

OpenGL Environment Setting for Mac

**CS 550000 Computer Graphics
CGVLAB, NTHUCS**

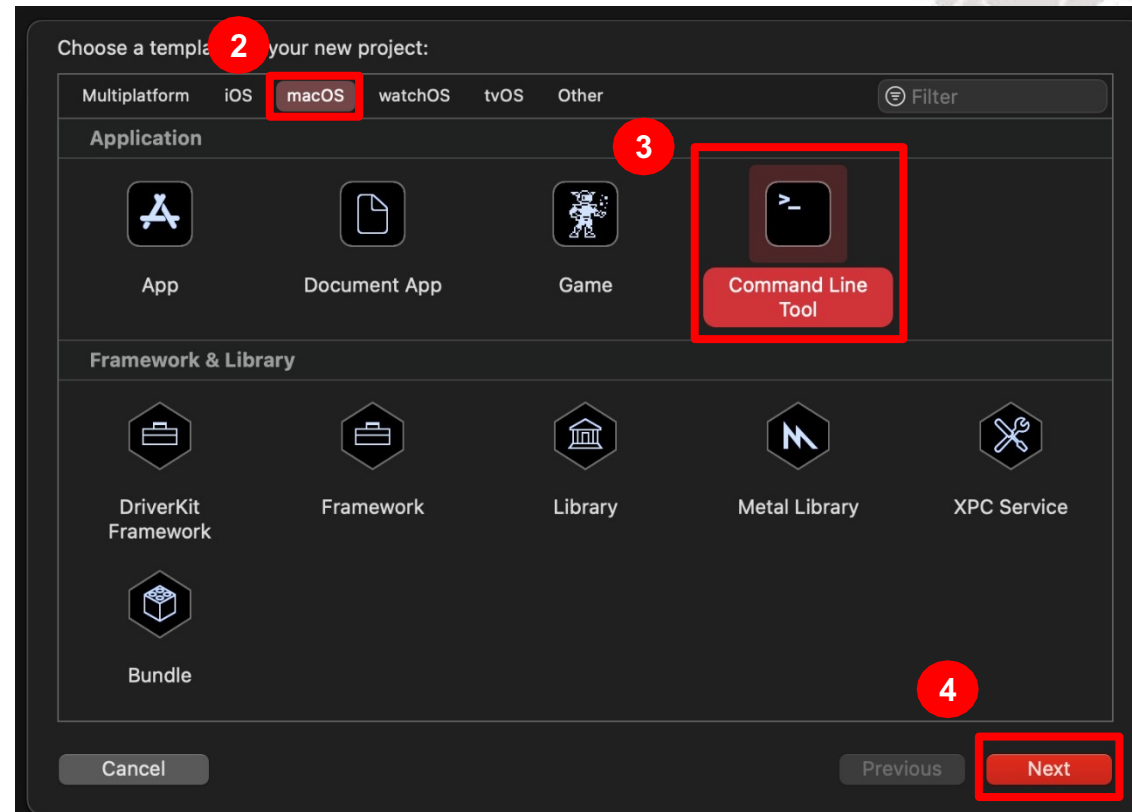


CREATE A PROJECT FROM SCRATCH



Xcode

◆ Create a new Xcode command line project



Xcode

◆ Choose options

Choose options for your new project:

1 Product Name: HelloTriangle

2 Team: None

Organization Identifier: practice

Bundle Identifier: practice.HelloTriangle

3 Language: C++

Swift

Objective-C

✓ C++

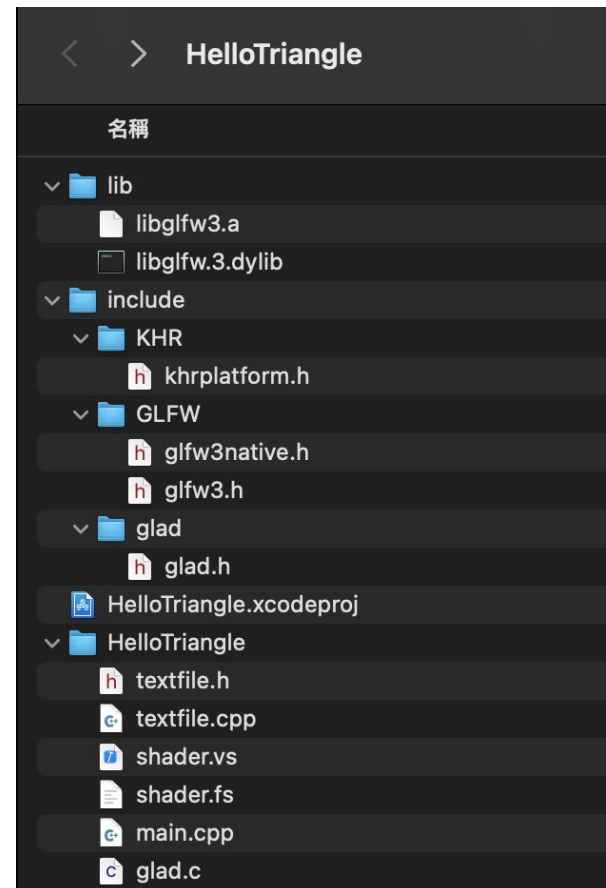
C

Cancel Previous Next



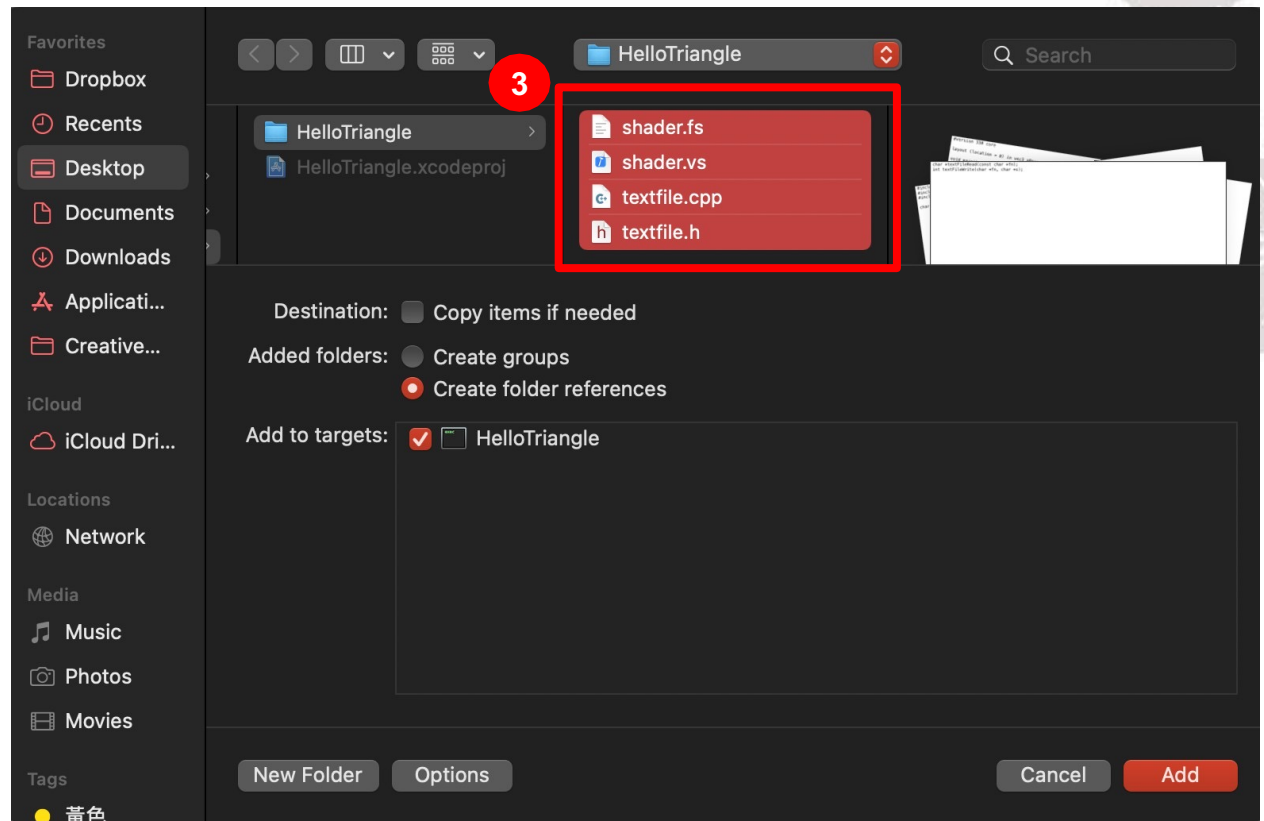
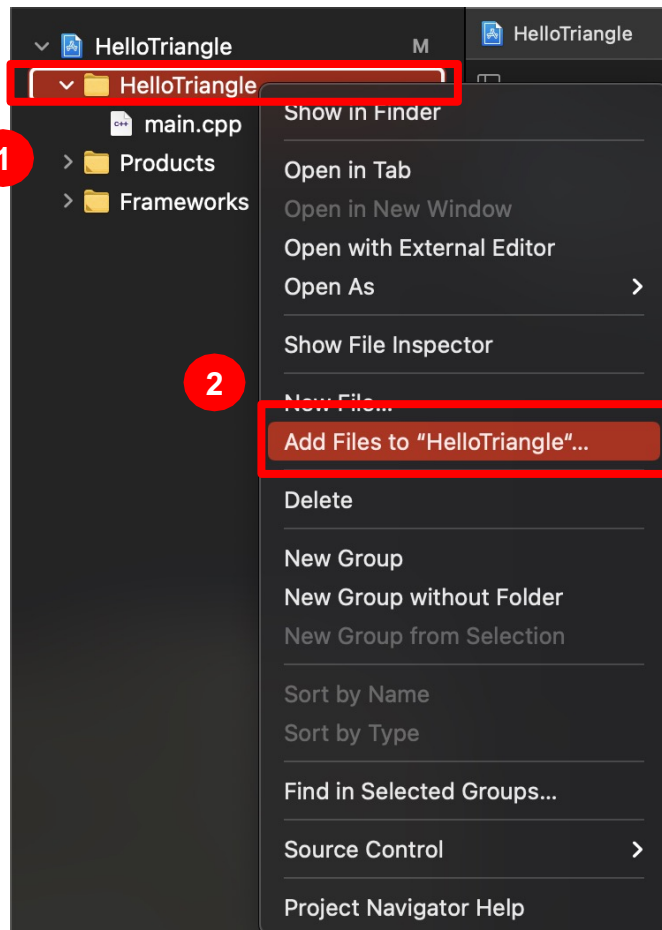
Xcode

- ◆ Copy the sample code (e.g., GLFW, GLAD, source code) to project folder
- ◆ Folder hierarchy



Xcode

◆ Add the source code to project



Xcode

◆Note:

Xcode ≥ 11

Download the framework on EECLASS

Download GLFW & GLAD from official website

glad.c should be added to project and it will be automatically compiled



PROJECT SETTINGS



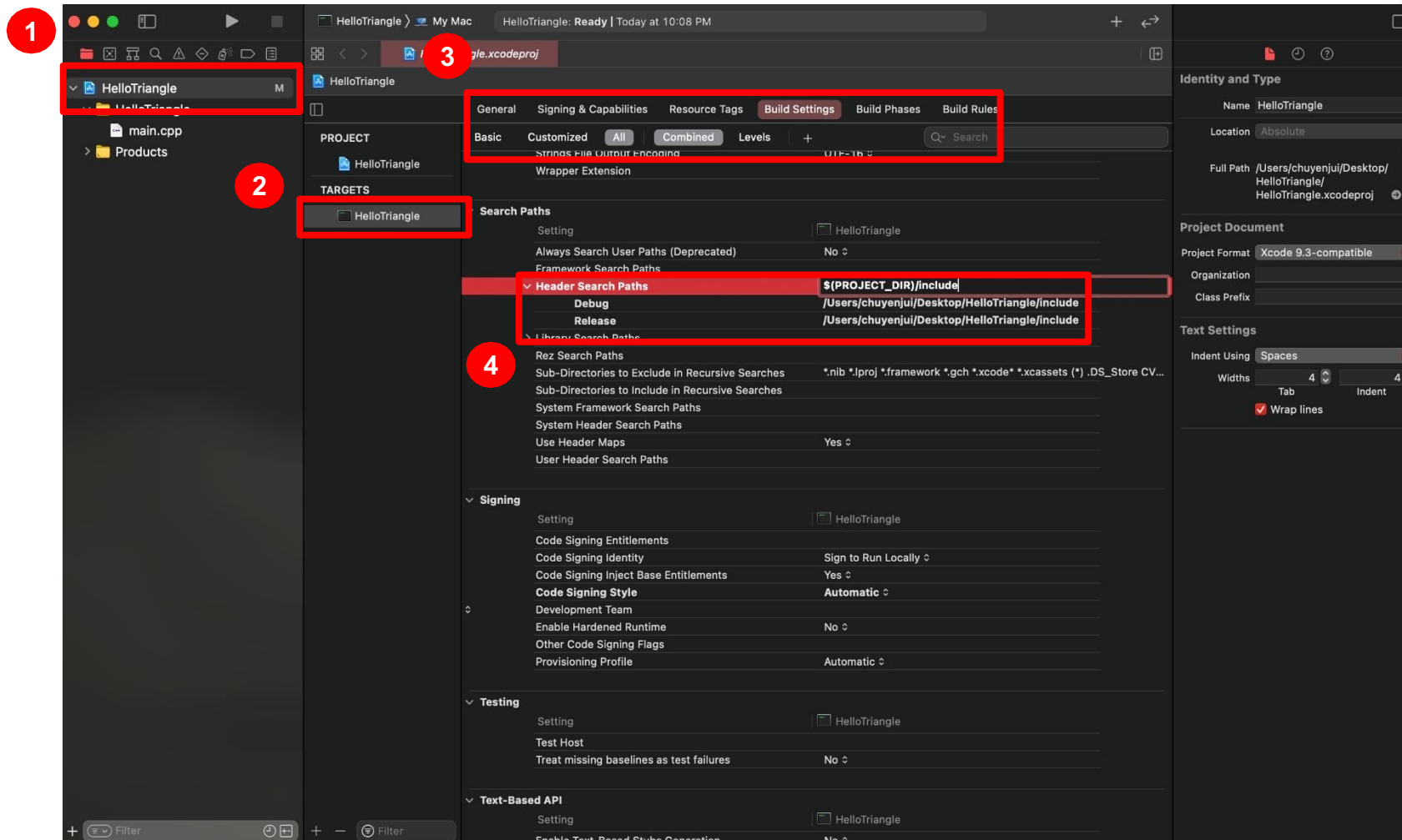
Project Settings

- ◆ **Search paths**
- ◆ **Dynamic library**
- ◆ **Working directory**
- ◆ **$\$(PROJECT_DIR)$ is the location of ***$your_project_name.xcodeproj$*****



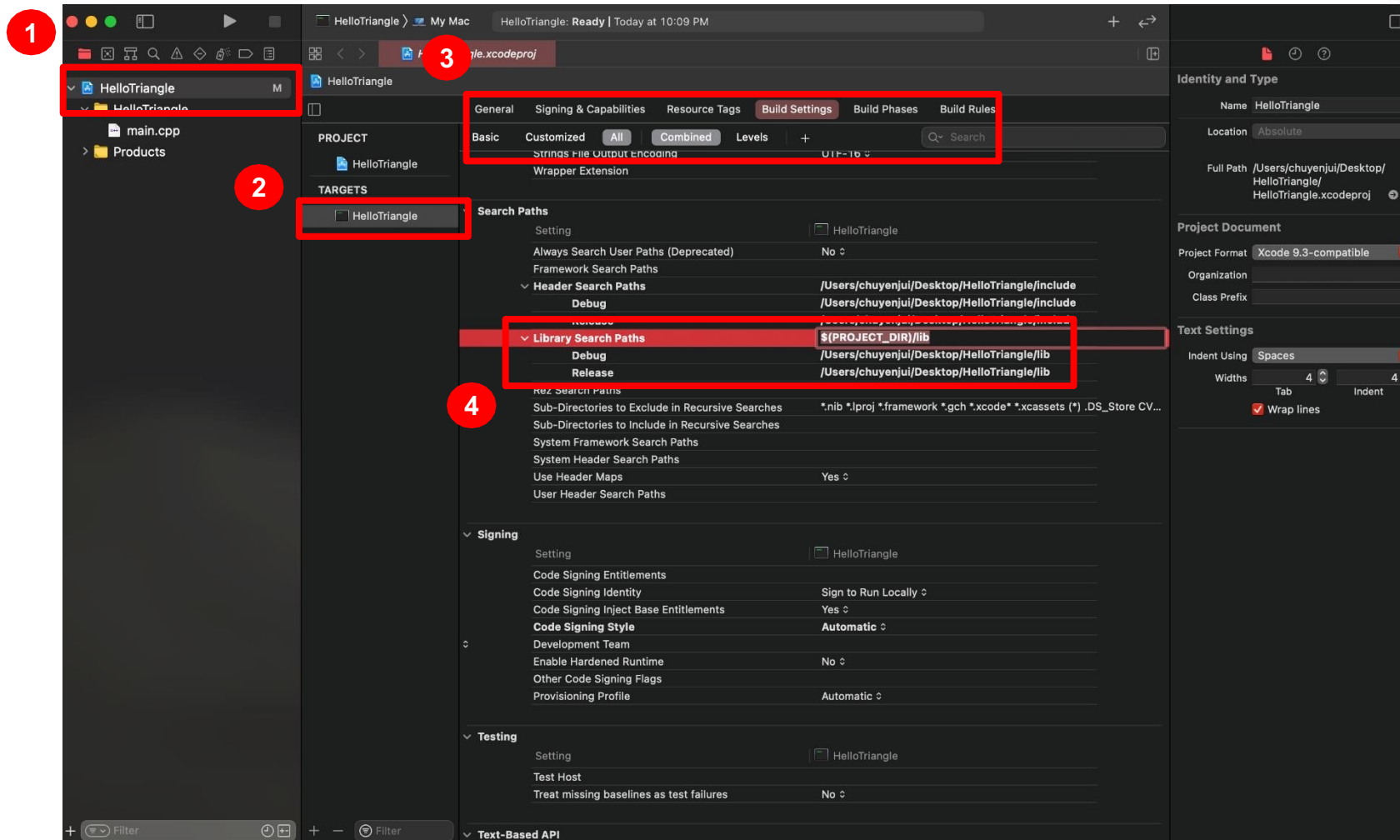
Include Path

◆ Add include path to header search paths



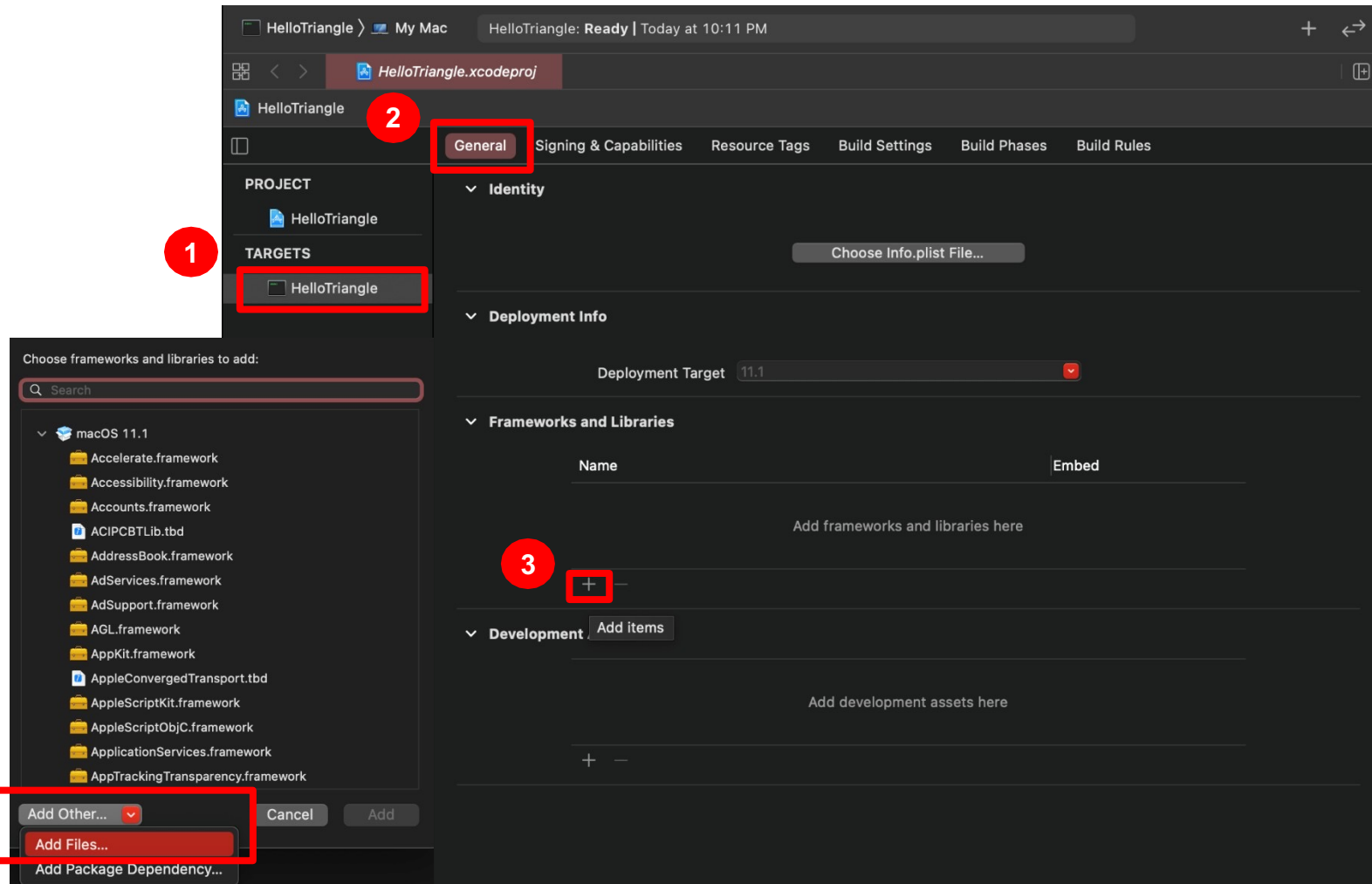
Lib Path

◆Add lib path to library search paths



Dynamic Library

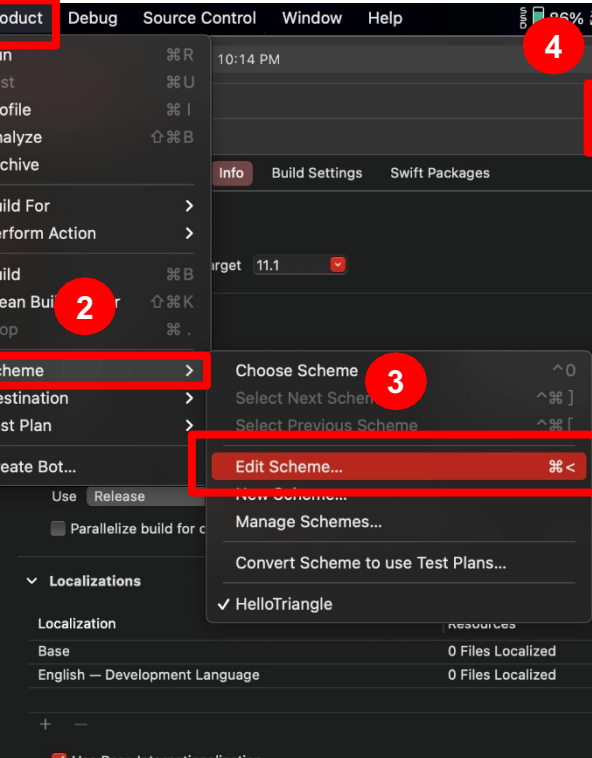
◆ Find out the location of *libglfw.dylib*



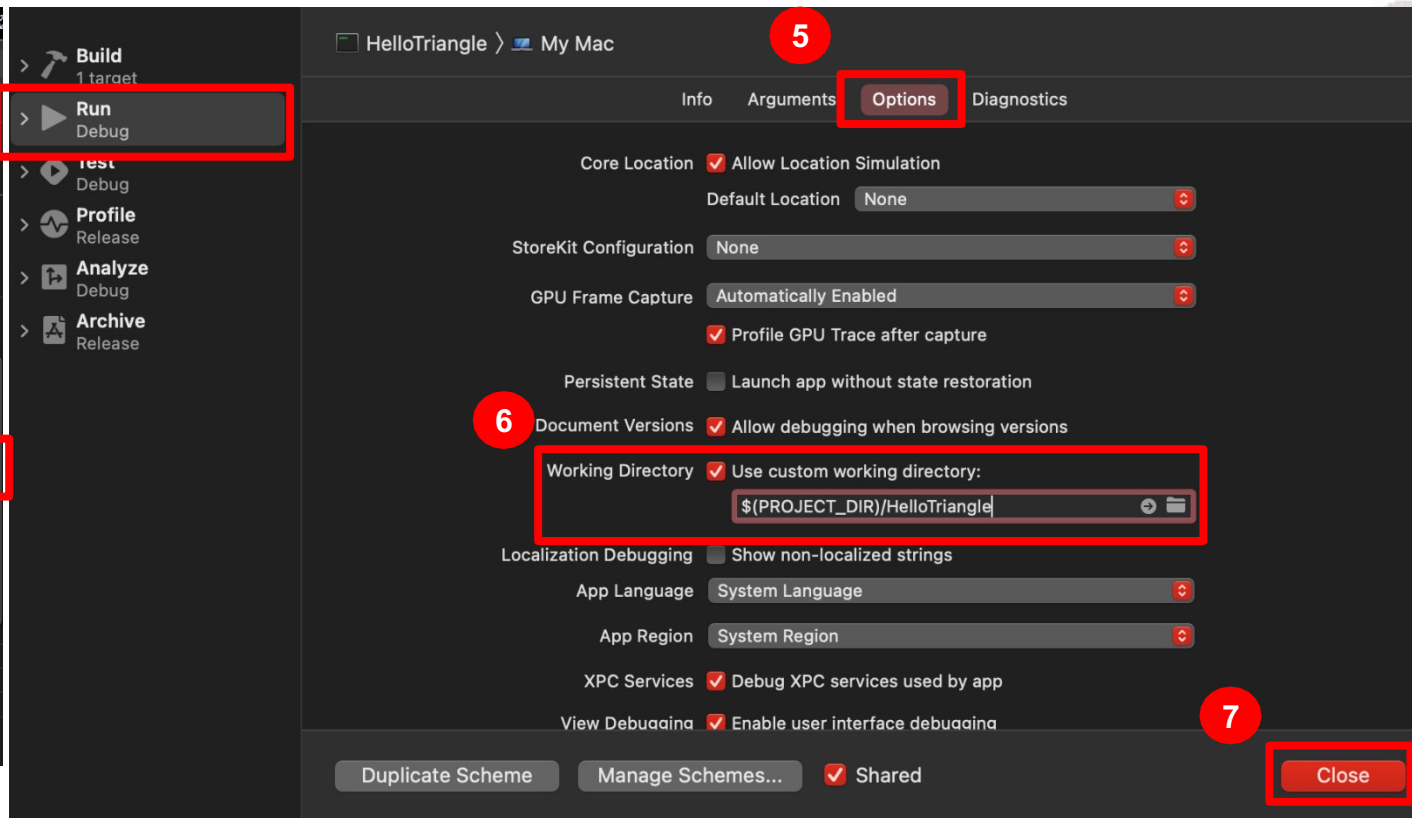
Working Directory

◆ Recommend: set the path to
`$(PROJECT_DIR)/your_project_name`

1



4

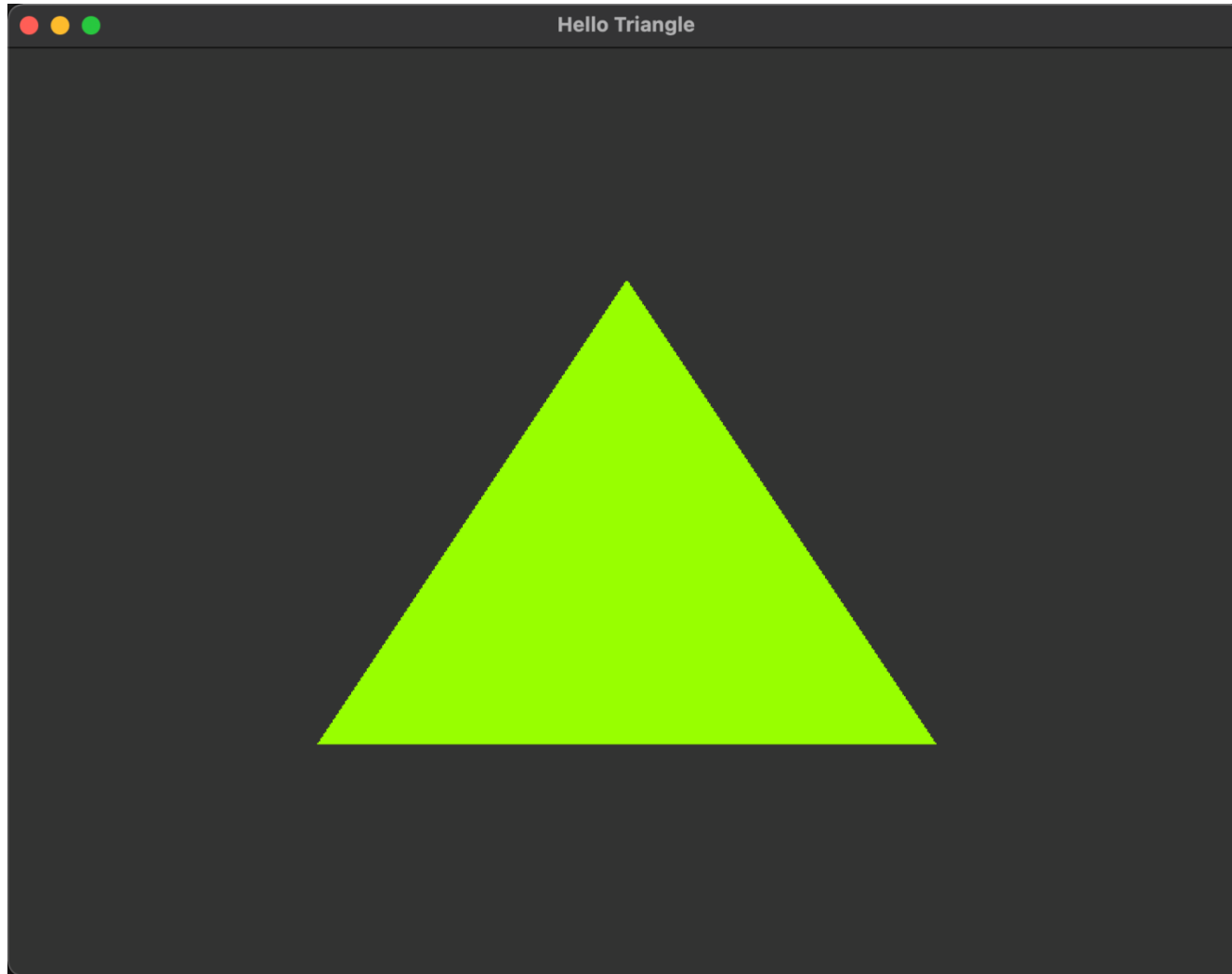


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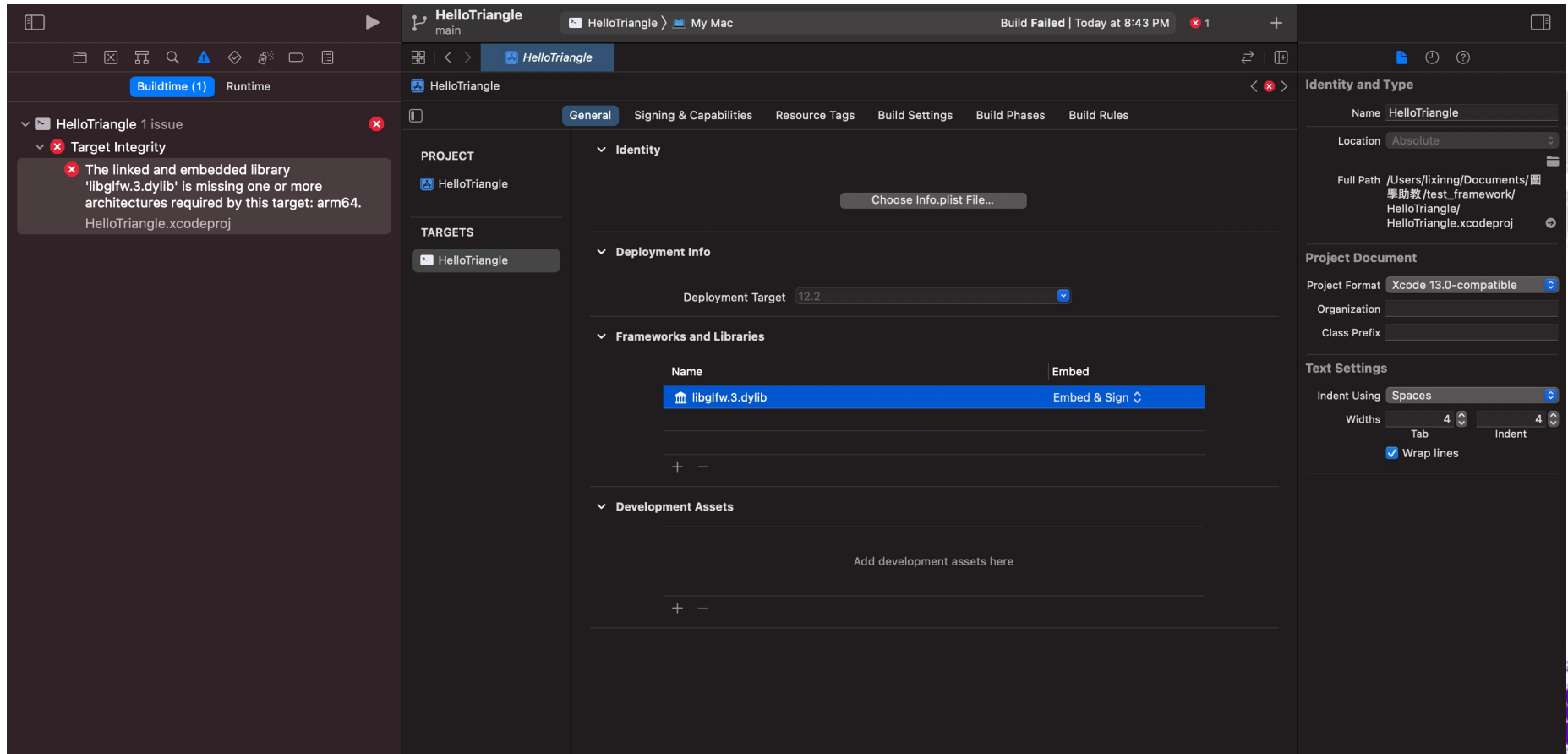
7

Build & Run



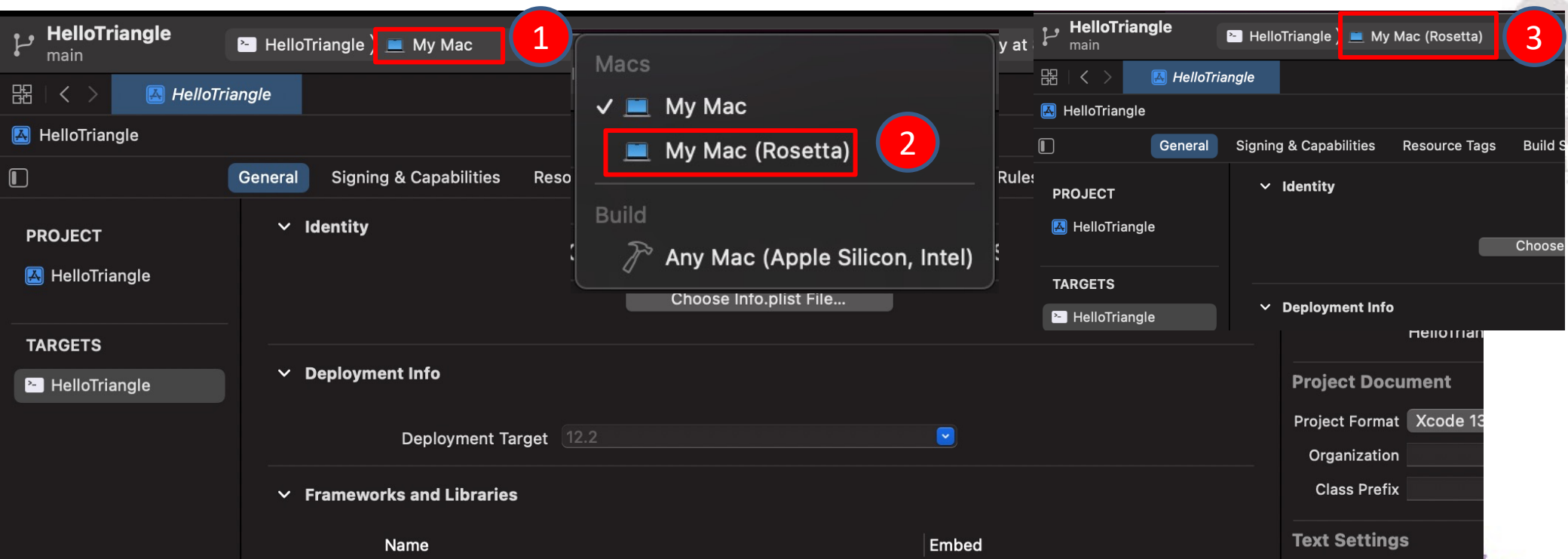
For M1 or M2 Users

◆ After running the project, M1 or M2 Users will meet the architecture problem

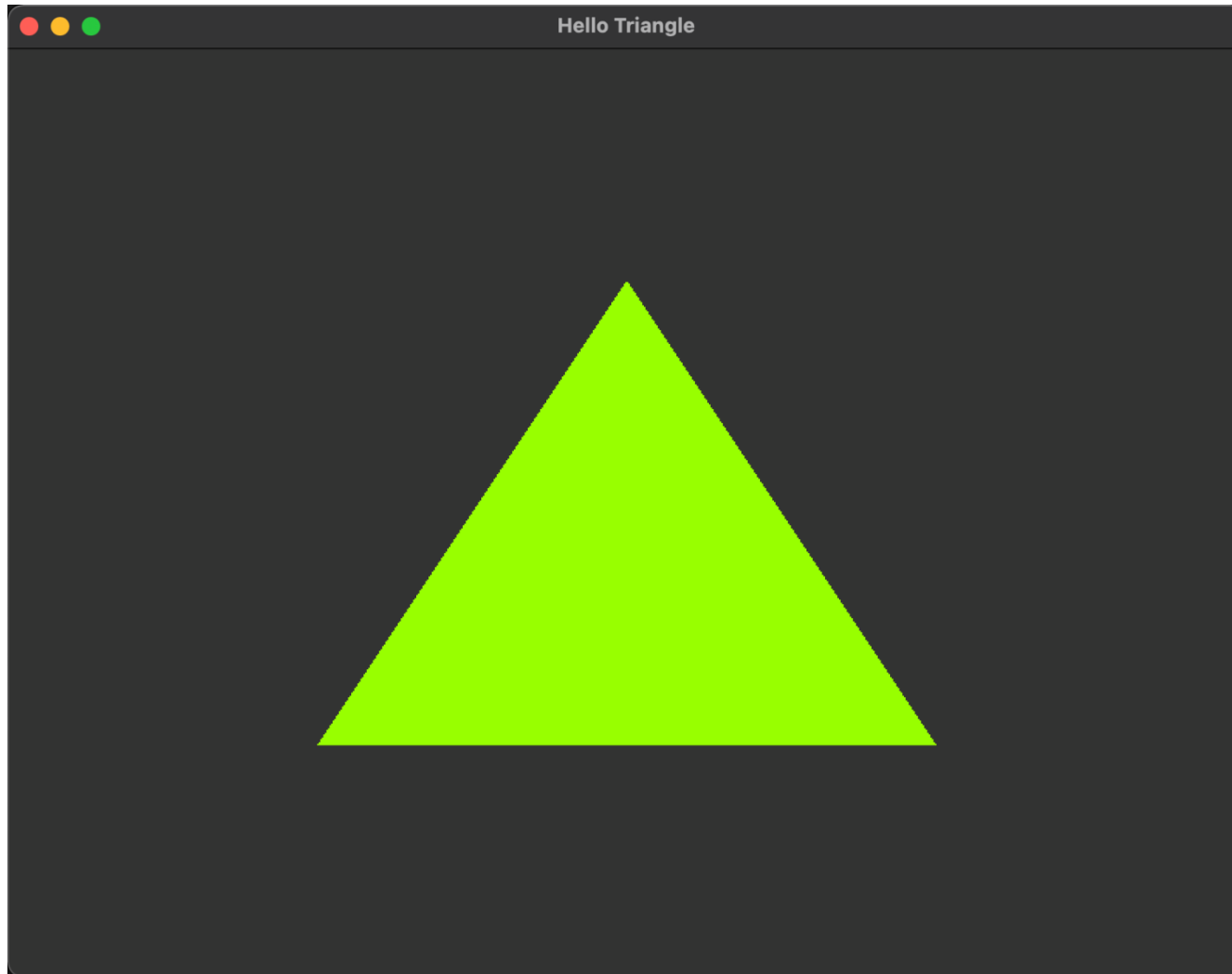


Using Rosetta

◆ Click and change the build platform

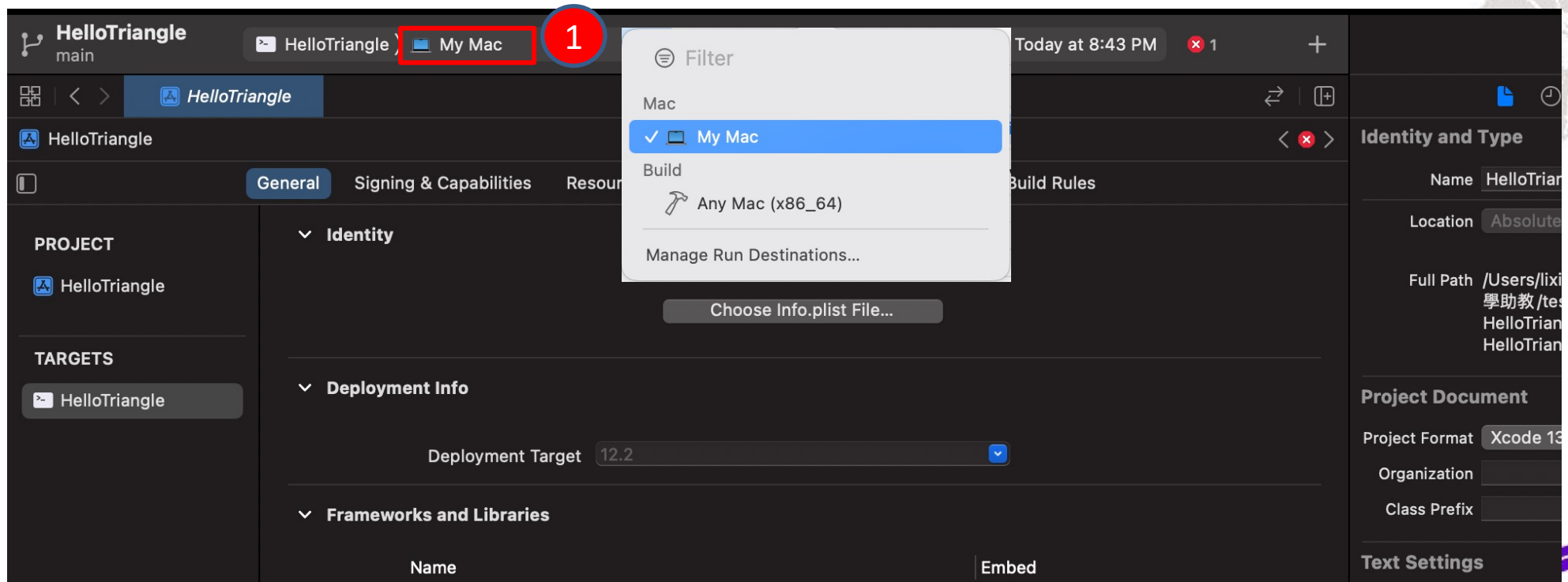


Build & Run



Using Rosetta

◆ If there is no Rosetta option among your build options, next slide will teach you how to open



Using Rosetta

◆Go to Product to enable All Run Destinations

1. Click **Product** in the top menu bar.

2. Click **Destination** in the 'Product' menu.

3. Click **Show All Run Destinations** in the 'Destination' submenu.

4. Click **My Mac** in the 'Filter' dialog.

5. Check **My Mac (Rosetta)** in the 'Filter' dialog.

6. Click **My Mac (Rosetta)** in the 'Filter' dialog.