Set up OpenGL

107-2電腦圖學

Outline

- ●下載GLEW、GLFW
- ●環境設置
- ●執行測試

下載GLEW、GLFW

下載GLEW

http://glew.sourceforge.net/

Latest Release: 2.1.0



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Change Log

GitHub Issues Pull Requests Authors Licensing

SourceForge Page

Last Update: 07-31-17



The OpenGL Extension Wrangler Library

The OpenGL Extension Wrangler Library (GLEW) is a cross-platform open-source C/C++ extension loading library. GLEW provides efficient run-time mechanisms for determining which OpenGL extensions are supported on the target platform. OpenGL core and extension functionality is exposed in a single header file. GLEW has been tested on a variety of operating systems, including Windows, Linux, Mac OS X, FreeBSD, Irix, and Solaris.

Source ZIP | TGZ

Downloads

GLEW is distributed as source and precompiled binaries. The latest release is 2.1.0[07-31-17]:

Binaries Windows 32-bit and 64-bit

An up-to-date copy is also available using git:

 github git clone https://github.com/nigels-com/glew.git glew

Supported Extensions

The latest release contains support for OpenGL 4.6, compatibility and forward-compatible contexts and the following extensions:

- · OpenGL extensions
- WGL extensions
- GLX extensions

News

- [07-31-17] GLEW 2.1.0 adds support for OpenGL 4.6, new extensions and minor bug fixes
- . [07-24-16] GLEW 2.0.0 adds support for forward-compatible contexts, adds new extensions, OSMesa and EGL support, MX discontinued and minor bug fixes
- [08-10-15] GLEW 1.13.0 adds support for new extensions, fixes minor bugs
- [26-01-15] GLEW 1.12.0 fixes minor bugs and adds new extensions
- [08-11-14] GLEW 1.11.0 adds support for OpenGL 4.5, new extensions
- [07-22-13] GLEW 1.10.0 adds support for OpenGL 4.4, new extensions
- . [08-06-12] GLEW 1.9.0 adds support for OpenGL 4.3, new extensions

下載GLFW

https://www.glfw.org/download.html



Documentation

Download

Community

Download

The current version is **3.2.1**, which was released on **August 18**, **2016**. See the version history for a list of changes.

Source package

This package contains the complete source code, CMake build files, documentation, examples and test programs. It is the recommended download for all platforms and offers the most control.

The latest version of the source code, including tags for all releases, is always available in our Git repository.

Source package

GitHub repository

Windows pre-compiled binaries

These packages contain complete GLFW header file, documentation and release mode DLL and static library binaries for Visual C++ 2010 (32-bit only), Visual C++ 2012, Visual C++ 2013, Visual C++ 2015, MinGW (32-bit only) and MinGW-w64.

32-bit Windows binaries

64-bit Windows binaries

Linux and macOS binaries

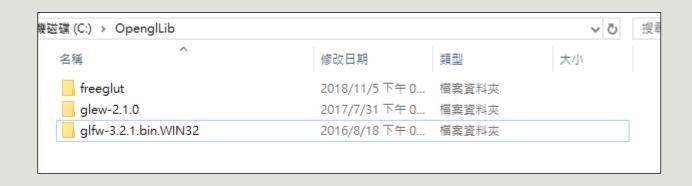
Please download and compile the source package above. There is a guide for compiling GLFW in the documentation.

Some package systems, for example NuGet, MacPorts and Arch Linux include relatively up-to-date GLFW packages, but most sadly do not. If you intend to use a GLFW package, please verify that its version fits your needs.

環境設置

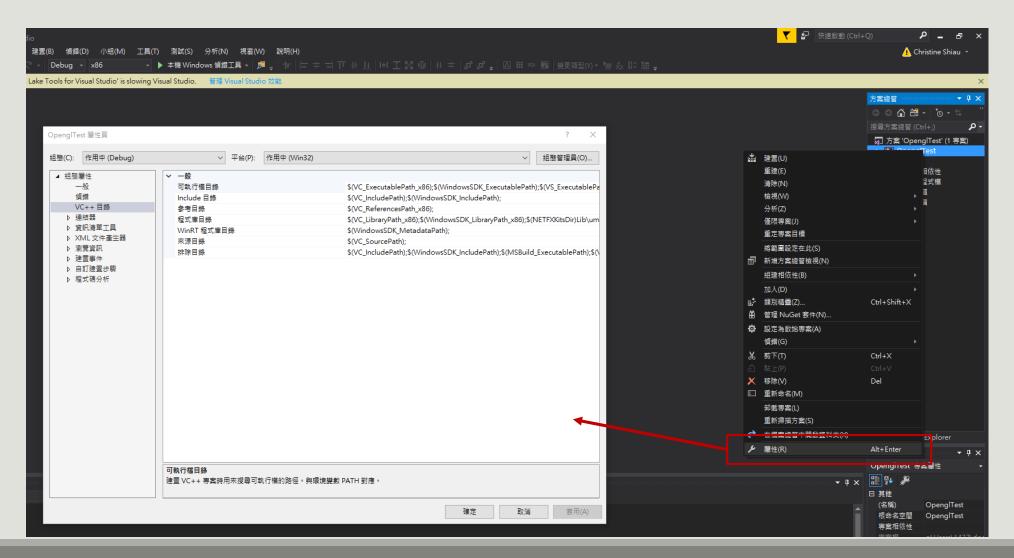
前置作業

解壓縮glew及glfw



VS環境設置為Debug x86

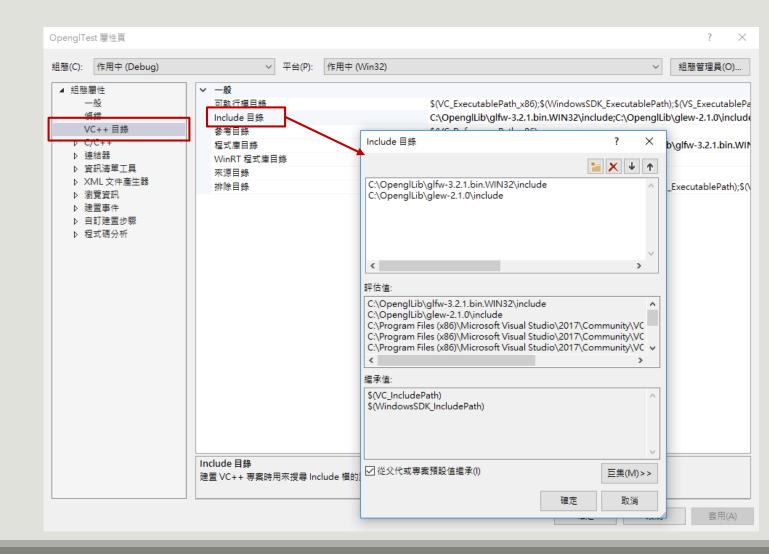
設定專案屬性



新增Include目錄

加入

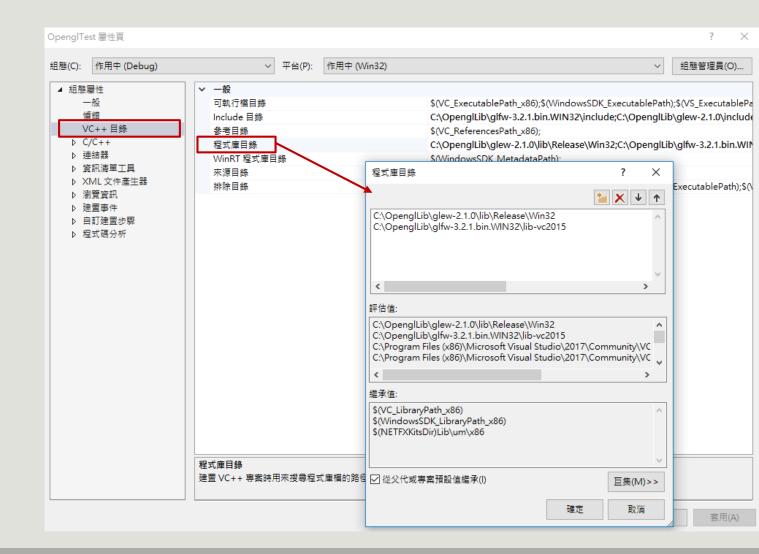
- glfw-3.2.1.bin.WIN32\include
- glew-2.1.0\include



新增程式庫目錄

加入

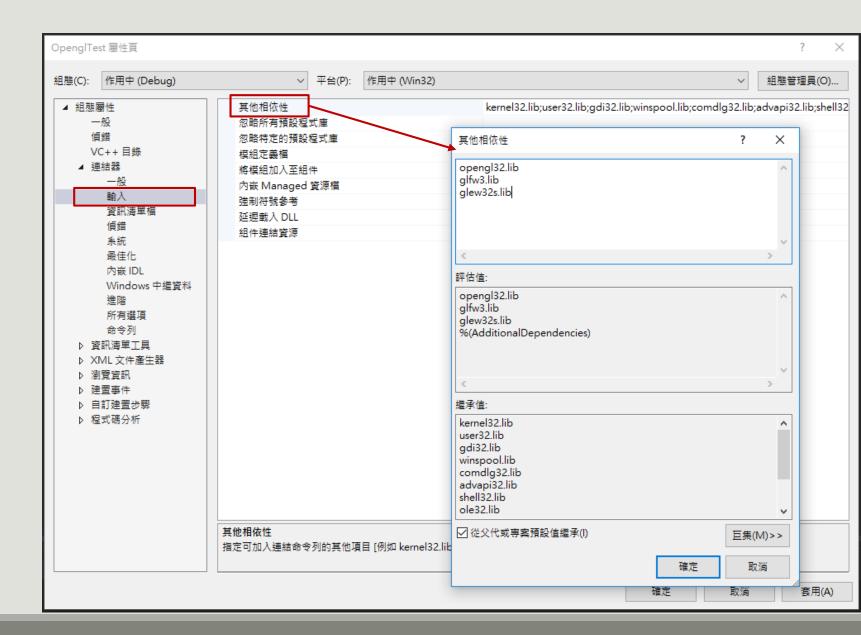
- glew-2.1.0\lib\Release\Win32
- glfw-3.2.1.bin.WIN32\lib-vc2015(2015以上版本請選擇 lib-vc2015)



設置鏈接器

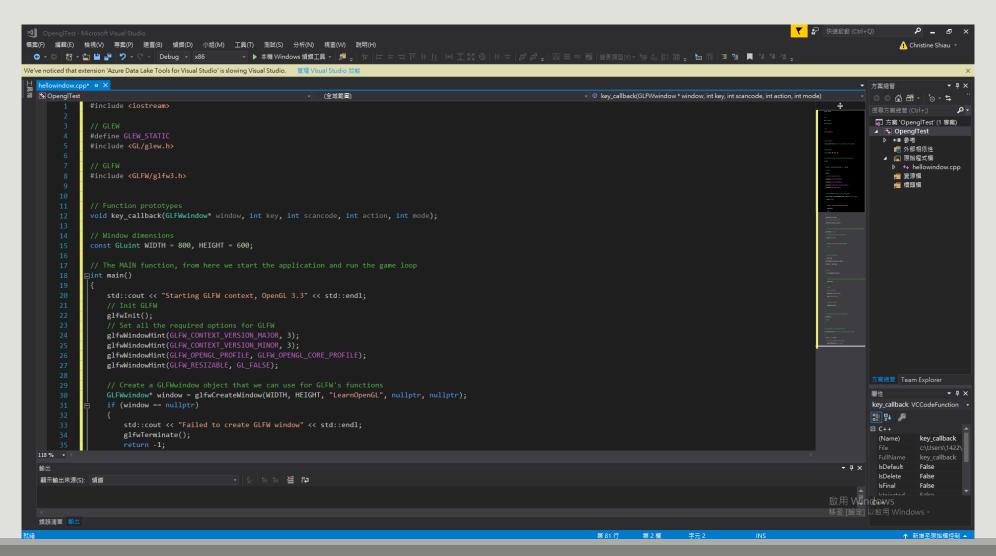
新增

- opengl32.lib
- glfw3.lib
- glew32s.lib



執行測試

執行範例程式



執行結果

