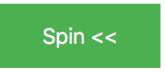
Project A: swimming model and planetary system Goal

Design and draw two different 3D parts which have two or more sequential, moving joints.

User-guide

Open the html file, there are one sequential rectangles, which models the posture of swimming, and a planet system, where three small balls spin around a big ball.

1. Press a button "Spin<<" as following to make to the graphics rotate to left more quickly. If graphics are spinning towards right, the spinning speed will slow down.



P1

2. Press a button like P2 to make it graphics to spinning to right quickly.



3. Press "Run/Stop" to run the movements of graphics or stop them.



- 4. Use mouse to drag the graphic to observe graphic with different view.
- 5. Click on canvas with mouse to relocate the rotation center of planetary system.
- 6. Stop the graphic quickly through press "Space" on the keyboard.

Result

This is the beginning of my graphics. The smaller balls will spin around the biggest ball.

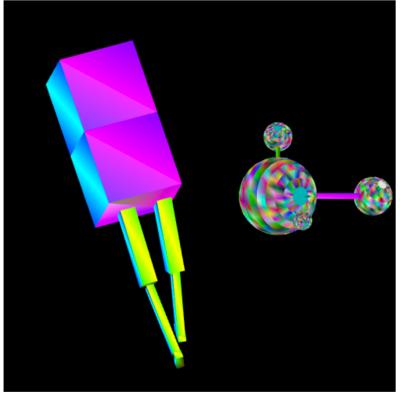


Figure 1 Then if dragging the graphic with mouse, the following picture appears.

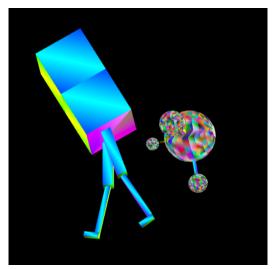


Figure 2

Clicking on the canvas, the planetary system will relocate at a new address.

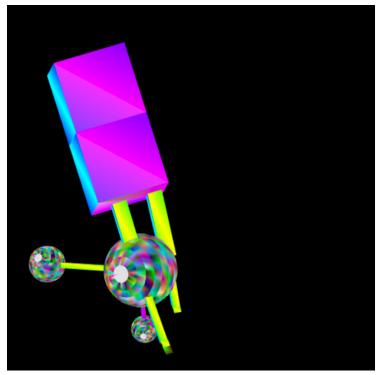
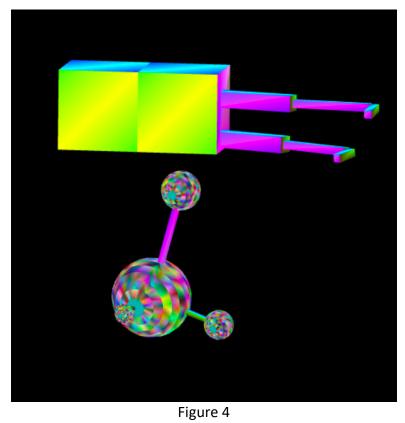
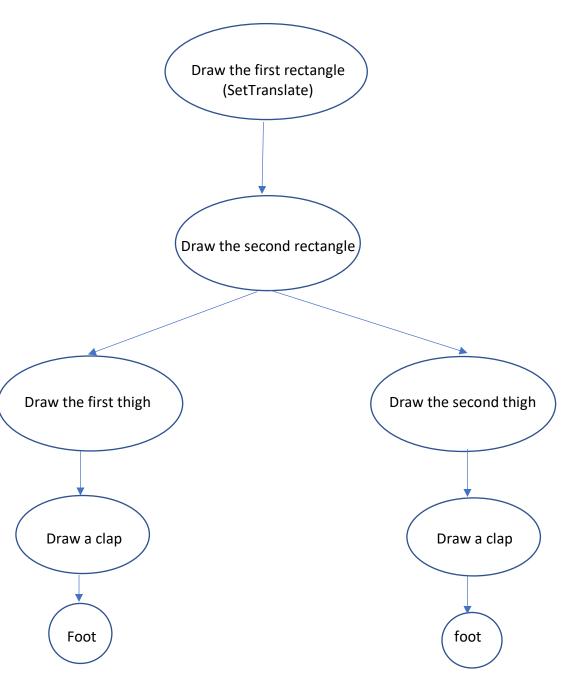


Figure 3



Sketch of program's scene-graph

The tree of swimming graphic



The tree of planetary system

