

Installing HTK on Cygwin

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Setup Cygwin

Cygwin

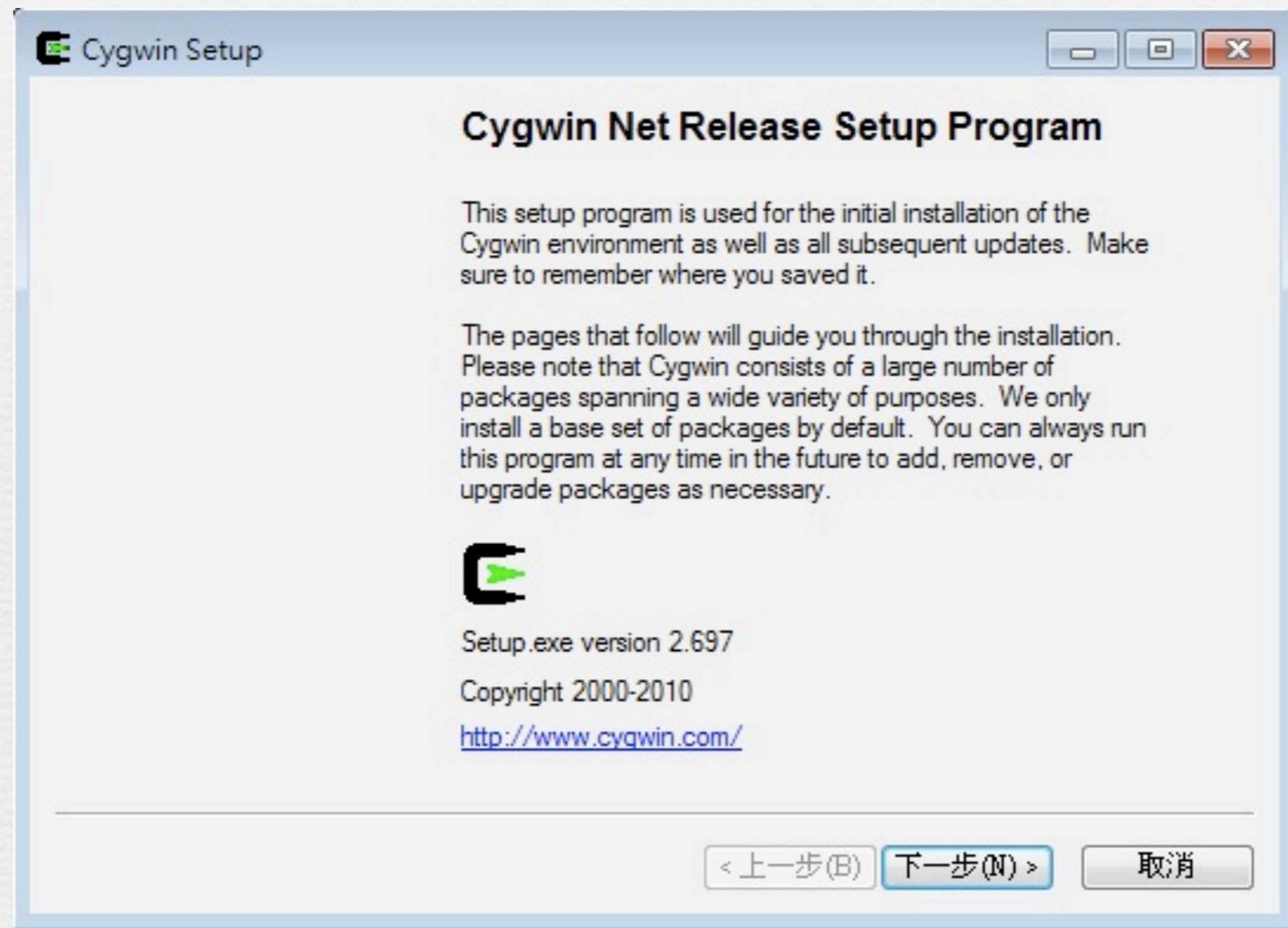
❖ What Is Cygwin?

- ❖ Cygwin is a Linux-like environment for Windows

❖ What Isn't Cygwin?

- ❖ Cygwin is not a way to run native linux apps on Windows.
- ❖ Cygwin is not a way to magically make native Windows apps aware of UNIX ® functionality, like signals, ptys, etc.

Download & Run

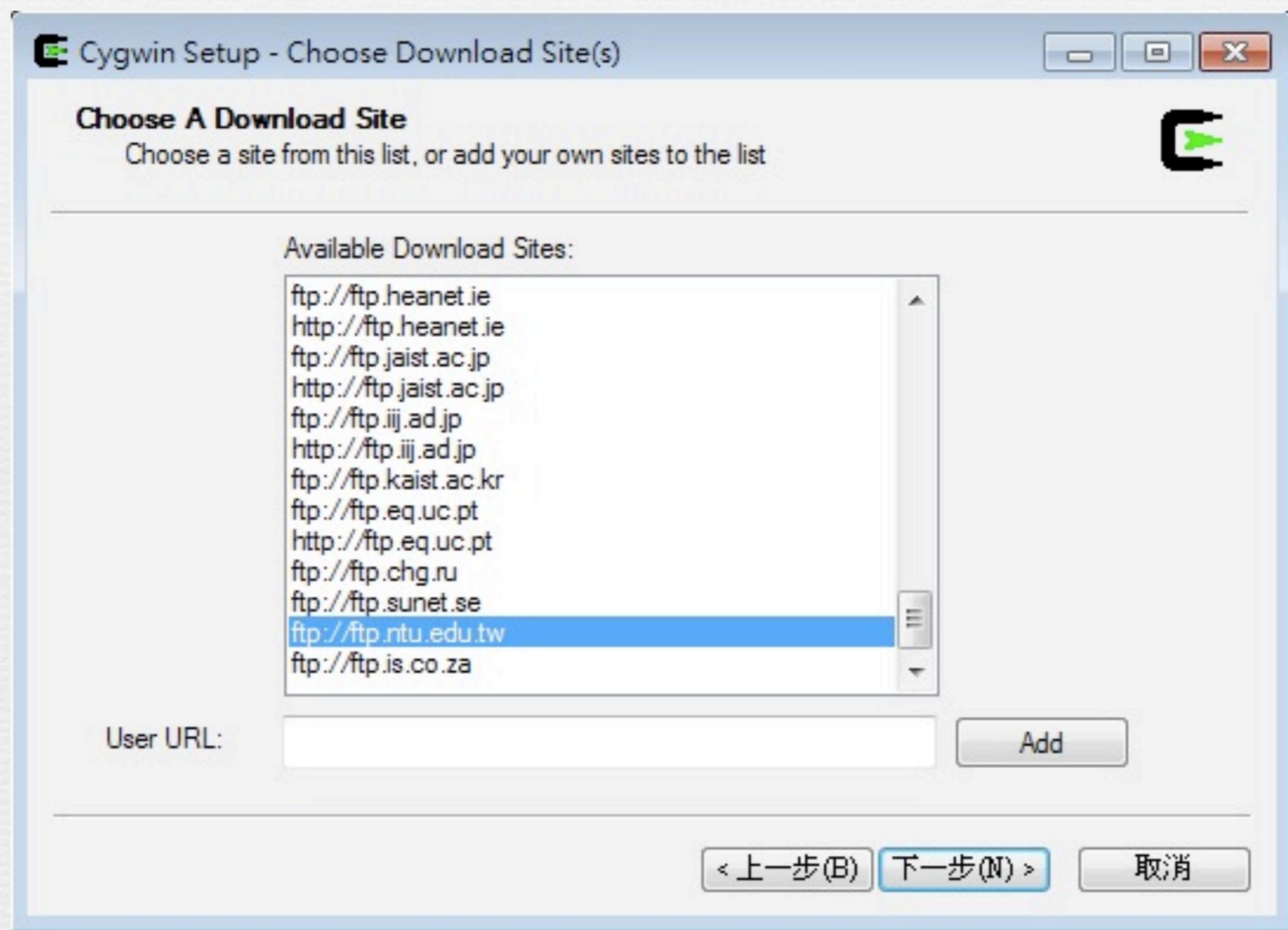


❖ <http://www.cygwin.com/setup.exe>

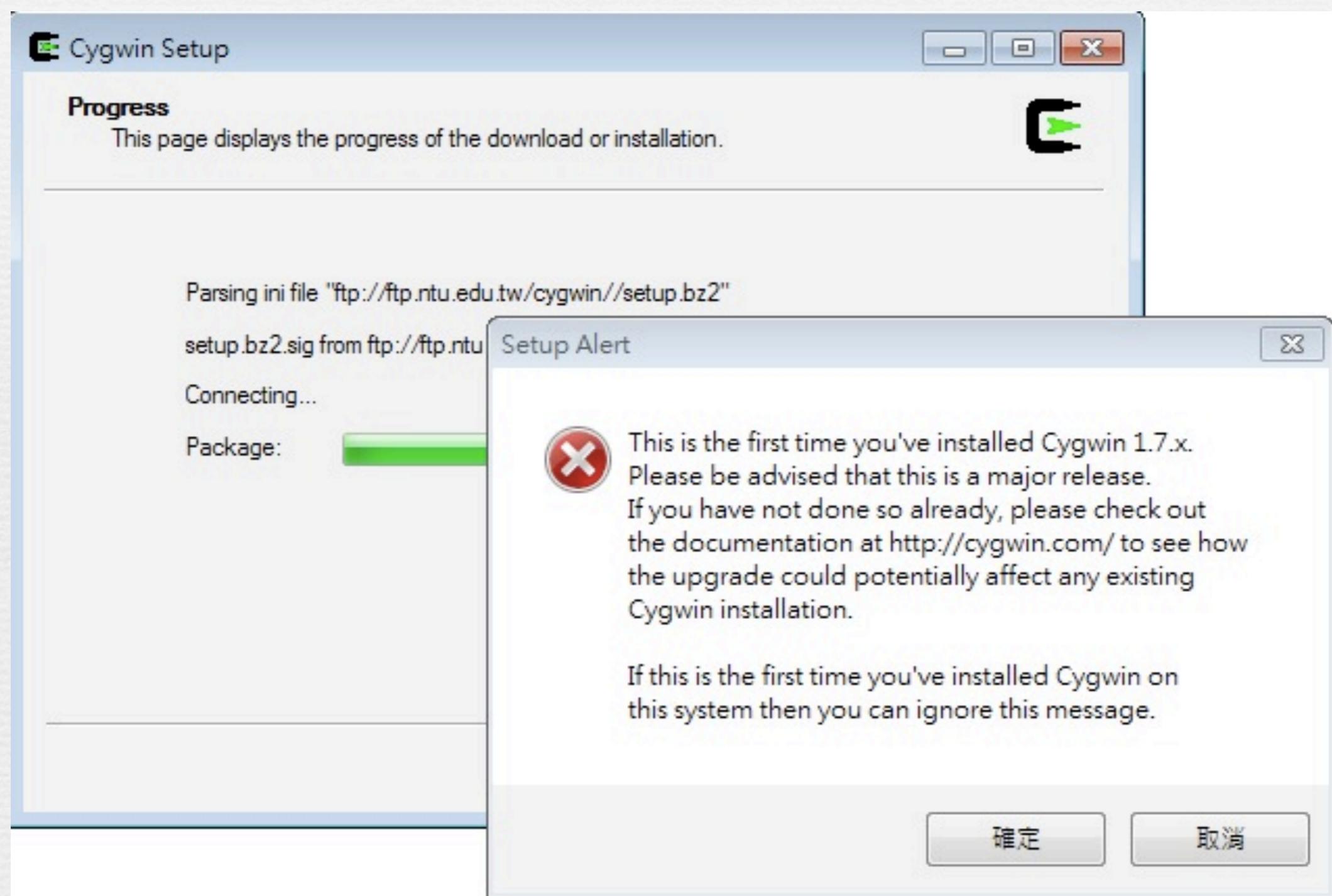
Then...

- ❖ Choose A Download Source
 - ❖ Install from Internet
- ❖ Select Root Install Directory
 - ❖ C:\cygwin
- ❖ Select Local Package Directory
 - ❖ C:\tmp
- ❖ Yes
- ❖ Select Your Internet Connection
 - ❖ Direct Connection

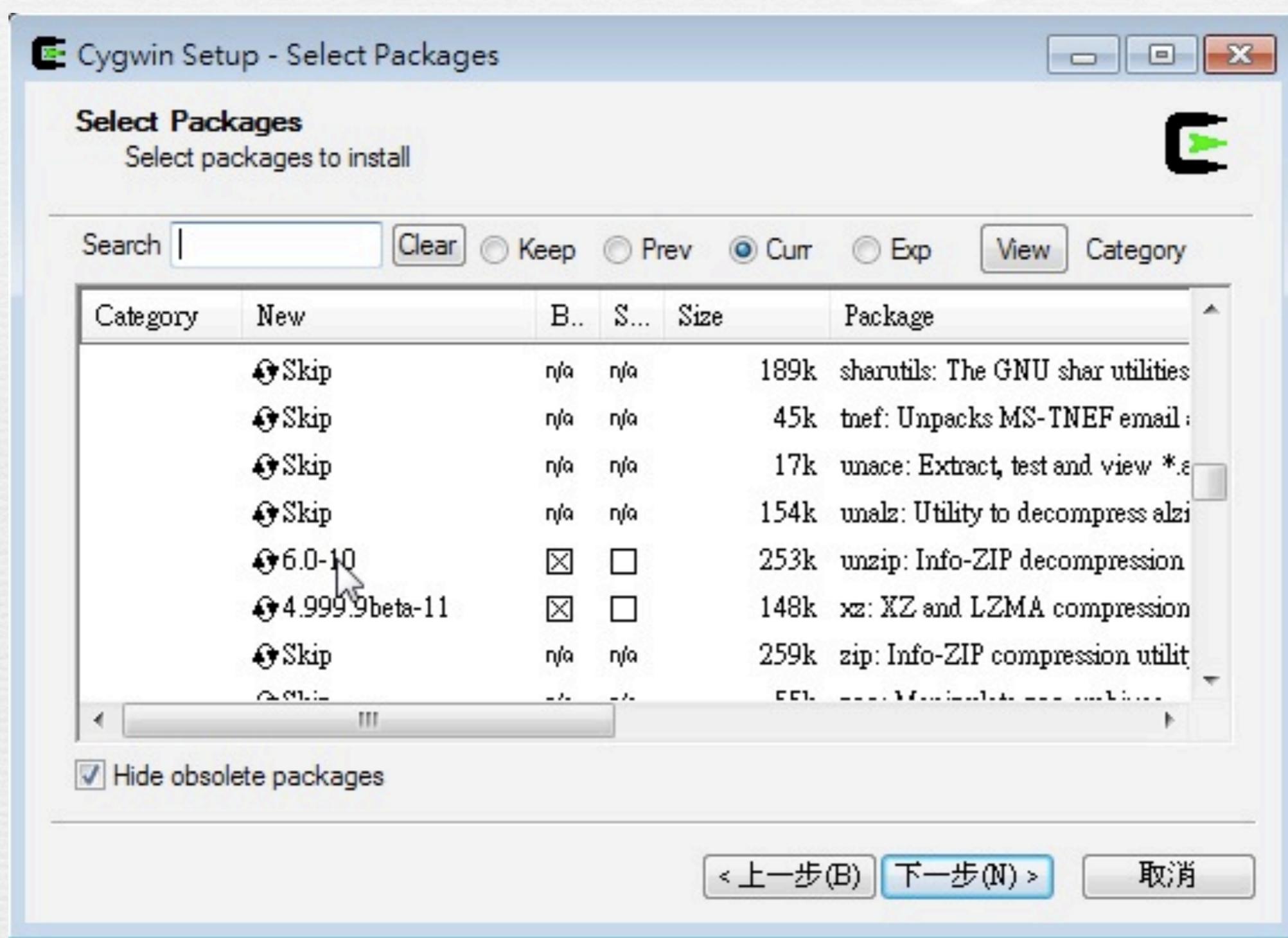
Download Site



Skip Alert



Select Packages



Suggest List - 1

❖ Archive

- ❖ unzip : decompressing *.zip
- ❖ zip : compressing *.zip

❖ Devel

- ❖ ctags : help you create tag file to trace code
- ❖ gcc : c and c++ compiler
- ❖ make : as important as gcc

Suggest List - 2

- ❖ Editors

- ❖ vim : I prefer vim, but you can use any editor you like

- ❖ Net

- ❖ openssh : when you want copy files from workstation to your local system, scp, sftp is usefull commands

- ❖ Perl

- ❖ perl : powerful string and hash library
 - ❖ perl_manpages : man pages for perl

Suggest List - 3

- ❖ Shell
 - ❖ tcsh : default shell in cygwin is bash, but SRILM will use csh
- ❖ Web
 - ❖ wget : when you want download files from internet to your current directory, this is useful

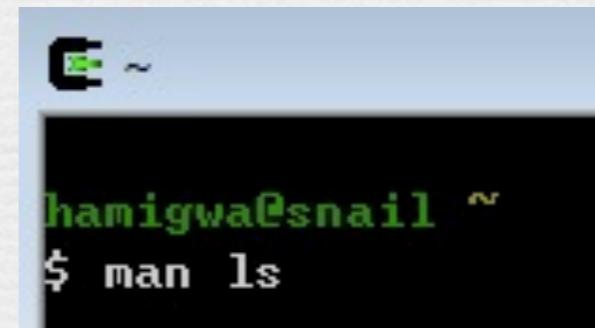
How to use linux cmds?

~ Google !



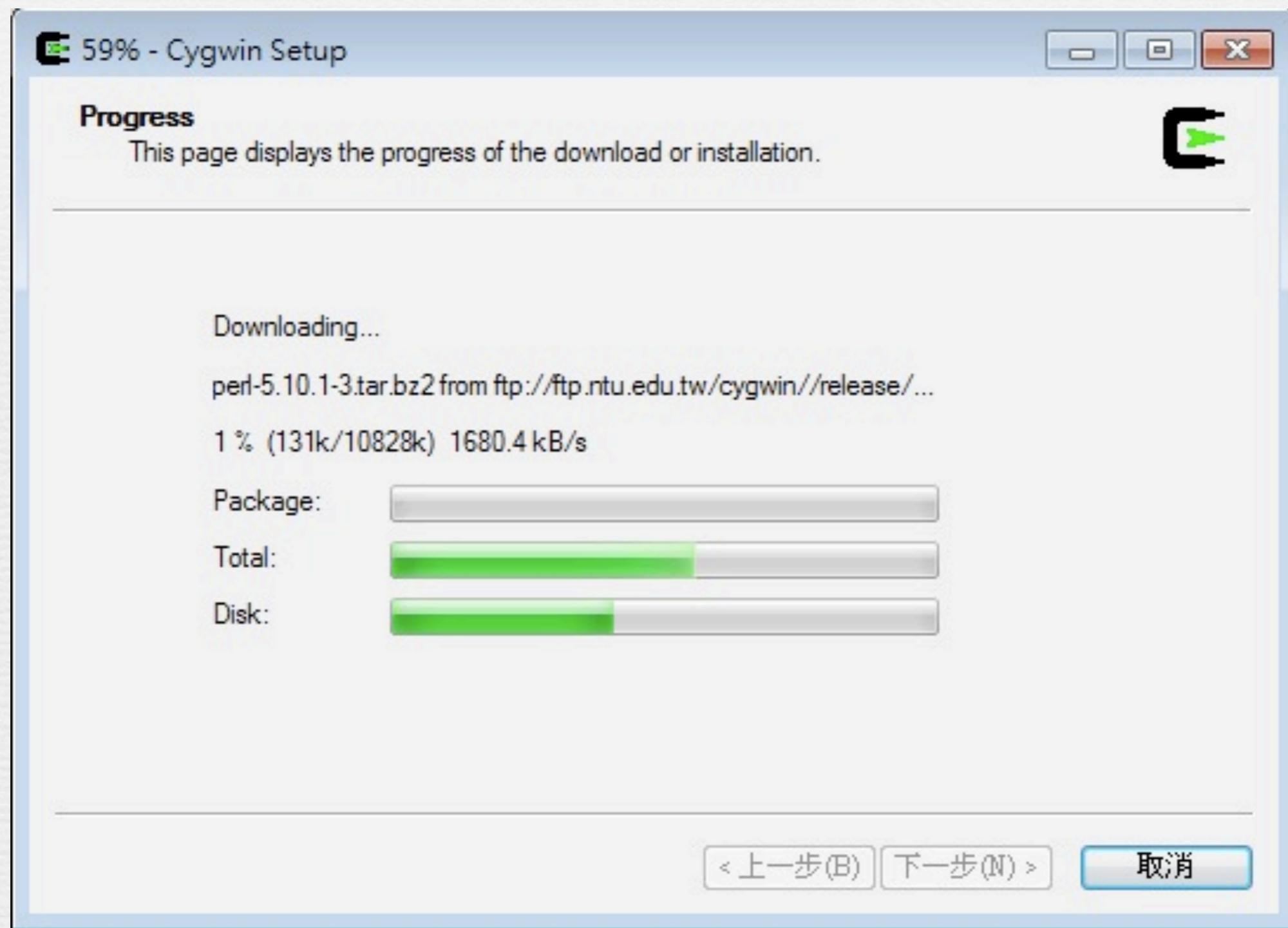
~ Man is your best friend!!

~ to search and to quit



~ 烏哥的 Linux 私房菜 <http://linux.vbird.org/>

Waiting for Installing...



Folders

- ❖ Root:

- ❖ C:\cygwin

- ❖ Execute files:

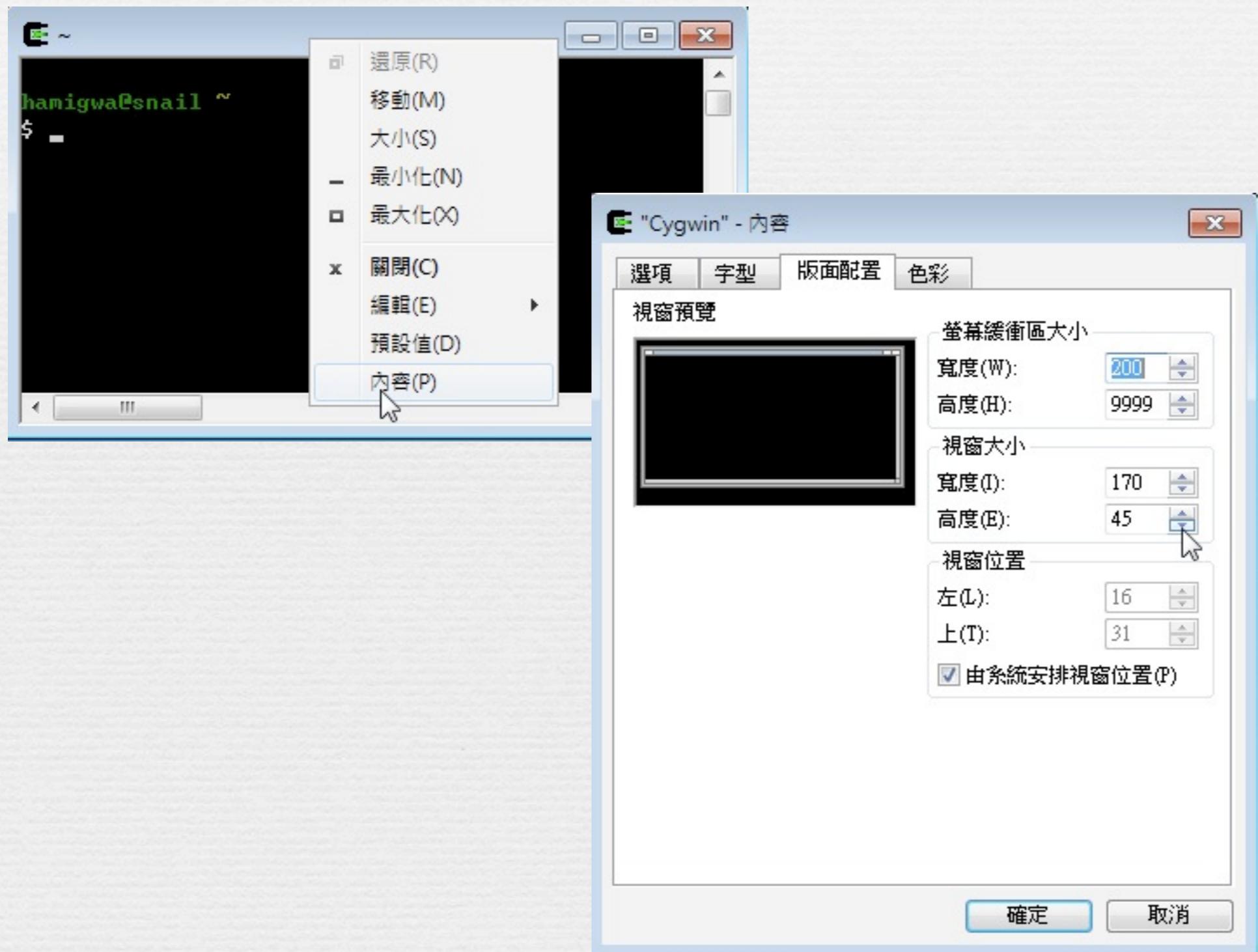
- ❖ C:\cygwin\bin

- ❖ Home:

- ❖ If your win login name is “hamigwa”

- ❖ C:\cygwin\home\hamigwa

Window Size



Copy & Paste

~ Copy

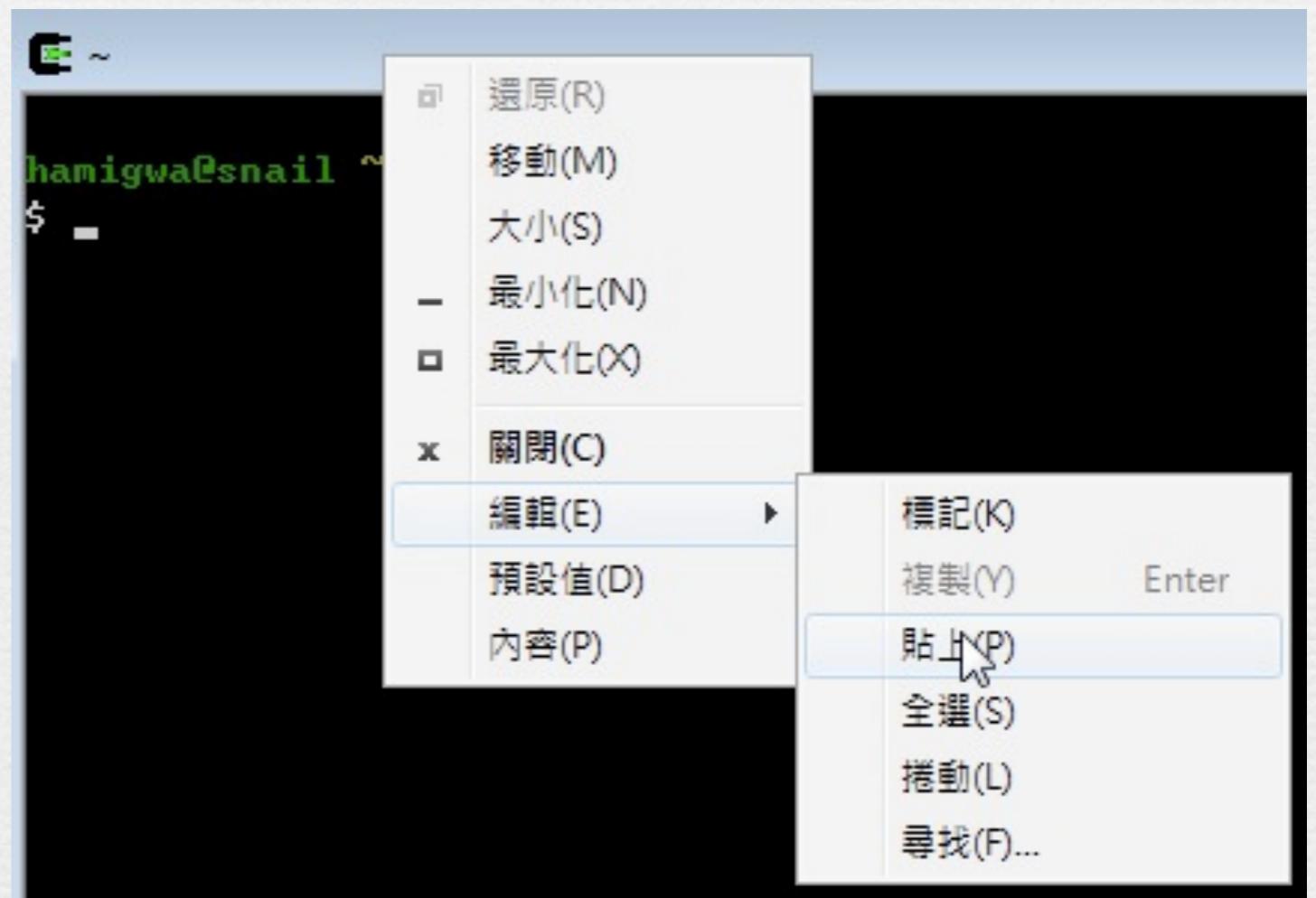
~ click 標記

~ Select text sections

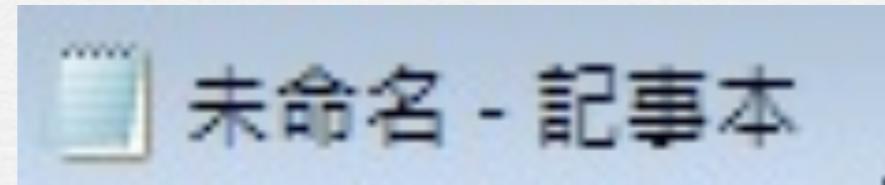
~ mouse right click

~ Paste

~ click 貼上



Vim

- ~ You could use 
- ~ or use VIM !!

- ~ Download .vimrc

```
hamigwa@snail ~
$ wget http://w.csie.org/~r98922053/.vimrc
```

- ~ <http://edt1023.sayya.org/vim/node1.html>

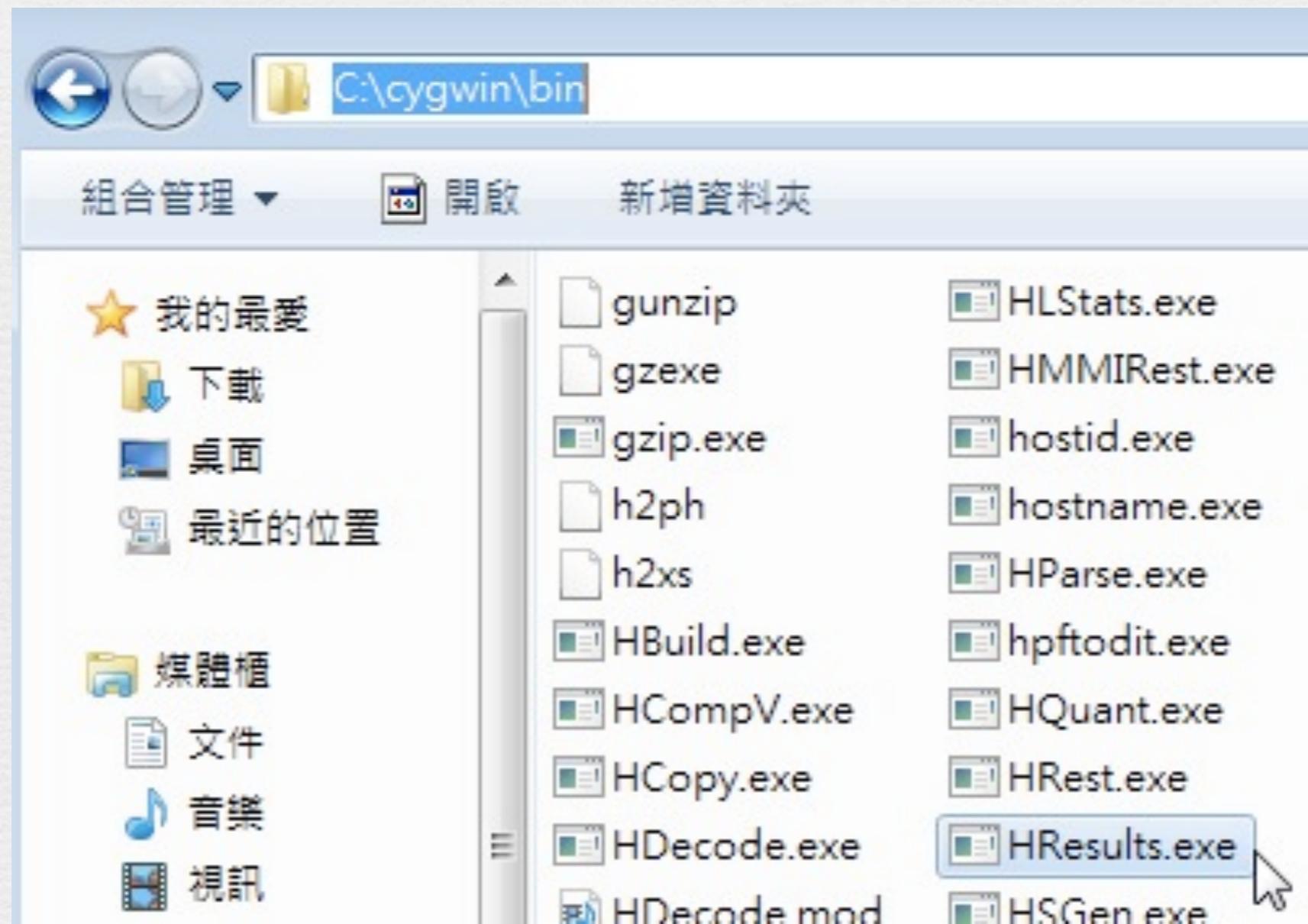


```
1 #include <iostream>
2
3 int main()
4 {
5     std::cout << "Hello, World!!" << std::endl;
6 }
7
8 return 0;
```

HTK

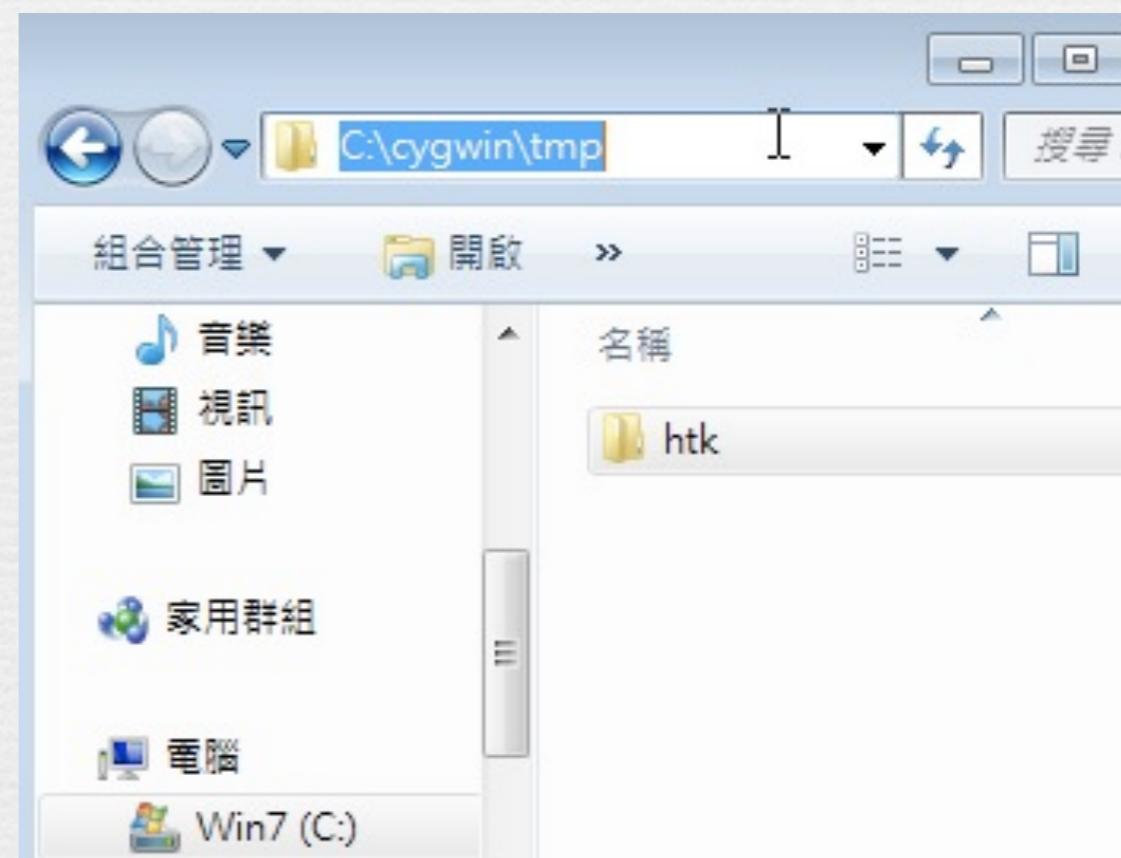
Installing HTK - 1

- ❖ Copy binary(*.exe) files to C:\cygwin\bin
 - ❖ From : [htk341_win32.zip](#)



Installing HTK - 2

- ❖ Or Compile it yourself!!
- ❖ Unzip files
 - ❖ unzip HTK-3.4.1.zip
 - ❖ unzip HDecode-3.4.1.zip
- ❖ Move folder htk to
 - ❖ C:\cygwin\tmp



Compiling HTK - 1

- ❖ cd /tmp/htk

```
hamigwa@snail ~
$ cd /tmp/htk/
```

- ❖ edit ./HTKTools/Makefile.in

```
hamigwa@snail /tmp/htk
$ vim HTKTools/Makefile.in
```

❖ From

```
57      if [ x$@ = xHSLab ] ; then \
58          $<CC> -o $@ $<CFLAGS> $^ $<LDFLAGS> -lX11 ; \
59      else \
60          $<CC> -o $@ $<CFLAGS> $^ $<LDFLAGS> ; fi
61      if [ x_XTRADHTK@ = x_yes ] ; then $<INSTALL> -m 755 $@ $<bindir> ; fi
62
```

❖ To

```
57      $<CC> -o $@ $<CFLAGS> $^ $<LDFLAGS>
58      if [ x_XTRADHTK@ = x_yes ] ; then $<INSTALL> -m 755 $@ $<bindir> ; fi
```

- ❖ cp ./HTKLib/HGraf.c ./HTKLib/HGraf.c.copy

```
hamigwa@snail /tmp/htk
$ cp ./HTKLib/HGraf.c ./HTKLib/HGraf.c.copy
```

- ❖ cp ./HTKLib/HGraf.null.c ./HTKLib/HGraf.c

```
hamigwa@snail /tmp/htk
$ cp ./HTKLib/HGraf.null.c ./HTKLib/HGraf.c
```

Compiling HTK - 2

- ❖ ./configure --prefix=/usr
- ❖ make all
- ❖ make install
- ❖ make hdecode
- ❖ make install-hdecode

```
hamigwa@snail /tmp/htk
$ ./configure --prefix=/usr
hamigwa@snail /tmp/htk
$ make all_
hamigwa@snail /tmp/htk
$ make install_
hamigwa@snail /tmp/htk
$ make hdecode_
hamigwa@snail /tmp/htk
$ make install-hdecode
```

Testing

```
hamigwa@snail /tmp/htk  
$ HResults
```

USAGE: HResults [options] labelList recFiles...

Option	Default
-a s	Redefine string level label
-b s	Redefine unitlevel label
-c	Ignore case differences
-d N	Find best of N levels
-e s t	Label t is equivalent to s
-f	Enable full results

Question?