```
1: // $Id: teapot.cpp,v 1.2 2019-02-22 15:37:19-08 - - $
 3: #include <iostream>
 4: using namespace std;
 6: #include <GL/freeglut.h>
7: #include <libgen.h>
8:
9: bool wantsolid = true;
10:
11: void display() {
12:
13:
        /* clear window */
14:
        glClear (GL_COLOR_BUFFER_BIT);
15:
16:
        /* draw scene */
17:
        if (wantsolid) glutSolidTeapot (.5);
18:
                  else glutWireTeapot (.5);
19:
        /* flush drawing routines to the window */
20:
21:
        glFlush();
22:
23: }
24:
25: void mouse (int button, int state, int x, int y) {
26:
       if (state == GLUT_DOWN) wantsolid = not wantsolid;
27:
       cout << boolalpha;
28:
       cout << "button=" << button << ", state=" << state</pre>
29:
            << ", x=" << x << ", y=" << y
30:
            << ", wantsolid=" << wantsolid << endl;
31:
       glutPostRedisplay();
32: }
33:
34: int main (int argc, char** argv) {
35:
36:
        // Initialize GLUT, using any commandline parameters passed.
37:
        glutInit (&argc, argv);
38:
39:
        // Setup the size, position, and display mode for new windows.
        glutInitWindowSize (500, 500);
40:
41:
        glutInitWindowPosition (0, 0);
        glutInitDisplayMode (GLUT_RGB);
42:
43:
44:
        // Create and set up a window.
45:
        glutCreateWindow (basename (argv[0]));
46:
        glutDisplayFunc (display);
47:
        glutMouseFunc (mouse);
48:
49:
        // Tell GLUT to wait for events.
50:
        glutMainLoop();
51: }
52:
53: //TEST// mkpspdf teapot.ps teapot.cpp*
54:
```

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\$cmps109-wm/Assignments/labg-x11-opengl/other-tests teapot.cpp.log

1/1