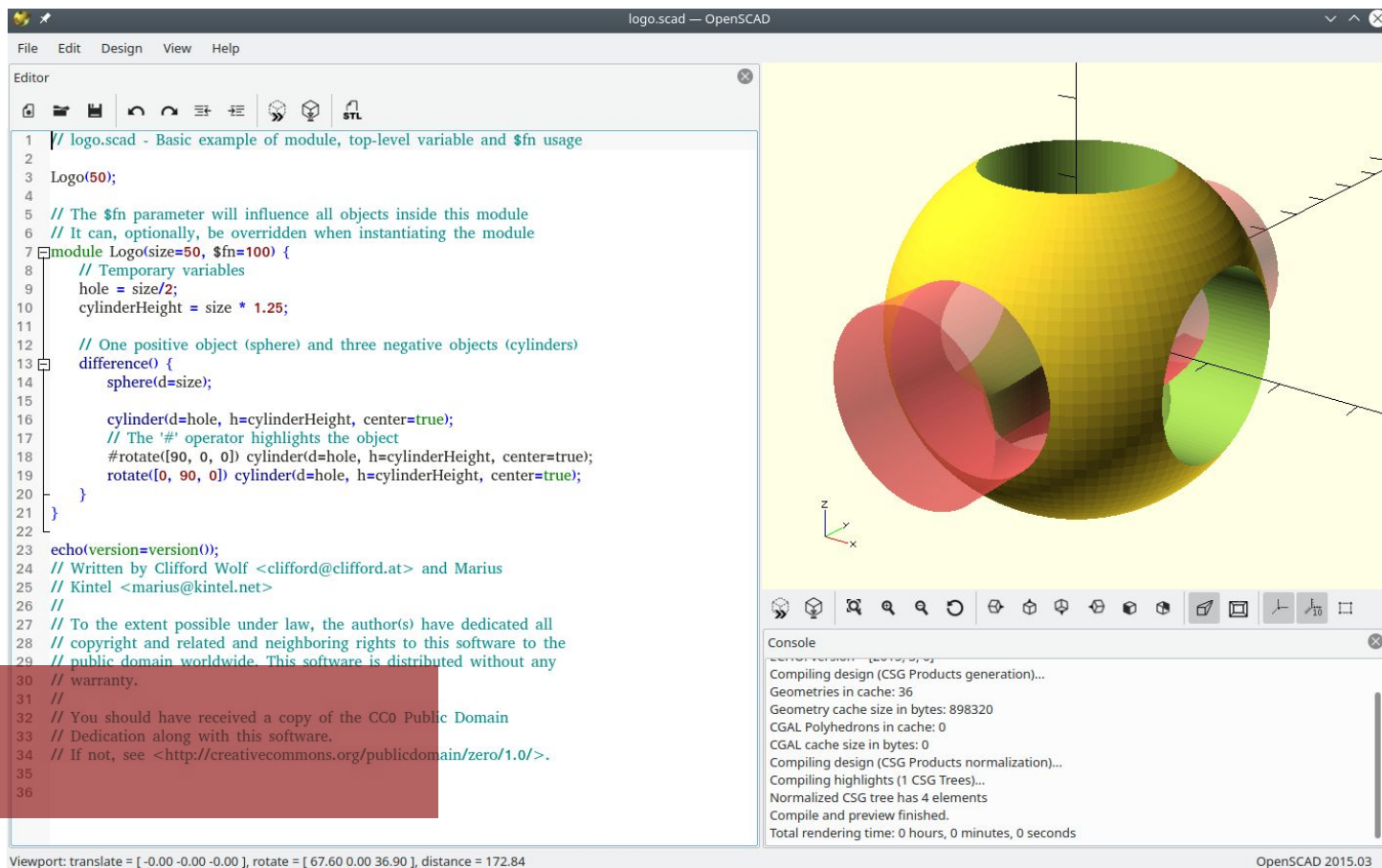


OpenSCAD

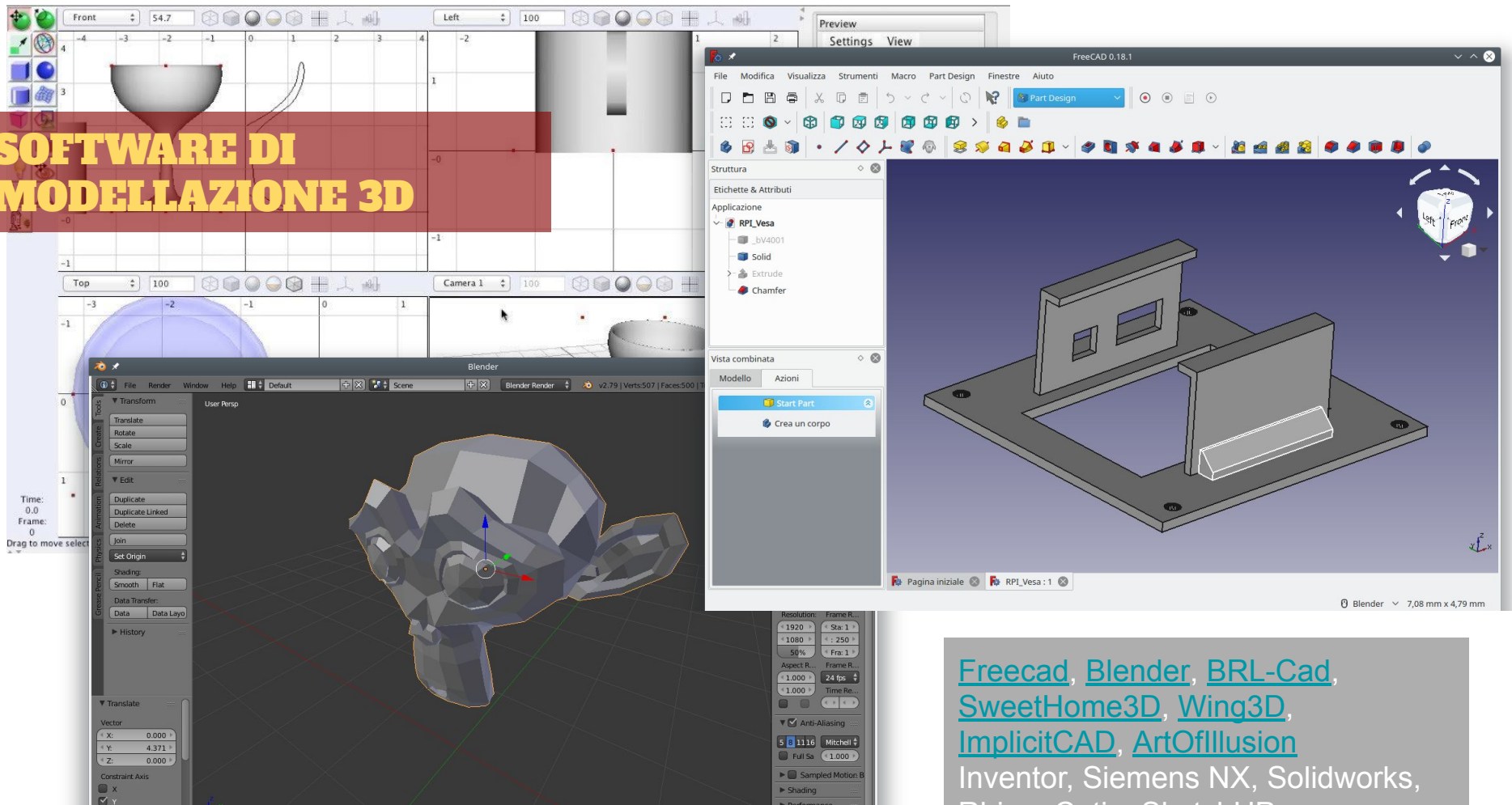
The Programmers Solid 3D CAD Modeller



BgLUG
Bergamo, 03/07/2019

rel. Lazzari Omar

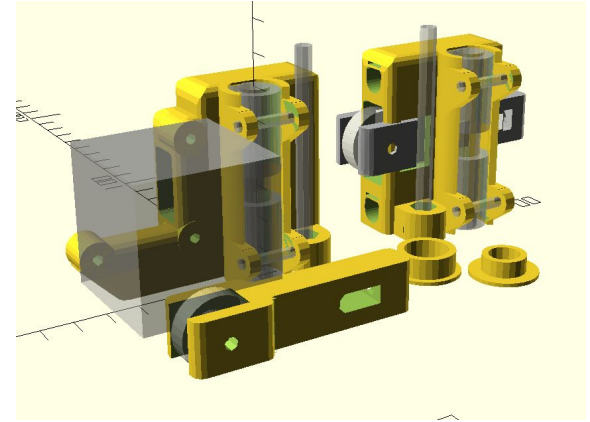
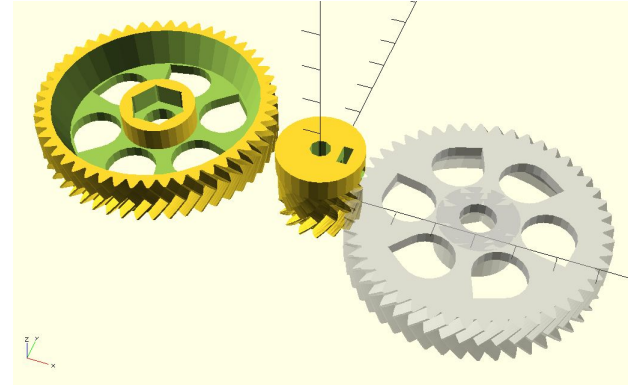
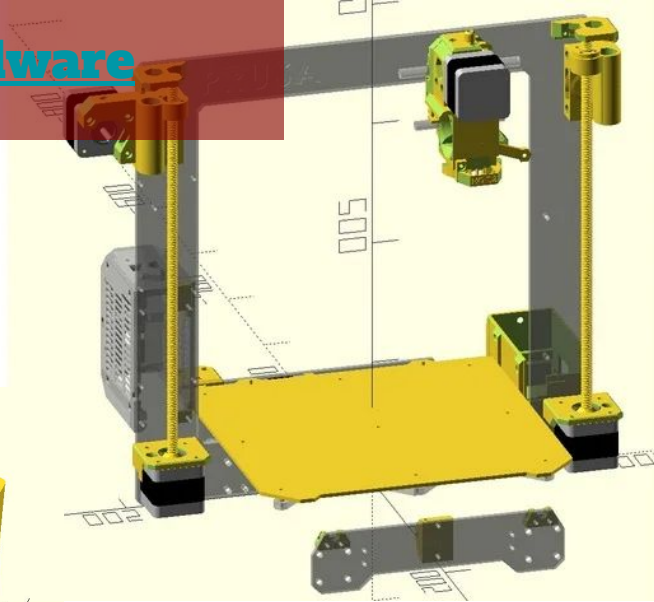
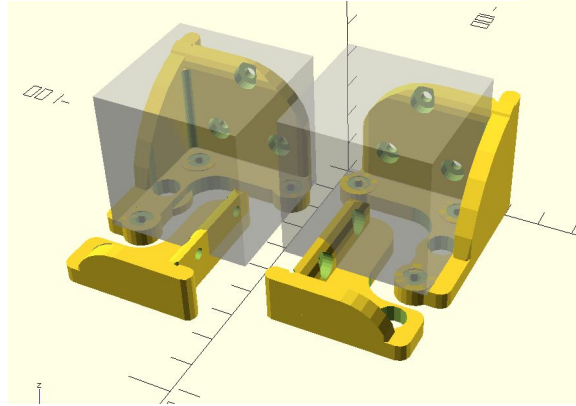
SOFTWARE DI MODELLAZIONE 3D



[FreeCAD](#), [Blender](#), [BRL-Cad](#),
[SweetHome3D](#), [Wing3D](#),
[ImplicitCAD](#), [ArtOfIllusion](#)

Inventor, Siemens NX, Solidworks,
Rhino, Catia, SketchUP

Brevetto FDM e 3D printer open-hardware





File Edit Design View Help

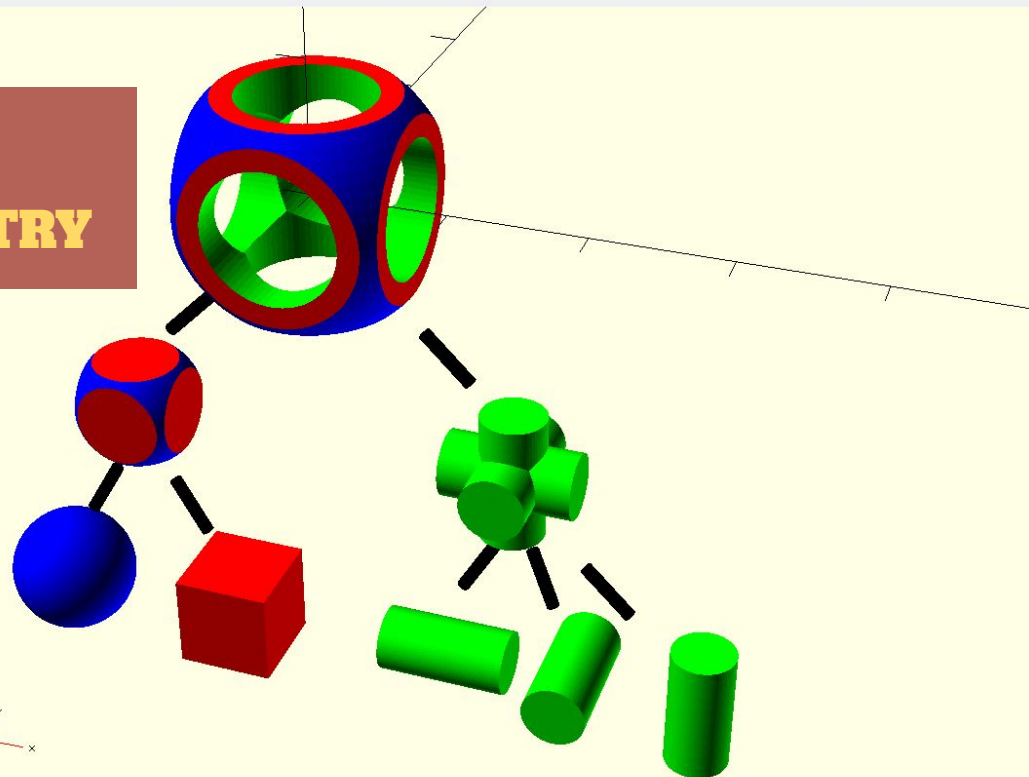
Editor



```
1 // CSG-modules.scad - Basic usage of modules, if, color, $fs/$fa
2
3 // Change this to false to remove the helper geometry
4 debug = true;
5
6 // Global resolution
7 $fs = 0.1; // Don't generate smaller facets than 0.1 mm
8
9 // Main geometry
10
11 difference() {
12     intersection() {
13         body();
14         intersector();
15     }
16     holes();
17 }
18
19 // Helpers
20 if (debug) helpers();
21
22 // Core geometric primitives.
23 // These can be modified to create variations of the final object
24
25 module body() {
26     color("Blue") sphere(10);
27 }
28
29 module intersector() {
30     color("Red") cube(15, center=true);
31 }
32
33 module holeObject() {
34     color("Lime") cylinder(h=20, r=5, center=true);
35 }
36
37 // Various modules for visualizing intermediate components
38
39 module intersected() {
40     intersection() {
41         body();
42         intersector();
43     }
44 }
45
46 module holeA() rotate([0,90,0]) holeObject();
47 module holeB() rotate([90,0,0]) holeObject();
```

CSG

CONSTRUCTIVE SOLID GEOMETRY



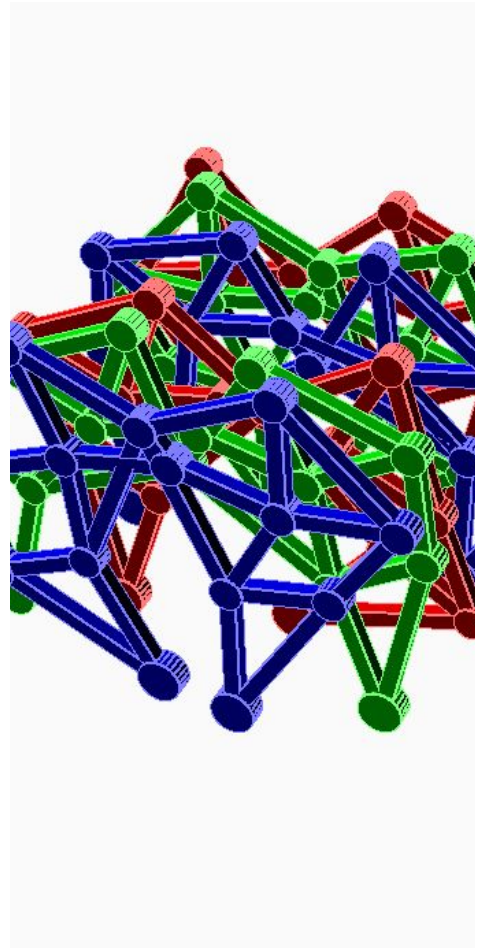
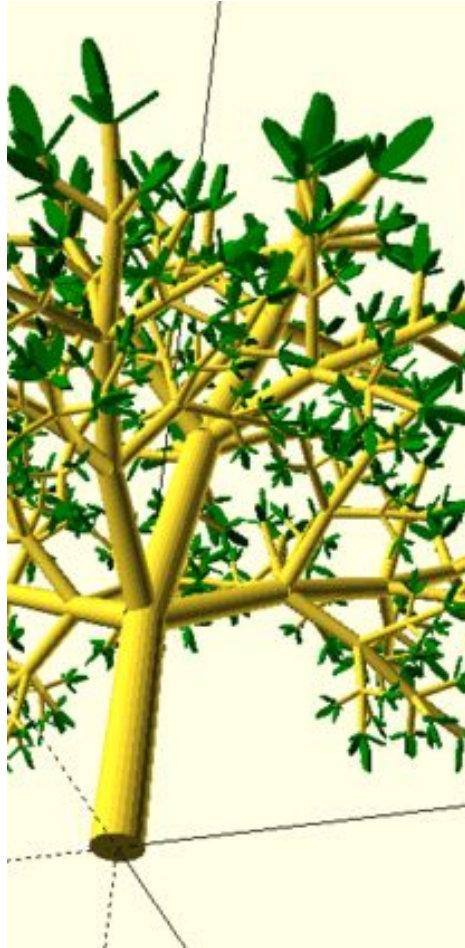
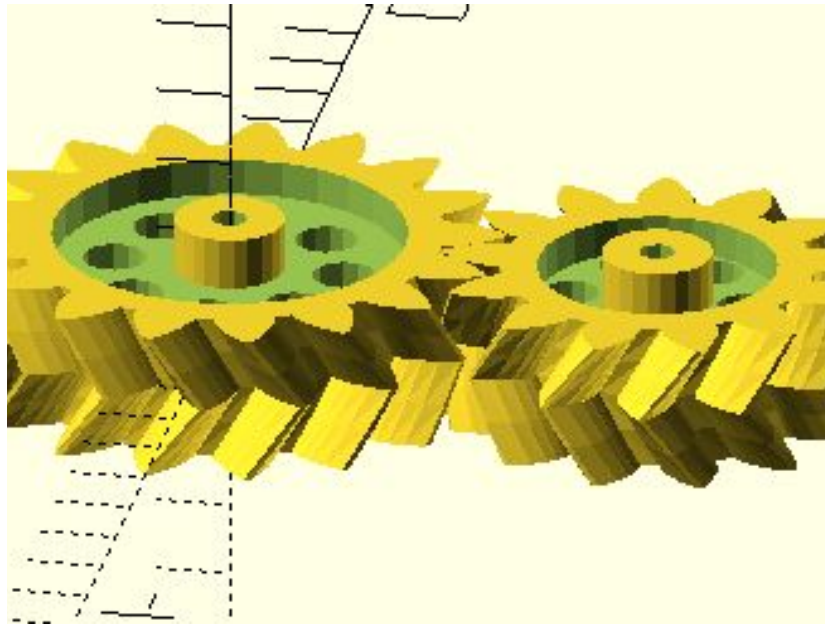
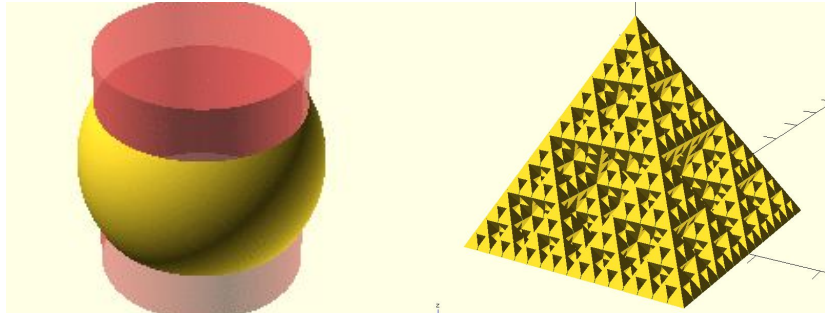
Console

Compiling design (CSG tree generation)...

ECHO: version = [2015, 3, 0]

Compiling design (CSG Products generation)...

Geometries in cache: 4



PER PROSEGUIRE DIGITA

bit.ly/bglugopenscad