

Cygwin安装

上Cygwin官网下载在线安装包

<https://cygwin.com/index.html>

注意，本安装教程需要您的电脑已联入互联网

The screenshot shows the Cygwin website homepage. On the left is a navigation menu with links like 'Reporting Problems', 'Documentation', and 'Contributing'. The main content area has a header 'This is the home of the Cygwin project' and sections for 'What...', '...is it?', and '...isn't it?'. Below these is a paragraph about the Cygwin DLL and a 'Cygwin version' section. At the bottom, the 'Installing Cygwin' section contains instructions to run 'setup-x86_64.exe' for 64-bit and 'setup-x86.exe' for 32-bit. Red boxes and arrows highlight these file names, with red text at the bottom explaining the choice based on the computer's architecture.

Reporting Problems
Mailing Lists
Newsgroups
IRC channels
Gold Stars
Mirror Sites
Donations

Documentation
FAQ
User's Guide
API Reference
Acronyms

Contributing
Snapshots
Source in Git
Cygwin Packages

Related Sites

This is the home of the Cygwin project

What...

...is it?

Cygwin is:

- a large collection of GNU and Open Source tools which provide functionality similar to a [Linux distribution](#) on Windows.
- a DLL (cygwin1.dll) which provides substantial POSIX API functionality.

...isn't it?

Cygwin is not:

- a way to run native Linux apps on Windows. You must rebuild your application *from source* if you want it to run on Windows.
- a way to magically make native Windows apps aware of UNIX® functionality like signals, ptys, etc. Again, you need to build your apps *from source* if you want to take advantage of Cygwin functionality.

The Cygwin DLL currently works with all recent, commercially released x86 32 bit and 64 bit versions of Windows, starting with Windows Vista. For more information see the [FAQ](#).

Cygwin version

The most recent version of the Cygwin DLL is [2.10.0](#).

Note that Cygwin version [2.5.2](#) was the last version supporting Windows XP and Server 2003. ([Instructions for obtaining that version](#))

Installing Cygwin

Install Cygwin by running [setup-x86_64.exe](#) (64-bit installation) or [setup-x86.exe](#) (32-bit installation)

Use the setup program to perform a [fresh install](#) or to [update](#) an existing installation.

64位电脑选择此版本
后文以此版本为例说明安装过程。

32位电脑选择此版本

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Cygwin version

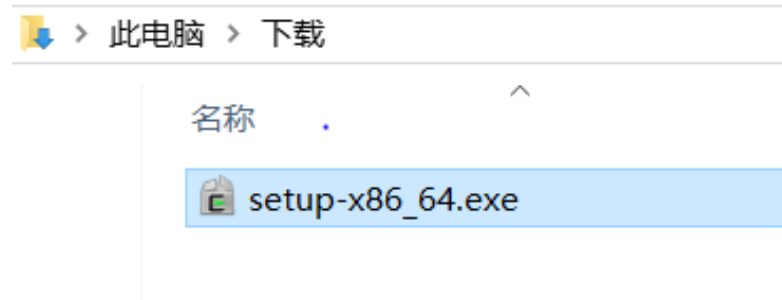
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Installing Cygwin

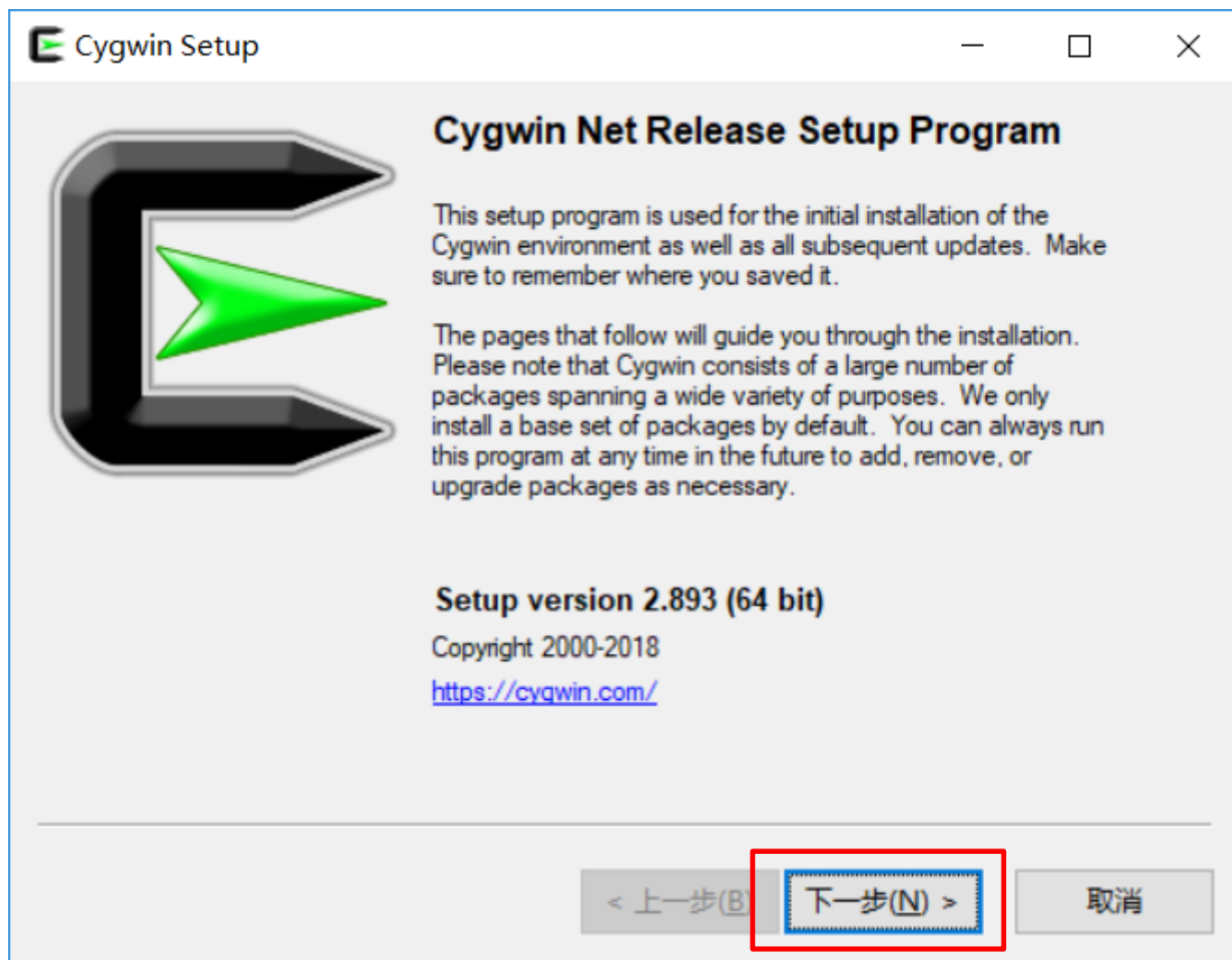
Install Cygwin by running [setup-x86_64.exe](#) (64-bit installation) or [setup-x86.exe](#) (32-bit installation)

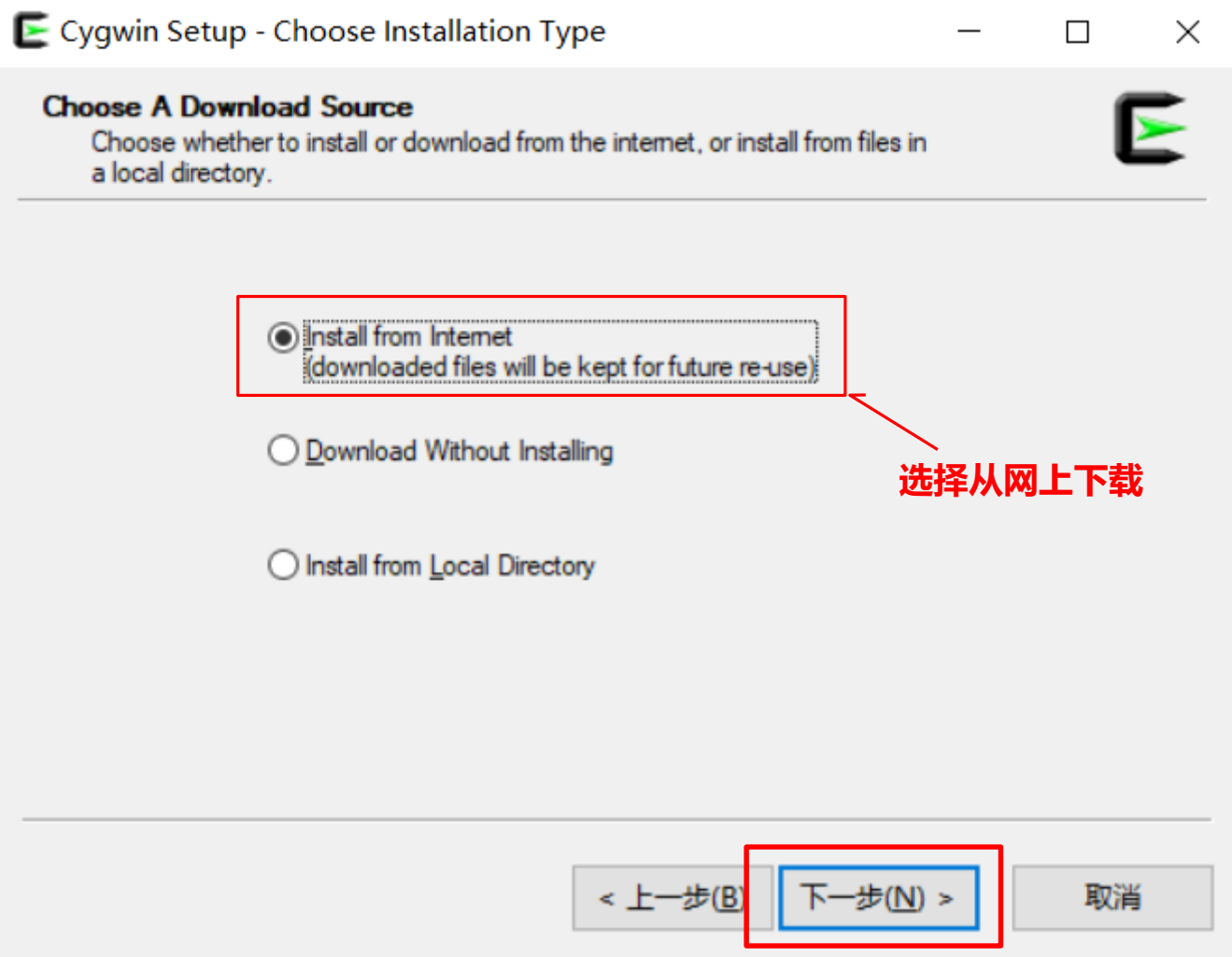
Use the setup program to perform a [fresh install](#) or to [update](#) an existing installation.



安装在线安装包

双击setup-x86_64.exe





Cygwin Setup - Choose Installation Directory

Select Root Install Directory

Select the directory where you want to install Cygwin. Also choose a few installation parameters.



Root Directory

D:\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, but Desktop Icons, Cygwin Menu Entries, and important Installer information are only available to the current user. Only select this if you lack Administrator privileges or if you have specific needs.

选择安装目录

< 上一步(B)

下一步(N) >

取消

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

D:\software

Browse...

选择安装包下载目录

< 上一步(B)

下一步(N) >

取消

Cygwin Setup - Select Connection Type

Select Your Internet Connection

Setup needs to know how you want it to connect to the internet. Choose the appropriate settings below.



☒ Use System Proxy Settings

☐ Direct Connection

☐ Use HTTP/FTP Proxy:

Proxy Host

Port

80

保持默认

< 上一步(B)

下一步(N) >

取消

Cygwin Setup - Choose Download Site(s)

Choose A Download Site

Choose a site from this list, or add your own sites to the list



Available Download Sites:

- <http://cygwin.mirror.constant.com>
- <http://cygwin.mirrors.hoobly.com>
- <http://mirrors.koehn.com>
- <http://mirrors.metapeer.com>
- <https://www.singleboersen.com>
- <http://mirror.team-cymru.com>
- <ftp://mirrors.xmission.com>
- <http://mirrors.xmission.com>
- <http://mirror.clarkson.edu>
- <http://mirror.rit.edu>
- <http://mirror.cs.vt.edu>
- <http://mirror.koddos.net>
- <http://mirror-hk.koddos.net>

选择一个镜像下载网站


User URL:

Add

< 上一步(B)

下一步(N) >

取消

 Cygwin Setup



Progress

This page displays the progress of the download or installation.



Parsing...

http://cygwin.mirror.constant.com/x86_64/setup.xz

19 % (3022k/15367k)

Progress:

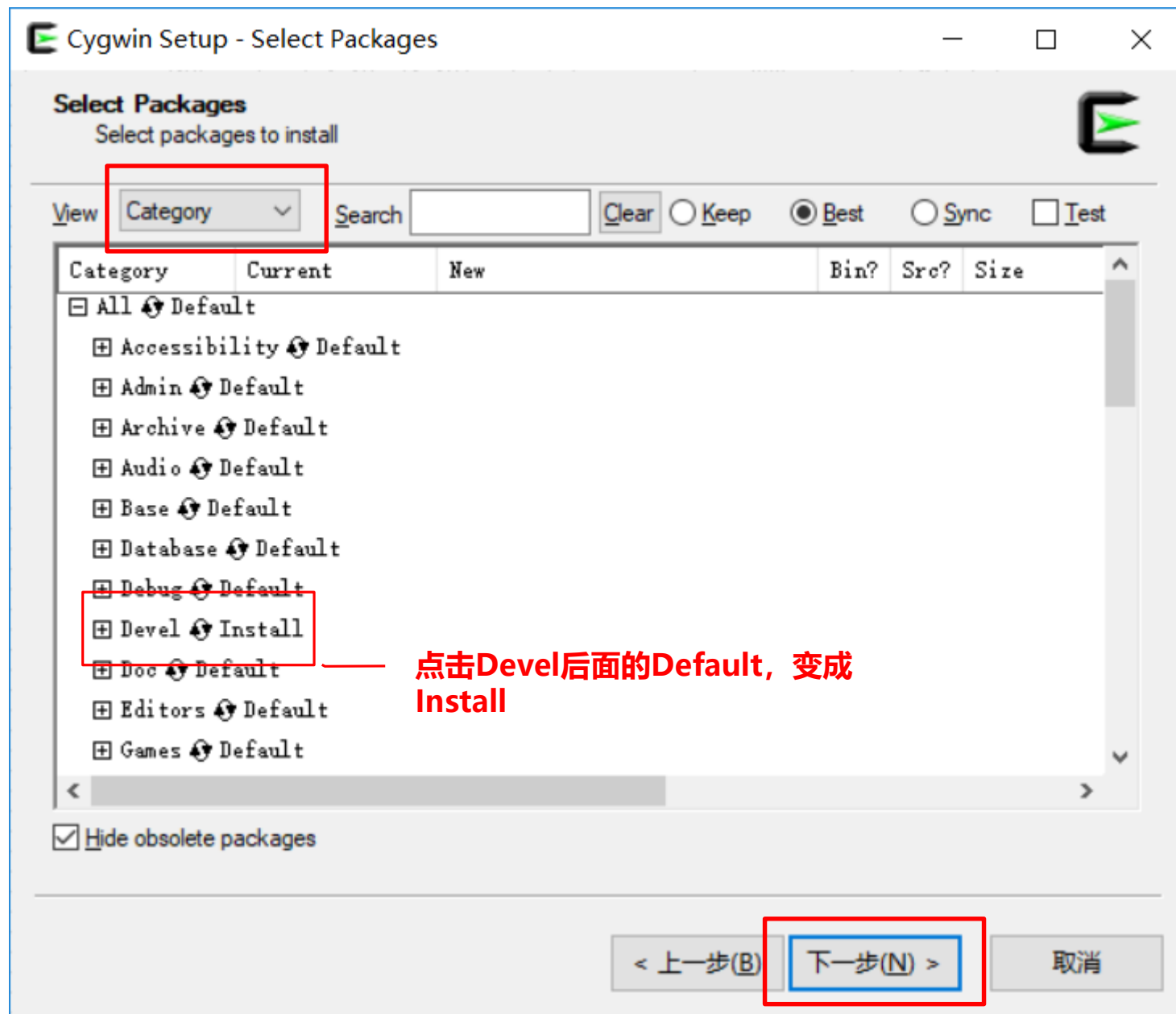
开始下载中...

< 上一步(B)

下一步(N) >

取消

安装包安装好后，自动跳到安装界面



点击Devel前面的+，需确保make安装包已选上

Select Packages

Select packages to install

View Category Search Clear

Category	Current	New	Bin?	Src?	Size	Package
		0.9.10-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	40k	libunistring-devel: Library for manipulating Unicode strings - development
		1.0.4-12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,239k	libustr-devel: Micro string library (devel)
		0.30.2-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,435k	libvala0.30_0: Compiler for the GObject type system
		0.34.8-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,478k	libvala0.34_0: Compiler for the GObject type system
		0.36.4-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,517k	libvala0.36_0: Compiler for the GObject type system
		0.38.8-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	170k	libvala0.38-devel: Compiler for the GObject type system
		0.38.8-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,823k	libvala0.38_0: Compiler for the GObject type system
		1.3.6-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14k	libvorbis-devel: The Vorbis General Audio Compression Codec (Development)
		3.5.12-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	107k	libXpm-noX-devel: X.Org X Pixmap library — no X required (devel)
		17.12.3-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2,366k	lokalize: KDE gettext catalog editor
		0.4.0-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16k	lxqt-build-tools: LXQt build macros
	4.2.1-2	Reinstall	n/a	<input type="checkbox"/>	449k	make: The GNU version of the 'make' utility
		1.0.5-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30k	makedepend: X Makefile dependency tool
		1.20.0-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30k	mate-common: Common development files for MATE Desktop packages
		2.7.2-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	171k	mcpp: C/C++ preprocessor
		1.2.1-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	80k	mdds1.2-devel: C++ multi-dimensional data structure template library
		3.18.0-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	621k	meld: GNOME diff tool for files, directories, and VCS
		4.3.2-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2,801k	mercurial: Python based distributed version control system (DVCS)
		0.47.1-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	534k	meson: Meson is an open source build system
		0.7.4-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	40k	mingw64-i686-a52dec: ATSC A/52 (AC-3) decoder library for Win32 toolchain
		1.4rc5-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	62k	mingw64-i686-aalib: ASCII art library for Win32 toolchain
		3.26.1-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12,862k	mingw64-i686-adwaita-icon-theme: GNOME desktop icon theme for Win32 toolchain
		3.22.3-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	57k	mingw64-i686-adwaita-themes: Default GNOME themes for Win32 toolchain
		0.0.8-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	81k	mingw64-i686-aften: A/52 (AC-3) audio encoder for Win32 toolchain
		2.26.1-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	222k	mingw64-i686-atk1.0: GNOME Accessibility Toolkit library for Win32 toolchain
		2.24.2-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	115k	mingw64-i686-atkmm1.6: ATK C++ bindings for Win32 toolchain
		0.3.6-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	169k	mingw64-i686-audiofile: Digital audio file library for Win32 toolchain
		0.1.28-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	240k	mingw64-i686-babl0.1: Any-to-any pixel format conversion library for Win32 toolchain

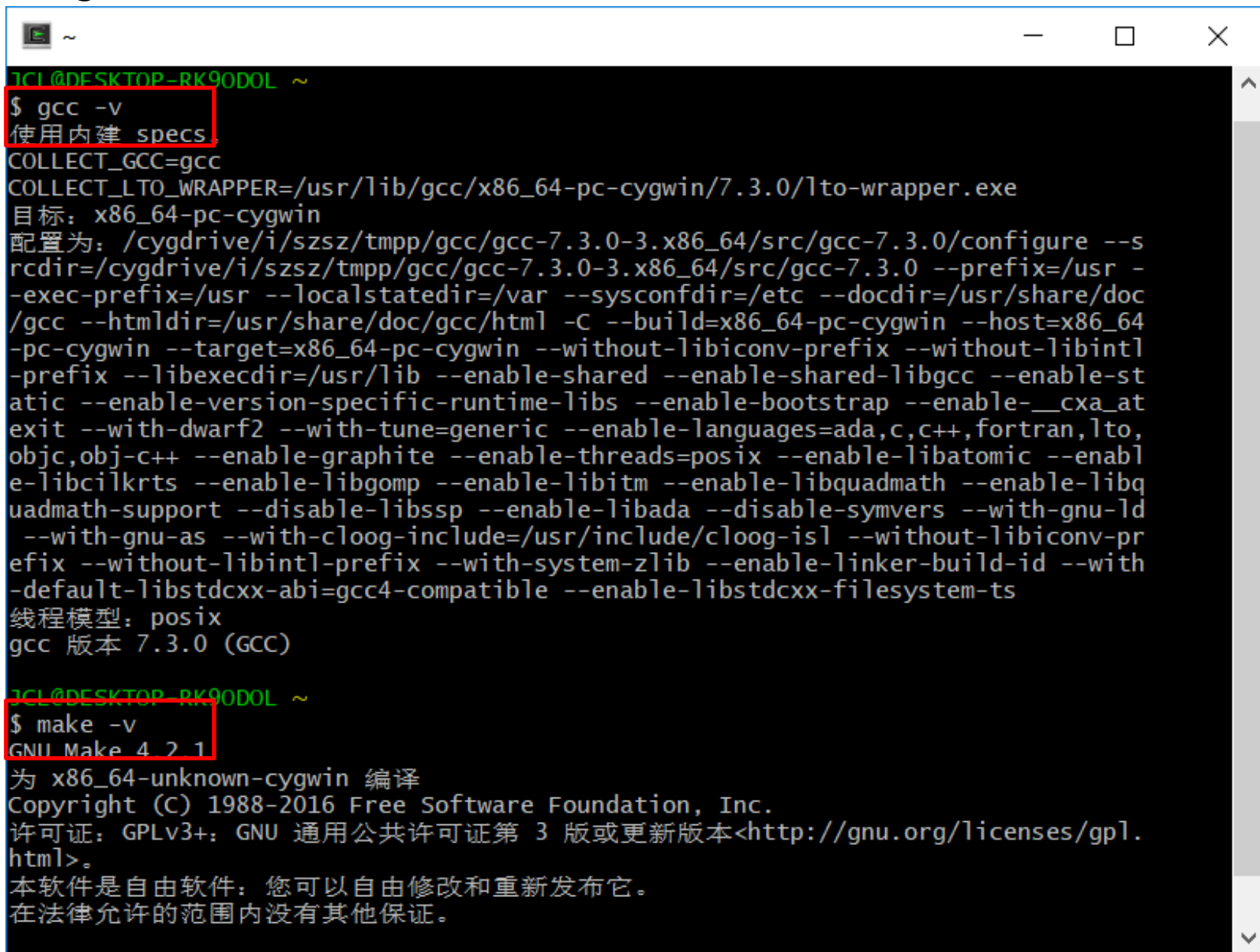
一路下一步，即可安装好cygwin

安装好后，桌面将出现图标：Cygwin64 Terminal



测试cygwin是否安装好，双击图标：Cygwin64 Terminal

分别执行gcc -v 与make -v，将安装版本信息，则表示安装成功。



```
1CL@DESKTOP-RK90D0L ~  
$ gcc -v  
使用内建 specs  
COLLECT_GCC=gcc  
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-pc-cygwin/7.3.0/lto-wrapper.exe  
目标: x86_64-pc-cygwin  
配置为: /cygdrive/i/szsz/tmp/gcc/gcc-7.3.0-3.x86_64/src/gcc-7.3.0/configure --s  
rkdir=/cygdrive/i/szsz/tmp/gcc/gcc-7.3.0-3.x86_64/src/gcc-7.3.0 --prefix=/usr -  
-exec-prefix=/usr --localstatedir=/var --sysconfdir=/etc --docdir=/usr/share/doc  
/gcc --htmldir=/usr/share/doc/gcc/html -C --build=x86_64-pc-cygwin --host=x86_64  
-pc-cygwin --target=x86_64-pc-cygwin --without-libiconv-prefix --without-libintl  
-prefix --libexecdir=/usr/lib --enable-shared --enable-shared-libgcc --enable-st  
atic --enable-version-specific-runtime-libs --enable-bootstrap --enable__cxa_at  
exit --with-dwarf2 --with-tune=generic --enable-languages=ada,c,c++,fortran,lto,  
objc,obj-c++ --enable-graphite --enable-threads=posix --enable-libatomic --enabl  
e-libcilkrts --enable-libgomp --enable-libitm --enable-libquadmath --enable-libq  
uadmath-support --disable-libssp --enable-libada --disable-symvers --with-gnu-ld  
--with-gnu-as --with-cloog-include=/usr/include/cloog-isl --without-libiconv-pr  
efix --without-libintl-prefix --with-system-zlib --enable-linker-build-id --with  
-default-libstdcxx-abi=gcc4-compatible --enable-libstdcxx-filesystem-ts  
线程模型: posix  
gcc 版本 7.3.0 (GCC)  
  
1CL@DESKTOP-RK90D0L ~  
$ make -v  
GNU Make 4.2.1  
为 x86_64-unknown-cygwin 编译  
Copyright (C) 1988-2016 Free Software Foundation, Inc.  
许可证: GPLv3+; GNU 通用公共许可证第 3 版或更新版本<http://gnu.org/licenses/gpl.  
html>。  
本软件是自由软件：您可以自由修改和重新发布它。  
在法律允许的范围内没有其他保证。
```

Thank you !