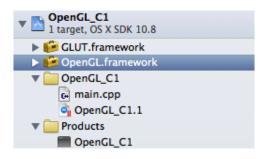
$SimSun\ zh=0pt\ plus\ 1pt$

OpenGL C1

1

Mac OS X10.8.2XcodeOpenGLGLUT



2

openGLOpenGLOpenGL

3

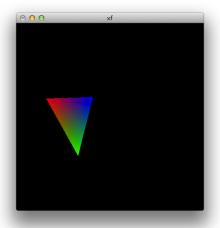
Listing 1: Main

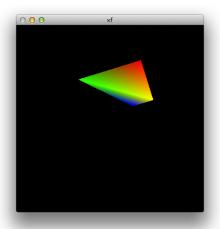
```
int main(int argc, char ** argv)
{
    glutInit(&argc, argv);
    glutInitDisplayMode(GLUT_DOUBLE|GLUT_RGBA|GLUT_DEPTH);
    glutInitWindowSize(400 , 400);
    glutInitWindowPosition(100, 100);
    glutCreateWindow("xf");
    glutSetCursor(GLUT_CURSOR_CROSSHAIR);
```

```
glutDisplayFunc(&myDisplay);
    glutIdleFunc(&myDisplay);
    glutMainLoop();
    return 0;
}
                           Listing 2: Display
void myDisplay()
{
    glClear (GL_COLOR_BUFFER_BIT | GL_DEPTH_BUFFER_BIT);
    glLoadIdentity();
    glRotatef(angle, 0.0, 0.0, 1.0);
     glTranslatef(-0.5, -0.5, 0);
     glBegin (GL_TRIANGLES);
     glColor3f(1.0, 0, 0);
     glVertex3f(0.0,0.0,0.0);
     glColor3f(0.0, 1, 0);
     glVertex3f(0.7,0.0,0.0);
    glColor3f(0.0, 0.0, 1.0);
    glVertex3f(0.227,0.446,0.0);
     glEnd();
    glutSwapBuffers();
    angle -=0.2;
}
  (5,5,3)SMOOTH
                           Listing 3: Display
void myDisplay()
{
    if (paint) glShadeModel(GLSMOOTH);
        else
    glShadeModel(GL_FLAT);
    glClear (GL_COLOR_BUFFER_BIT | GL_DEPTH_BUFFER_BIT);
    glLoadIdentity();
    glRotatef(angle, 0.0, 0.0, 1.0);
```

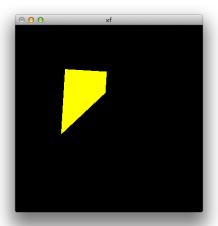
```
glTranslatef(-0.5, -0.5, 0);
    glBegin (GL_QUADS);
    glColor3f(1.0, 0, 0);
    glVertex3f(0.0,0.0,0.0);
    glColor3f(0.0, 1, 0);
    glVertex3f(0.7,0.0,0.0);
    glColor3f(0.0, 0.0, 1.0);
    glVertex3f(0.227,0.446,0.0);
    glColor3f(1.0, 1.0, 0.0);
    glVertex3f(0,0.446,1);
    glEnd();
    glutSwapBuffers();
    angle += 0.2;
}
                          Listing 4: Keyevent
void processNormalKeys(unsigned char key, int x, int y) {
    if (key == ', ')
        paint = !paint;
}
```

4





FLAT



5

[1] OpenGL()

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