

Project C: Shaded and lighted 3D Polygons in the ground

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User's Guide

Goal: Make shaded 3D objects with lights and materials. Users can smoothly control 3D camera positions and aiming direction. Users can drag the head light smoothly.

Users can use DAT.GUI to switch on off the headlight and the lamp.

Users can use DAT.GUI to adjust the R,G,B values for lamp ambient, diffuse and specular light.

Users can hit left, right, up, down arrow to make the camera step around.

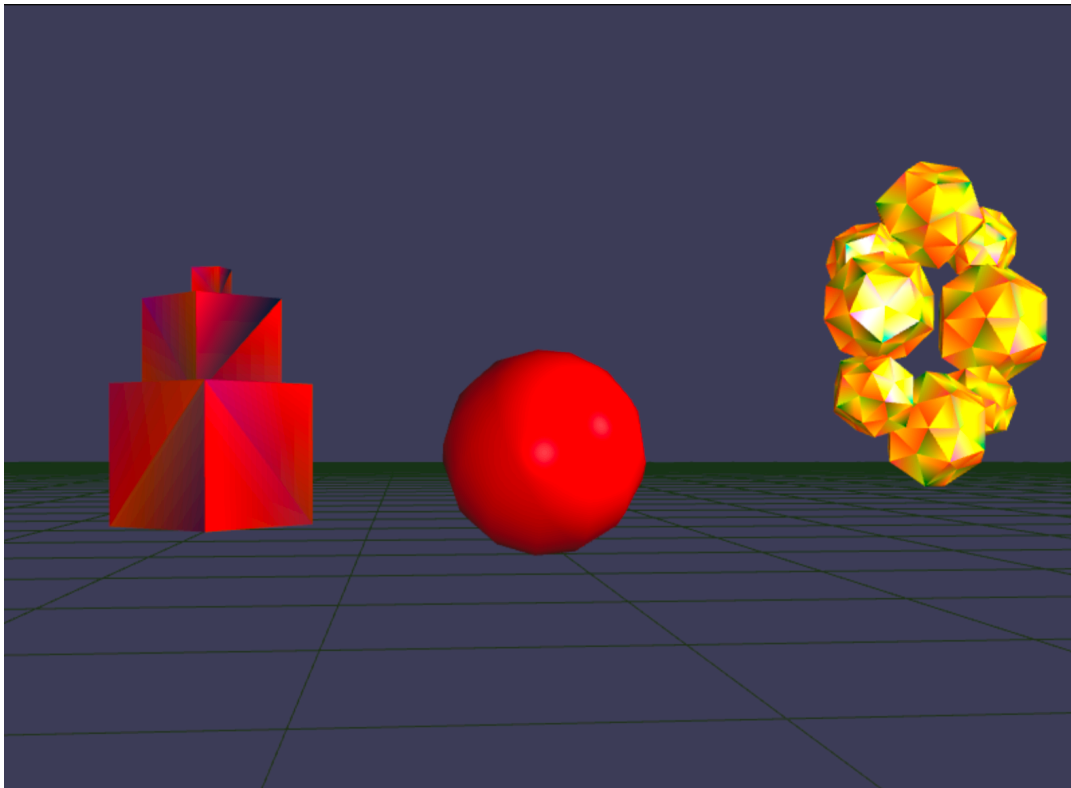
Users can hit A D W S keys to change the camera's aiming direction.

Users can switch between lighting and shading methods.

Results

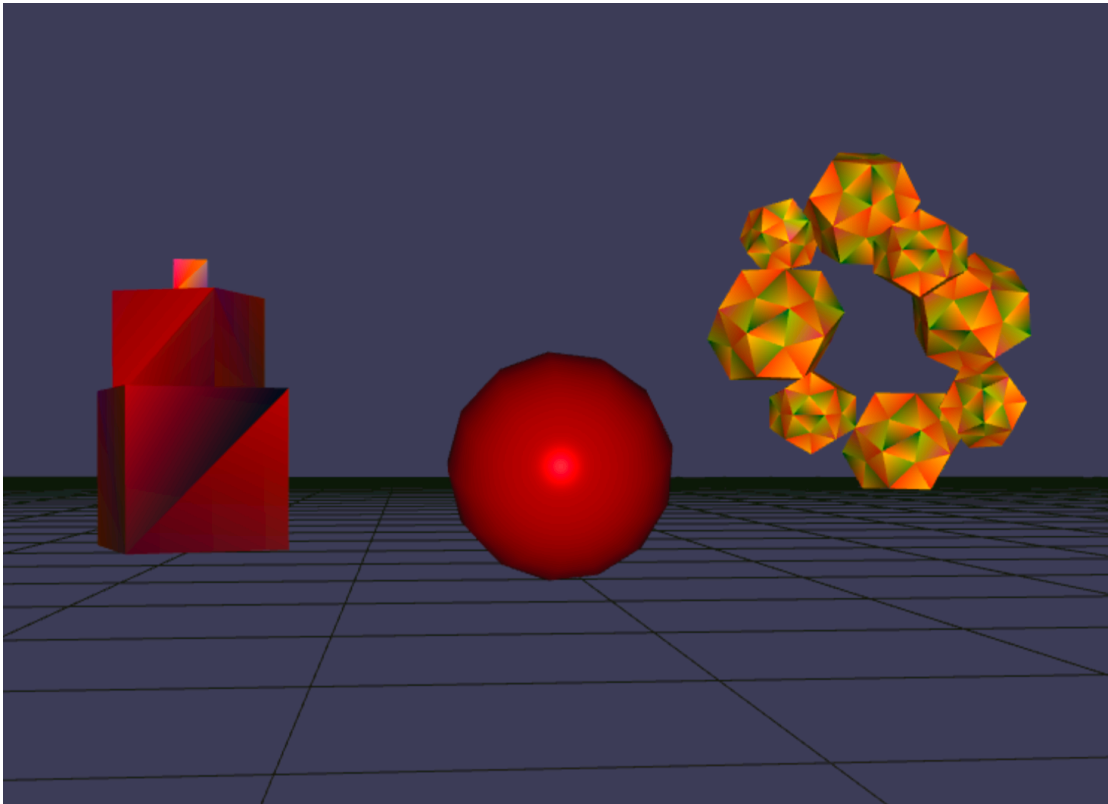
Turn lamp down

User switches the lamp light off.



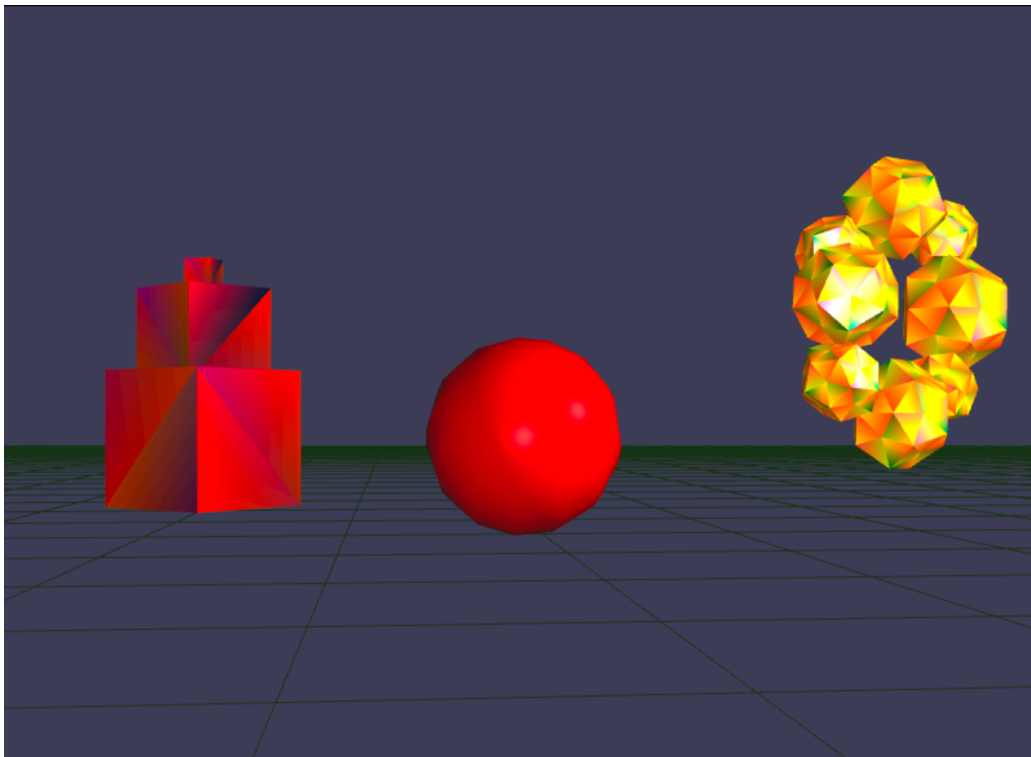
Before switching



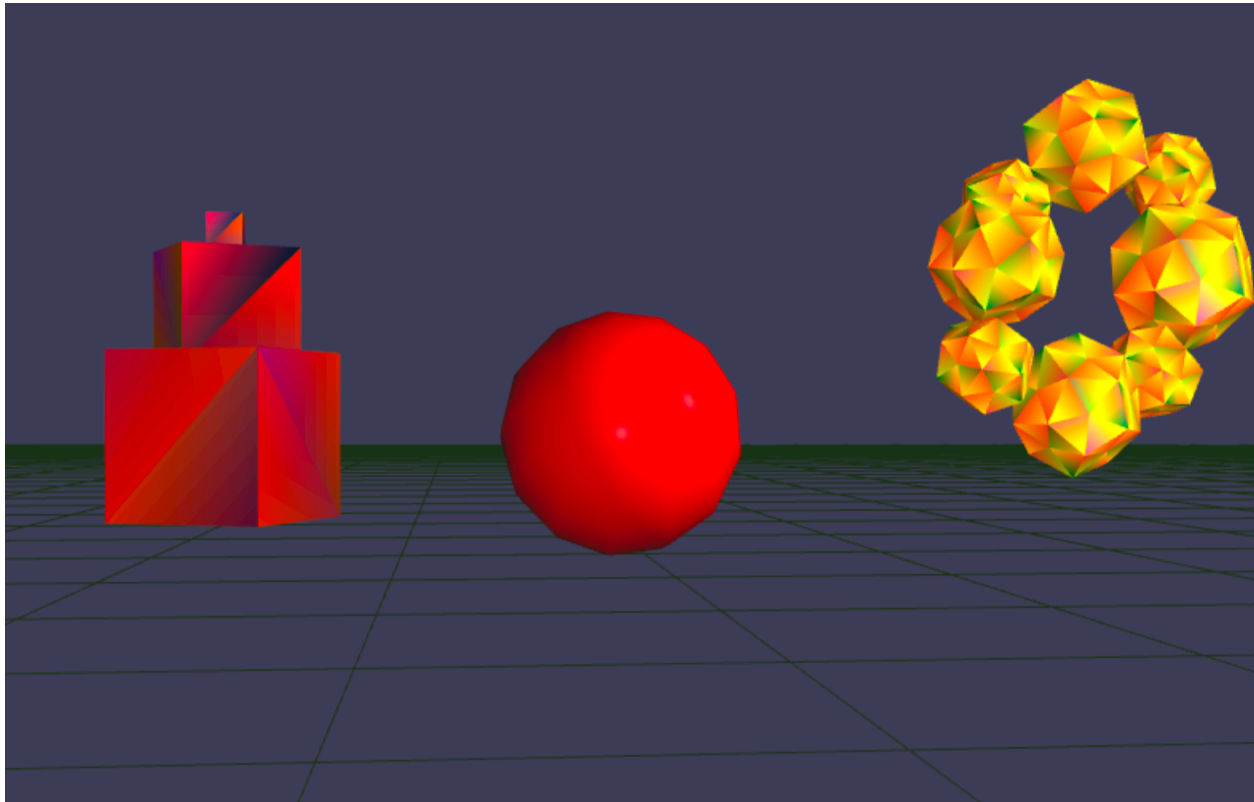


After switching

Switching lighting and shading method:
Users use DAT.GUI to switch lighting and shading method.

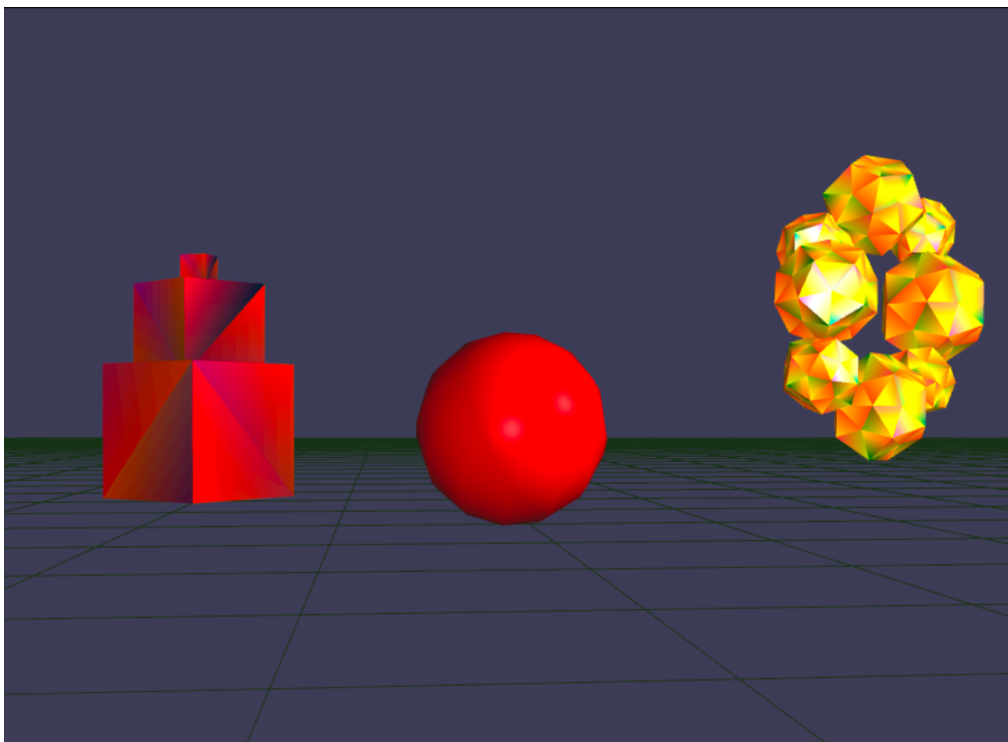


Before switching

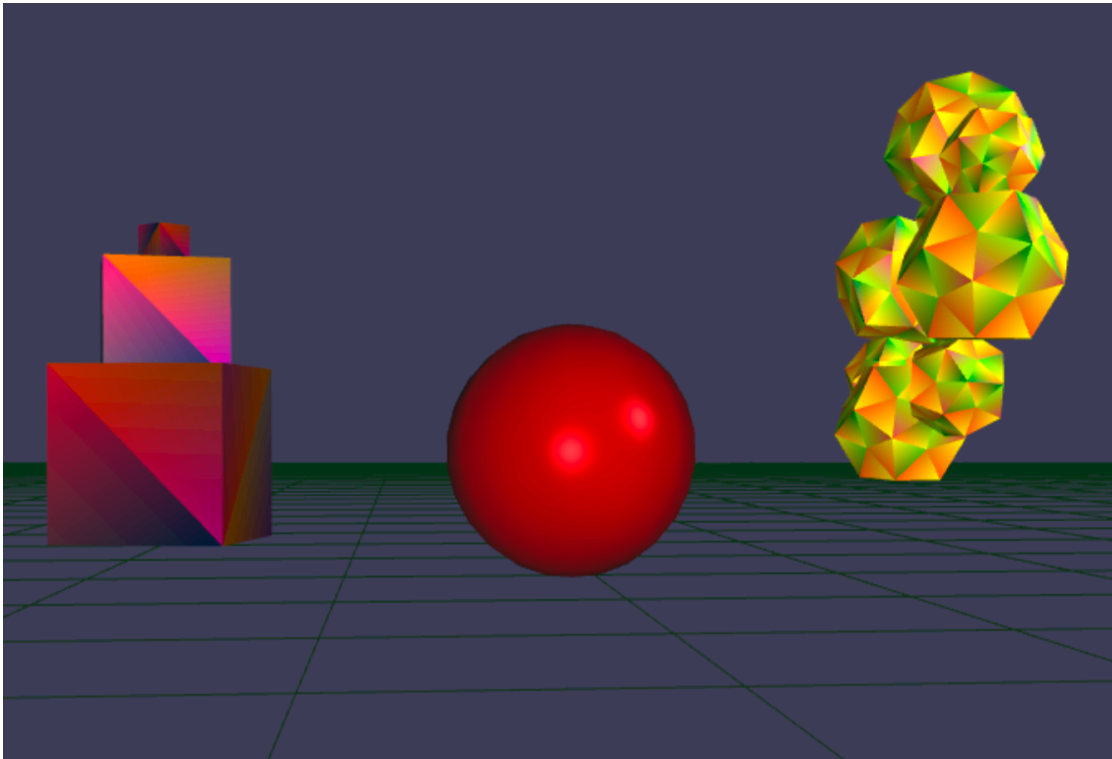


After switchina to Phona liahtina

Changing lamp ambient and diffuse:
Users use DAT.GUI to change the lamp ambient and diffuse R,G,B.



Before changing



After changing

Scene Graph

