing.

E Cygwin Setup - Select Connection Type	_		\times
Select Your Internet Connection Setup needs to know how you want it to connect to the internet. Choose the appropriate settings below.		l	E
Use System Proxy Settings Direct Connection Use HTTP/FTP Proxy: Proxy Host Port 80			
< Back Ne	xt	Car	ncel

Pick a download site. This doesn't particularly matter, just make sure you're using an https site. I'm going to stick with the default for this tutorial.

E Cygwin Setup	- Choose Download Site(s)			_		×
Choose A Down Choose a site	nload Site from this list, or add your own sites to	the list			I	
	Available Download Sites:					
	http://mirors.163.com https://mirors.163.com https://mirors.aliyun.com https://mirors.aliyun.com http://cygwin.mirors.constant.com http://cygwin.mirors.hoobly.com http://mirors.huaweicloud.com http://mirors.huaweicloud.com http://mirors.smission.com http://mirors.xmission.com http://mirors.xmission.com http://mirors.xmission.com http://mirors.clarkson.edu https://miror.clarkson.edu		~			
User URL:				Add		
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It'll run for a moment and then this box will pop up.

Step 4. Selecting necessary packages

w Category V Search	Clear				🔾 Кеер 🏾 🖲	Best O Sync	Test
ackage	Current	New	Src?	Categories	Size	Description	
e All		Default 💌					

Cygwin has a lot of packages available, but we're only going to need four:

- gcc g++ v. 11.2.0-1
- gdb v. 10.2-1
- cmake v. 3.20.0-1
- binutils v. 2.37-2

These should be all we need for most major IDEs, and it's sufficient for compilation via command line.

Note: The version numbers might change as these are always being updated so just make sure the latest version without (Test) is selected.

ew Category ~ Search g++	Clear					🔾 Keep 🛛 🔘	Best OSync Test
Package	Current	New		Src?	Categories	Size	Description
I AI		Default	-				
Devel (5)		Default	•				
cygwin32-gcc-g++		Skip	-		Devel	10,456k	GCC for Cygwin 32bit toolcha
djgpp-gcc-g++		Skip	-		Devel	8,279k	GCC for DJGPP toolchain (C
gcc-g++		11.2.0-1	-	Ц	Devel	17,993k	GNU Compiler Collection (C+
mingw64i686-gcc-g++		Skip	-	Н	Devel	18,789k	GCC for Win32 (i686-w64-mir
mingwo4-xoo_o4-gcc-g++		экір	•		Devel	10,332K	GCC for Win64 toolchain (C+
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🖾 All		Default	-				
Debug (1)		Default	•				
Devel (5)		Default	-				
cmake		3.20.0-1	-	Н	Devel	6,297k	Cross-platform makefile gene
cmake-doc		Skip	-	H	Devel	1,90/K	Cross-platform makefile gener
extra-omake-modules		Skip	Ť	H	Devel	2,002K	Extra CMake Modules for KD
accmakeden		Skip	- i	H	Devel	20 IK	X Makefile dependency tool
E Editors (2)		Default	-		Devel	ur	A matchie dependency toon
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Click "Next". The installer will ask you to review and confirm changes, so just click "Next" once more. Depending on your internet connection it might take a bit, so just hang tight until it's done. It's up to you if you want an icon on the desktop or in the start menu. I don't use my desktop, so I opted just to add the icon to the start menu. Click "Finish" and you're done with the installation.

Cygwin Setup - Installation Status and Create Icons	_		×
Create Icons Tell setup if you want it to create a few icons for convenient access to the Cygwin environment.		I	
Create icon on Desktop Add icon to Start Menu			
Installation Status Installation Complete			
< Back Fin	ish	Can	cel

Step 5: Add the bin to the environment variables (the PATH)



Go into your search bar and type in 'path', then select the "Edit the system environment variables" option.

System Properties	;				×
Computer Name	Hardware	Advanced	System Protection	Remote	
You must be log	ged on as a	an Administra	tor to make most of t	hese changes.	
Performance					
Visual effects, j	processor s	cheduling, m	emory usage, and vi	rtual memory	
			[Settings	
User Profiles					
Desktop setting	as related to	o vour sian-in			
		,			
				Settings	
Startup and Re	covery				
System startup	, system fail	ure, and deb	ugging information		
			_		
				Settings	
			Environme	ent Variables]
		OK	Cancel	Apply	

A window like this should pop up. Select "Environment Variables".

vironment Variables		>
User variables for Cory		
Variable	Value	
OneDrive	C:\Users\Cory\OneDrive	·
Path	C:\Users\Cory\AppData\Local\Microsoft\WindowsApps;	
QT_DEVICE_PIXEL_RATIO	auto	
TEMP	C:\Users\Cory\AppData\Local\Temp	
TMP	C:\Users\Cory\AppData\Local\Temp	
	New Edit Delete	
System variables		
Variable	Value	
OculusBase	C:\Program Files\Oculus\	
OS	Windows_NT	
Path	C:\Program Files (x86)\Common Files\Oracle\Java\javapath;C:\Pro	
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC	
PROCESSOR_ARCHITECTURE	AMD64	
PROCESSOR_IDENTIFIER	AMD64 Family 23 Model 113 Stepping 0, AuthenticAMD	
PROCESSOR LEVEL	23	*
	New Edit Delete	
	OK Cancel	

Select the "Path" category in the system variables and click "Edit".

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File Home Share	View					^ ?
Pin to Quick Copy Paste access	Cut Copy path Paste shortcut Paste shortcut	Rename New item To	Properties Open Open	Select all Select none Invert selection Select		
	win64\bin					
Parent Direct: * School Google Drive * Google Drive * Program.7 student_work Creative Cloud Fil OneDrive This PC	Name ^ [cece addftinfo.exe addf2line.exe addf2line.exe arch.exe arch.exe arch.exe asb.exe asb.exe asb.exe asb.exe asb.exe arch.exe	Date m Undo 23/201 Cogy 3/31/20 Paste 9/27/20 Delete 9/27/20 Select All 2/3/201 Right to left 9/27/20 Show Unicol 9/27/20 Inset Unicol 9/27/20 Open IME 2/3/201 Open IME	Reading order de control characters de control character >	53 KB 51 KB 51 KB 59 KB 65 KB 50 KB 50 KB 56 KB 52 KB 52 KB 52 KB		
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476 items						1

Navigate to where you installed Cygwin in File Explorer and copy the entire directory path from the bin folder inside of the cygwin64 folder.

Edi	it environment variable		×
	C:\Program Files (x86)\Common Files\Oracle\Java\javapa	th	New N
	C:\Program Files (x86)\VMware\VMware Workstation\bin\	\	6
	C:\Program Files\Oculus\Support\oculus-runtime		Edit
	C:\Windows\system32		
	C:\Windows		Browse
	C:\Windows\System32\Wbem		
	C:\Windows\System32\WindowsPowerShell\v1.0\		Delete
	C:\Windows\System32\OpenSSH\		
	C:\Program Files\PuTTY\		
	C:\Program Files\NVIDIA Corporation\NVIDIA NvDLISR		Move Up
	C:\Program Files (x86)\NVIDIA Corporation\PhysX\Comm	ion	
	C:\Program Files (x86)\Common Files\Acronis\VirtualFile\	N	Move Down
	C:\Program Files (x86)\Common Files\Acronis\VirtualFile6	54\	
	C:\Program Files (x86)\Common Files\Acronis\FileProtect	tor\	
	C:\Program Files (x86)\Common Files\Acronis\FileProtect	torб4\	Edit text
	C:\Program Files (x86)\Common Files\Acronis\SnapAPI\		
	C:\Program Files\swipl\bin		
	C:\Program Files\Git\cmd		
	C:\Users\Cory\anaconda3\Scripts		
L			
		OK	Canaal
		UK	Cancel

Click on "New":

Edit environment variable		×
C:\Program Files (x86)\VMware\VMware Workstation\bin\	^	New
C:\Program Files\Oculus\Support\oculus-runtime		
C:\Windows\system32		Edit
C:\Windows		
C:\Windows\System32\Wbem		Browse
C:\Windows\System32\WindowsPowerShell\v1.0\		
C:\Windows\System32\OpenSSH\		Delete
C:\Program Files\NVIDIA Corporation\NVIDIA NvDLISR		
C:\Program Files (x86)\NVIDIA Corporation\PhysX\Common		
C:\Program Files\swipl\bin		Move Up
C:\Users\Cory\anaconda3\Scripts		
%SystemRoot%\system32		Move Down
%SystemRoot%		
%SystemRoot%\System32\Wbem		
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\		Edit text
%SYSTEMROOT%\System32\OpenSSH\		
C:\Program Files\Git\cmd		
C:\Program Files\PuTTY\		
C:\Program Files\Java\jdk1.8.0_301\bin		
C:\cygwin64\bin		
	*	
OK		Cancel
· •		

Paste the full path to the bin directory in the text box that appeared and click "OK".

Step 6: Test



Type in g++ --version. If the version appears, you've successfully installed Cygwin! The same commands can be used as in any compilation tutorial and programs compiled work on all platforms.

However, Cygwin has a choice: you can either continue using the Windows command prompt, or you can use Cygwin's built in linux-like terminal. Getting a feel for Linux will be important, since that's the primary development operating system, so practice might be a good idea. If you want to proceed using the Cygwin terminal, keep reading for the optional Cygwin tutorial.

(Optional) Step 7: Using the Cygwin terminal



If you selected the "Add icon to Start Menu" or "Create icon on Desktop" when installing, opening the terminal is the same as any other program. If you didn't, you'll have to navigate to the location where you installed Cygwin and either launch "mintty.exe" in the bin folder or double-click "Cygwin.bat" in the base install folder to launch it.

Once open, you'll see this:

~	▶	—	×
Cory@DESKTOP-3G8EQJG ~			^
\$			
			× .

This works like a Linux terminal, so Linux commands like 'Is' or 'vi' (should you feel so inclined) work fine. Windows commands still work. Once you have the terminal open, you can navigate to the appropriate directory for compilation (It doesn't start in the C: drive so you'll want to use cd once to get there) and compile the same way you normally would.

Here's an example of navigating to another directory and compiling code, the same way you would in most Linux distros.

/cygdrive/f/Parent Directory/programming_stuff/Prog Fundamentals 3/assignment03	—	\times
Cory@DESKTOP-3G8EQJG ~ \$ cd f:		^
Cory@DESKTOP-3G8EQJG /cygdrive/f \$ cd Parent\ Directory/		
Cory@DESKTOP-3G8EQJG /cygdrive/f/Parent Directory \$ cd programming_stuff/		
Cory@DESKTOP-3G8EQJG /cygdrive/f/Parent Directory/programming_stuff \$ cd Prog\ Fundamentals\ 3		
Cory@DESKTOP-3G8EQJG /cygdrive/f/Parent Directory/programming_stuff/Prog Fundame ntals 3 \$ cd assignment3 -bash: cd: assignment3: No such file or directory		ľ
Cory@DESKTOP-3G8EQJG /cygdrive/f/Parent Directory/programming_stuff/Prog Fundame ntals 3 \$ assignment03 -bash: assignment03: command not found		
Cory@DESKTOP-3G8EQJG /cygdrive/f/Parent Directory/programming_stuff/Prog Fundame ntals 3 \$ cd assignment03		
Cory@DESKTOP-3G8EQJG /cygdrive/f/Parent Directory/programming_stuff/Prog Fundame ntals 3/assignment03 \$ g++ -I ./ *.cpp		
Cory@DESKTOP-3G8EQJG /cygdrive/f/Parent Directory/programming_stuff/Prog Fundame ntals 3/assignment03 \$./a		