

Windows Cygwin 安裝及操作教學

AsrLab

1. 進入下面網頁連結下載 Cygwin 安裝檔

<https://www.cygwin.com/>

This is the home of the Cygwin project

What...

...is it?	...isn't it?
<p>Cygwin is:</p> <ul style="list-style-type: none">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.	<p>Cygwin is not:</p> <ul style="list-style-type: none">a way to run native Linux apps on Windows. You must rebuild your application <i>from source</i> 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 <i>from source</i> 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](#).

NOTE: As [previously announced](#), Cygwin version [2.5.2](#) was the last version supporting Windows XP and Server 2003. ([Instructions for obtaining that version](#))

Current Cygwin DLL version

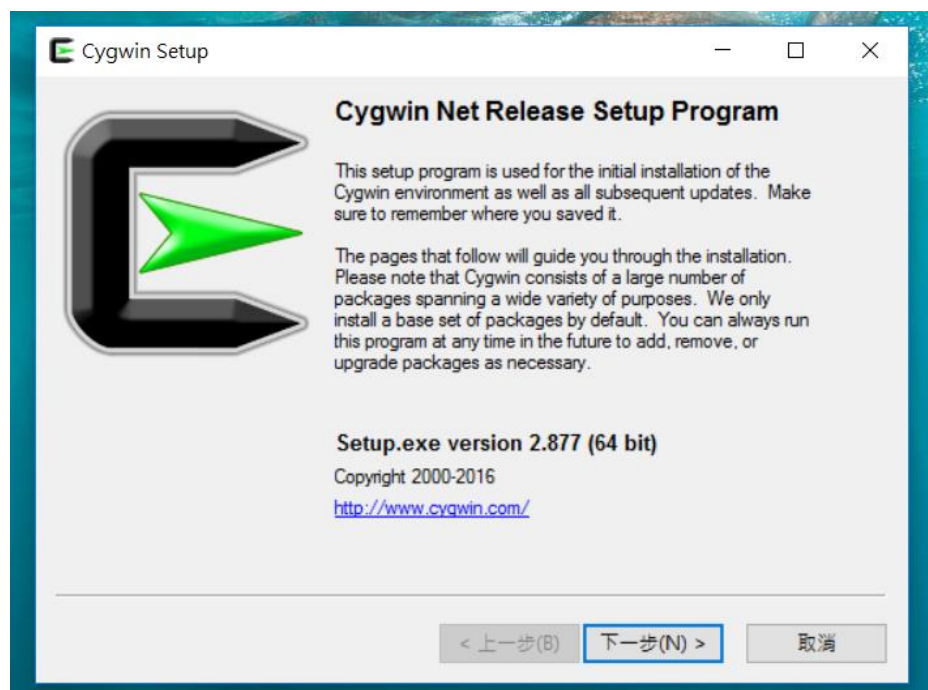
The most recent version of the Cygwin DLL is [2.7.0](#). Install it by running [setup-x86.exe](#) (32-bit installation) or [setup-x86_64.exe](#) (64-bit installation).

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

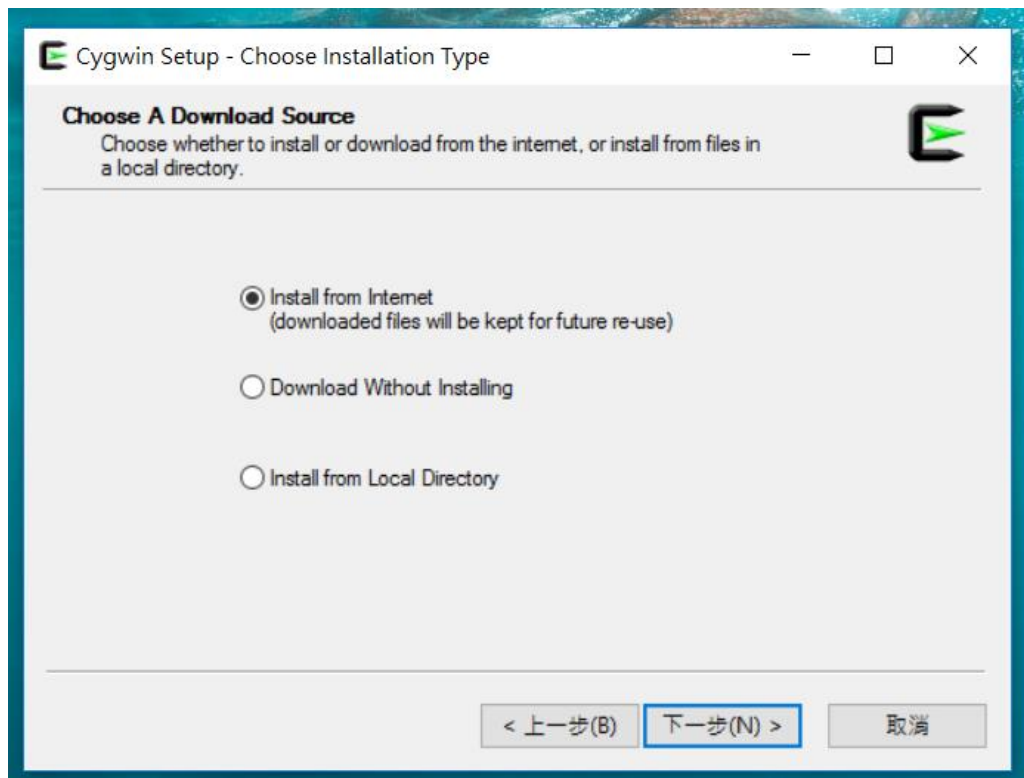
Note that individual packages in the distribution are updated separately from the DLL so the Cygwin DLL version is not useful as a general Cygwin distribution release number.

(32bit 左邊下載連結，64bit 右邊下載連結)

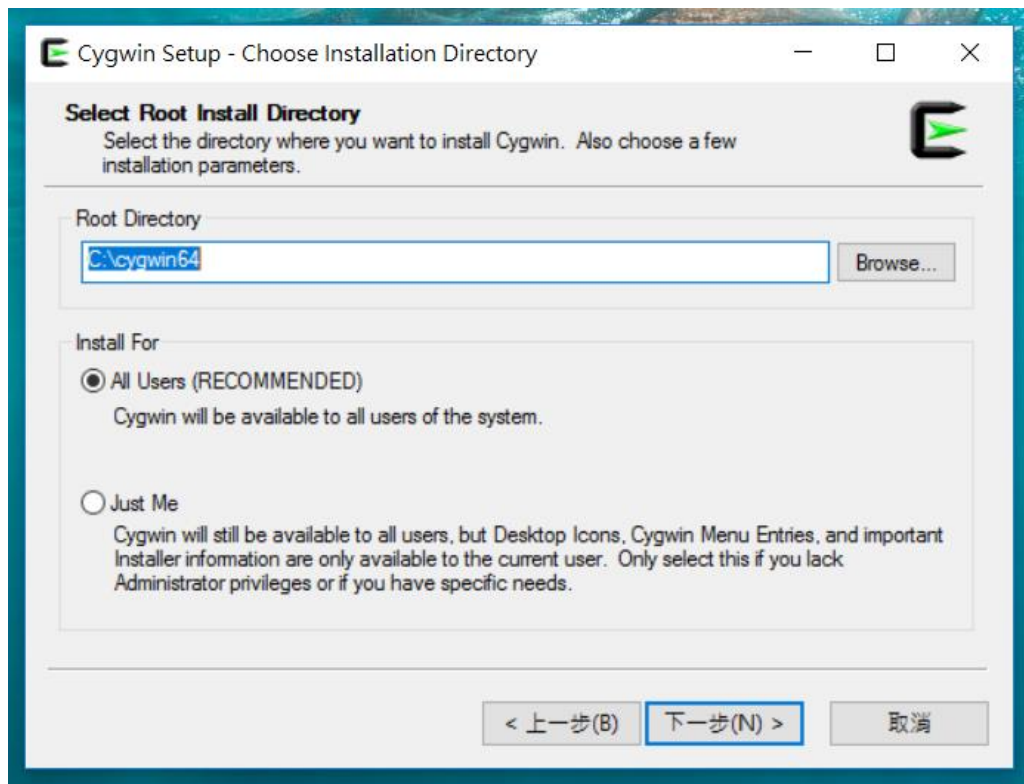
2. 開啟安裝檔點選“下一步”



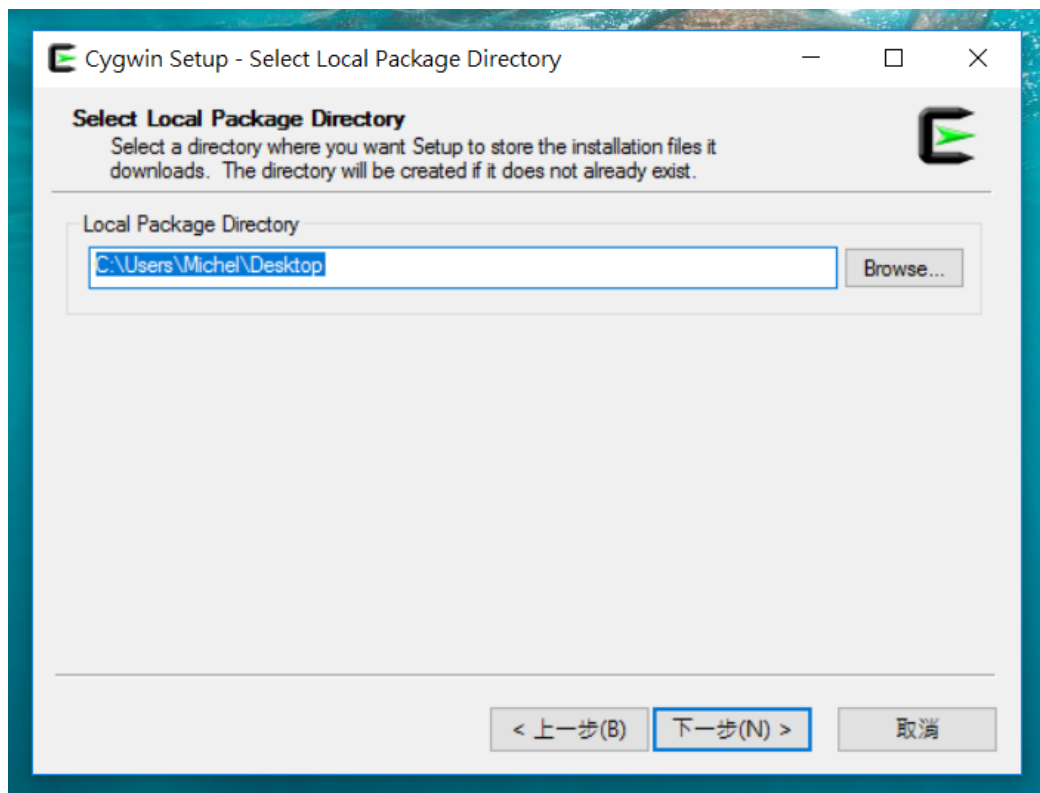
3. 選擇網際網路安裝



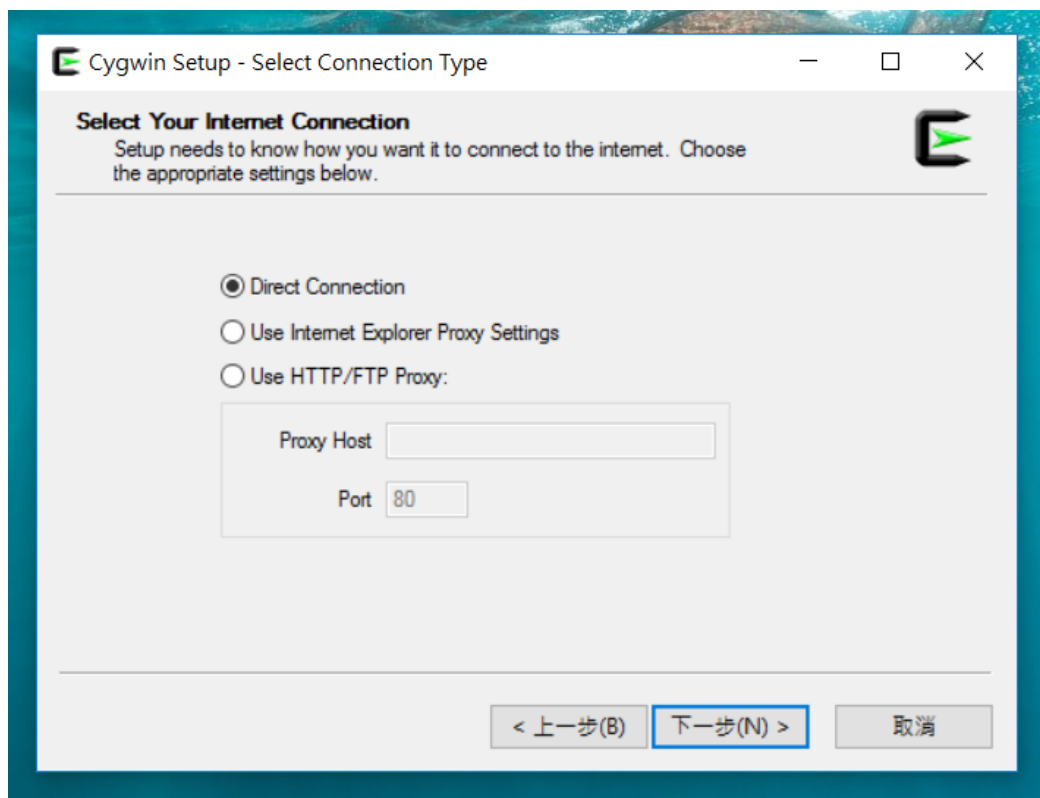
4. 選擇 Cygwin 模擬器的安裝路徑



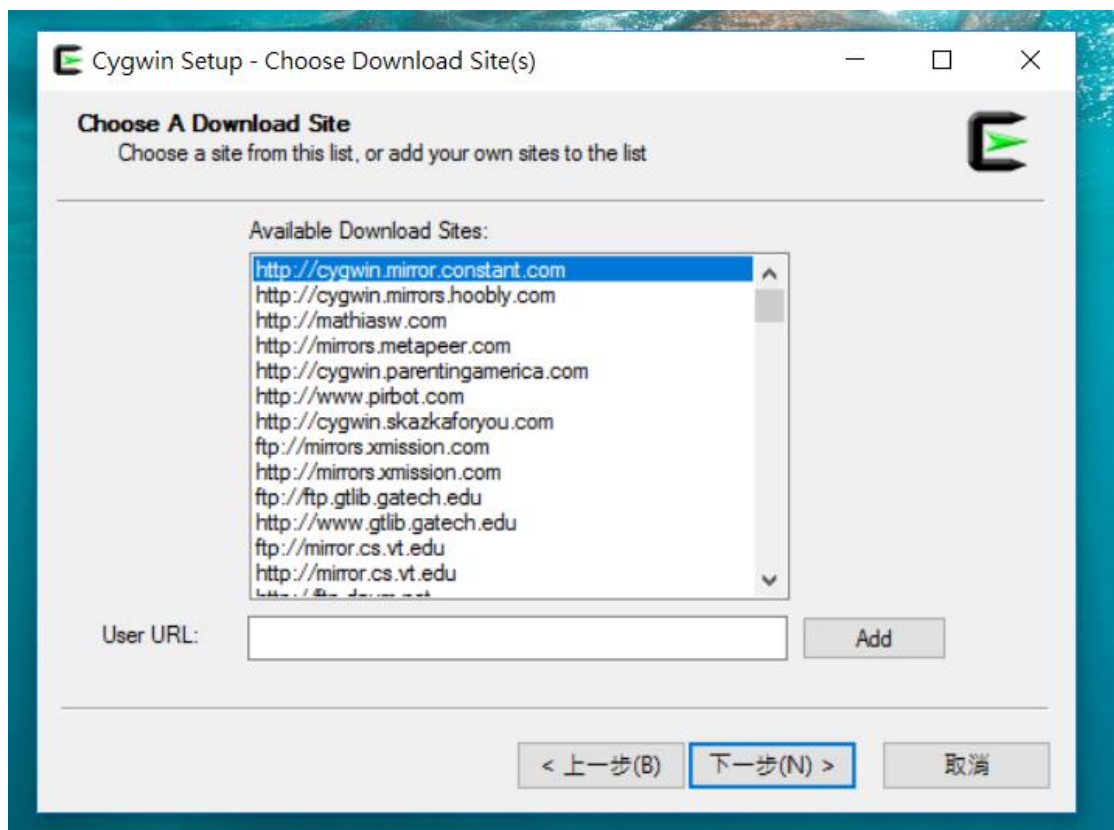
5. Cygwin 的 package 安裝路徑



6. 選擇 Cygwin 的連線方式，選擇直接連線

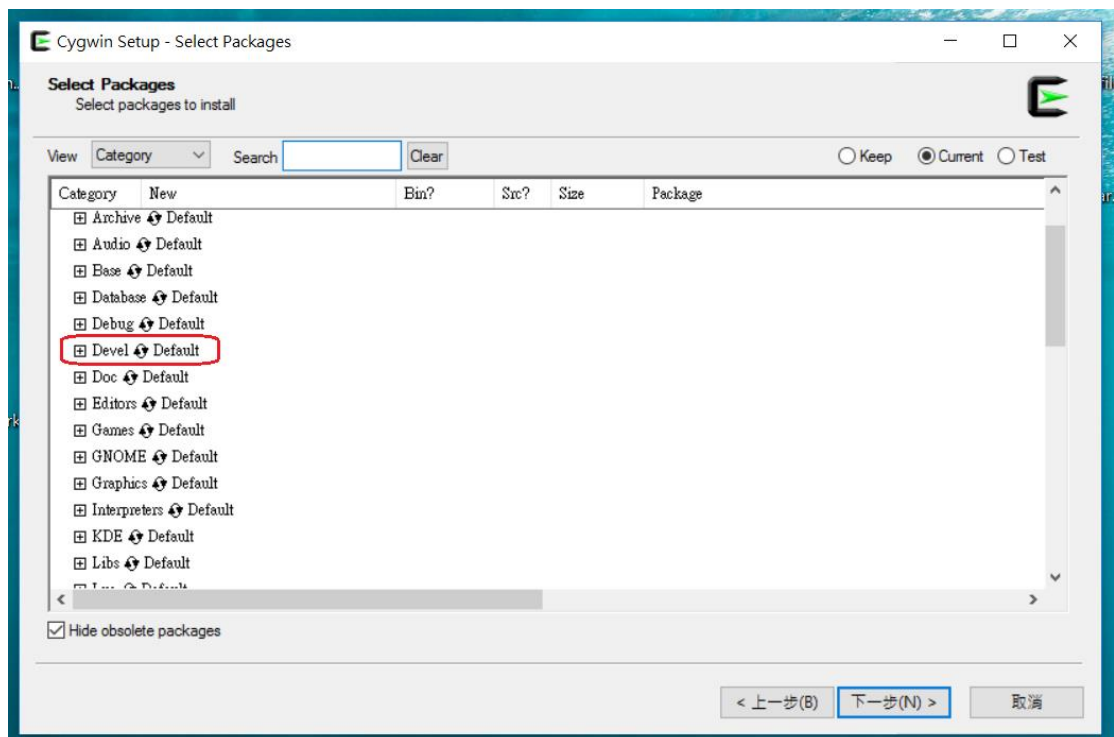


7. 選擇 Cygwin 下載源(任一均可)

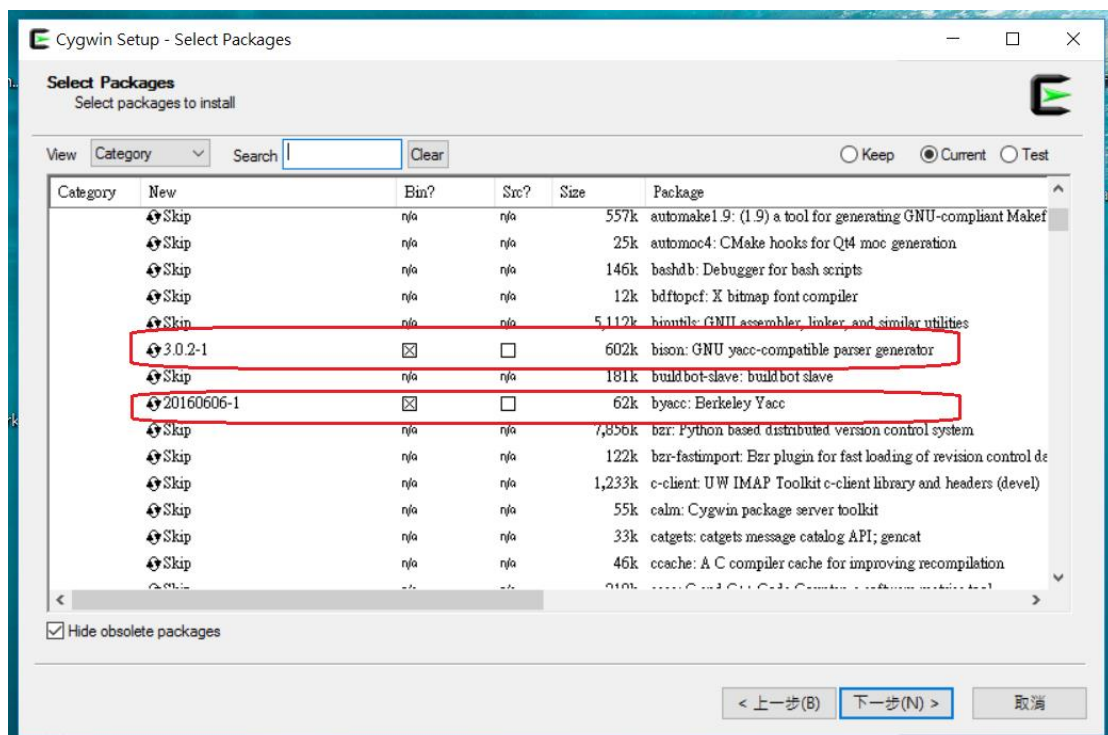


8. 選取欲安裝的 package(預設均不裝)

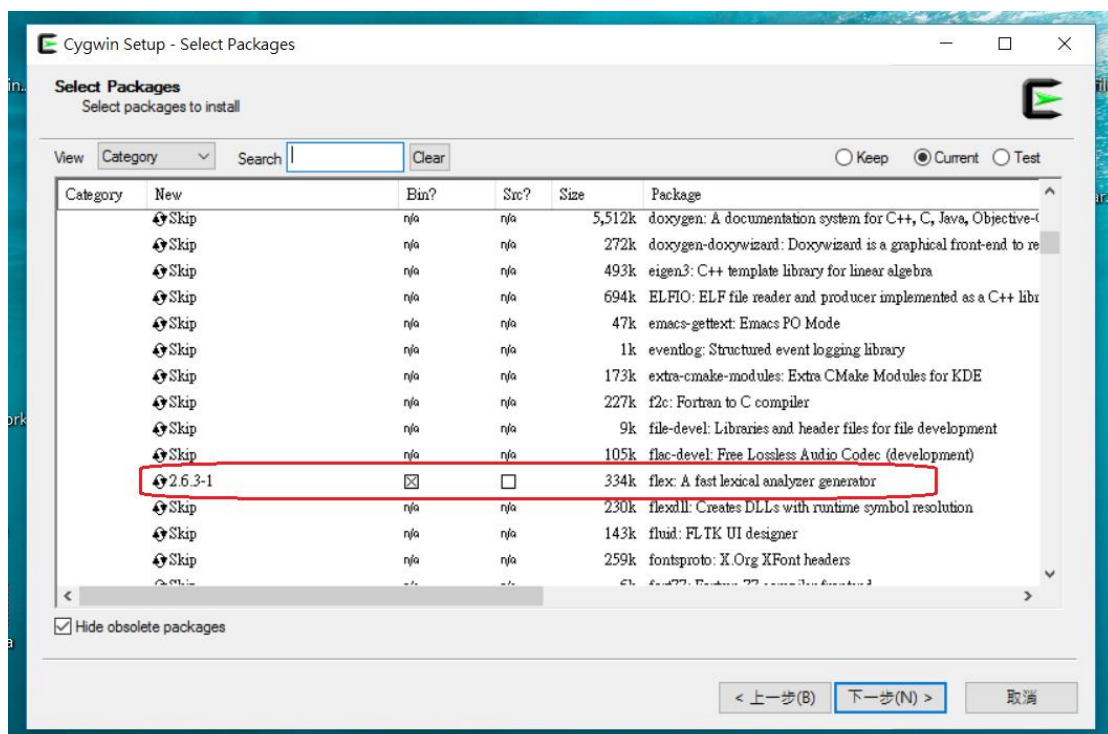
點選 Devel 展開其類別



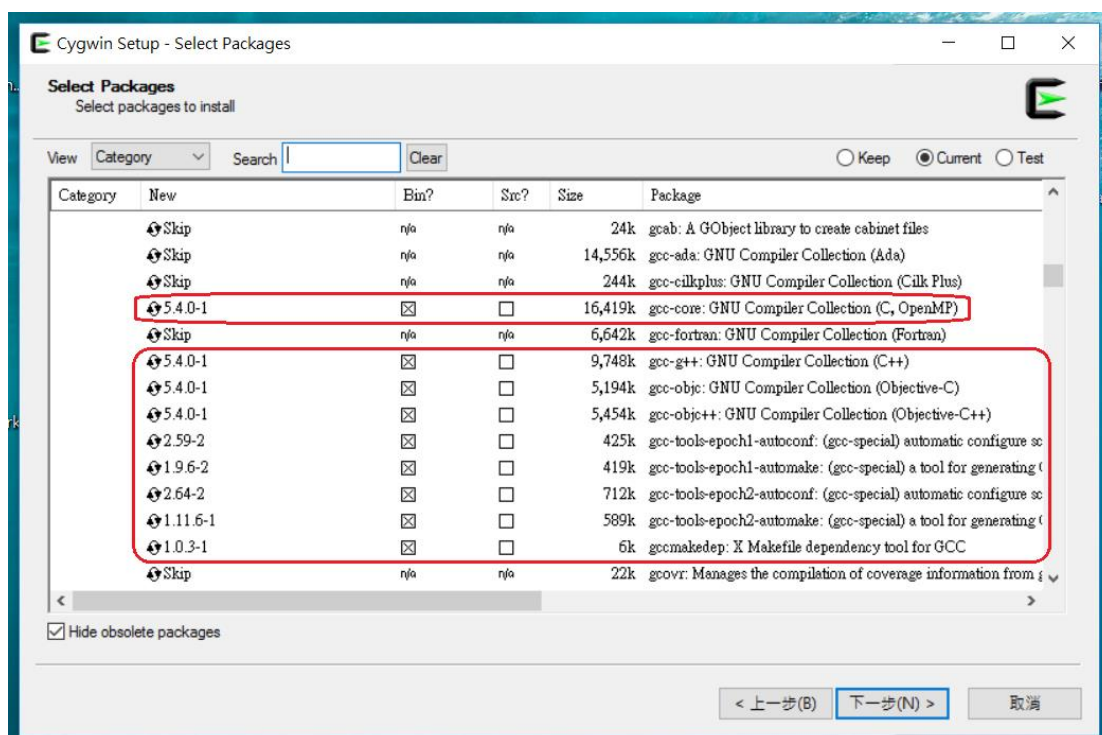
9. 選取 bison 以及 byacc 套件



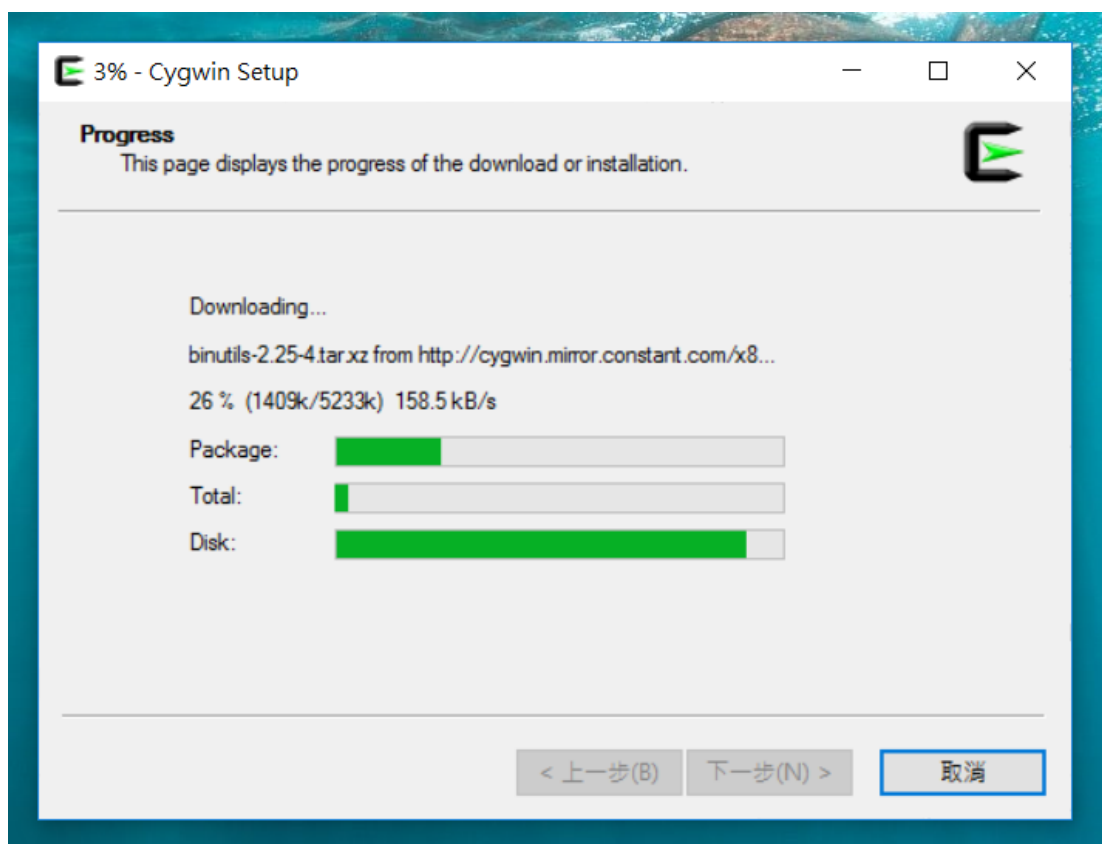
選取 flex 套件



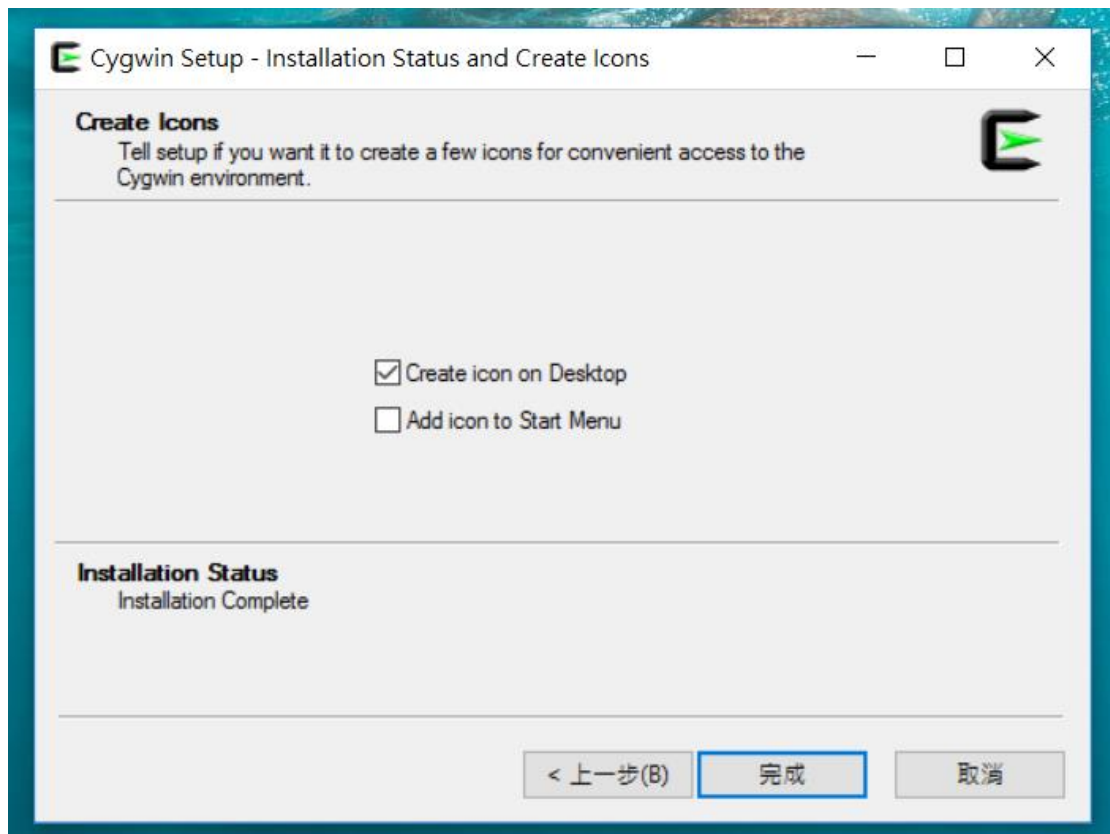
最後選取 gcc 編譯相關套件



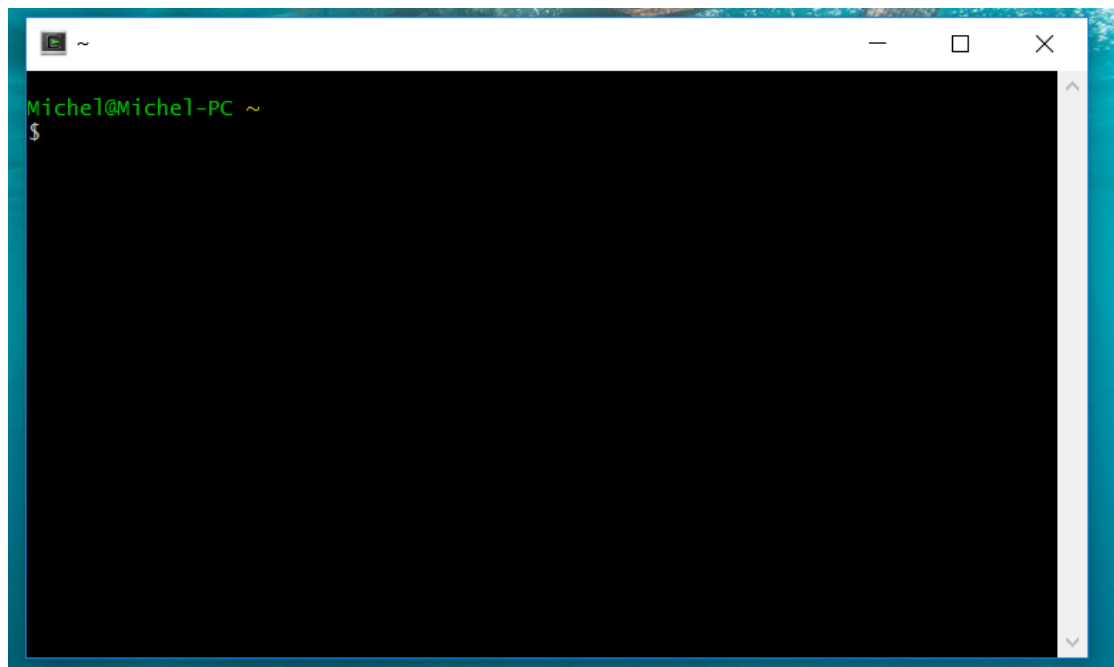
10. 等待數分鐘安裝 Cygwin 及套件



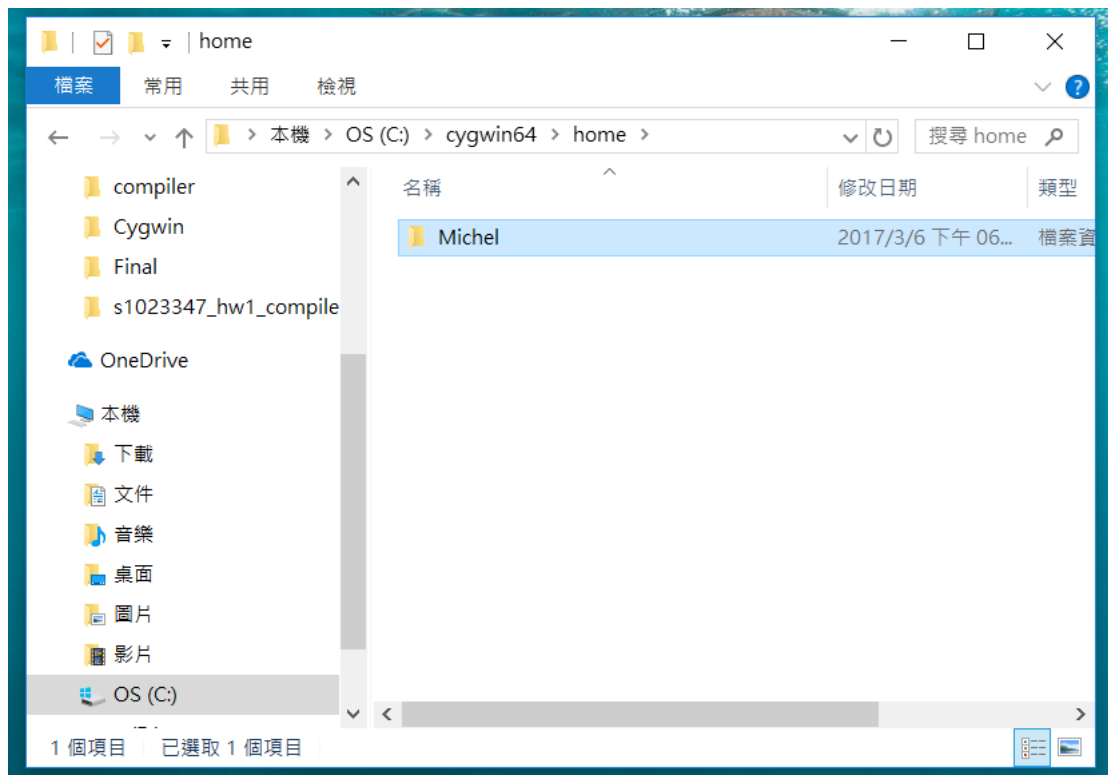
11. 完成安裝!~(^ w ^)



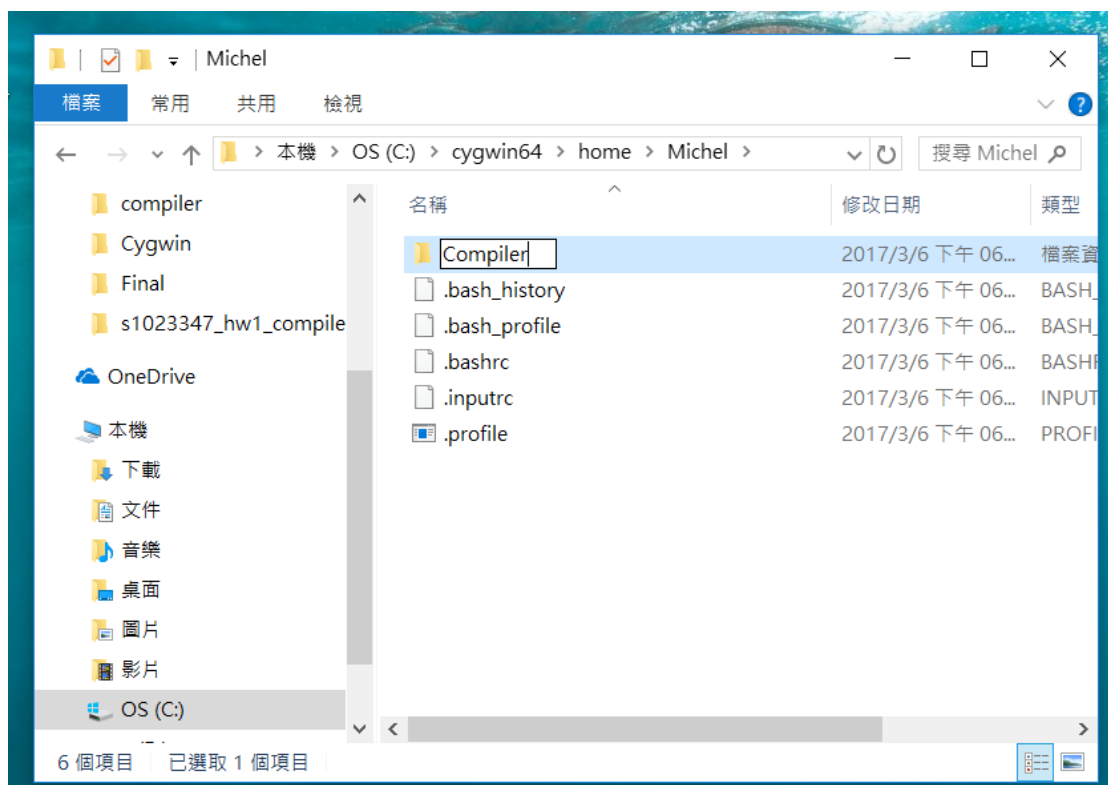
12. 開啟桌面圖示進入 Cygwin 終端機畫面

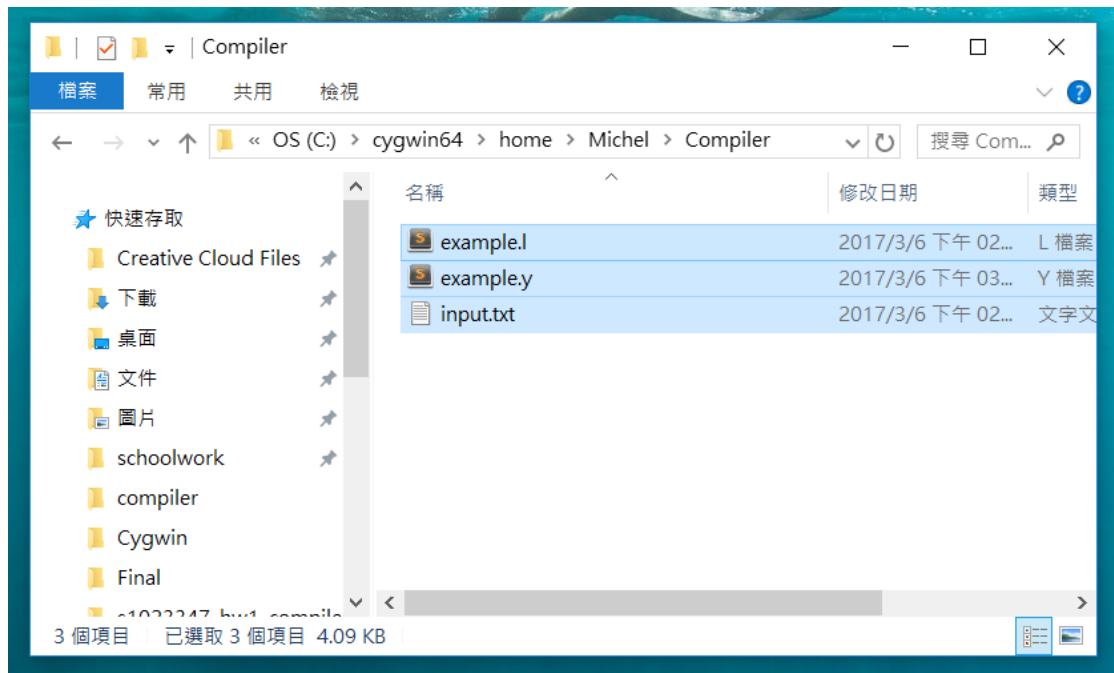


13. 進入 cygwin 安裝檔目錄->home->使用者
即為 cygwin 預設操作目錄



14. 創建 Compiler 資料夾並將程式碼丟入此資料夾





15. 回到 Cygwin 終端機

輸入指令：

```
$ cd compiler
```

(移動到 compiler 目錄)

```
$ flex example.l
```

(編譯 l 檔)

```
$ yacc example.y -defines
```

(編譯 y 檔 及 產生標頭檔)

```
$ gcc lex.yy.c y.tab.c -lfl -o output
```

(編譯產生的 c 檔來產生執行檔)

```
$ ./output.exr < input.txt
```

(執行 output 檔並丟入 input 檔)

Hint :

作業一僅需要執行 lex :

```
$ flex example.l
```

```
$ gcc lex.yy.c -lfl -o output
```

```
$ ./output.exe input.txt
```

作業二需執行完整 lex & yacc (依照步驟 15 即可)