

CSC 240

Computer Graphics

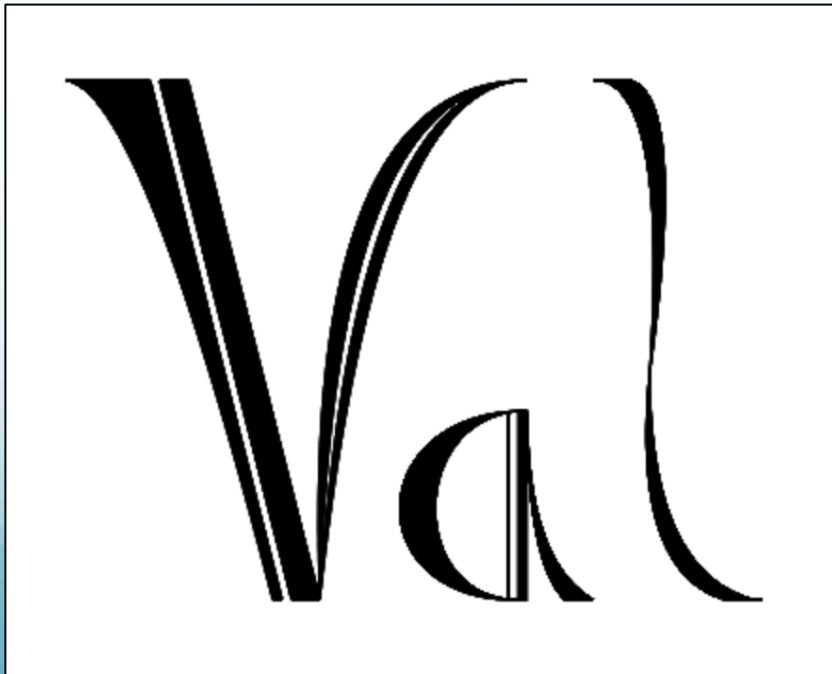
Sara Mathieson
Fall 2016
Smith College

Outline: 11/7

- Homework 5 demos
- Hierarchical Modeling
- Handout 5 last problem, fov problem
- Lab 8
 - **HW 6**: due tomorrow Nov 8
 - Midterms back Wednesday
 - **Office Hours**: Mon/Tues 4-5pm
 - can also come Thurs 4-5pm

Homework 5 examples

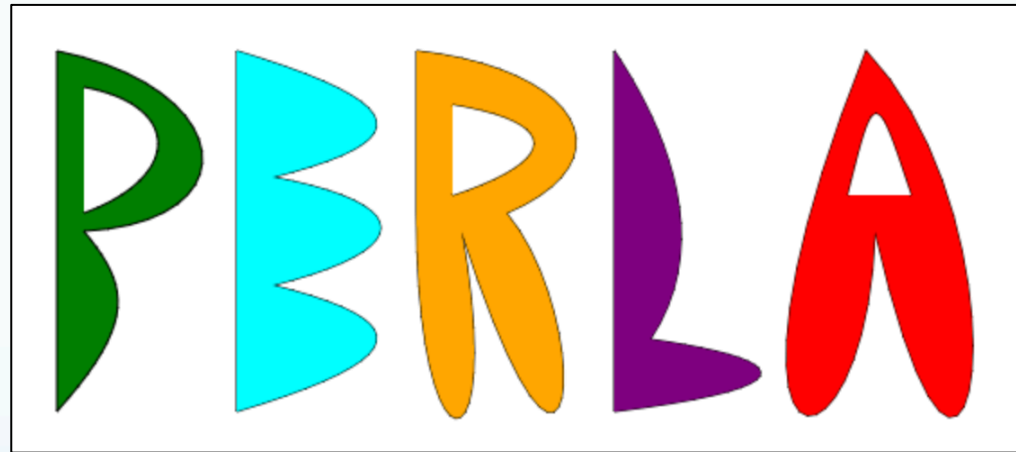
ANJALI



Homework 5 examples



Mel

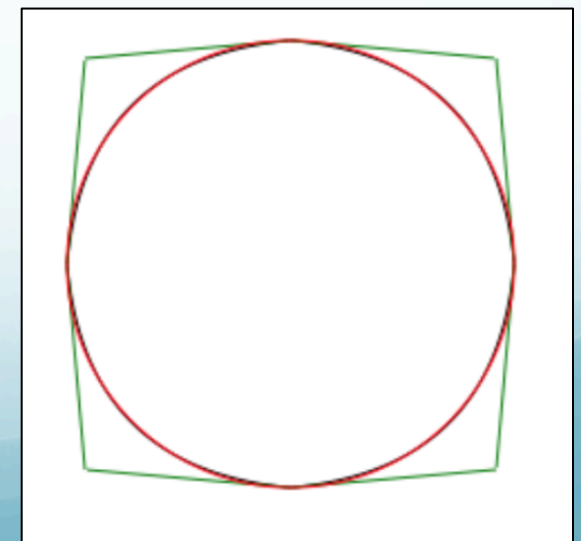
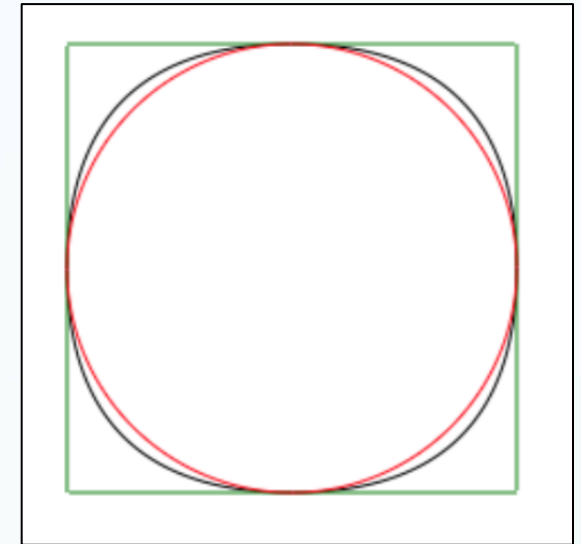
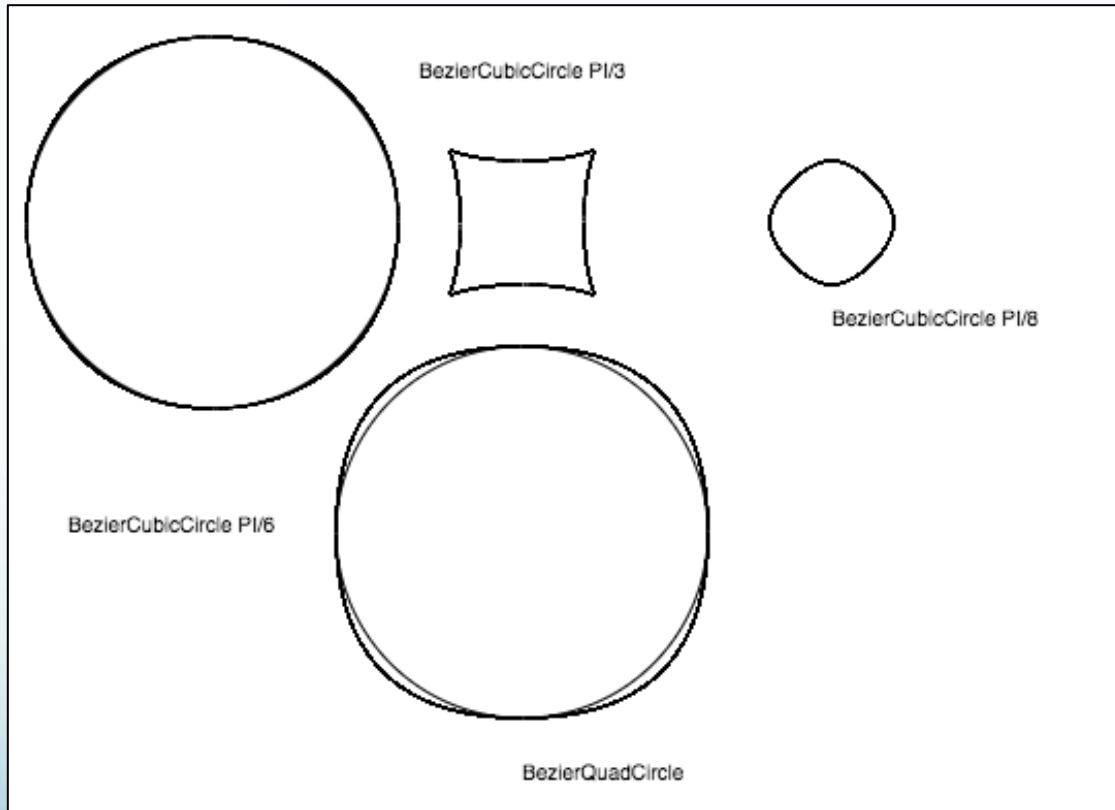


PERLA

Homework 5 examples

Kathleen

Ji Won

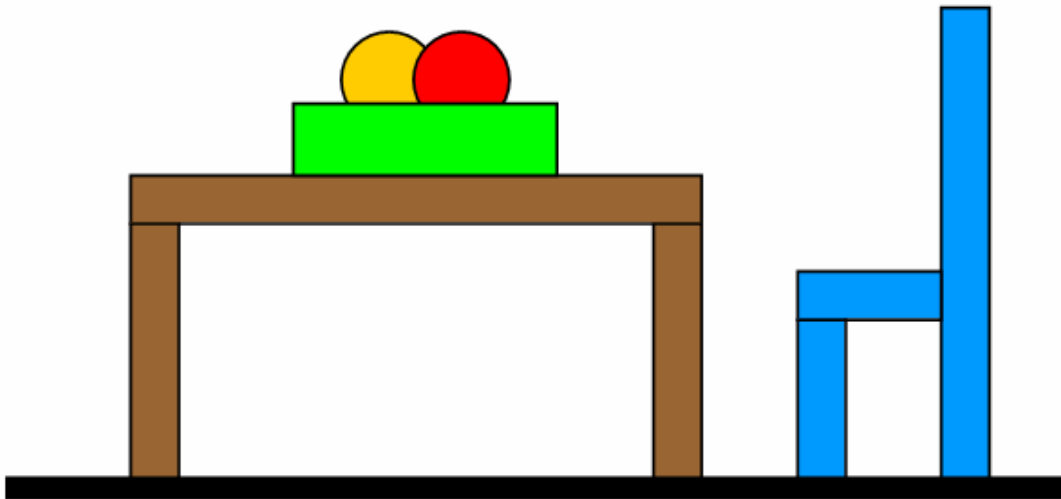


Hierarchical Models

Why Group?

- Scene Organization

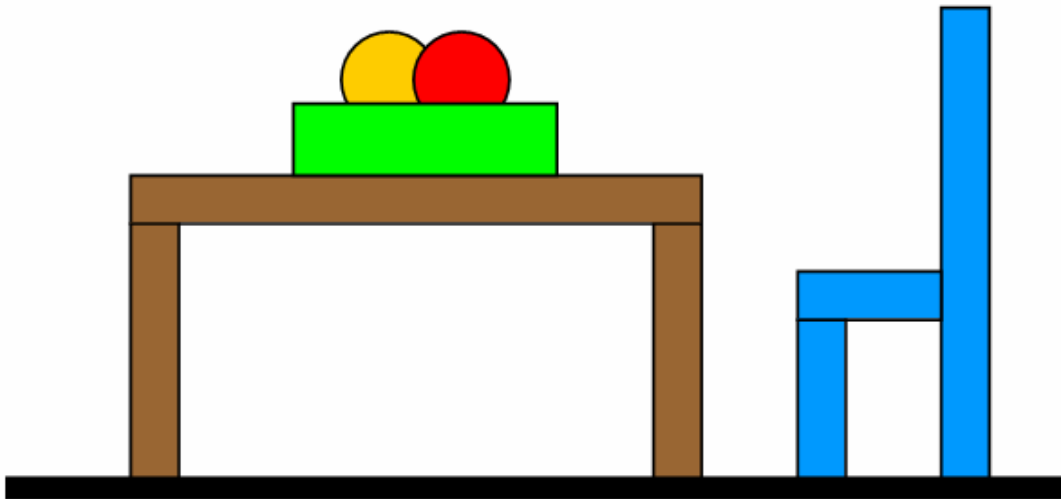
Room
Floor
Table
Chair



Why Group?

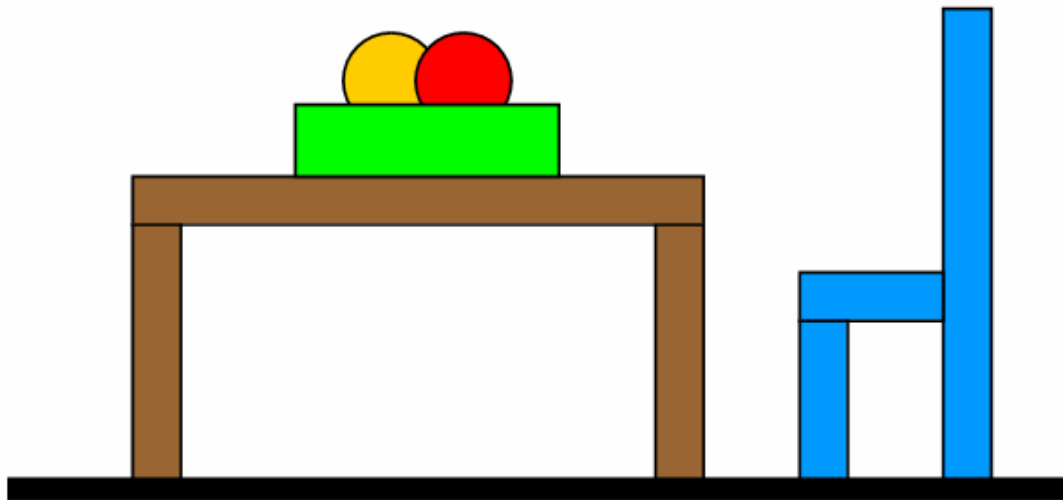
- Scene Organization

Room
Floor
Plane
Table
Chair



Why Group?

- Scene Organization



Room

Floor

Plane

Table

Bowl

Sphere

Sphere

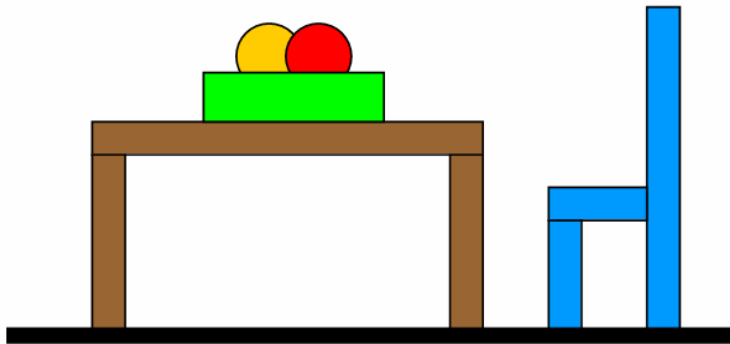
Box

Box

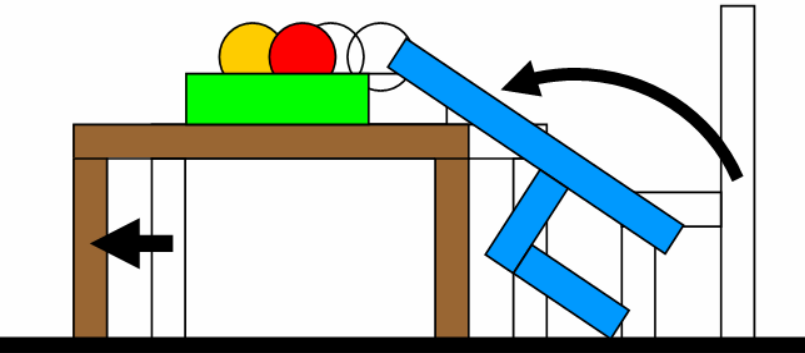
Box

Chair

Add Transforms to Group



```
bowl = group()  
bowl.addObject(Sphere(...))  
bowl.addObject(Sphere(...))  
table = group()  
table.addTransform(Translate(-2,0,0))  
table.addObject(bowl)  
table.addObject(Box(...))  
table.addObject(Box(...))  
table.addObject(Box(...))  
chair = group()  
chair.addTransform(RotateZ(45))  
...  
room = group()  
room.addObject(bowl)  
room.addObject(table)  
room.addObject(chair)  
room.addObject(Plane(...))
```



Useful for animation

