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import pygame
from pygame.locals import *

from OpenGL.GL import *
from OpenGL.GLU import *

vertices = (
    # ( x,  y,  z)
    ( 1, -1, -1), # A
    ( 1,  1, -1), # B
    (-1,  1, -1), # C
    (-1, -1, -1), # D
    ( 1, -1,  1), # E
    ( 1,  1,  1), # F
    (-1, -1,  1), # G
    (-1,  1,  1)  # H
)

edges = (
    (0, 1),
    (0, 3),
    (0, 4),
    (2, 1),
    (2, 3),
    (2, 7),
    (6, 3),
    (6, 4),
    (6, 7),
    (5, 1),
    (5, 4),
    (5, 7)
)

surfaces = (
    (0, 1, 2, 3),
    (3, 2, 7, 6),
    (6, 7, 5, 4),
    (4, 5, 1, 0),
    (1, 5, 7, 2),
    (4, 0, 3, 6)
)

color = (
    (1, 0, 0),
    (0, 1, 0),
    (0, 0, 0),

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(0, 0, 1),
(1, 1, 1),
(0, 1, 1),
(1, 0, 0),
(0, 1, 0),
(0, 0, 1),
(0, 1, 0),
(0, 0, 1),
(0, 0, 0)
)

def Cube():
    glBegin(GL_QUADS)
    for surface in surfaces:
        x = 0
        glColor3fv((1, 0, 0))
        for vertex in surface:
            x += 1
            glColor3fv(color[x])
            glVertex3fv(vertices[vertex])
    glEnd()

    glBegin(GL_LINES)
    glColor3fv((0, 0.9, 0))
    for edge in edges:
        for vertex in edge:
            glVertex3fv(vertices[vertex])
    glEnd()

def main():
    pygame.init()
    screen = pygame.display.set_mode((800, 600), DOUBLEBUF | OPENGL)

    gluPerspective(45, (800 / 600), 0.1, 50)
    glTranslatef(0, 0, -40)
    glRotatef(0, 0, 0, 0)

    object_passed = False
    move_x = 0
    move_y = 0

    while not(object_passed):
        for event in pygame.event.get():
            if event.type == pygame.QUIT:
                pygame.quit()

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    if event.type == pygame.KEYDOWN:
        if event.key == pygame.K_LEFT:
            move_x = 0.5
        if event.key == pygame.K_RIGHT:
            move_x = -0.5
        if event.key == pygame.K_UP:
            move_y = -0.5
        if event.key == pygame.K_DOWN:
            move_y = 0.5

    if event.type == pygame.KEYUP:
        if event.key == pygame.K_LEFT or event.key == pygame.K_RIGHT:
            move_x = 0
        if event.key == pygame.K_UP or event.key == pygame.K_DOWN:
            move_y = 0.5

    if event.type == pygame.MOUSEBUTTONDOWN:
        if event.button == 4:
            glTranslatef(0, 0, -5)
        if event.button == 5:
            glTranslatef(0, 0, 5)

    x = glGetDoublev(GL_MODELVIEW_MATRIX)
    coord = [[c for c in r] for r in x]
    # print(coord)

    camera_x = coord[3][0]
    camera_y = coord[3][1]
    camera_z = coord[3][2]
    # print("x =", camera_x, "y =", camera_y, "z =", camera_z)

    if camera_z < -1:
        object_passed = True

    # glRotatef(1, 1, 1, 1)
    glClear(GL_COLOR_BUFFER_BIT|GL_DEPTH_BUFFER_BIT)
    glTranslatef(move_x, move_y, 0.5)
    Cube()
    pygame.display.flip()
    pygame.time.wait(10)

for i in range(10):
    main()
    glLoadIdentity()

```