

Primer clip-ravni

GLdouble eqn[4] = $\{0.0, 1.0, 0.0, 0.0\}$; /* y < 0 */
GLdouble eqn2[4] = $\{1.0, 0.0, 0.0, 0.0\}$; /* x < 0 */

glClear(GL_COLOR_BUFFER_BIT);

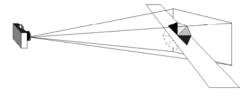
glColor3f (1.0, 1.0, 1.0); glPushMatrix(); glTranslatef (0.0, 0.0, -5.0);

glClipPlane (GL_CLIP_PLANE0, eqn); glEnable (GL_CLIP_PLANE0); glClipPlane (GL_CLIP_PLANE1, eqn2); glEnable (GL_CLIP_PLANE1);

glRotatef (90.0, 1.0, 0.0, 0.0); auxWireSphere(1.0); glPopMatrix(); glFlush();



Dodatne Clipping ravni



void glClipPlane(GLenum plane, const GLdouble *equation);

plane – GL_CLIP_PLANEi, equarion = {A, B, C, D}

Jednačina ravni: Ax+By+Cz+D=0,

odsečci na osama (x, y, z, respektivno): a = -D/A, b = -D/B, c = -D/C

Sve tačke se eye koordinatama (xe, ye, ze, we) koje zadovoljavaju nejednakost:

(A B C D) M^{-1} (xe ye ze we)^T >= 0 leže u vidljivom poluprostoru, gde je M tekuća modelview matrica u trenutku kada je pozvana funkcija glClipPlane().

glEnable(GL_CLIP_PLANE/); glDisable(GL_CLIP_PLANE/);

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GLUT pre-built models sub-API

- GLUTAPI void APIENTRY glutWireSphere(GLdouble radius, GLint slices, GLint stacks);
- GLUTAPI void APIENTRY glutSolidSphere(GLdouble radius, GLint slices, GLint stacks);
- GLUTAPI void APIENTRY glutWireCone(GLdouble base, GLdouble height, GLint slices, GLint stacks);
- GLUTAPI void APIENTRY glutSolidCone(GLdouble base, GLdouble height, GLint slices, GLint stacks);
- GLUTAPI void APIENTRY glutWireCube(GLdouble size);
- GLUTAPI void APIENTRY glutSolidCube(GLdouble size);
- GLUTAPI void APIENTRY glutWireTorus(GLdouble innerRadius, GLdouble outerRadius, GLint sides, GLint rings);
- GLUTAPI void APIENTRY glutSolidTorus(GLdouble innerRadius, GLdouble outerRadius, GLint sides, GLint rings);
- GLUTAPI void APIENTRY glutWireDodecahedron(void);
- GLUTAPI void APIENTRY glutSolidDodecahedron(void);
- GLUTAPI void APIENTRY glutWireTeapot(GLdouble size);
- GLUTAPI void APIENTRY glutSolidTeapot(GLdouble size);
- GLUTAPI void APIENTRY glutWireOctahedron(void);
- GLUTAPI void APIENTRY glutSolidOctahedron(void);
- GLUTAPI void APIENTRY glutWireTetrahedron(void);
- GLUTAPI void APIENTRY glutSolidTetrahedron(void);
- GLUTAPI void APIENTRY glutWirelcosahedron(void);
- GLUTAPI void APIENTRY glutSolidIcosahedron(void);



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