

## COMPUTAÇÃO GRÁFICA

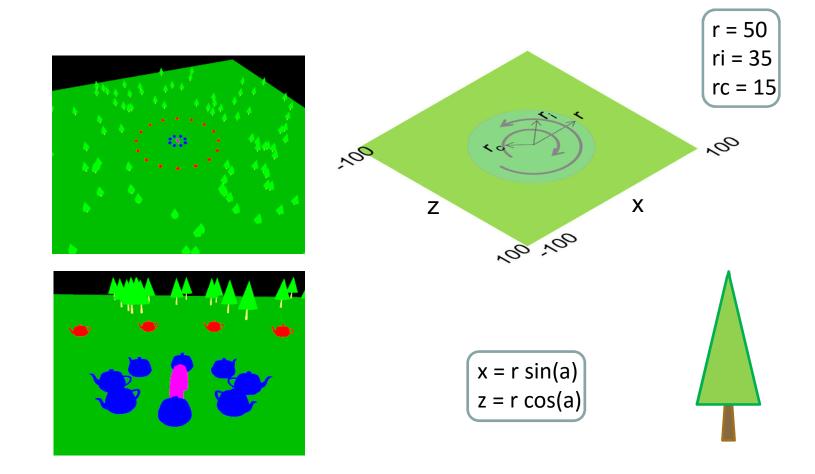


## **Geometric Transformations**

Building a 3D World



# 3D World





## 3D World

#### Required functions

```
(stdlib.h)
void srand(int seed); // start the random number sequence
int rand(void); // returns a number between 0 and RAND MAX
void glTranslatef(float x, float y, float z);
void glRotatef(float ang, float x, float y, float z); // ang in degrees
void glPushMatrix(void);
void glPopMatrix(void);
void glutSolidCone(float baseRadius,float height, int slices,int stacks);
void glutSolidTorus(float innerRadius, float outterRadius, int sides, int rings);
void glutSolidTeapot(float dimensao);
glBegin(GL TRIANGLES);
     glVertex3f(...);
glEnd();
```