OpenSCAD

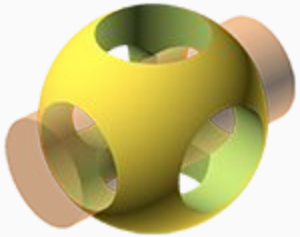
the Joy of 3D modelling at your programming finger tips

3D Printers are affordable

Modellers are not

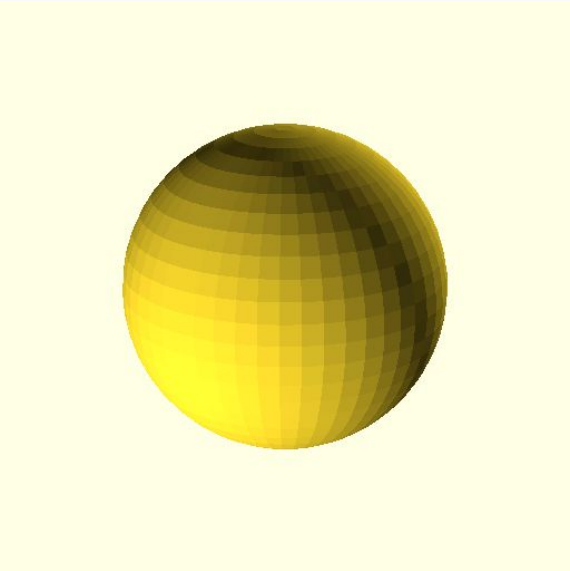
FUSION 360

OpenSCAD to the Rescue!



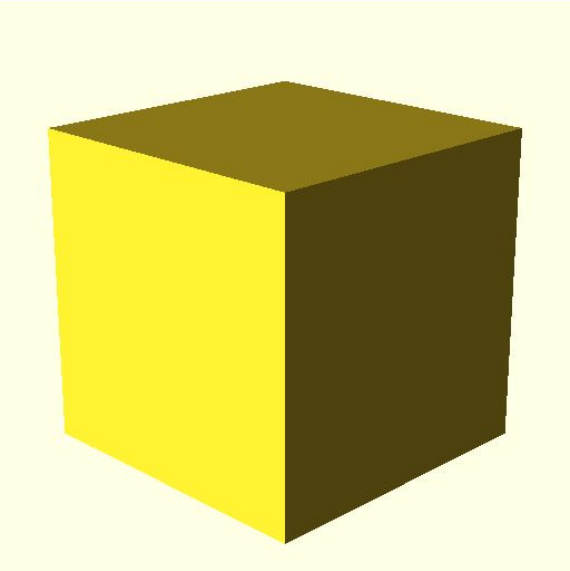
Modules

sphere();



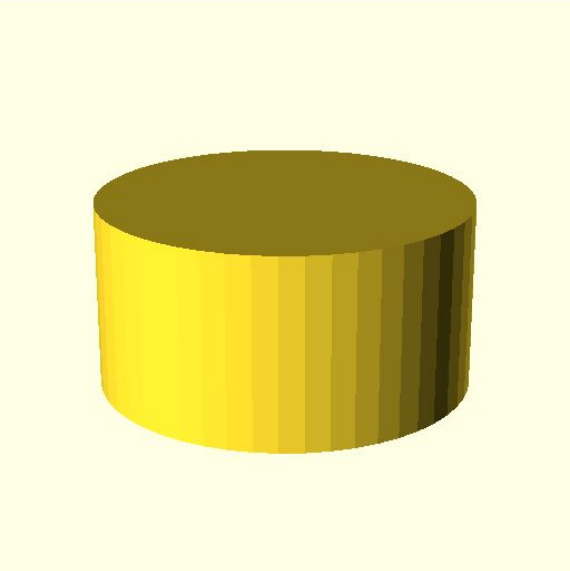
Modules

cube();



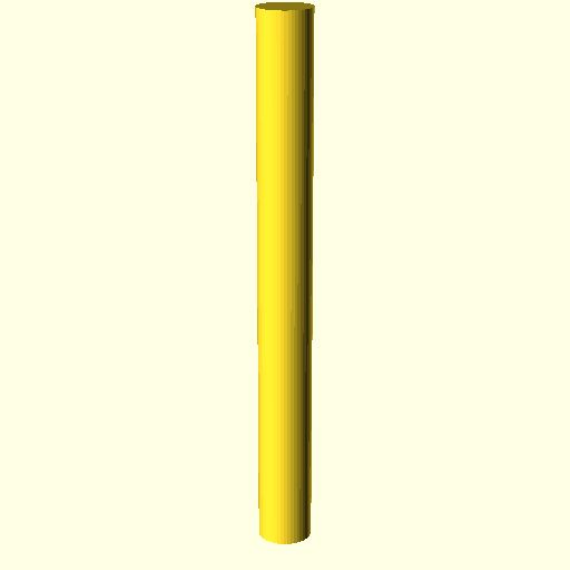
Modules

cylinder();



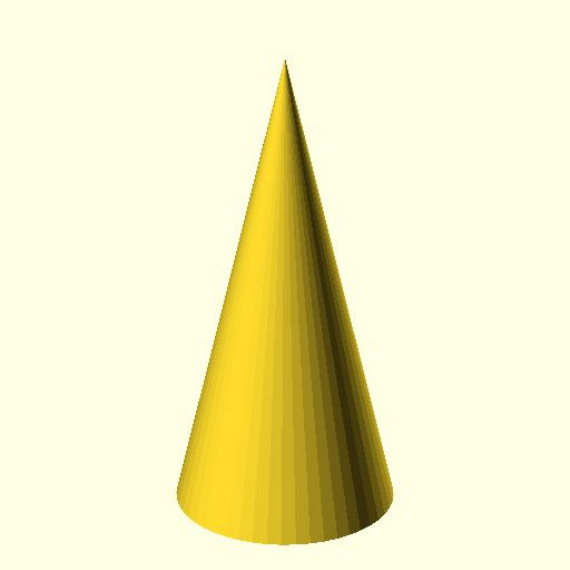
Modules

```
cylinder(20);
```



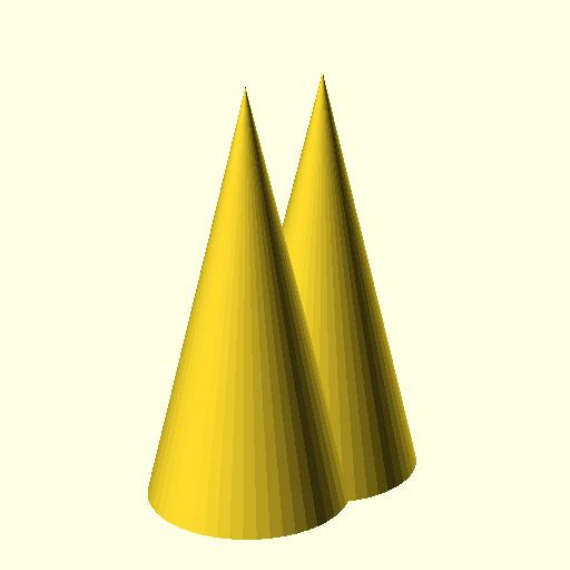
Modules

```
cylinder(h=20, r1=5, r2=0);
```



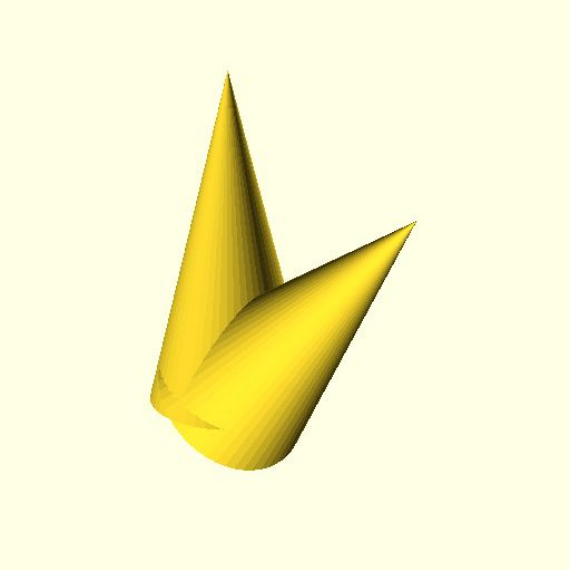
Modules

```
cylinder(h=20, r1=5, r2=0);

translate([5, 0, 0])

    cylinder(h=20, r1=5, r2=0);
```



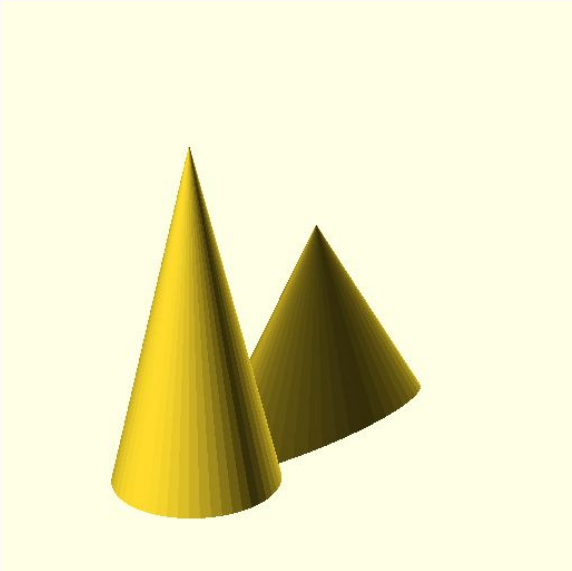
Modules

```
cylinder(h=20, r1=5, r2=0);

rotate([45, 0, 0])

    cylinder(h=20, r1=5, r2=0);
```



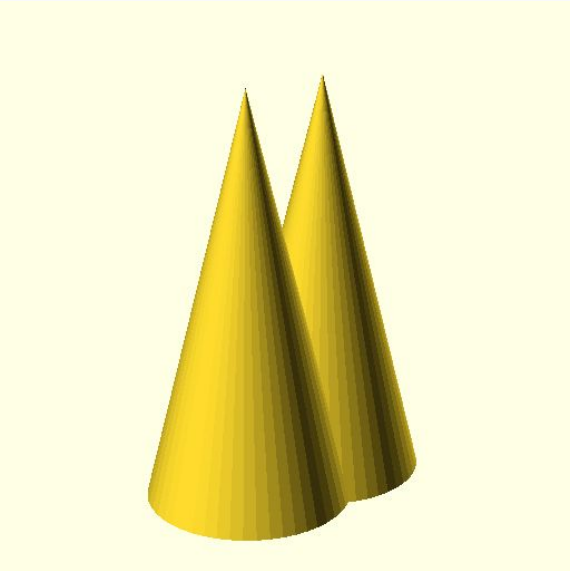
Modules

```
cylinder(h=20, r1=5, r2=0);

translate([5, 0, 0]) scale([2, 1/2, 2/3])

    cylinder(h=20, r1=5, r2=0);
```



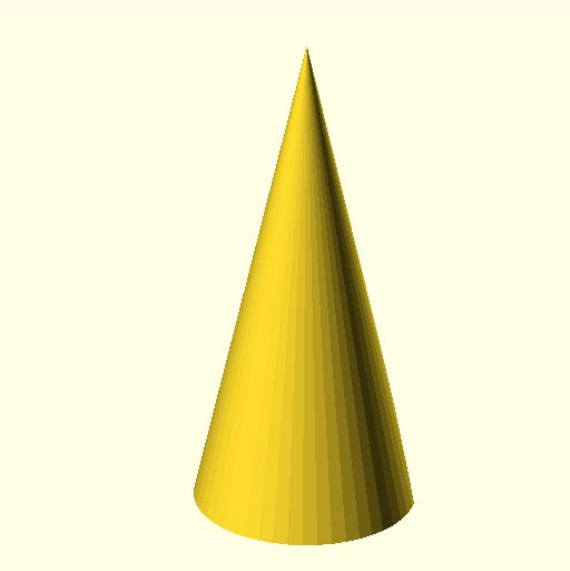
Modules

```
union() {
        cylinder(h=20, r1=5, r2=0);
        translate([5, 0, 0])
            cylinder(h=20, r1=5, r2=0);
}
```



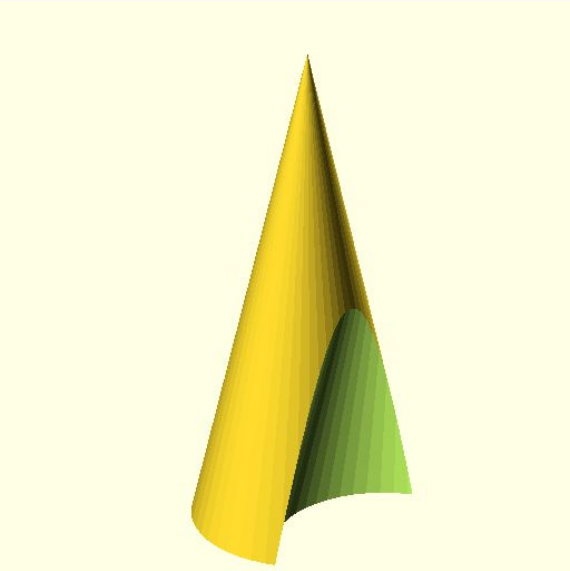
Modules

```
difference() {
        cylinder(h=20, r1=5, r2=0);
        translate([5, 0, 0])
            cylinder(h=20, r1=5, r2=0);
}
```



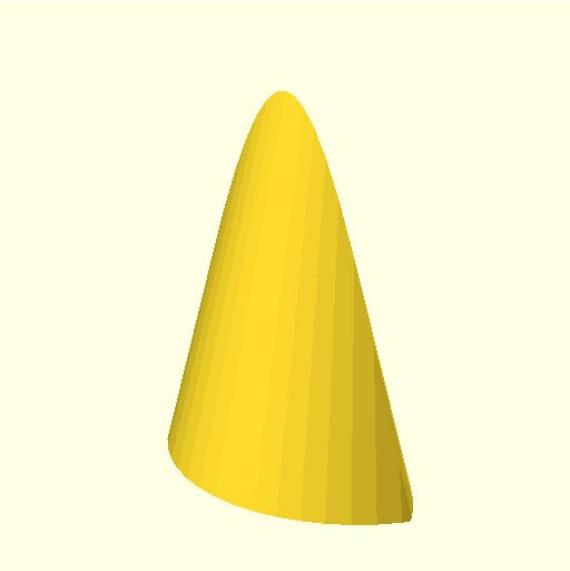
Modules

```
rotate([0, 0, -90]) difference() {
        cylinder(h=20, r1=5, r2=0);
        translate([5, 0, 0])
            cylinder(h=20, r1=5, r2=0);
}
```



Modules

```
intersection() {
    cylinder(h=20, r1=5, r2=0);
    translate([5, 0, 0])
        cylinder(h=20, r1=5, r2=0);
}
```



Variables

variable_name := value;

“Standard Library”

abs

sign

sin

cos

...

includes

include <file.scad>

use <file.scad>