

Cygwin – Perl and Make

Tuan Nguyen-viet

(REF: <https://bennierobinson.com/programming/2016/01/24/perl-windows-2016.html#cygwin>)

Installing Cygwin – Perl and Make

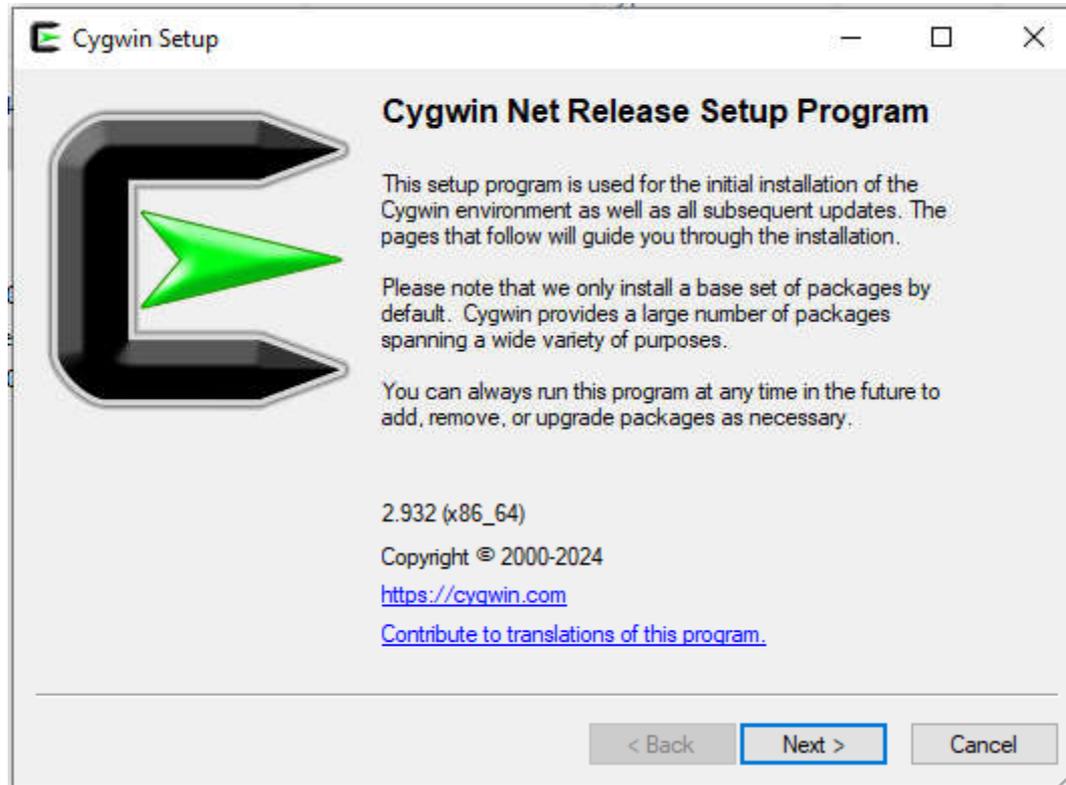
- Go to the [Cygwin website](https://cygwin.com) and download the appropriate version for our **operating system type**.
 - <https://cygwin.com/install.html>
- Run [setup-x86_64.exe](#) to install a Cygwin package for **64-bit Windows**.

Installing and Updating Cygwin for 64-bit versions of Windows

Run [setup-x86_64.exe](#) any time you want to update or install a Cygwin package for 64-bit windows.

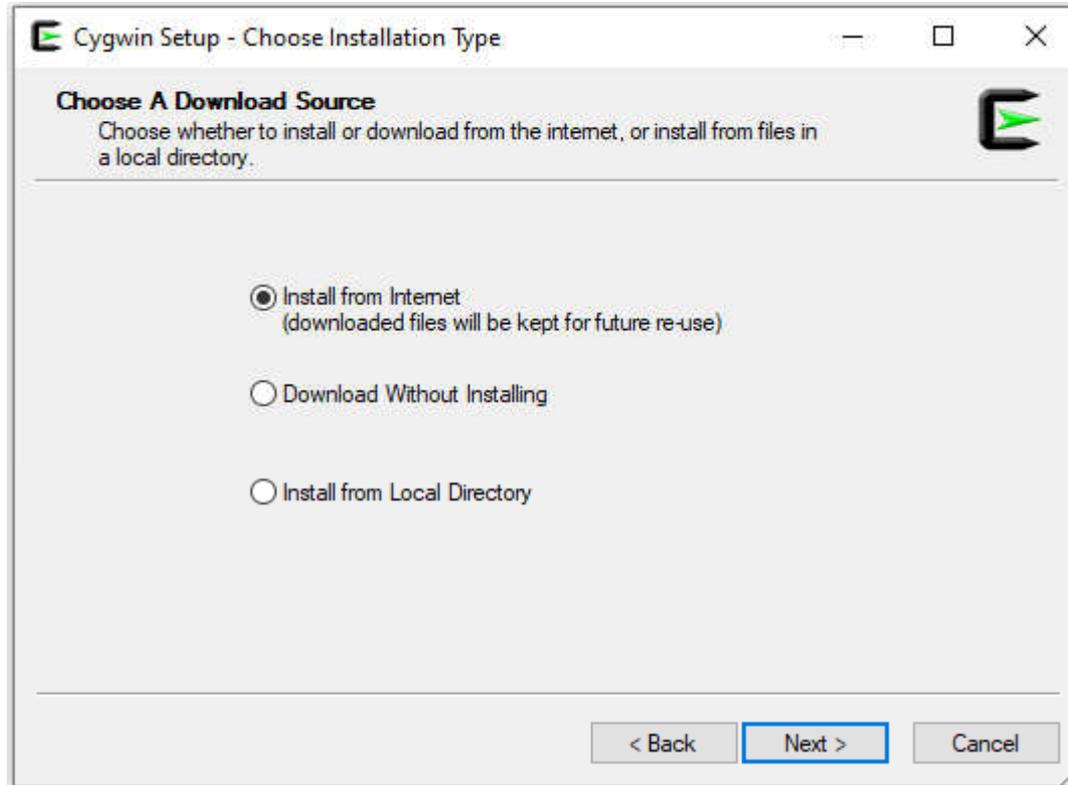
- Open the downloaded [.exe](#) file.  `setup-x86_64.exe`

Installing Cygwin – Perl and Make (2)



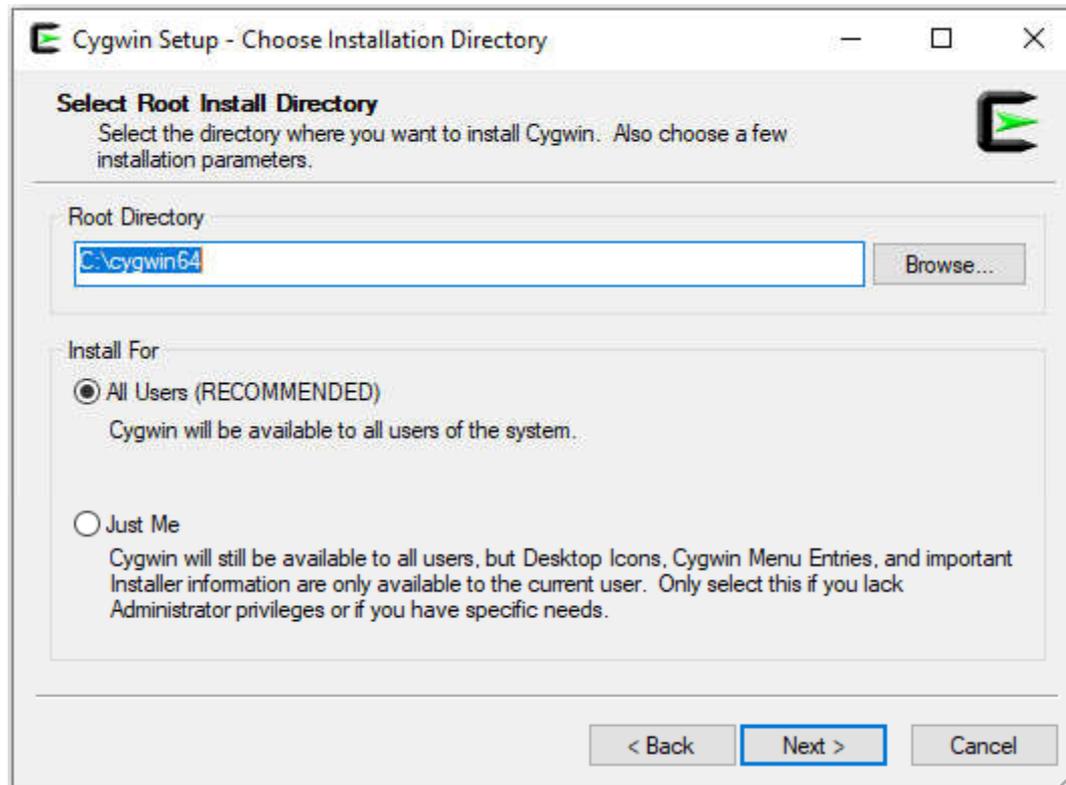
- Just move on by clicking “ **Next >** ”.

Installing Cygwin – Perl and Make (3)



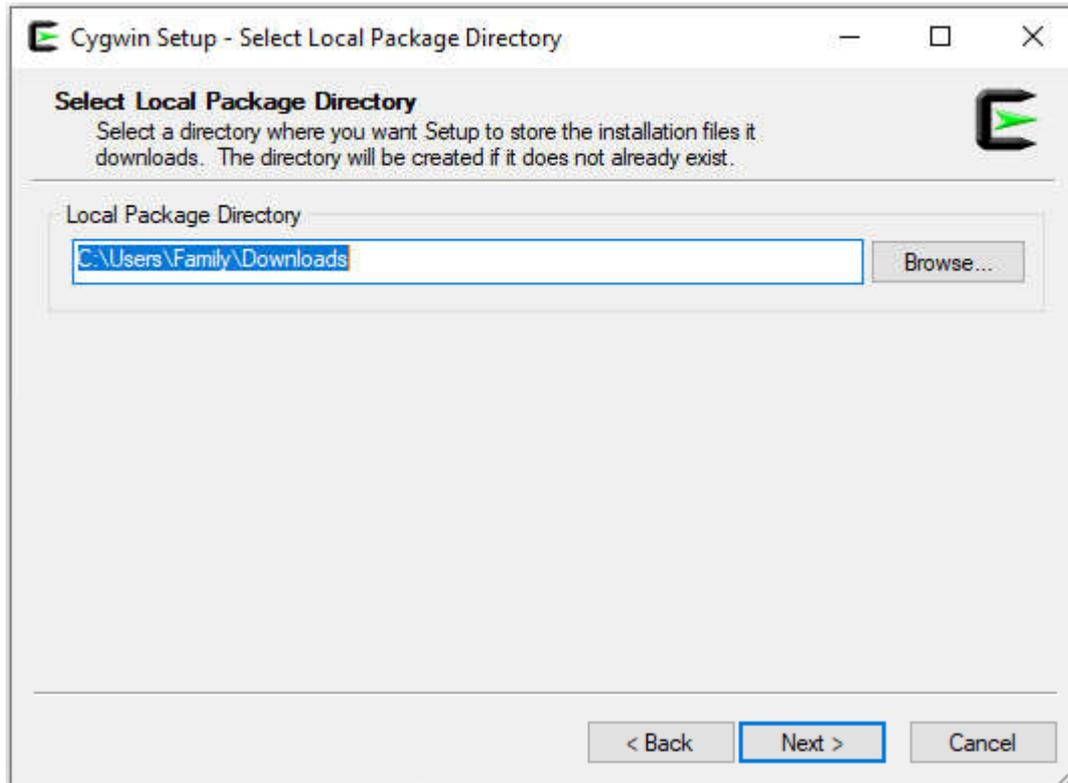
- Just choose “ **Install from Internet** ” and carry on by clicking “ **Next >** ”.

Installing Cygwin – Perl and Make (4)

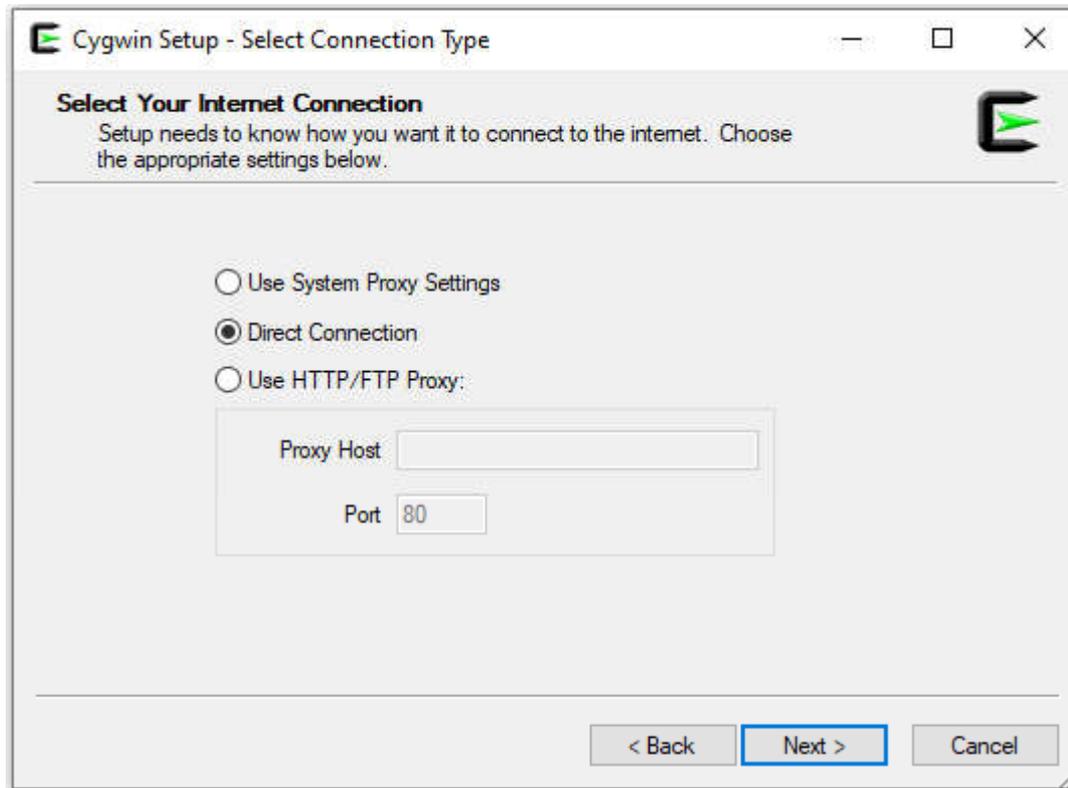


- In “ **Select Root Install Directory** ” window,
 - the default install folder (**Root Directory**) is in the **C:\cygwin64** ,
 - click “ **Next >** ”.

Installing Cygwin – Perl and Make (5)

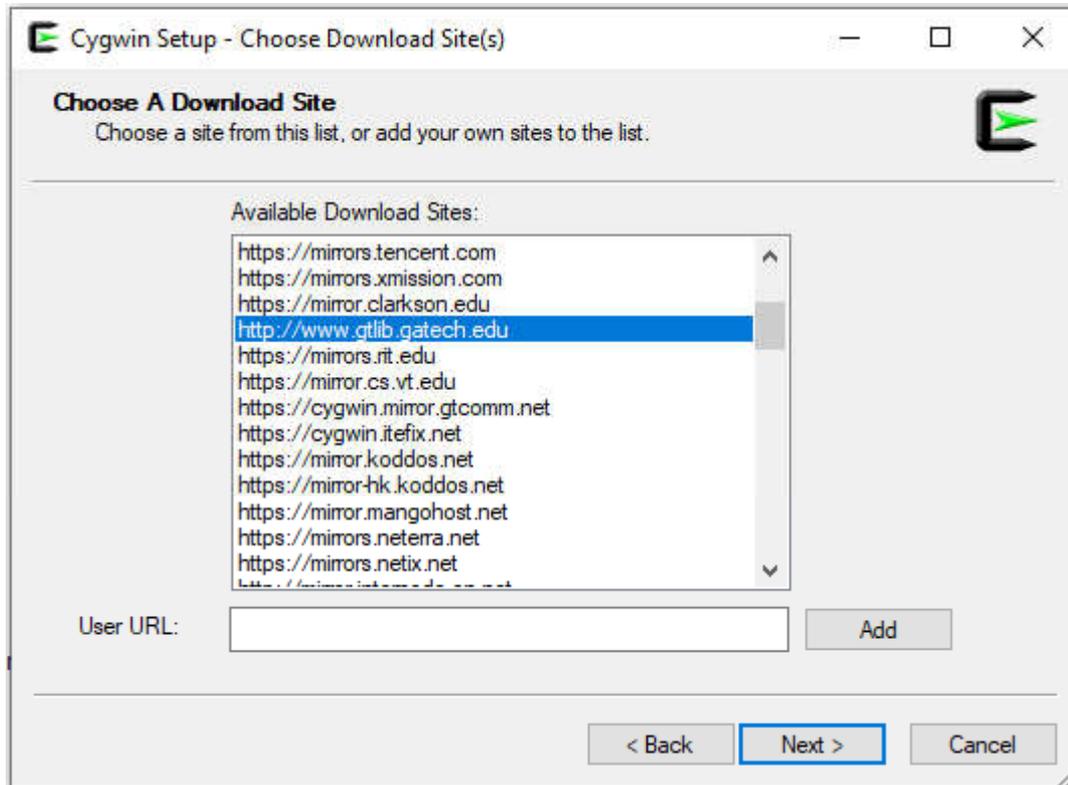


Installing Cygwin – Perl and Make (6)



- In “ **Select Your Internet Connection** ” window,
 - choose “ **Direct Connection** ”,
 - click “ **Next >** ”.

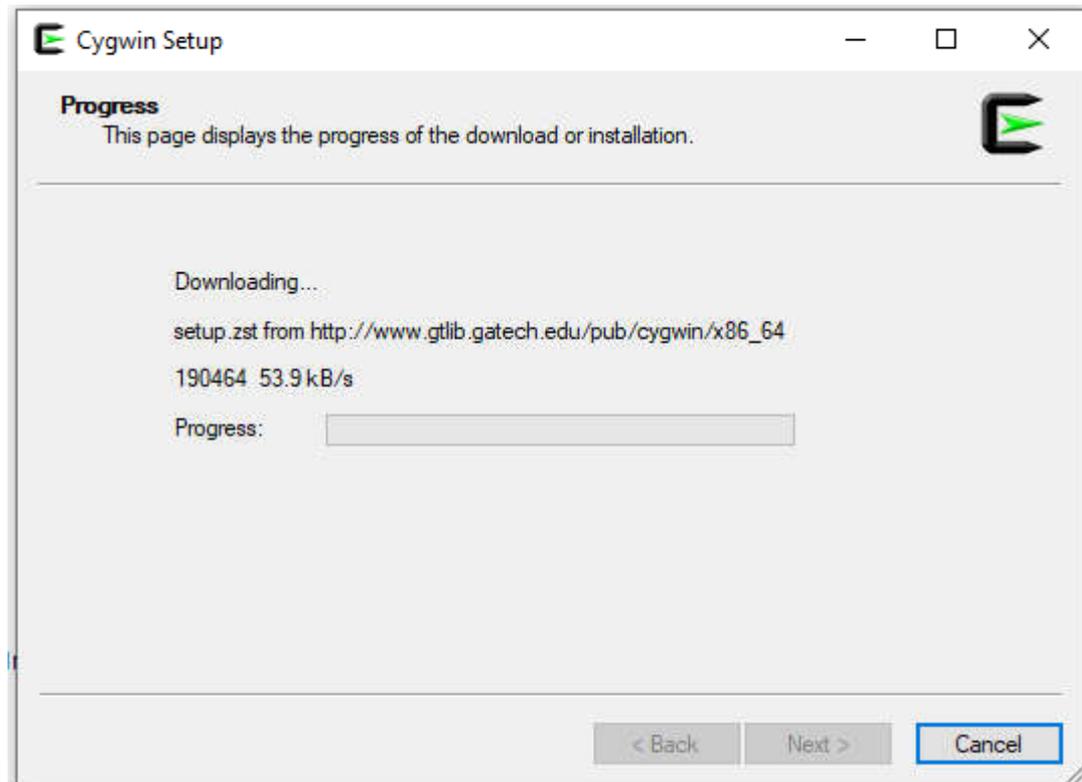
Installing Cygwin – Perl and Make (7)



- In “Choose a Download Site” window,
 - chose “<http://www.gtlib.gatech.edu>”,
 - click “Next >”.

Installing Cygwin – Perl and Make (8)

- The next screen will attempt to download the **package information** from the link we selected.
- Depending on connectivity and availability of Internet ,
 - this can take a few seconds to a couple of minutes.
- Just let it run until we see the next screen.



Select Packages

Select packages to install.

View Search Clear

Package	Current	New	Src?	Categories
<input checked="" type="checkbox"/> All		Default	<input type="checkbox"/>	



Select Packages

Select packages to install.

View Search Clear

Package	Current	New	Src?	Categories
<input checked="" type="checkbox"/> All		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Accessibility (4)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Admin (10)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Archive (74)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Audio (245)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Base (38)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Database (61)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Debug (2171)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Devel (1227)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Doc (265)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Editors (109)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Fonts (4)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Games (107)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> GNOME (172)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Graphics (339)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Interpreters (84)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> KDE (170)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Libs (3140)		Default	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Lua (14)		Default	<input type="checkbox"/>	



Installing Cygwin – Perl and Make (10)

Cygwin Setup - Select Packages

Select Packages

Select packages to install.

View Category Search perl Clear

Package	Current	New	Src?	Categories
⊞ All		Default		

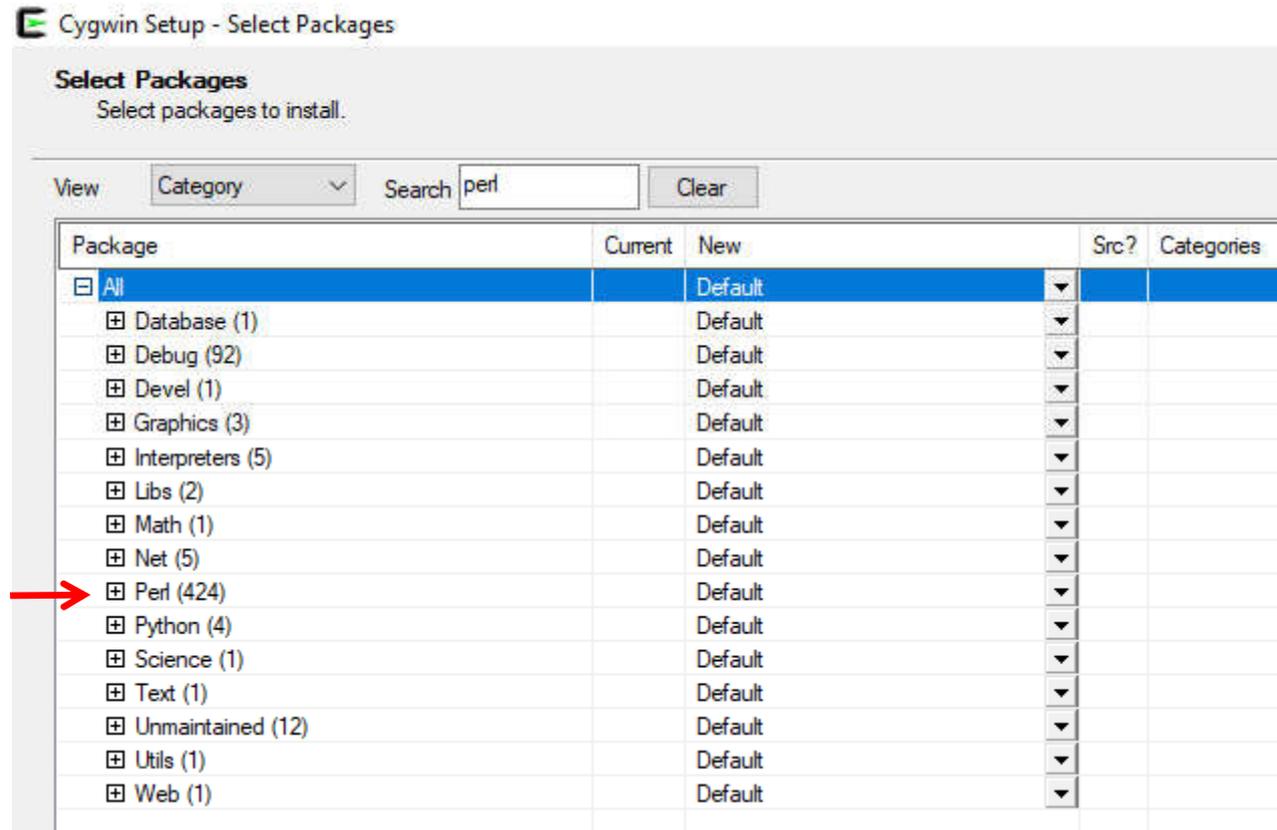
View Category Search perl Clear

Package	Current	New	Src?	Categories
⊞ All		Default		
⊞ Database (1)		Default		
⊞ Debug (92)		Default		
⊞ Devel (1)		Default		
⊞ Graphics (3)		Default		
⊞ Interpreters (5)		Default		
⊞ Libs (2)		Default		
⊞ Math (1)		Default		
⊞ Net (5)		Default		
⊞ Perl (424)		Default		
⊞ Python (4)		Default		
⊞ Science (1)		Default		
⊞ Text (1)		Default		
⊞ Unmaintained (12)		Default		
⊞ Utils (1)		Default		
⊞ Web (1)		Default		

- In “**Select Packages**” window, we will be installing **Perl**.
 - In the search bar in the top, search for “**Perl**”.

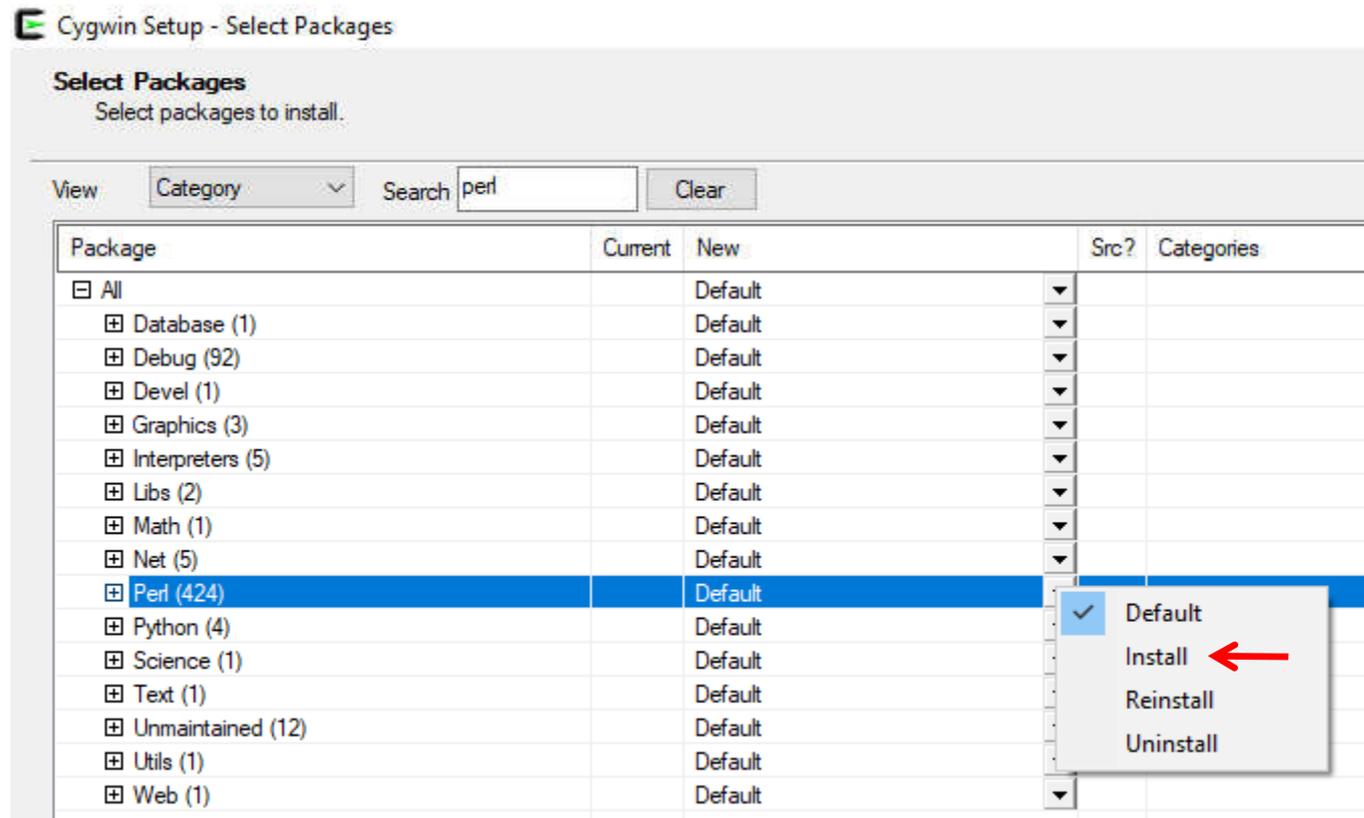
Installing Cygwin – Perl and Make (11)

- From the results look for the “Perl” folder.
- Next to it, and every other folder,
 - we will see an icon and the word “**Default**” next to it.



Installing Cygwin – Perl and Make (12)

- For the “**Perl**” folder,
 - click that icon until it says “**Install**” next to it.
- This will download every package Cygwin has for **Perl**.
- By default,
 - Cygwin installs some **basic packages**.



Installing Cygwin – Perl and Make (13)

 Cygwin Setup - Select Packages

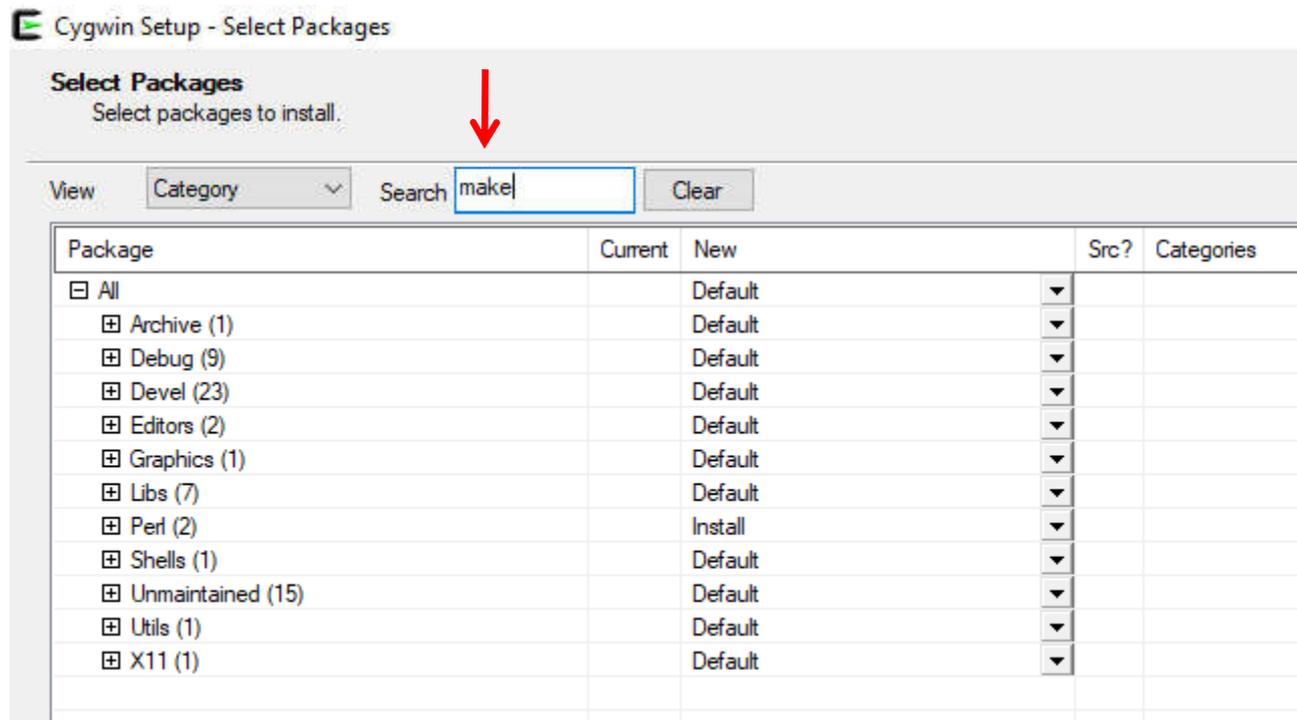
Select Packages
Select packages to install.

View Search

Package	Current	New	Src?	Categories
<input type="checkbox"/> All		Default	▼	
<input type="checkbox"/> Database (1)		Default	▼	
<input type="checkbox"/> Debug (92)		Default	▼	
<input type="checkbox"/> Devel (1)		Default	▼	
<input type="checkbox"/> Graphics (3)		Default	▼	
<input type="checkbox"/> Interpreters (5)		Default	▼	
<input type="checkbox"/> Libs (2)		Default	▼	
<input type="checkbox"/> Math (1)		Default	▼	
<input type="checkbox"/> Net (5)		Default	▼	
<input type="checkbox"/> Perl (424)		Install 	▼	
<input type="checkbox"/> Python (4)		Default	▼	
<input type="checkbox"/> Science (1)		Default	▼	
<input type="checkbox"/> Text (1)		Default	▼	
<input type="checkbox"/> Unmaintained (12)		Default	▼	
<input type="checkbox"/> Utils (1)		Default	▼	
<input type="checkbox"/> Web (1)		Default	▼	

Installing Cygwin – Perl and Make (14)

- Still in “ **Select Packages** ” window,
 - clear the search for “ **Perl** ”
 - and type “ **make** ”.



Installing Cygwin – Perl and Make (15)

- Once we search “**make**”,
 - open the “**Devel**” folder,
 - and go down to “**make**”.

Cygwin Setup - Select Packages

Select Packages

Select packages to install.

View Search Keep

Package	Current	New	Src?	Categories	Size	Description
<input type="checkbox"/> All		Default	▼			
<input type="checkbox"/> Archive (1)		Default	▼			
<input type="checkbox"/> Debug (9)		Default	▼			
<input type="checkbox"/> Devel (23)		Default	▼			
automake		Skip	▼ <input type="checkbox"/>	Devel	3k	Wrapper for multiple versions of Automake
automake1.10		Skip	▼ <input type="checkbox"/>	Devel	698k	(1.10) a tool for generating GNU-compliant Makefiles
automake1.11		Skip	▼ <input type="checkbox"/>	Devel	846k	(1.11) a tool for generating GNU-compliant Makefiles
automake1.12		Skip	▼ <input type="checkbox"/>	Devel	713k	(1.12) a tool for generating GNU-compliant Makefiles
automake1.13		Skip	▼ <input type="checkbox"/>	Devel	755k	(1.13) a tool for generating GNU-compliant Makefiles
automake1.14		Skip	▼ <input type="checkbox"/>	Devel	781k	(1.14) a tool for generating GNU-compliant Makefiles
automake1.15		Skip	▼ <input type="checkbox"/>	Devel	606k	(1.15) a tool for generating GNU-compliant Makefiles
automake1.16		Skip	▼ <input type="checkbox"/>	Devel	647k	(1.16) a tool for generating GNU-compliant Makefiles
automake1.17		Skip	▼ <input type="checkbox"/>	Devel	886k	(1.17) a tool for generating GNU-compliant Makefiles
bmake		Skip	▼ <input type="checkbox"/>	Devel	190k	Portable version of the NetBSD 'make' utility
bmake-extras		Skip	▼ <input type="checkbox"/>	Devel	65k	Portable version of the NetBSD 'make' utility (additional support files)
bmake-extras-python		Skip	▼ <input type="checkbox"/>	Devel	8k	Portable version of the NetBSD 'make' utility (additional python script)
cmake		Skip	▼ <input type="checkbox"/>	Devel	14,047k	Cross-platform makefile generation system
cmake-doc		Skip	▼ <input type="checkbox"/>	Devel	2,354k	Cross-platform makefile generation system (documentation)
cmake-gui		Skip	▼ <input type="checkbox"/>	Devel	2,955k	Cross-platform makefile generation system (GUI)
extra-cmake-modules		Skip	▼ <input type="checkbox"/>	Devel	281k	Extra CMake Modules for KDE
gccmakdep		Skip	▼ <input type="checkbox"/>	Devel	7k	X Makefile dependency tool for GCC
imake		Skip	▼ <input type="checkbox"/>	Devel	37k	X Imake legacy build system
make		Skip	▼ <input type="checkbox"/>	Devel	584k	The GNU version of the 'make' utility ←
makedepend		Skip	▼ <input type="checkbox"/>	Devel	32k	X Makefile dependency tool

Installing Cygwin – Perl and Make (16)

- → Choose GNU version.

Cygwin Setup - Select Packages

Select Packages

Select packages to install.

View Search Keep

Package	Current	New	Src?	Categories	Size	Description
<input type="checkbox"/> All		Default	▼			
<input type="checkbox"/> Archive (1)		Default	▼			
<input type="checkbox"/> Debug (9)		Default	▼			
<input type="checkbox"/> Devel (23)		Default	▼			
automake		Skip	▼ <input type="checkbox"/>	Devel	3k	Wrapper for multiple versions of Automake
automake1.10		Skip	▼ <input type="checkbox"/>	Devel	698k	(1.10) a tool for generating GNU-compliant Makefiles
automake1.11		Skip	▼ <input type="checkbox"/>	Devel	846k	(1.11) a tool for generating GNU-compliant Makefiles
automake1.12		Skip	▼ <input type="checkbox"/>	Devel	713k	(1.12) a tool for generating GNU-compliant Makefiles
automake1.13		Skip	▼ <input type="checkbox"/>	Devel	755k	(1.13) a tool for generating GNU-compliant Makefiles
automake1.14		Skip	▼ <input type="checkbox"/>	Devel	781k	(1.14) a tool for generating GNU-compliant Makefiles
automake1.15		Skip	▼ <input type="checkbox"/>	Devel	606k	(1.15) a tool for generating GNU-compliant Makefiles
automake1.16		Skip	▼ <input type="checkbox"/>	Devel	647k	(1.16) a tool for generating GNU-compliant Makefiles
automake1.17		Skip	▼ <input type="checkbox"/>	Devel	886k	(1.17) a tool for generating GNU-compliant Makefiles
bmake		Skip	▼ <input type="checkbox"/>	Devel	190k	Portable version of the NetBSD 'make' utility
bmake-extras		Skip	▼ <input type="checkbox"/>	Devel	65k	Portable version of the NetBSD 'make' utility (additional support files)
bmake-extras-python		Skip	▼ <input type="checkbox"/>	Devel	8k	Portable version of the NetBSD 'make' utility (additional python script)
cmake		Skip	▼ <input type="checkbox"/>	Devel	14,047k	Cross-platform makefile generation system
cmake-doc		Skip	▼ <input type="checkbox"/>	Devel	2,354k	Cross-platform makefile generation system (documentation)
cmake-gui		Skip	▼ <input type="checkbox"/>	Devel	2,955k	Cross-platform makefile generation system (GUI)
extra-cmake-modules		Skip	▼ <input type="checkbox"/>	Devel	281k	Extra CMake Modules for KDE
gccmakedep		Skip	▼ <input type="checkbox"/>	Devel	7k	X Makefile dependency tool for GCC
imake		Skip	▼ <input type="checkbox"/>	Devel	37k	X Imake legacy build system
make		Skip	▼ <input type="checkbox"/>	Devel	584k	The GNU version of the 'make' utility
makedepend		Skip	▼ <input type="checkbox"/>	Devel	32k	X Makefile dependency tool

Click the icon

until it says “specific version” next to it (e.g., 4.4-1).

The screenshot shows the 'Cygwin Setup - Select Packages' window. At the top, there are buttons for 'make', 'Skip', and 'Devel'. Below the window title, the text 'Select Packages' and 'Select packages to install.' is displayed. A search bar contains the text 'make'. A table lists various packages with columns for Package, Current, New, Src?, Categories, Size, and Description. The 'make' package is highlighted in blue. A context menu is open over the 'make' row, showing options: Uninstall, Skip (checked), 4.4-1 (indicated by a red arrow), 4.4.1-1, and 4.4.1-2.

Package	Current	New	Src?	Categories	Size	Description
automake 1.11		Skip		Devel	846k	(1.11) a tool fi
automake 1.12		Skip		Devel	713k	(1.12) a tool fi
automake 1.13		Skip		Devel	755k	(1.13) a tool fi
automake 1.14		Skip		Devel	781k	(1.14) a tool fi
automake 1.15		Skip		Devel	606k	(1.15) a tool fi
automake 1.16		Skip		Devel	647k	(1.16) a tool fi
automake 1.17		Skip		Devel	886k	(1.17) a tool fi
bmake		Skip		Devel	190k	Portable versi
bmake-extras		Skip		Devel	65k	Portable versi
bmake-extras-python		Skip		Devel	8k	Portable versi
cmake		Skip		Devel	14,047k	Cross-platfom
cmake-doc		Skip		Devel	2,354k	Cross-platfom
cmake-gui		Skip		Devel	2,955k	Cross-platfom
extra-cmake-modules		Skip		Devel	281k	Extra CMake
gccmakedep		Skip		Devel	7k	X Makefile de
imake		Skip		Devel	37k	X Imake lega
make		Skip		Devel	584k	The GNU ver
makedepend		Skip		Devel	32k	X Makefile de
mingw64-i686-qt4-qmake		Skip		Devel	7,326k	Qt4 developr
mingw64-x86_64-qt4-qmake		Skip		Devel	7,330k	Qt4 developr
psl-make-dafsa		Skip		Devel	8k	Public Suffix I
Editors (2)		Default				
Graphics (1)		Default				
Libs (7)		Default				

Installing Cygwin – Perl and Make (18)

- Click the icon
 - until it says “specific version” next to it (e.g., 4.4-1).

make Skip Devel

Cygwin Setup - Select Packages

Select Packages

Select packages to install.

View

Category

Search

make

Clear

Package	Current	New	Src?	Categories	Size	Description
automake 1.11		Skip	<input type="checkbox"/>	Devel	846k	(1.11) a tool for
automake 1.12		Skip	<input type="checkbox"/>	Devel	713k	(1.12) a tool for
automake 1.13		Skip	<input type="checkbox"/>	Devel	755k	(1.13) a tool for
automake 1.14		Skip	<input type="checkbox"/>	Devel	781k	(1.14) a tool for
automake 1.15		Skip	<input type="checkbox"/>	Devel	606k	(1.15) a tool for
automake 1.16		Skip	<input type="checkbox"/>	Devel	647k	(1.16) a tool for
automake 1.17		Skip	<input type="checkbox"/>	Devel	886k	(1.17) a tool for
bmake		Skip	<input type="checkbox"/>	Devel	190k	Portable versio
bmake-extras		Skip	<input type="checkbox"/>	Devel	65k	Portable versio
bmake-extras-python		Skip	<input type="checkbox"/>	Devel	8k	Portable versio
cmake		Skip	<input type="checkbox"/>	Devel	14,047k	Cross-platform r
cmake-doc		Skip	<input type="checkbox"/>	Devel	2,354k	Cross-platform r
cmake-gui		Skip	<input type="checkbox"/>	Devel	2,955k	Cross-platform r
extra-cmake-modules		Skip	<input type="checkbox"/>	Devel	281k	Extra CMake M
gccmakedep		Skip	<input type="checkbox"/>	Devel	7k	X Makefile dep
imake		Skip	<input type="checkbox"/>	Devel	37k	X Imake legacy
make		4.4-1	<input type="checkbox"/>	Devel	572k	The GNU versi
makedepend		Skip	<input type="checkbox"/>	Devel	32k	X Makefile dep
mingw64-i686-qt4-qmake		Skip	<input type="checkbox"/>	Devel, Unmaintained	7,326k	Qt4 developme
mingw64-x86_64-qt4-qmake		Skip	<input type="checkbox"/>	Devel, Unmaintained	7,330k	Qt4 developme
psl-make-dafsa		Skip	<input type="checkbox"/>	Devel	8k	Public Suffix Lis
⊕ Editors (2)		Default	<input type="checkbox"/>			
⊕ Graphics (1)		Default	<input type="checkbox"/>			
⊕ Libs (7)		Default	<input type="checkbox"/>			

Installing Cygwin – Perl and Make (19)

➔ Now, click to choose **GNU version** (see **Yellow** arrow below). And then, click “ **Next >** ”.

 Cygwin Setup - Select Packages

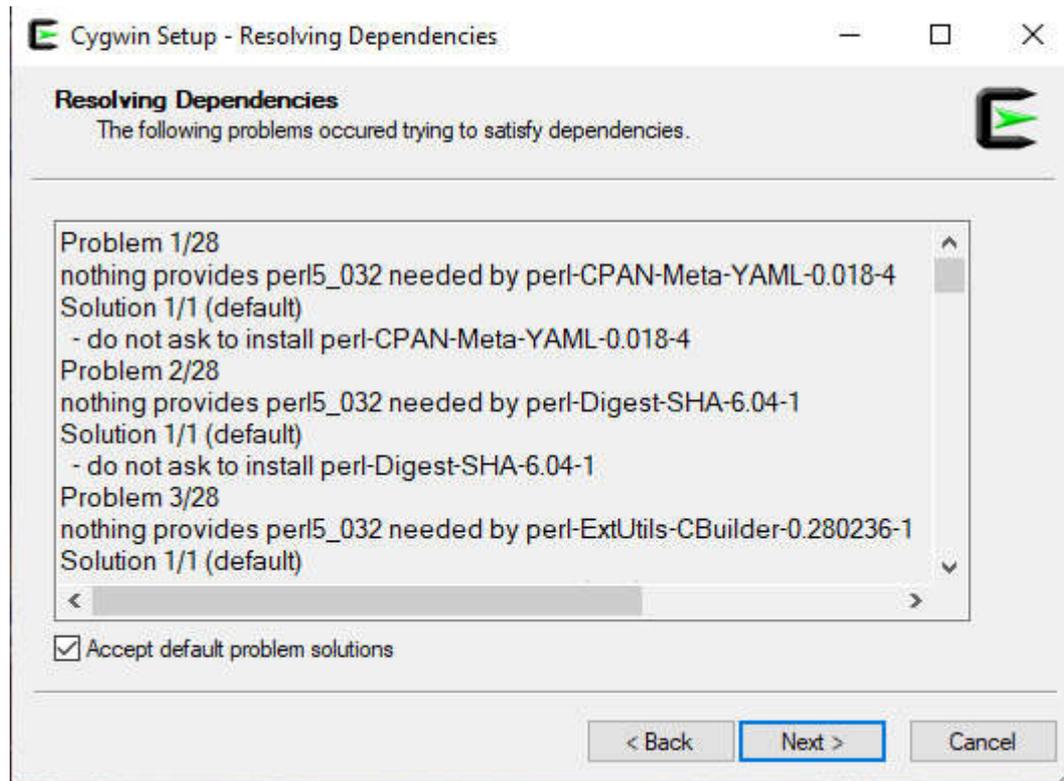
Select Packages
Select packages to install.

View Search

Package	Current	New	Src?	Categories	Size	Description
[-] All		Default	▼			
[-] Archive (1)		Default	▼			
[-] Debug (9)		Default	▼			
[-] Devel (23)		Default	▼			
automake		Skip	▼	<input type="checkbox"/> Devel	3k	Wrapper for multipl
automake 1.10		Skip	▼	<input type="checkbox"/> Devel	698k	(1.10) a tool for ger
automake 1.11		Skip	▼	<input type="checkbox"/> Devel	846k	(1.11) a tool for ger
automake 1.12		Skip	▼	<input type="checkbox"/> Devel	713k	(1.12) a tool for ger
automake 1.13		Skip	▼	<input type="checkbox"/> Devel	755k	(1.13) a tool for ger
automake 1.14		Skip	▼	<input type="checkbox"/> Devel	781k	(1.14) a tool for ger
automake 1.15		Skip	▼	<input type="checkbox"/> Devel	606k	(1.15) a tool for ger
automake 1.16		Skip	▼	<input type="checkbox"/> Devel	647k	(1.16) a tool for ger
automake 1.17		Skip	▼	<input type="checkbox"/> Devel	886k	(1.17) a tool for ger
bmake		Skip	▼	<input type="checkbox"/> Devel	190k	Portable version of
bmake-extras		Skip	▼	<input type="checkbox"/> Devel	65k	Portable version of
bmake-extras-python		Skip	▼	<input type="checkbox"/> Devel	8k	Portable version of
cmake		Skip	▼	<input type="checkbox"/> Devel	14,047k	Cross-platform mak
cmake-doc		Skip	▼	<input type="checkbox"/> Devel	2,354k	Cross-platform mak
cmake-gui		Skip	▼	<input type="checkbox"/> Devel	2,955k	Cross-platform mak
extra-cmake-modules		Skip	▼	<input type="checkbox"/> Devel	281k	Extra CMake Modt
gccmakedep		Skip	▼	<input type="checkbox"/> Devel	7k	X Makefile depend
imake		Skip	▼	<input type="checkbox"/> Devel	37k	X Imake legacy bu
make		4.4-1	▼	<input checked="" type="checkbox"/> Devel	1,827k	The GNU version o
makedepend		Skip	▼	<input type="checkbox"/> Devel	32k	X Makefile depend

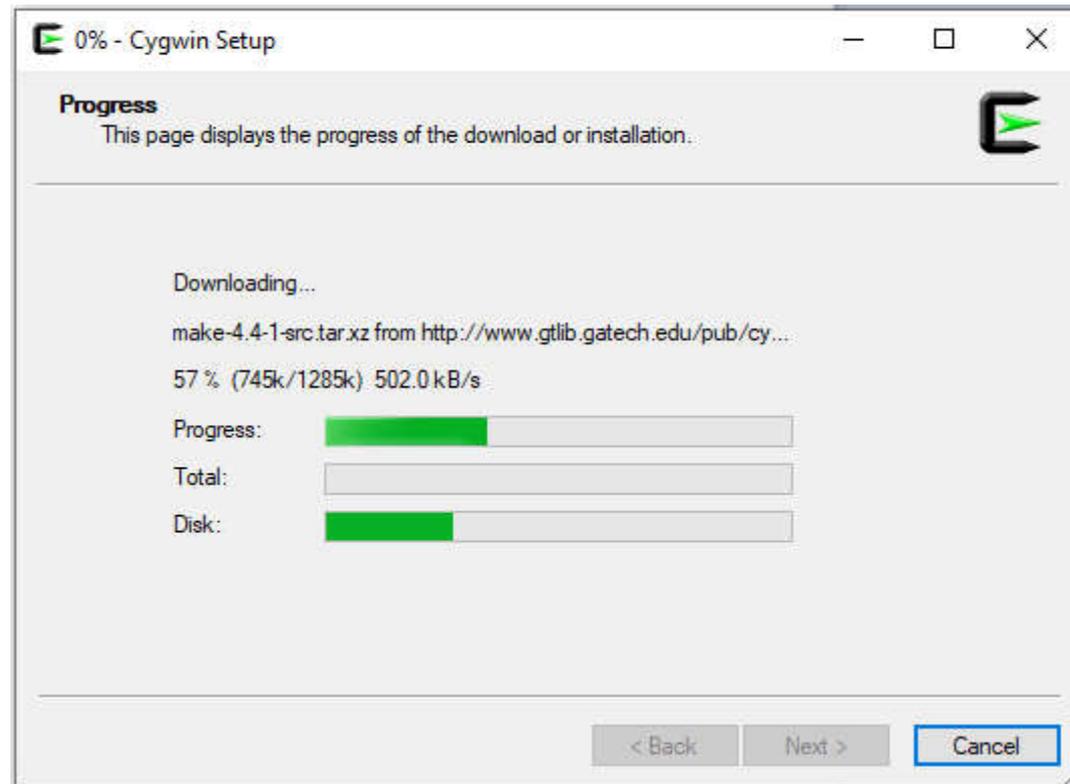
Installing Cygwin – Perl and Make (20)

Next, click “ **Next >** ”.



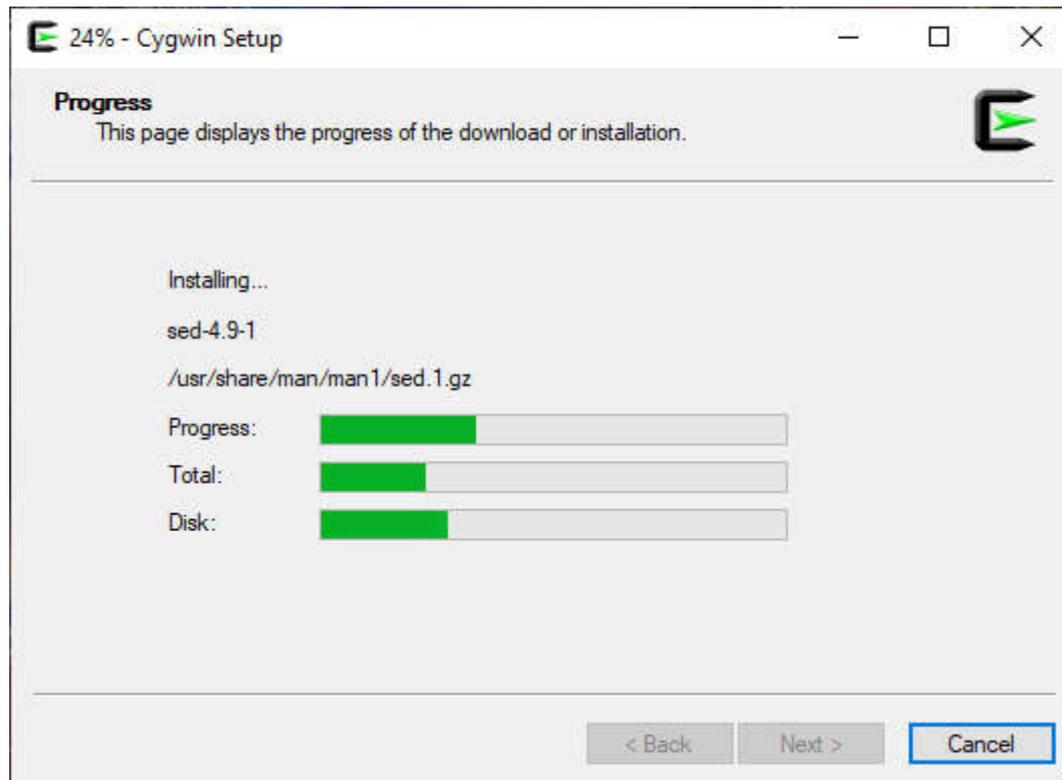
Installing Cygwin – Perl and Make (21)

- **Cygwin** will now download everything it needs to get set up.
- Since this is probably the first time running everything,
 - this can take a while.
- Just wait for downloading.



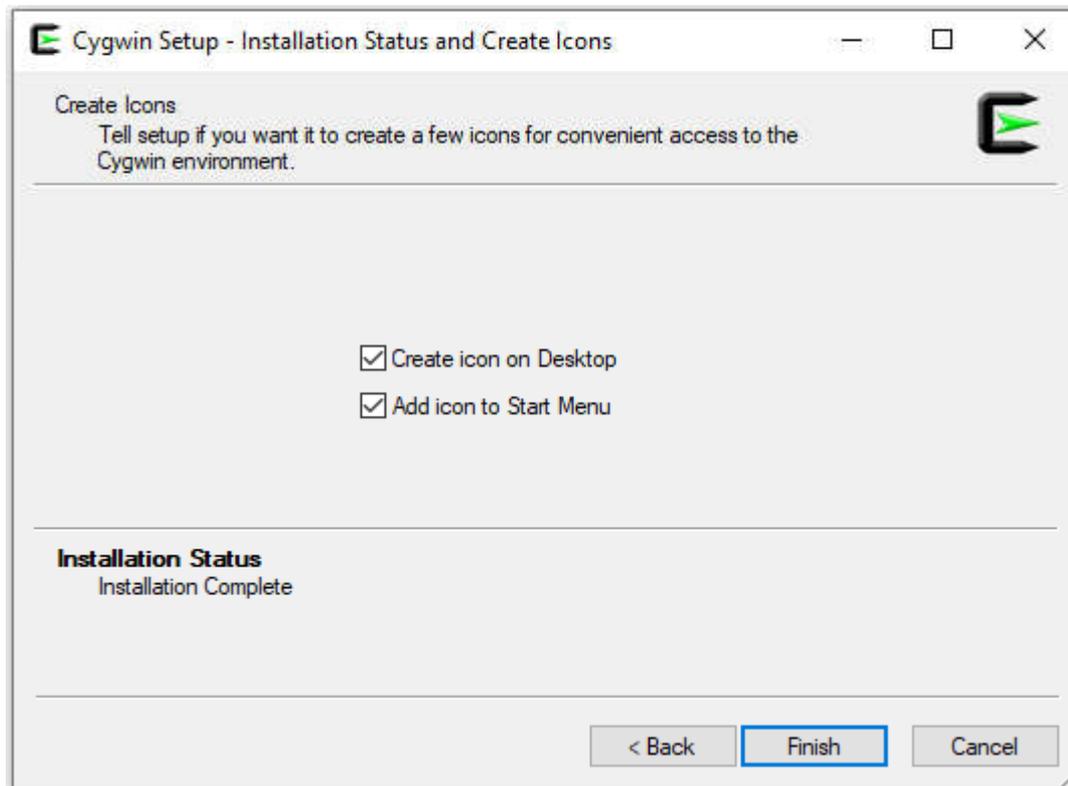
Installing Cygwin – Perl and Make (22)

- And, just wait in turn for installing.

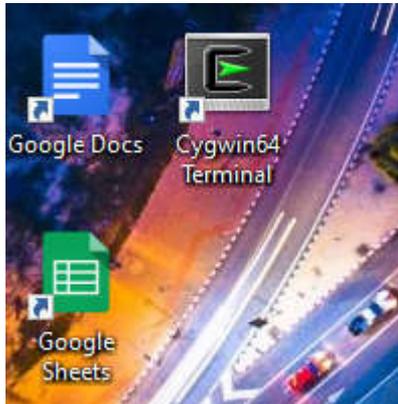


Installing Cygwin – Perl and Make (23)

- Once it is done,
 - We will have the option to create a **shortcut** and the **icon** at **Start Menu**
 - Do it, so we can find it again.
- Now, just click **Finish**.



Make and Perl Installation Verification



Open **Cygwin**.
(see **shortcut**)

- To verify that **make** was installed correctly,
 - type

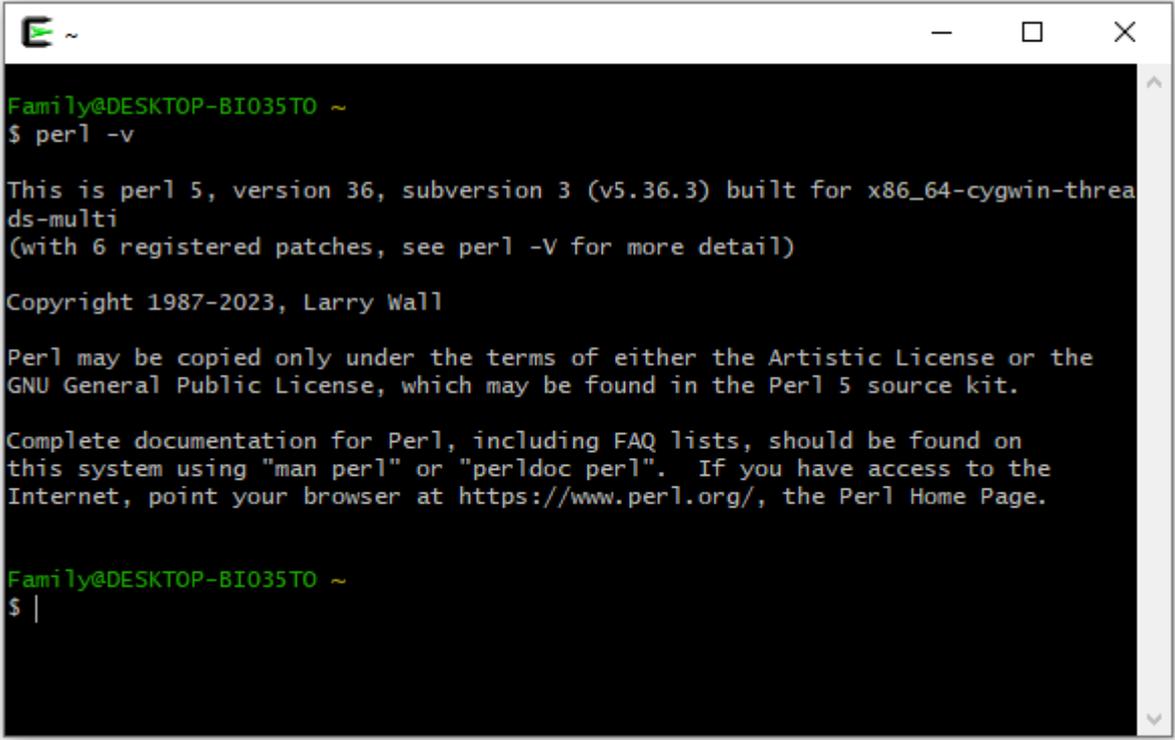
- **make -v**,



```
Family@DESKTOP-BI035TO ~  
Copying skeleton files.  
These files are for the users to personalise their cygwin experience.  
  
They will never be overwritten nor automatically updated.  
  
'./bashrc' -> '/home/Family/.bashrc'  
'./bash_profile' -> '/home/Family/.bash_profile'  
'./inputrc' -> '/home/Family/.inputrc'  
'./profile' -> '/home/Family/.profile'  
  
Family@DESKTOP-BI035TO ~  
$ make -v  
GNU Make 4.4  
Built for x86_64-pc-cygwin  
Copyright (C) 1988-2022 Free Software Foundation, Inc.  
License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>  
This is free software: you are free to change and redistribute it.  
There is NO WARRANTY, to the extent permitted by law.  
  
Family@DESKTOP-BI035TO ~  
$
```

Make and Perl Installation Verification (2)

- To verify that **Perl** was installed correctly,
 - type
 - **perl -v**,



A terminal window titled "Family@DESKTOP-BI035TO ~" with a red arrow pointing to the command prompt. The terminal shows the command `$ perl -v` and its output:

```
Family@DESKTOP-BI035TO ~
$ perl -v

This is perl 5, version 36, subversion 3 (v5.36.3) built for x86_64-cygwin-threads-multi
(with 6 registered patches, see perl -V for more detail)

Copyright 1987-2023, Larry Wall

Perl may be copied only under the terms of either the Artistic License or the
GNU General Public License, which may be found in the Perl 5 source kit.

Complete documentation for Perl, including FAQ lists, should be found on
this system using "man perl" or "perldoc perl".  If you have access to the
Internet, point your browser at https://www.perl.org/, the Perl Home Page.

Family@DESKTOP-BI035TO ~
$ |
```

Thank You