

Yixuan Hu

CIS 560 – Homework 02

Help Log

HW02 Conceptual Questions

Description: clarify the concept of virtual function

Time: 9/13, 6p

Get help from: <https://msdn.microsoft.com/en-us/library/0y01k918.aspx>

Questions for OH:

- ~~Answer review~~
- ~~Q02 of CP02: "out of the polygon's vertices"? how to index~~
- ~~Local space and World space~~

Time: 9/14, 3-4p

Get help from: Alexis during OH

HW02 Code Requirements

Description: QString

Time: 9/17, 3:30p

Get help from: <http://doc.qt.io/qt-5/qstring.html#details>

Description: virtual destructor

Time: 9/17, 4:20p

Get help from: <https://www.geeksforgeeks.org/virtual-destructor/>

Description: pure virtual function

Time: 9/17, 4:30p

Get help from: <https://stackoverflow.com/questions/2652198/difference-between-a-virtual-function-and-a-pure-virtual-function>

Questions for OH:

- ~~What's "one instance of geometry"? Is that class polygon?~~
 - ~~#include <polygon.h>?~~
- ~~Where to store node.h/node.cpp? "scene" folder or not?~~
- ~~Project Management? src.prj or sceneGraph.pro~~
- ~~vec3?~~
- ~~Mat3?~~
- ~~Function to set name?~~

Time: 9/17 5pm

Get help from: Connie during OH

Question for OH

- ~~Override destructor?~~
 - Empty is fine
 - In the root node, go through the children, and delete them one by one
- ~~Are the parameters for transformation a member variable for classes?~~
 -
- Way to construct scene graph?
 - Square: a member variable
 - Others: construct, destruct, create in *InitializeGL*
 - The geometry, the relation (who is parent, who is child)
 - Don't forget to draw
- How to write the traversal function
 - Should be a member function
 - M to record the transformation it would go through, from root to the end child

Time: 9/18 5-6p

Get help from: Alex during OH

Description: std::vector structure

Time: 9/18 6:20

Get help from: <https://en.cppreference.com/w/cpp/container/vector>

Description: debugging constructor

Time: 9/18 7:00p

Get help from: Ziad via Piazza

Description: improve node class and scene graph construction

Time: 9/18 8:30p

Get help from: Evan

Questions for OH

- ~~Why ScaleNode can't be the child node?~~
- ~~How to implement two transformations on the same geometry?~~
- ~~Help debugging~~

Time: 9/19 12:00p

Get help from: Kathryn and Ziad during OH

Description: Connecting UI widgets with functions

Time: 9/19 5p

Get help from: <http://doc.qt.io/archives/qt-4.8/signalsandslots.html>

Questions for OH

- Let the root be invisible
 - nullptr
- How to connect UI widgets with functions

Time: 9/19 5:30p

Get help from: Zach during OH