CS635: Assignment #0 – Compiling Warm-up

Out: January 17, 2025
Due: January 24, 2025, 11:59pm

Objective

The objective of this assignment is for you to download, compile, execute, and perform a trivial task so as to ensure you have a suitable working environment for the assignments and for the final project.

Detailed Description

Step 0a – Download and compile

Please download from the course website (https://www.cs.purdue.edu/homes/aliaga/cs635-25) the zip file for "base_freeglut.zip". It contains a Microsoft Visual Studio project and setup for using FreeGLUT. I am providing this application to you so that you have an immediate starting point of a program in C/C++, OpenGL, and GLUT.

Step 0b – Download and compile

An alternative option is you may have your own OpenGL/DirectX program to do at least the above functionality. I will assume such in all assignments and rely on it. Thus, if you wish to have your own framework, that is fine but you still have to comply with the below Step 1.

Step 1 – An exemplary task

Your assignment task is to show me a video of a triangle moving around on in the window. This is easily possible with one of several options: a) you can record an animation using "Fraps" (freeware, use Google to find it) or you can add a button/function to "save images to disk" and then join the images into a video using one of many tools (e.g., Windows Movie Maker, Adobe Premiere).

Grading/Demonstration

Your demonstration will consist of you **uploading to Brightspace a short video** (in compressed .avi or .mov format, about 3 seconds, and should be considerably less than 1MB in size). It is to your benefit to ensure this "environment" and "video-production pipeline" works well in your computing setup.

In this assignment, you may collaborate with others to help with the mechanics of the assignment (e.g., using a PC, Visual Studio, etc). But, *everyone must make their own video*! Practically speaking, this means that nobody should have the same picture sequence.

If you have questions, please ask ASAP – do not wait until the last moment.