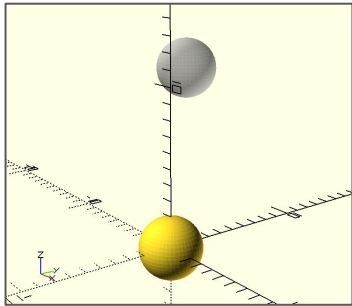
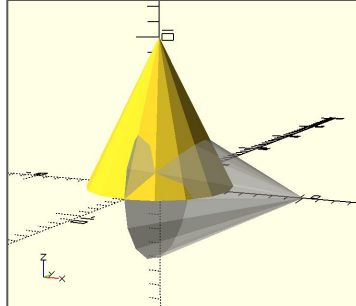


### Translate



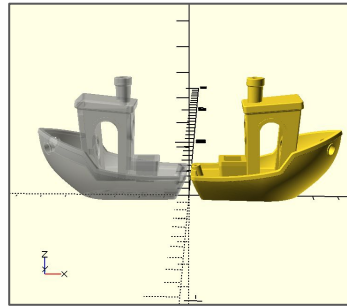
```
translate([-5, 5, 10])
sphere(r=2, $fn=50);
```

### Rotate



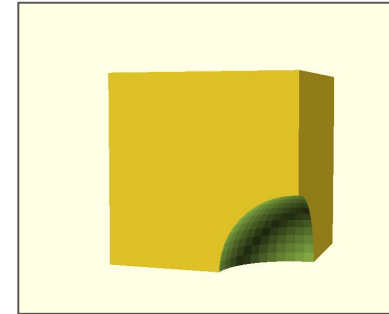
```
rotate([0, 90, 0])
cylinder(h=10, r1=5, r2=0);
```

### Mirror



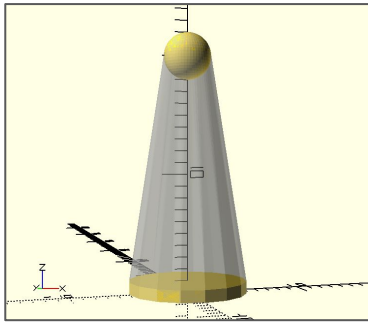
```
mirror([1,0,0])
translate([30,0,0])
import("3DBenchy.stl");
```

### Difference



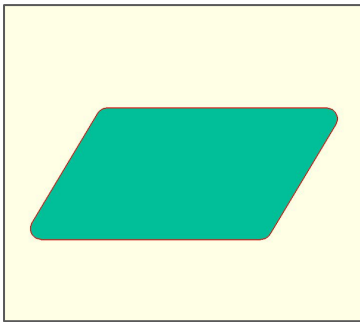
```
difference(){
  cube([5, 5, 5]);
  sphere(r=2, $fn=50);
}
```

### Hull



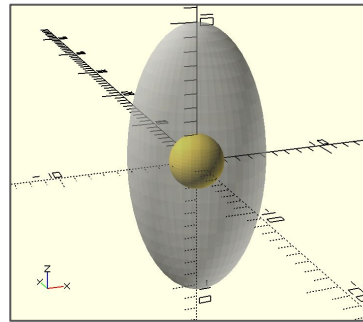
```
hull(){
  translate([0,0,20])
  sphere(r=2, $fn=50);
  cylinder(h=1, r1=5, r2=5);
}
```

### Offset with Fillet



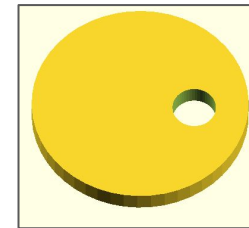
```
offset(r=5) {
  polygon(points=[
    [0,0],[100,0],[130,50],[30,50]
  ]);
}
```

### Resize

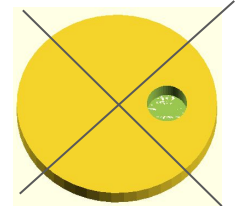
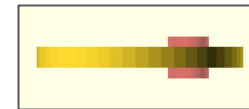


```
resize([10, 10, 20])
sphere(r=2, $fn=50);
```

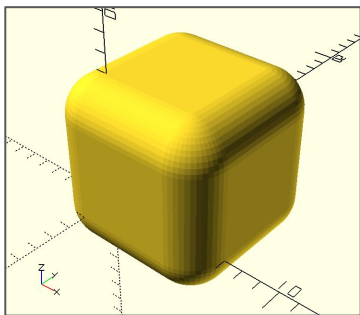
### Difference - Avoid Shimmering Walls



```
difference(){
  cylinder(h=2, r1=10, r2=10, $fn=50);
  translate([5,0,-1])
  cylinder(h=4, r1=2, r2=2, $fn=50);
}
```

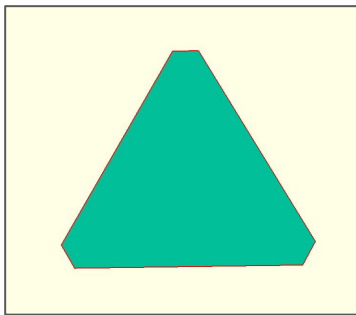


### Minkowski



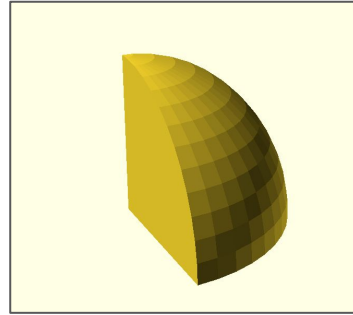
```
minkowski(){
  cube([5, 5, 5]);
  sphere(r=2, $fn=50);
}
```

### Offset with Chamfer



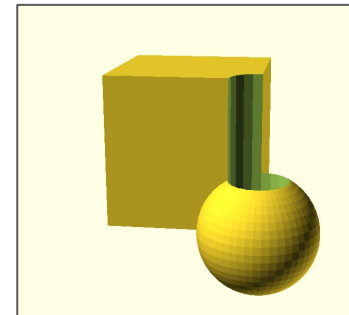
```
offset(delta=1, chamfer=true) {
  circle(r=5, $fn=3);
}
```

### Intersection



```
intersection(){
  sphere(r=2, $fn=50);
  cube([5, 5, 5]);
}
```

### Union



```
difference(){
  union(){
    cube([5, 5, 5]);
    sphere(r=2, $fn=50);
  }
  cylinder(h=10, r1=1, r2=1, $fn=20);
}
```