```
1: // $Id: triangle.cpp,v 1.9 2014-05-08 19:42:13-07 - - $
 3: #include <GL/freeglut.h>
 4: #include <libgen.h>
 6: bool flipflop = true;
7:
 8: void draw_rgb_triangle() {
9:
       glBegin(GL_TRIANGLES);
10:
       glColor3ub (0xFF, 0x00, 0x00);
11:
       glVertex2f (0, 1);
12:
       glColor3ub (0x00, 0xFF, 0x00);
       glVertex2f(-1, -1);
13:
       glColor3ub (0x00, 0x00, 0xFF);
14:
15:
       glVertex2f(1, -1);
16:
       glEnd();
17: }
18:
19: void draw_cmy_triangle() {
       glBegin(GL_TRIANGLES);
20:
21:
       glColor3ub (0x00, 0xFF, 0xFF);
       glVertex2f(0, -1);
22:
23:
       glColor3ub (0xFF, 0x00, 0xFF);
       glVertex2f (-1, 1);
24:
25:
       glColor3ub (0xFF, 0xFF, 0x00);
26:
       glVertex2f (1, 1);
27:
       glEnd();
28: }
29:
30: void display() {
31:
       glClearColor (0.2, 0.2, 0.2, 0.0);
32:
       glClear (GL_COLOR_BUFFER_BIT);
33:
       if (flipflop) draw_rgb_triangle();
34:
                else draw_cmy_triangle();
35:
       glFlush();
36: }
37:
38: void mouse (int, int state, int, int) {
       if (state == GLUT_DOWN) flipflop = not flipflop;
39:
40:
       glutPostRedisplay();
41: }
42:
43: int main (int argc, char** argv) {
44:
       glutInit (&argc, argv);
45:
       glutInitWindowSize (640, 480);
46:
       glutCreateWindow (basename (argv[0]));
       glutDisplayFunc (display);
47:
48:
       glutMouseFunc (mouse);
49:
       glutMainLoop();
50:
       return 0;
51: }
```

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## \$cmps109-wm/Assignments/asg4-oop-opengl/opengl-examples/ triangle.cpp.log

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