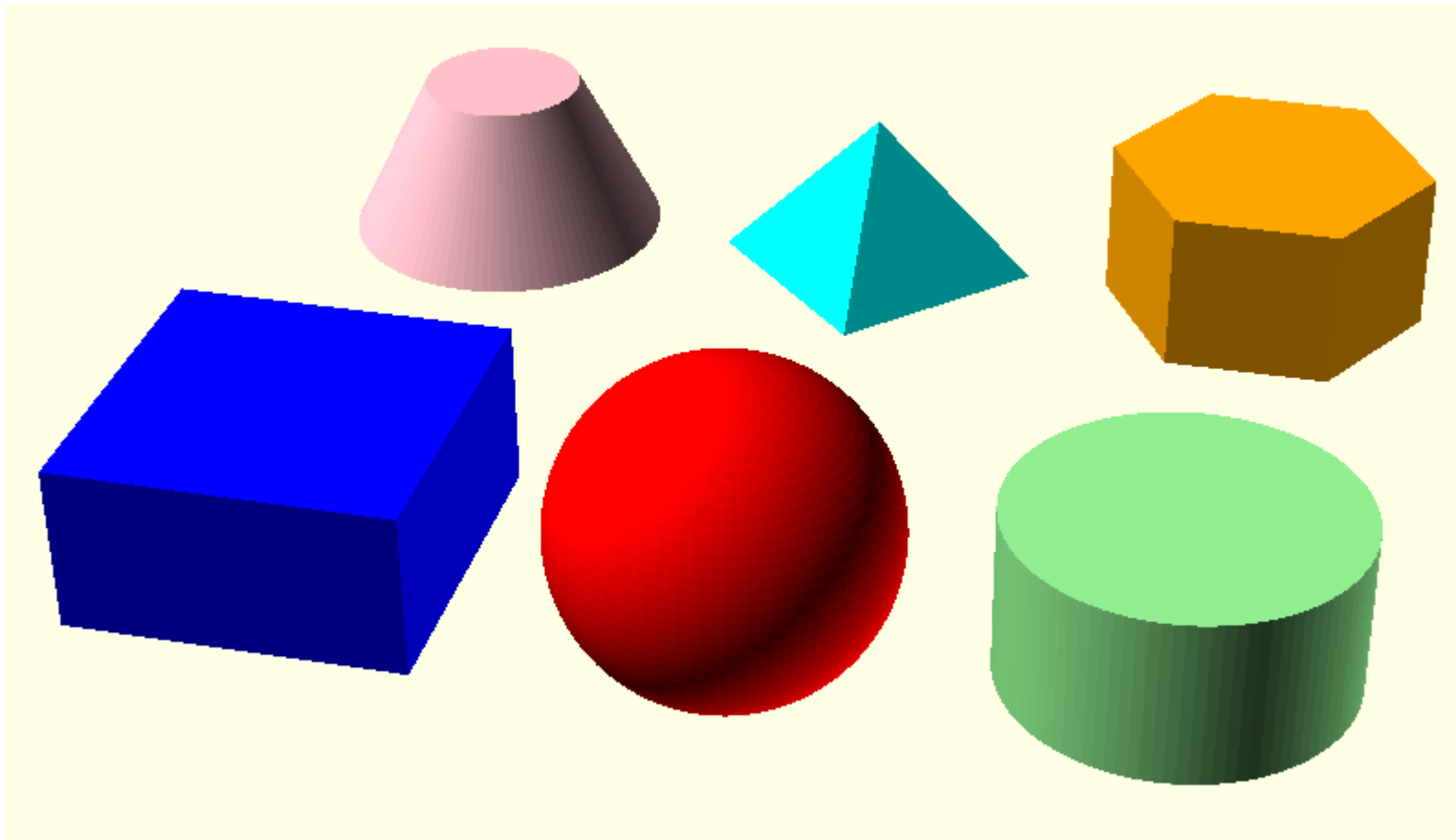


DESEÑO BÁSICO CON OPENS CAD

6 de febreiro de 2020

Sólidos básicos



formato

función(parámetro , parametro,...);



Exemplo...

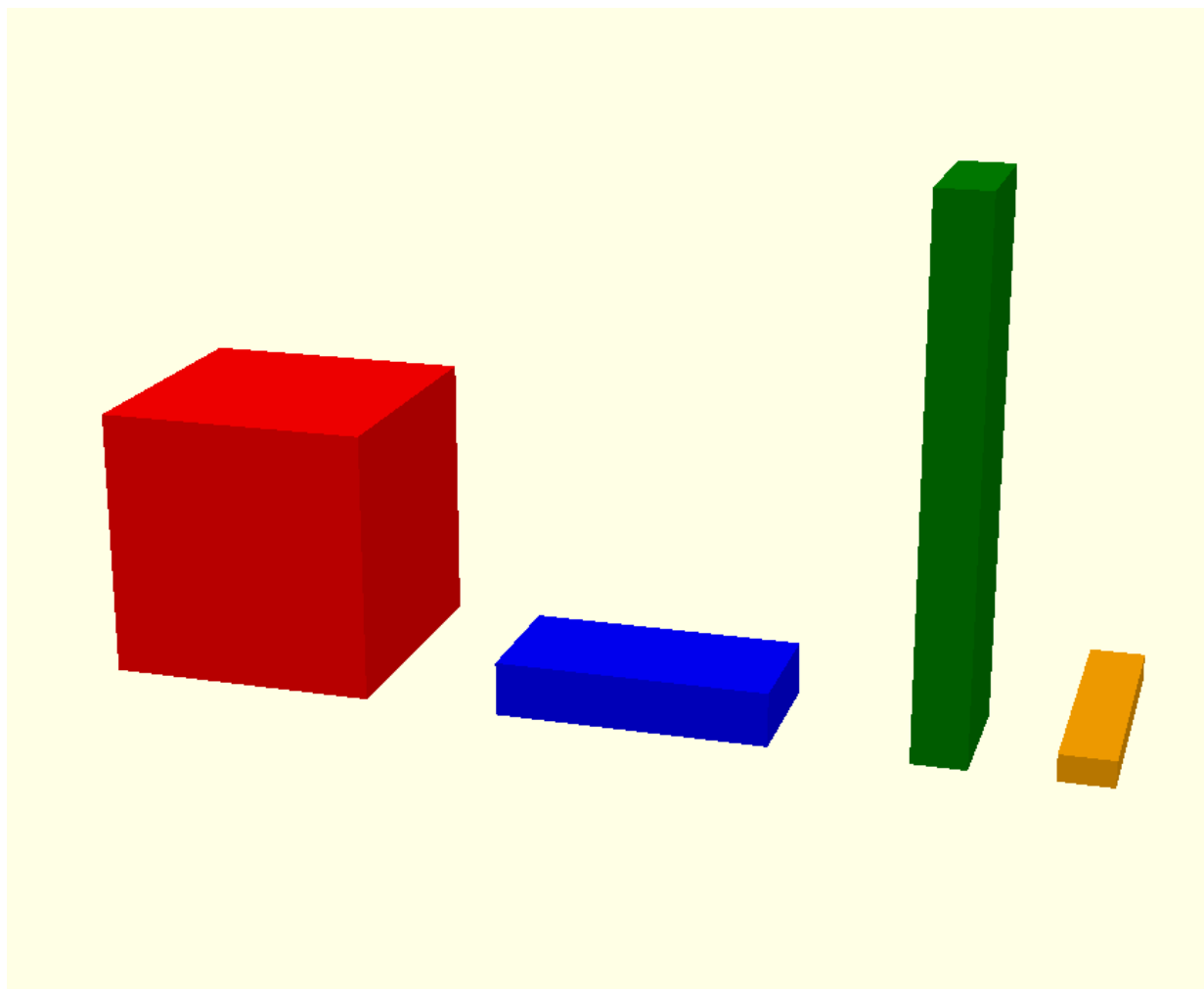
sphere(***r = 10, \$fn = 100***);

*Parámetro especial

(..., [x, y, z] ,...)

([x, y, z])

1 - cubo

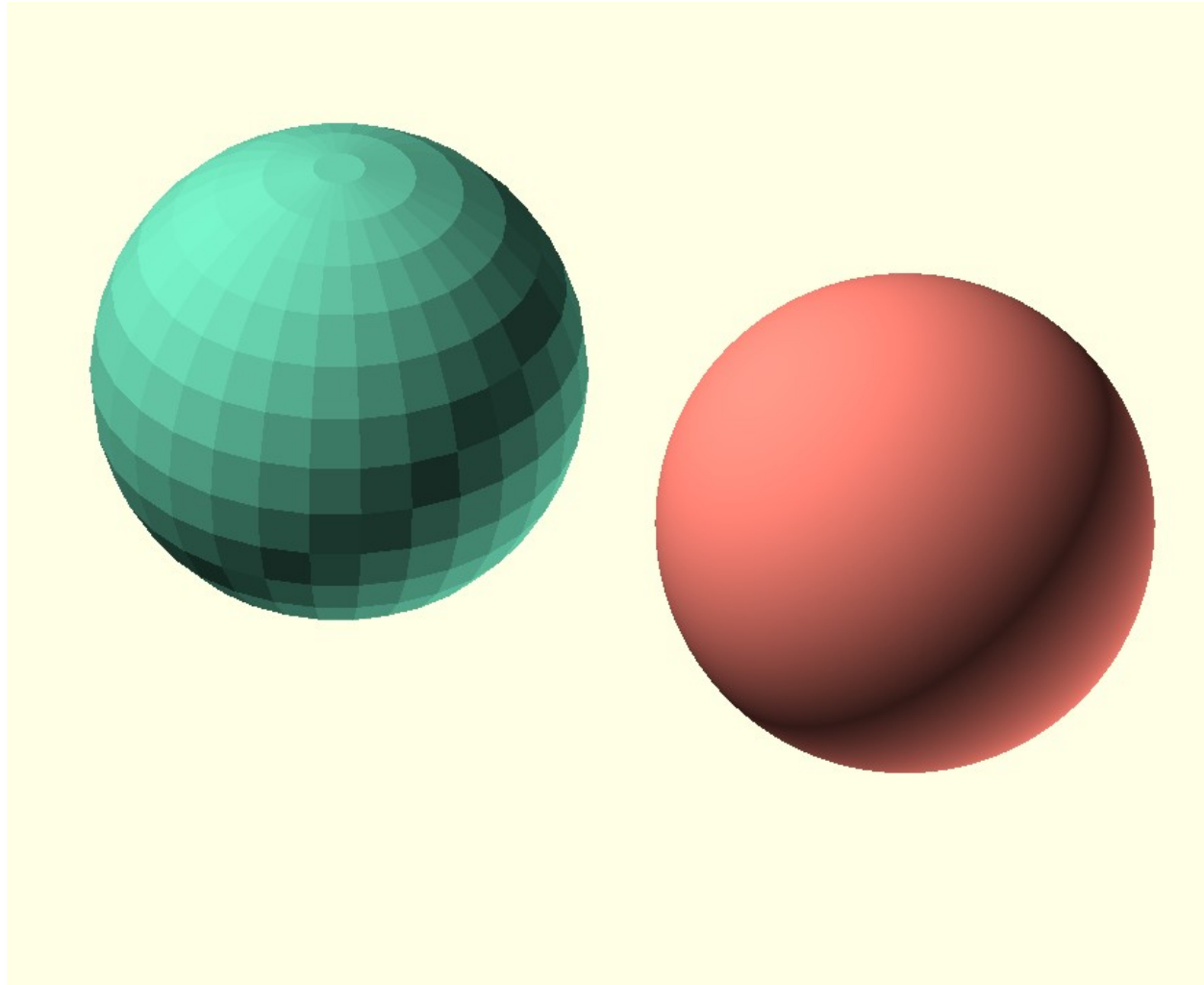


1 - cubo

cube(tamaño); → **cube(10);**
→ **cube(10, center = true);**

cube([x, y, z]); → **cube([10, 10, 5];**
→ **Cube([10, 10, 5], center = true);**

2 - esfera



2 - esfera

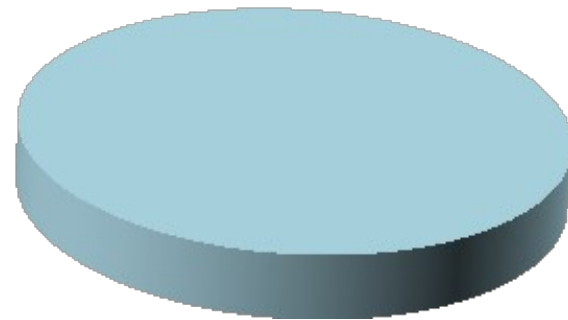
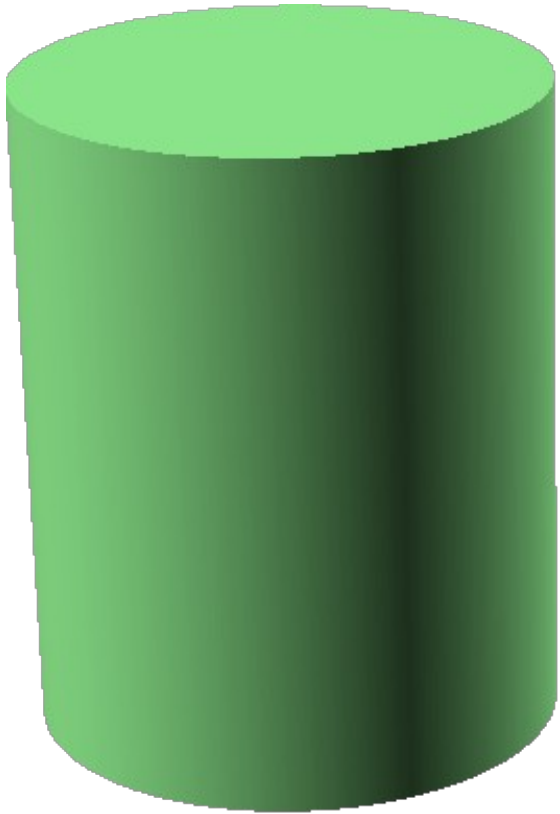
sphere(tamaño);

sphere(10);

sphere(r = 10);

sphere(d = 5);

3 - cilindro



3 - cilindro

cylinder(*parametros*);

r = * **radio**

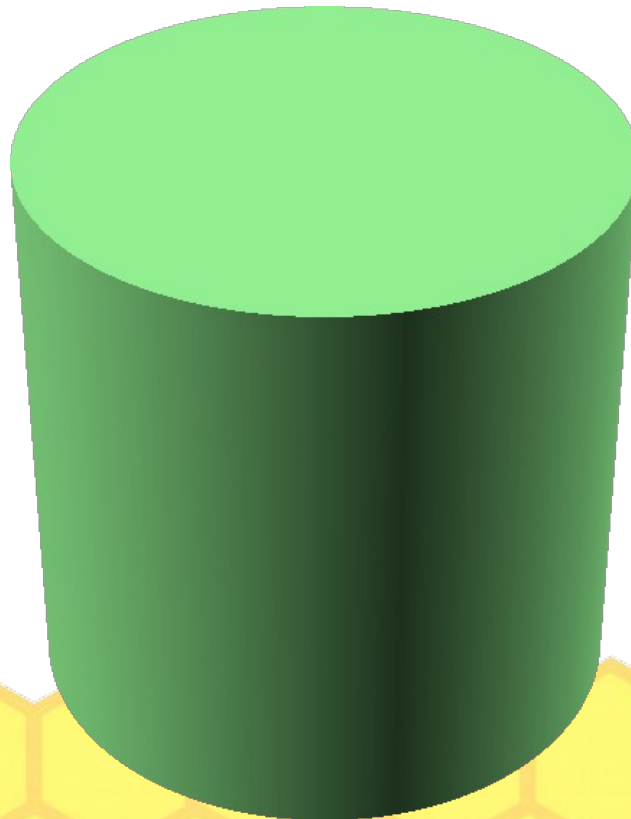
d = * **diámetro**

h = * **altura**

3 - cilindro

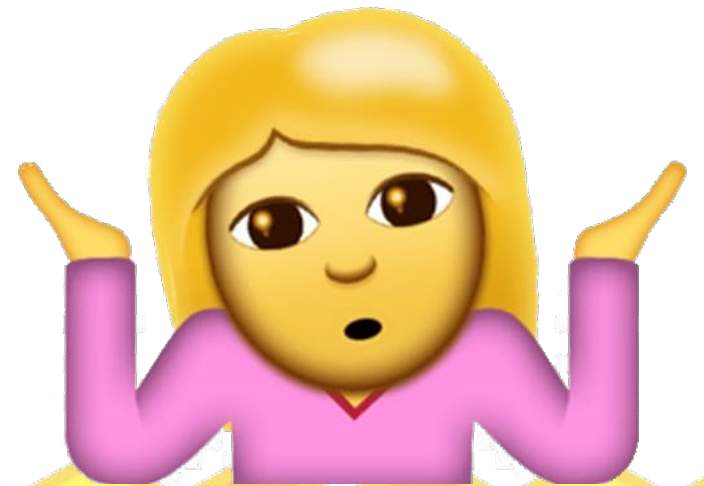
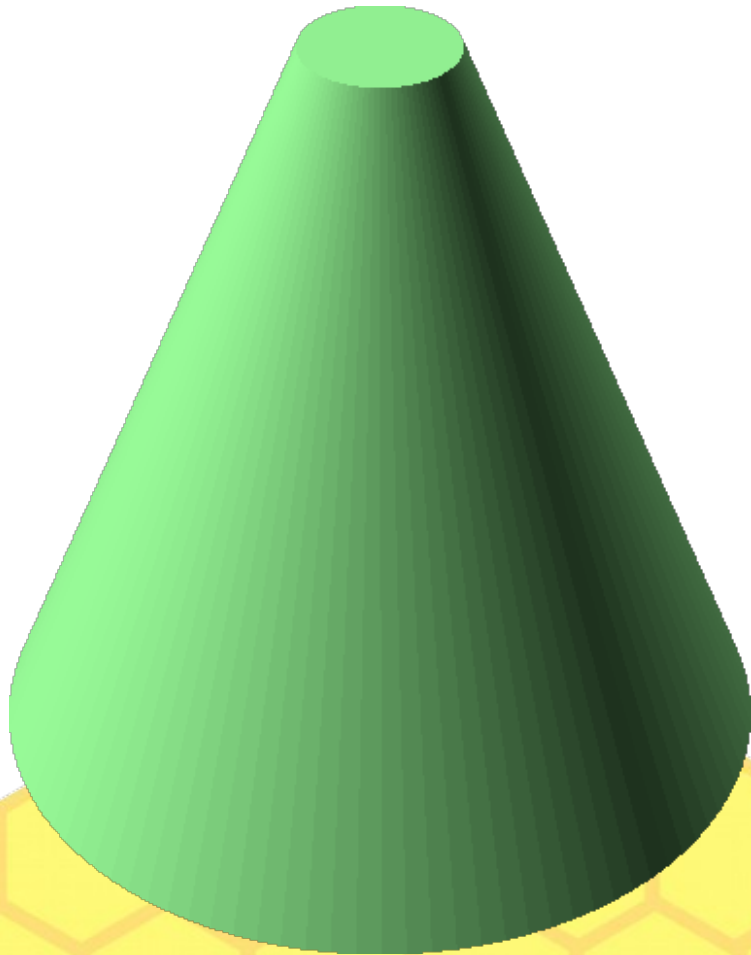
```
cylinder(r = 5, h = 10);
```

```
cylinder(d = 10, h = 10);
```



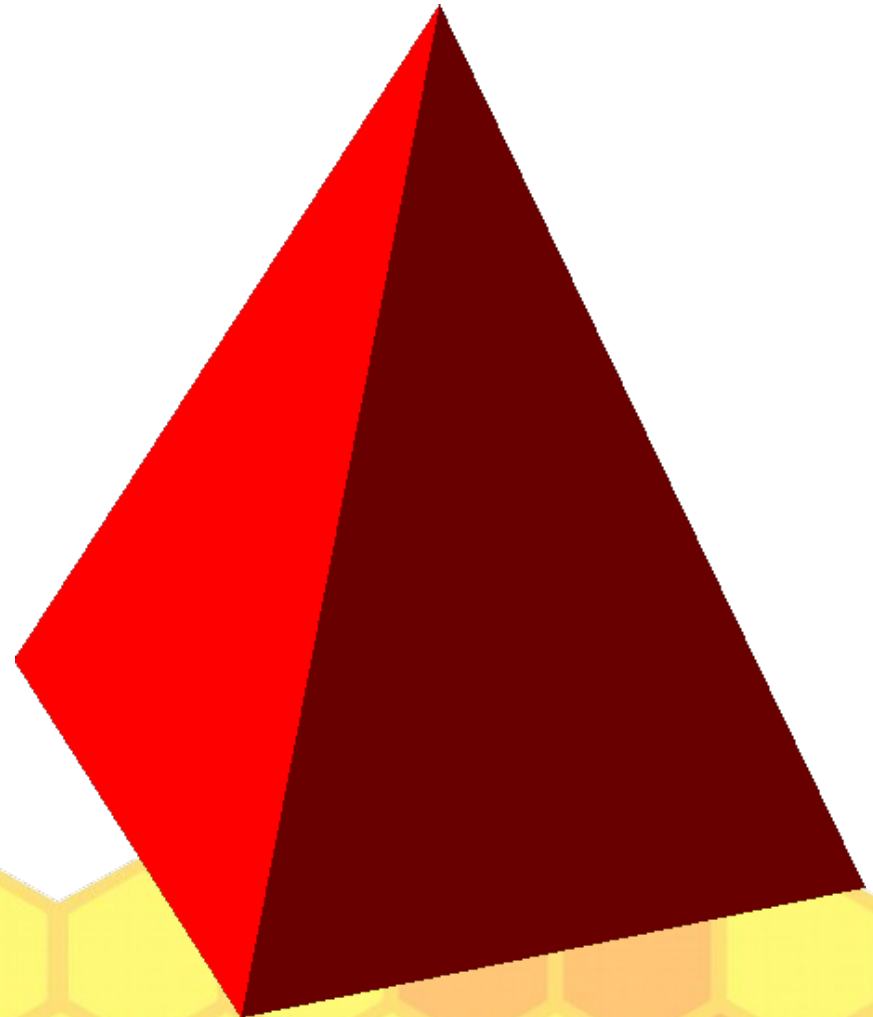
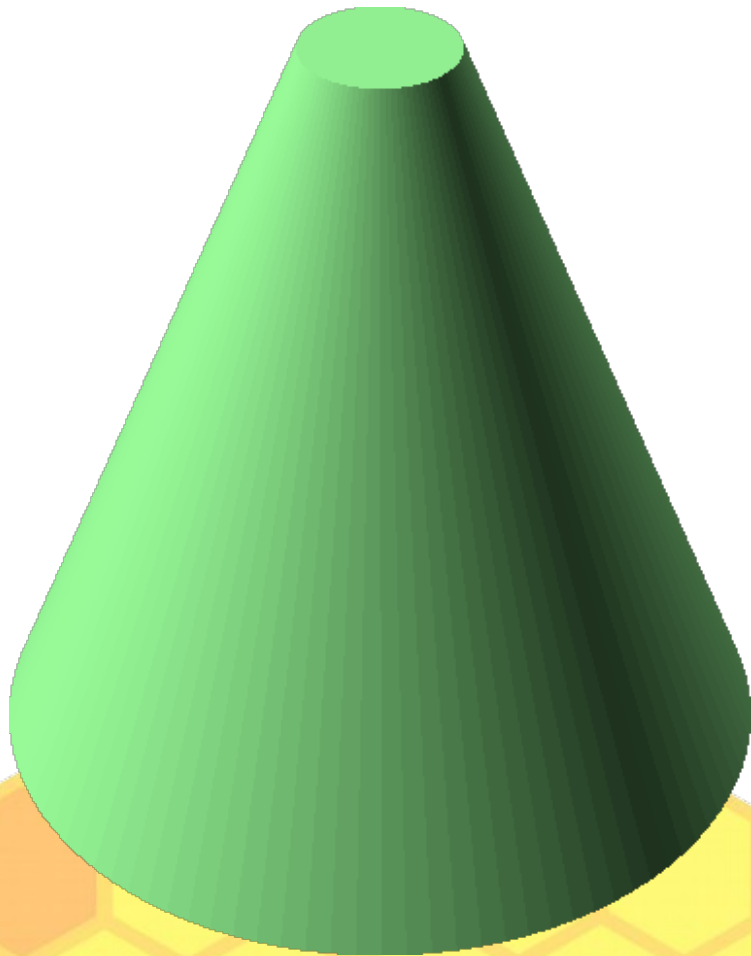
3 - cilindro

`cylinder(r1 = 5, r2 = 1, h = 10);`



3 - cilindro

```
cylinder(r1 = 5, r2 = 0, h = 10, $fn = 4);
```



modificadores

translate([x, y, z])...

rotate([x, y, z])...

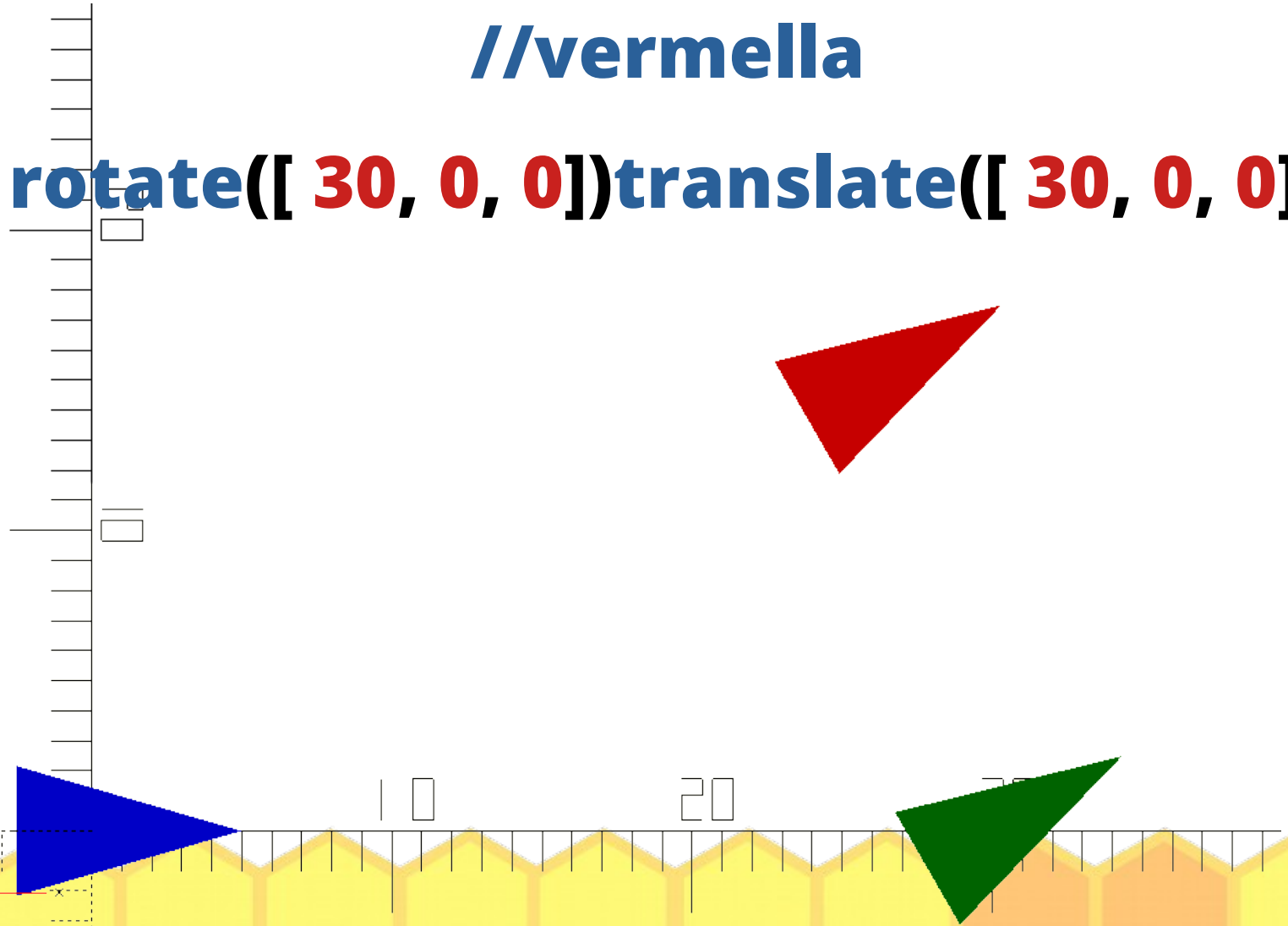
color("green")...

```
//verde
```

```
translate([ 30, 0, 0])rotate([ 0, 0, 30])
```

```
//vermella
```

```
rotate([ 30, 0, 0])translate([ 30, 0, 0])
```



modificadores

scale([**x**, **y**, **z**])

resize([**x**, **y**, **z**])

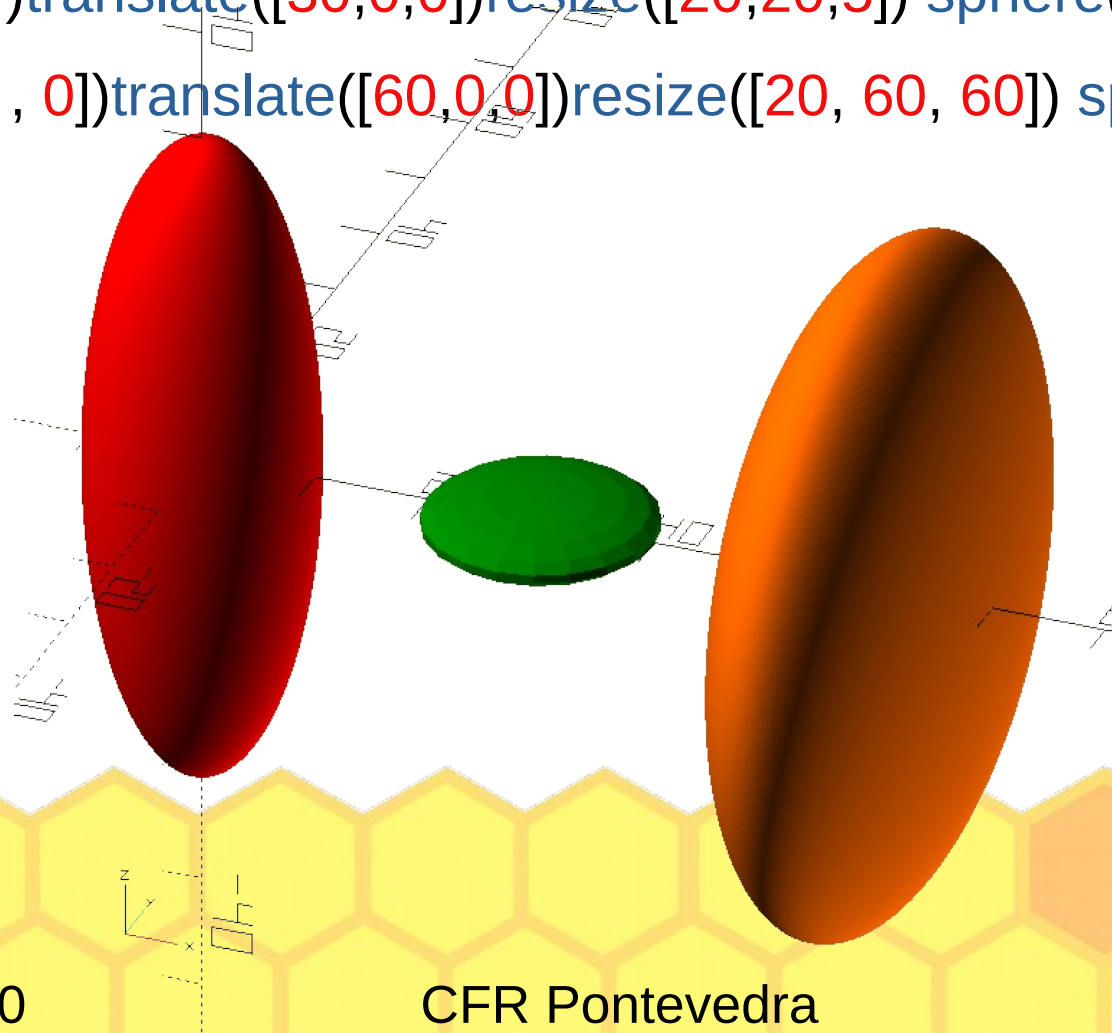
modificadores

```
$fn = 200;
```

```
color("red")scale([1,1,3]) sphere(10);
```

```
color("green")translate([30,0,0])resize([20,20,5]) sphere(10, $fn = 20);
```

```
color([1 , 0.4 , 0])translate([60,0,0])resize([20, 60, 60]) sphere(10);
```



```
difference()
```

```
{
```

```
    union()
```

```
    {
```

```
        // "MINUENDO"
```

```
    }
```

```
    union()
```

```
    {
```

```
        //"SUSTRAENDO"
```

```
    }
```

```
}
```

A estrutura

Unha última ferramenta

```
for (variable = [inicio : paso : fin])  
{  
  //...  
}
```

Cheatsheet openscad

Documentacion openscad