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Experiment No 1
Title Install and explore the OpenGL.
Create cpp file and write your code
Run on terminal:
g++ MyProg.cpp -IGL -IGLU -Iglut (for C++ program)
./a.out
Basic Code # Triangle
In C++
// A simple introductory program; its main window contains a static picture
// of a triangle, whose three vertices are red, green and blue. The program
#include <GL/glut.h>
// Clears the current window and draws a triangle.
void display() {
// Set every pixel in the frame buffer to the current clear color.
glClear(GL_COLOR_BUFFER_BIT);
// Drawing is done by specifying a sequence of vertices. The way these
// vertices are connected (or not connected) depends on the argument to
// glBegin. GL_POLYGON constructs a filled polygon.
glBegin(GL_POLYGON);
glColor3f(1, 0, 0); glVertex3f(-0.6, -0.75, 0.5);
glColor3f(0, 1, 0); glVertex3f(0.6, -0.75, 0);
glColor3f(0, 0, 1); glVertex3f(0, 0.75, 0);
glEnd();
// Flush drawing command buffer to make drawing happen as soon as possible.
glFlush();
}
// Initializes GLUT, the display mode, and main window; registers callbacks;
// enters the main event loop.
int main(int argc, char** argv) {
// Use a single buffered window in RGB mode (as opposed to a double-buffered
// window or color-index mode).
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glutInit(&argc, argv);
glutInitDisplayMode(GLUT_SINGLE | GLUT_RGB);
// Position window at (80,80)-(480,380) and give it a title.
glutInitWindowPosition(80, 80);
glutInitWindowSize(400, 300);
glutCreateWindow("A Simple Triangle");
// Tell GLUT that whenever the main window needs to be repainted that it
// should call the function display().
glutDisplayFunc(display);
// Tell GLUT to start reading and processing events. This function
// never returns; the program only exits when the user closes the main
// window or kills the process.
glutMainLoop();
}
How to run glut/ OpenGL in g++ (Ubuntu)
g++ MyProg.cpp -lGL -lGLU -lglut
```

