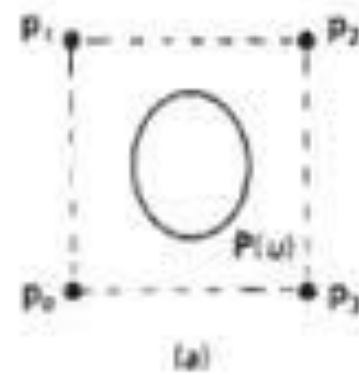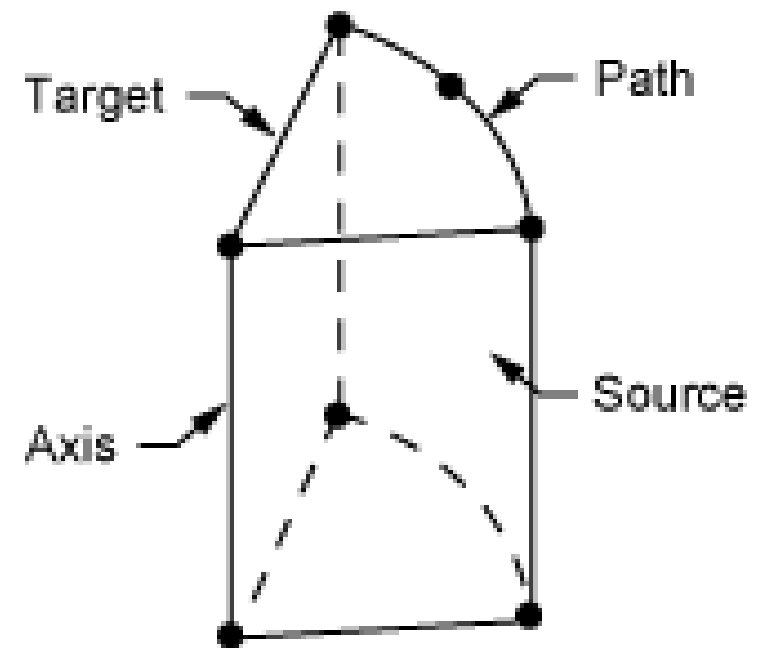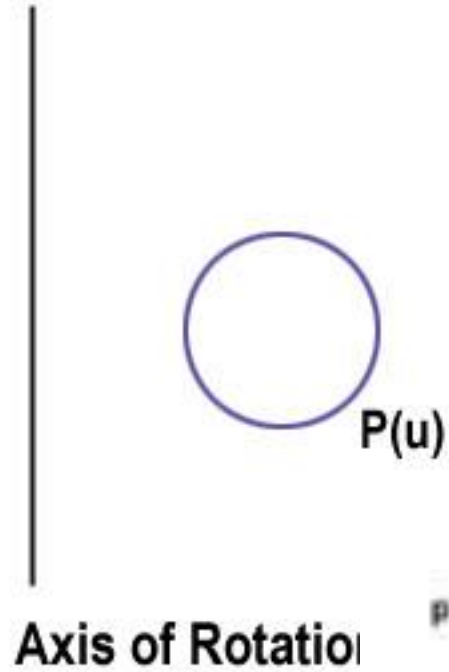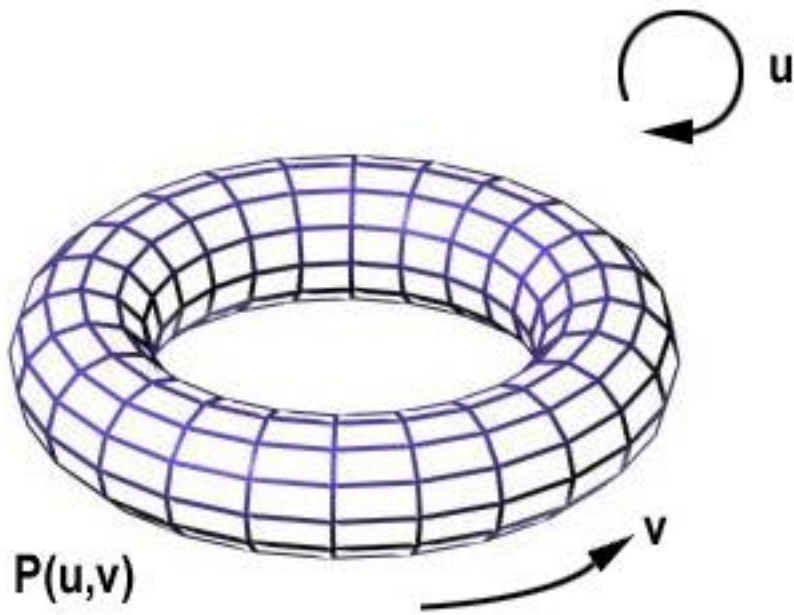# Representações Geométricas

Exemplos dos Métodos

$P(u,v)$

u

Axis of Rotation

$P(u)$

Target

Path

Axis

Source

P_1

P_2

$P(u)$

P_0

P_3

(a)

$P(u,v)$

(b)
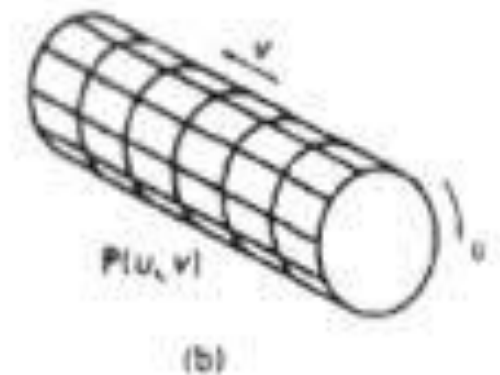
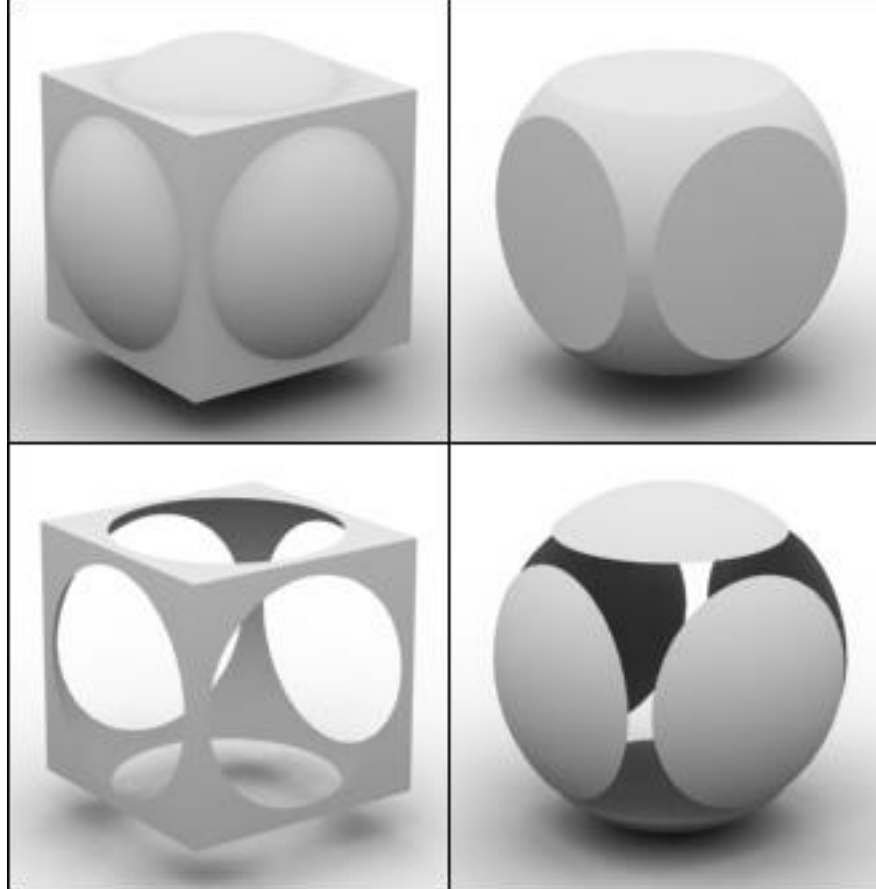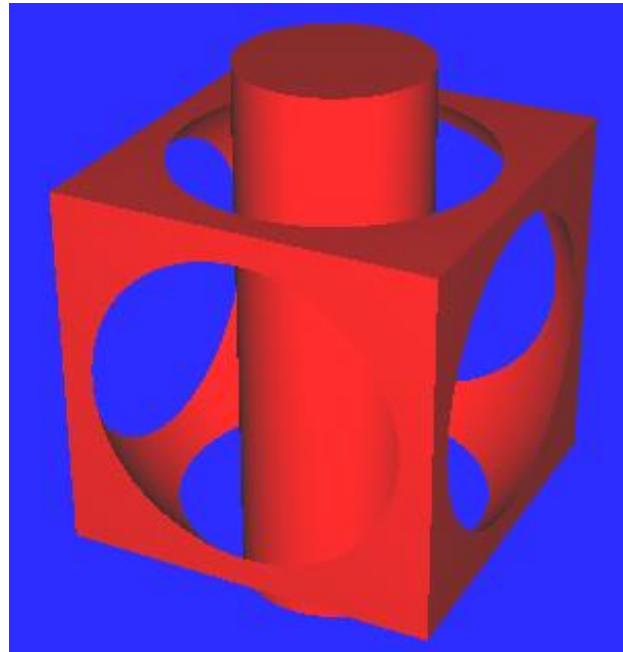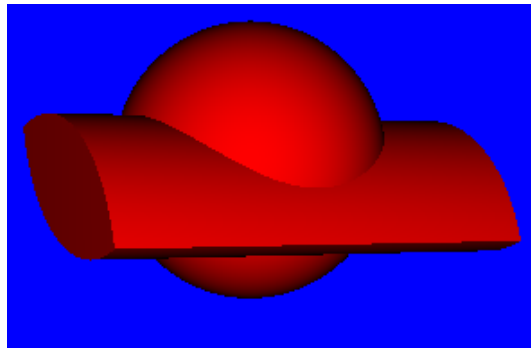**Sweep**

Constructing a solid with a translational sweep. Translating the control points of the periodic spline curve in (a) generates the solid shown in (b), whose surface can be described with point function $P(u,v)$.
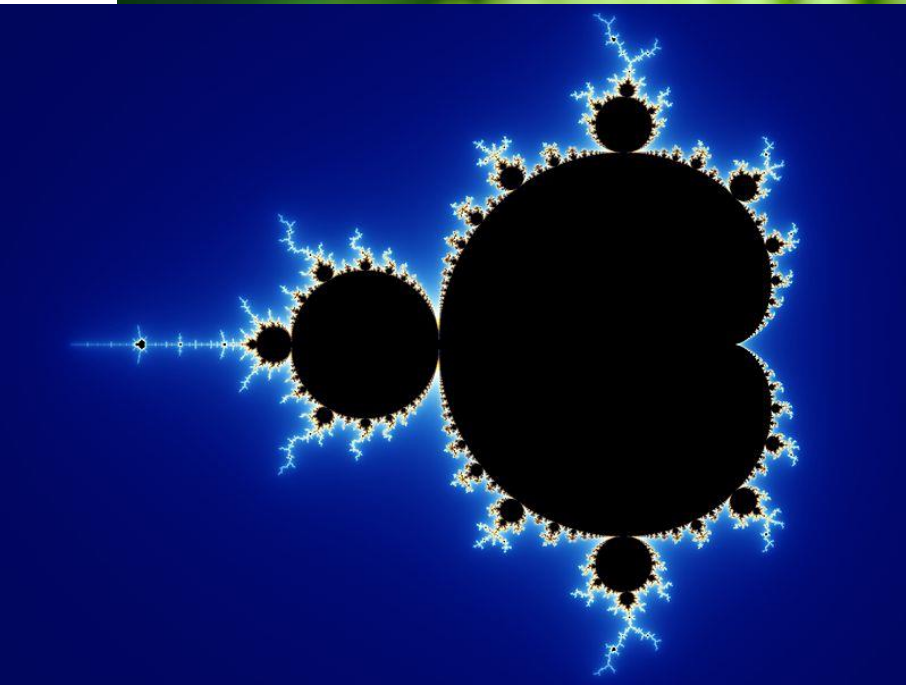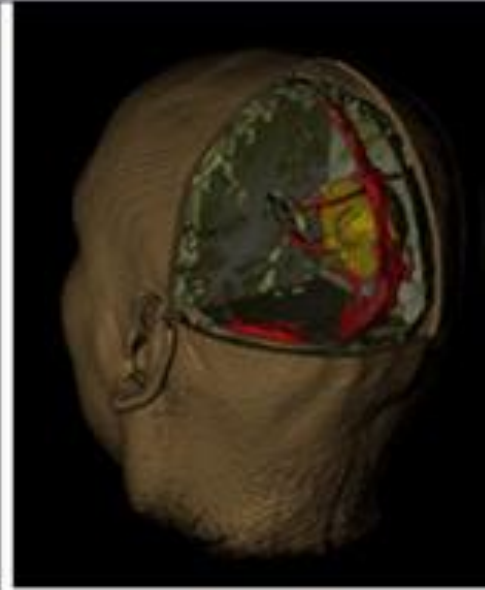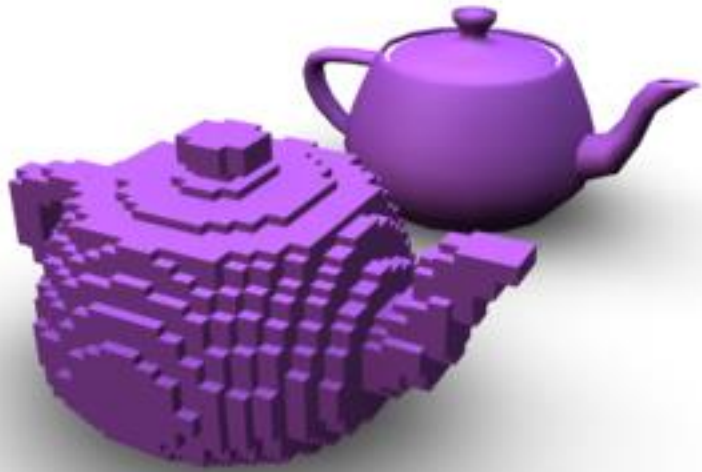
CSG
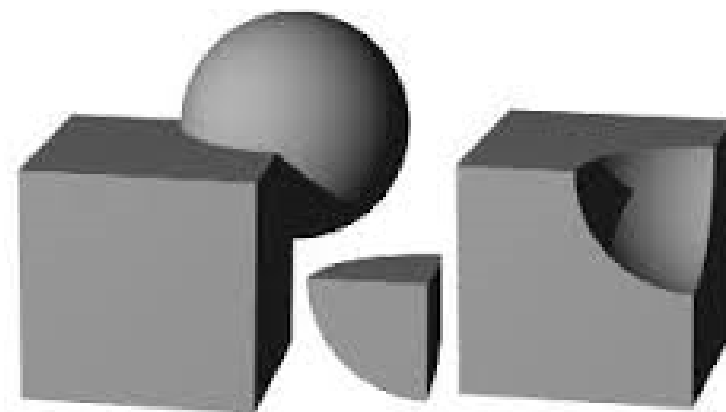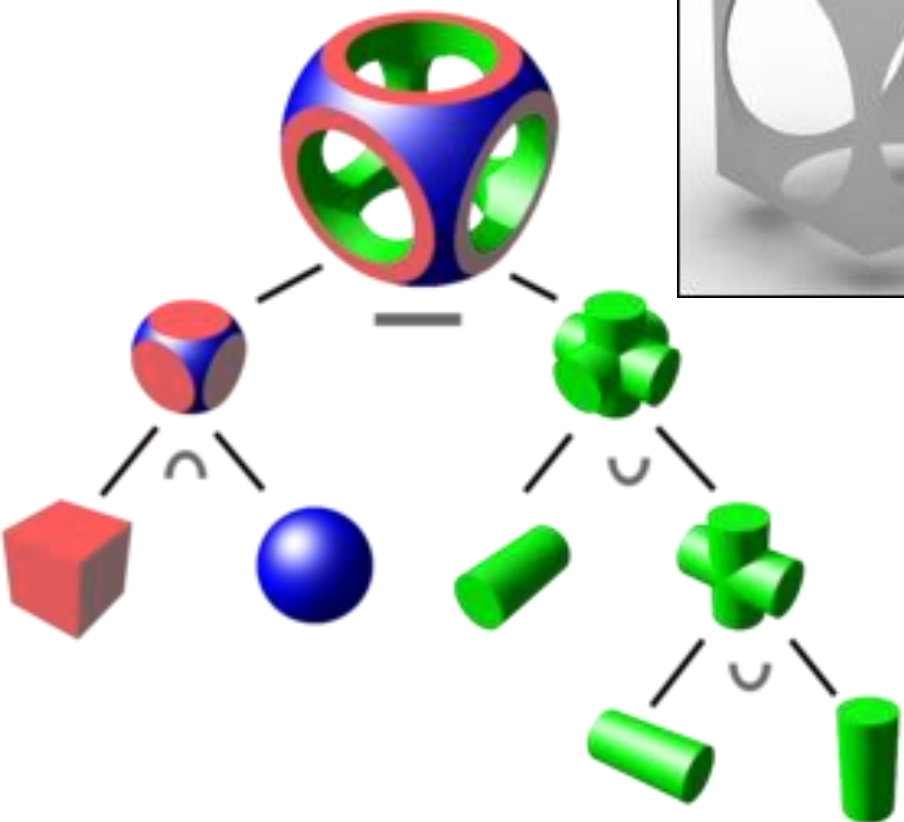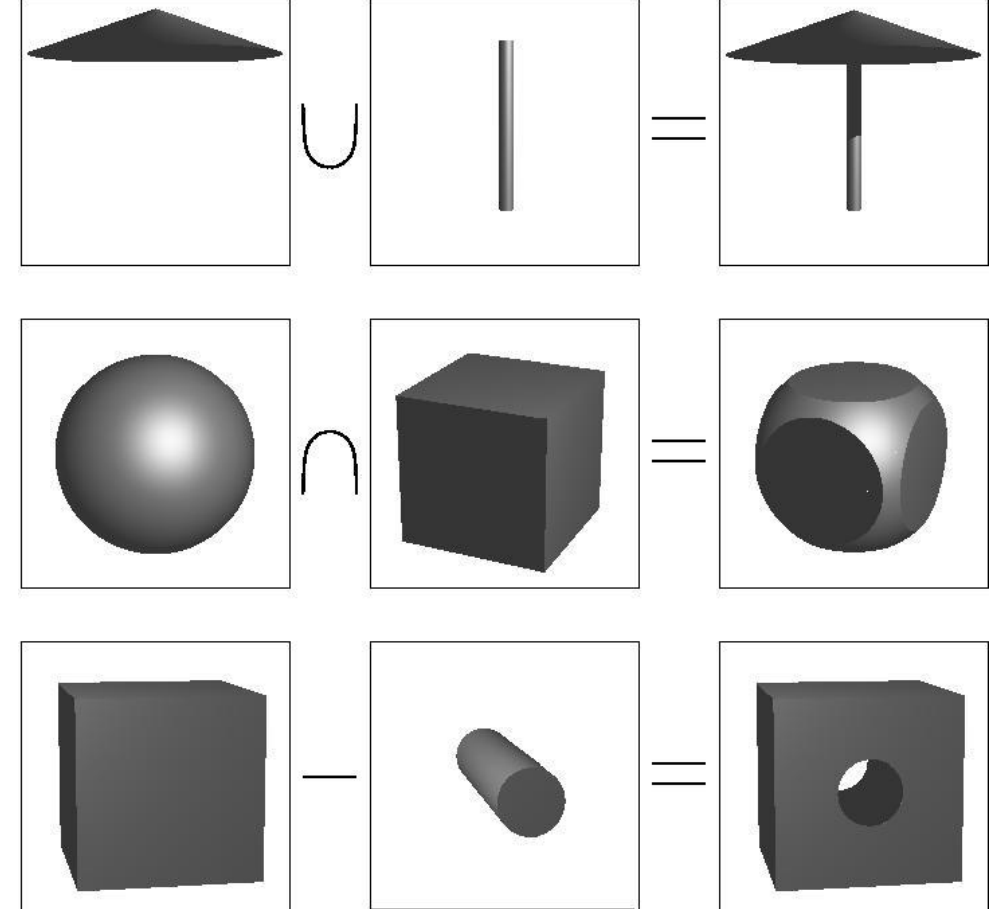
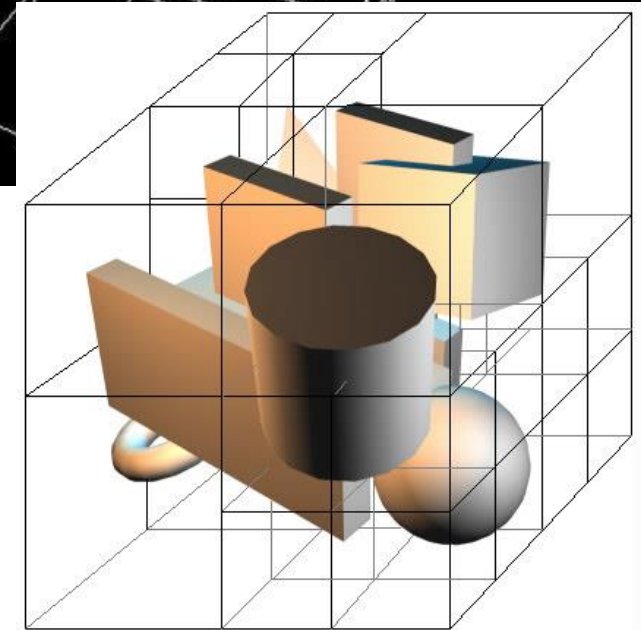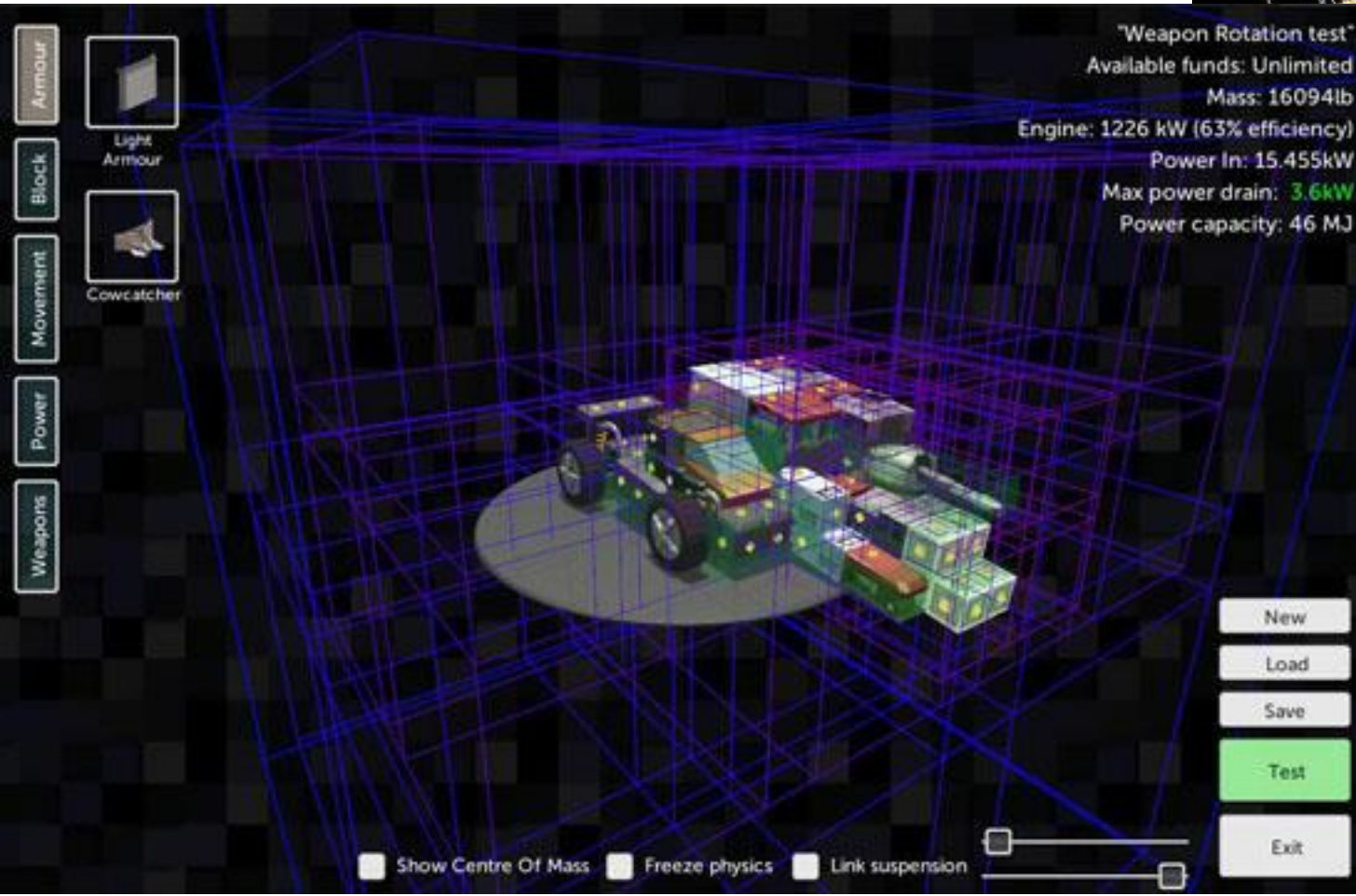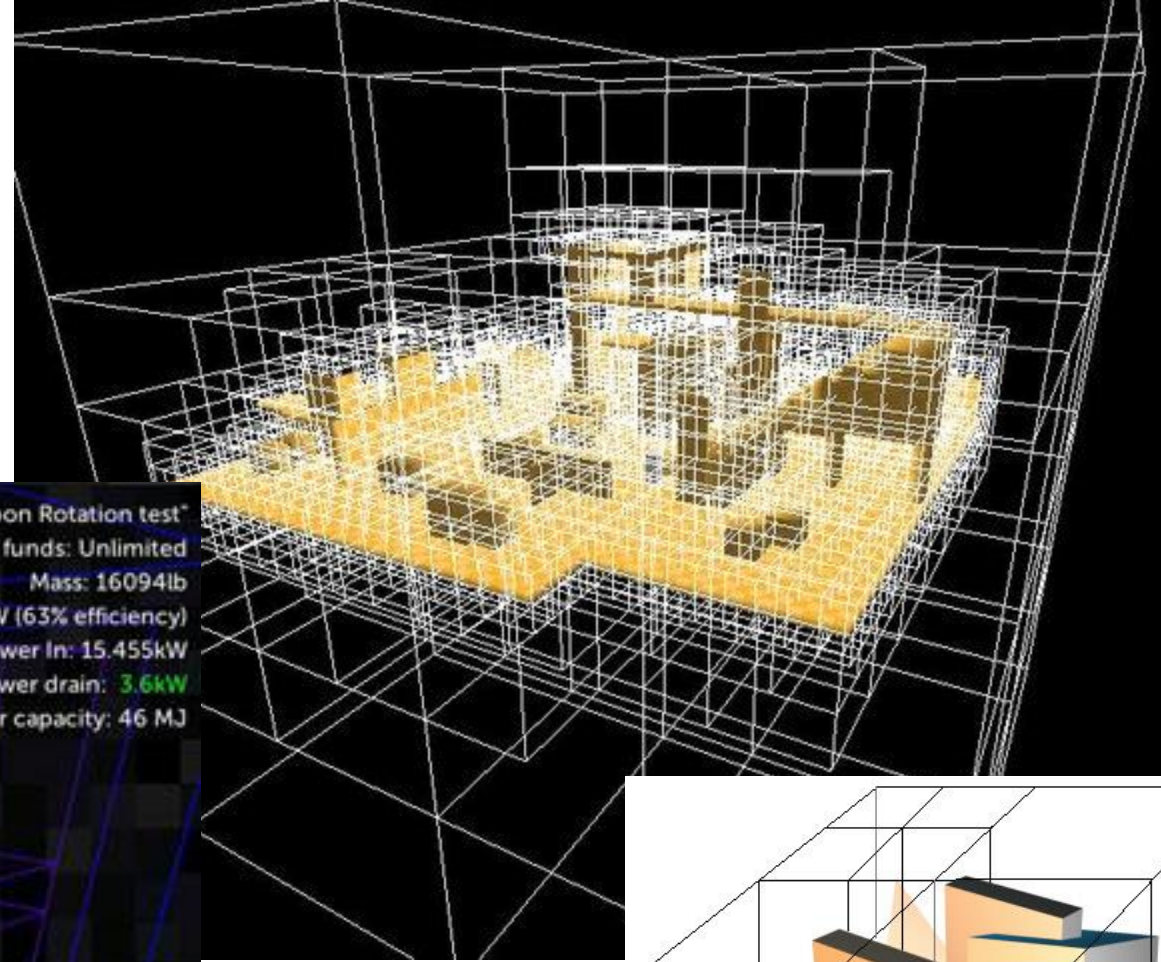# Exercício - Monte a árvore CSG destes sólidos
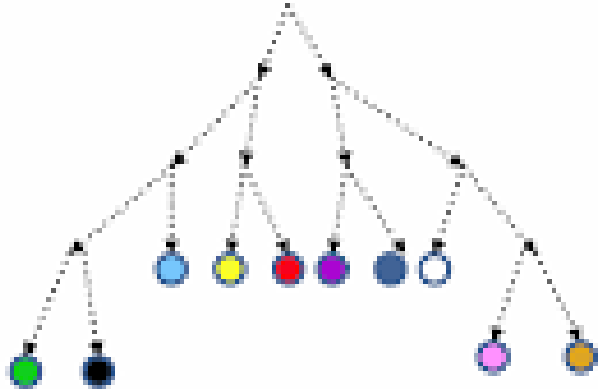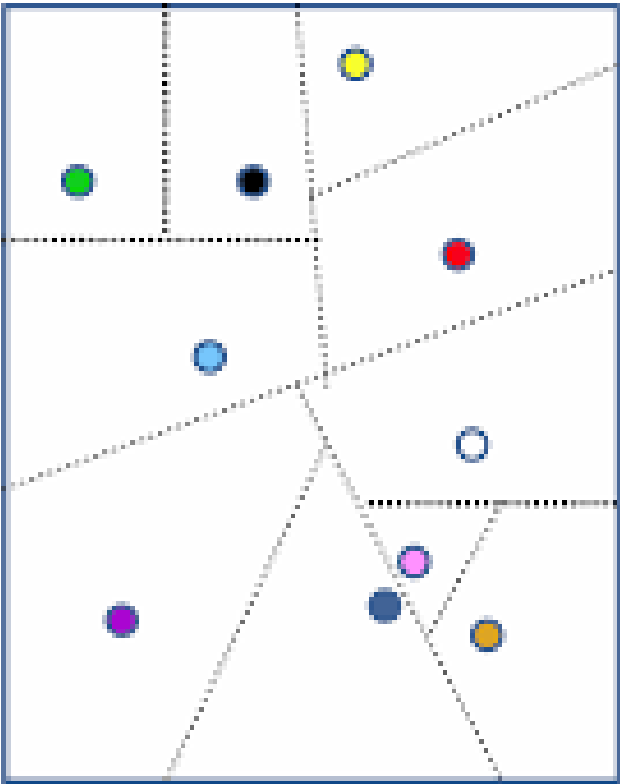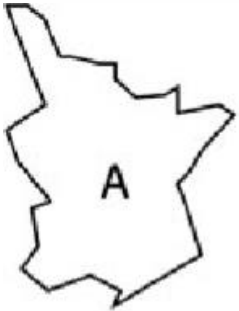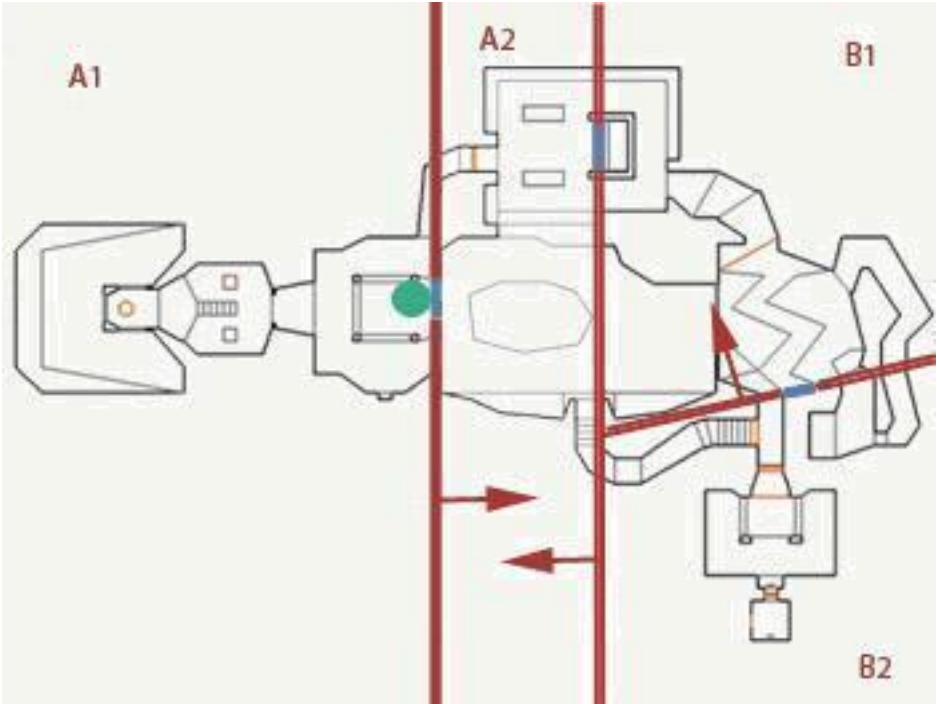
Fractais
Mandelbrot

Voxels

original 3d object   3d object converted to cubes

Octree

BSP