

HACETTEPE BBM414 EXP-2

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ALGORITHM

I removed the unnecessary vertex shader from exp1 and added scaling and rotation settings as showed in slides. I added uniform variable to fragment shader which used for editing brightness of color. I only used one buffer and one VAO this time. I created pointers and check values for activating the states of the program. Idle function used for setting Z axis rotation up and color change.

FUNCTIONS

void reshape(int w, int h) for basic re-sizing window.

void display(void) for binding VAO, setting up uniform variables and by using correct program displaying content.
void init() for setting up vertices and managing buffer objects and setting vertex and fragment shaders and setting scale, theta, fcolor uniform variables' location int main(int argc, char **argv) for glut and other initializings and using other functions. Added newly used callbacks.
void keyboard(unsigned char key, int x, int y) for keyboard call-backs.

void idle(void) for calling continuously through execution.

ENVIRONMENT SET-UP

sudo apt-get install libglu1-mesa-dev freeglut3-dev mesa-common-dev sudo apt-get install libglew-dev sudo apt-get install libglm-dev sudo apt-get install libglfw3-dev g++ -o Second second_assignment_openGL.cpp -IGL -IGLU -Iglut -Iglfw -IGLEW

REFERENCES

- INTERACTIVE COMPUTER GRAPHICS A TOP-DOWN APPROACH WITH SHADER-BASED OPENGL® 6th Edition
- stackoverflow.com