

```
// Horse
```

```
// horse01 and 02 - silhouettes  
// horse03 - 2017-11-25 - basic test  
// horse03b - 2017-11-25 - add tail  
// horse03c - 2017-11-25 - thicker legs + chin/tail support - nose to sphere  
// horse04a - for publication
```

```
// Copyright Algot Runeman, 2017
```

```
// This program is free software: you can redistribute it and/or modify it under the terms of the GNU
```

```
// This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; with
```

```
// You should have received a copy of the GNU General Public License along with this program. If n
```

```
// The design is built from a silhouette exported from  
// Inkscape. Silhouette code shown below not used but left in place  
// to allow explanation of code development
```

```
// Exported silhouette
```

```
// Module names are of the form poly_<inkscape-path-id>(). As a result,  
// you can associate a polygon in this OpenSCAD program with the corresponding  
// SVG element in the Inkscape document by looking for the XML element with  
// the attribute id="inkscape-path-id".
```

```
// fudge value is used to ensure that subtracted solids are a tad taller  
// in the z dimension than the polygon being subtracted from. This helps  
// keep the resulting .stl file manifold.  
fudge = 0.1;
```

```
module tail(){
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//tail
hull(){
translate([-28,0,43])
sphere(3);
translate([-30.5,0,42])
sphere(3);
translate([-33,-1,33])
sphere(2.5);
}
```

```
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//tail
hull(){
translate([-33,-1,33])
sphere(2.5);
translate([-33,0,30])
sphere(2);
}
```

```
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//tail
hull(){
translate([-33,0,30])
sphere(2);
```

```
translate([-33,2,20])
sphere(1.2);
}
```

```
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//tail
hull(){
translate([-33,2,20])
sphere(1.1);
translate([-35,2,14])
sphere(1);
}
}
```

```
module poly_path10121(h)
{
scale([25.4/90, -25.4/90, 1]) union()
{
linear_extrude(height=h)
polygon([[23.253937,-64.335914],[46.507874,-78.288276],[63.044012,-87.589851],[85.264450,-95.85
}
}
```

```
module poly_path10123(h)
{
scale([25.4/90, -25.4/90, 1]) union()
{
linear_extrude(height=h)
polygon([[22.737188,-65.369413],[7.234563,-56.584587],[-1.550262,-54.000826],[-20.153412,-55.034
}
}
```

```
module horse(h)
{
poly_path10121(h);
poly_path10123(h);
}
////////////////////////////////////
// polygons of silhouettes commented out
//rotate([90,0,0])
//translate([0,30,0])
//horse(2);
////////////////////////////////////

translate([0,0,-25]){

//gt label: neck
color([0.8928601514360016,0.3319798053011772,0.8212291230578318])//neck
hull(){
translate([8,0,35])
rotate([0,45,0])
cylinder(20,10,4);
translate([4,0,44])
sphere(3);
translate([25,0,55.5])
sphere(2);
}
//gt label: head
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//head
hull(){
translate([25,-2,51])
scale([1,.4,.7])
sphere(7);
translate([25,2,51])
scale([1,.4,.7])
sphere(7);
}
//gt label: head
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//head
hull(){
translate([27,-2,54])
scale([1,.4,.9])
sphere(5);
translate([27,2,54])
scale([1,.4,.9])
sphere(5);
translate([33,0,42])
sphere(3);
}
translate([34,-.6,42])
rotate([100,80,0])
//gt label: head
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//head
cylinder(2,2.5,2);
```

```
translate([33.5,2.5,42])
rotate([80,80,0])
//gt label: head
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//head
cylinder(2,2,2.5);
```

```
translate([30,-3,53])
//gt label: eye
color([0.07630828937395717,0.7799187922401146,0.4384092314408935])//eye
sphere(2);
```

```
translate([30,3,53])
//gt label: eye
color([0.07630828937395717,0.7799187922401146,0.4384092314408935])//eye
sphere(2);
```

```
translate([27,-2,55])
rotate([30,0,0])
//gt label: ear
color([0.8734294027918162,0.968540662820932,0.86919454021392])//ear
cylinder(6,2,.5);
```

```
translate([27,2,55])
rotate([-30,20,0])
//gt label: ear
color([0.8734294027918162,0.968540662820932,0.86919454021392])//ear
cylinder(6,2,.5);
```

```
//gt label: body
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//body
hull(){
translate([8,0,35])
sphere(11.5);
translate([-20,0,38])
sphere(8);
}
```

```
//gt label: body
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//body
hull(){
translate([-23,-2,37])
sphere(10);
translate([-23,2,37])
sphere(10);
translate([-20,0,44])
sphere(5);
translate([0,0,40])
sphere(5);
}
```

```
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//tail
tail();
translate([0,-3,0])
rotate([-5,0,0])
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//tail
```

```

tail();
translate([0,-5,0])
rotate([-8,0,0])
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//tail

tail();

translate([13,-6,34])
//gt label: leg
color([0.8928601514360016,0.3319798053011772,0.8212291230578318])//neck
sphere(4.5);
translate([9.3,-6,15])
rotate([0,10,0])
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//leg
cylinder(19,2,4.5);
translate([9.6,-6,16])
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//leg
sphere(2.4);
translate([7,-6,4])
rotate([0,12,0])
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//leg
cylinder(12,2,2.3);
translate([7,-6,4])
//gt label: leg
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//foot
sphere(2.5);
//gt label: hoof and foot
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//foot
hull(){
translate([9,-6,0])
cylinder(2,3,2.5);
translate([9,-6,2])
rotate([0,-60,0])
cylinder(3,2,1.5);
}

translate([13,6,34])
//gt label: leg
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//body
sphere(4.5);
translate([9.3,6,15])
rotate([0,10,0])
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//leg
cylinder(19,2,4.5);
translate([9.6,6,16])
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//leg
sphere(2.4);
translate([7,6,4])

```

```
rotate([0,12,0])
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//leg
cylinder(12,2.2,2.3);
translate([7,6,4])
//gt label: leg
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//foot
sphere(2.5);
//gt label: hoof and foot
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//foot
hull(){
translate([10,6,0])
cylinder(2,3,2.5);
translate([10,6,2])
rotate([0,-60,0])
cylinder(3,2,1.5);
}

translate([-25,-6,15])
rotate([0,5,0])
scale([1.2,.8,1])
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//tail
cylinder(22,2,7);
translate([-25,-6,16])
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//leg
sphere(2.4);
translate([-23,-6,4])
rotate([0,-8,0])
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//leg
cylinder(12,2,2.5);
translate([-23,-6,4])
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//leg
sphere(2.5);
//gt label: hoof and foot
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//foot
hull(){
translate([-20,-6,0])
cylinder(2,3,2.5);
translate([-20,-6,2])
rotate([0,-60,0])
cylinder(3,2,1.5);
}

translate([-25,6,15])
rotate([0,5,0])
scale([1.2,.8,1])
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//leg
cylinder(22,2,7);
translate([-25,6,16])
//gt label: leg
```

```
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//leg
sphere(2.4);
translate([-23,6,4])
rotate([0,-8,0])
```

```
//gt label: leg
```

```
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//leg
cylinder(12,2,2.5);
translate([-23,6,4])
```

```
//gt label: leg
```

```
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//leg
sphere(2.5);
```

```
//gt label: hoof and foot
```

```
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//foot
hull(){
```

```
translate([-20,6,0])
```

```
cylinder(2,3,2.5);
```

```
translate([-20,6,2])
```

```
rotate([0,-60,0])
```

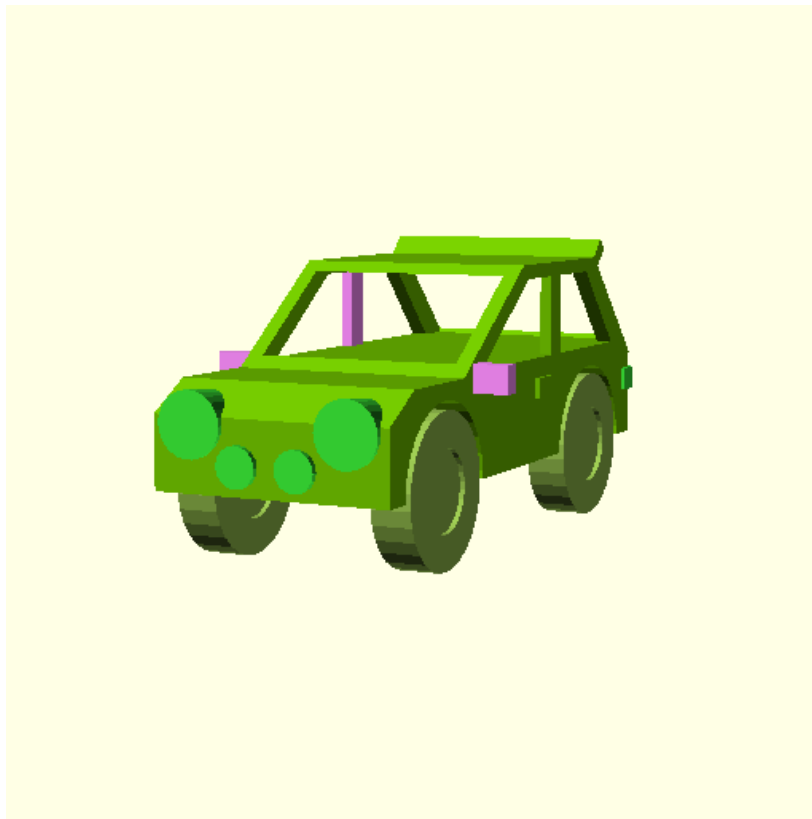
```
cylinder(3,2,1.5);
```

```
}
```

```
}
```

```
}
```

```
}
```



```
// animate X,X,32
```

```
// sprite  
$vpr = [45,0,180-$t*360];  
//$vpt = [0,100,100];  
$vpt = [0,0,25];  
$vpd = 520;
```

```
s = 30;  
h = s/2;  
d = s*2;  
w = h*4.5;  
dark = [1/5, 1/5, 1/5];  
dither = [1/2, 1/2, 1/2];  
light = [1, 1, 1];
```

```
*for (h = [-1:2:1])  
translate([70*h,250,0])  
cylinder(1,180,180);
```

```
rr = 0;  
rl = 0;  
rside = 6;
```

```
rf = 0;  
rb = 0;  
rfwd = 4;
```

```
jump = 0;
```



```
jumpfact = 8;  
jumpshrink = 0.15;
```

```
shad = 0;
```

```
translate([-h,-d,3.5+abs(jump)*(1-jump)*jumpfact-30])  
rotate([jump*jumpfact,0,0])  
car();
```

```
module car() {  
  //gt label: wheel  
  color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//wheel  
  translate([s*0.84, h, h])  
  wheel();  
  //gt label: wheel  
  color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//wheel  
  translate([-s*0.84, h, h])  
  wheel();  
  
  if (rl == 1) {  
    translate([s*0.84, s*3.5, h])  
    translate([4,-7,0])  
    rotate([0,0,30])  
    wheel();  
  }  
  if (rr == 1) {  
    translate([s*0.84, s*3.5, h])  
    translate([4,9,0])  
    rotate([0,0,-35])  
    wheel();  
  }  
  if (!rr && !rl) {  
    translate([s*0.84, s*3.5, h])  
    wheel();  
  }  
  
  if (rl == 1) {  
    translate([-s*0.84, s*3.5, h])  
    translate([0,-8,0])  
    rotate([0,0,35])  
    wheel();  
  }  
  if (rr == 1) {  
    translate([-s*0.84, s*3.5, h])  
    translate([0,7,0])  
    rotate([0,0,-30])  
    wheel();  
  }  
  if (!rr && !rl) {  
    translate([-s*0.84, s*3.5, h])  
    wheel();  
  }  
}
```

```

rotate([-rfwd*rf+rfwd*rb,-rside*rr+rside*rl,0])
translate([0,0,-rfwd*rb+rfwd*rf])
union() {

//gt label: main body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//main body
difference() {
body();
difference() {

translate([-11,-40,41])
cube([52,200,21]);

translate([-h, h, d])
rotate([35,0,0])
translate([0, -37, -5])
cube([s*2,h*0.4,h/2]);

translate([-h, d*1.82265, d*1.15])
rotate([55,0,0])
translate([0, -37, -5])
cube([s*2,h/3,h/3]);
}

translate([46,105,40])
rotate([90,0,-90])
linear_extrude(0,0,62)
polygon(points=[[20,1],[106,1],[87,21],[48,21]]);

union() {
translate([s*0.75, h, h])
arch();

translate([-s*0.75, h, h])
arch();

translate([s*0.75, s*3.5, h])
arch();

translate([-s*0.75, s*3.5, h])
arch();
}
}

translate([42,36,62])
rotate([0,90,0])
//gt label: main body
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//wing mirror

```

```

cube([22,6,3]);

translate([-15,36,62])
rotate([0,90,0])
//gt label: main body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//main body
cube([22,6,3]);

translate([43,44,36])
rotate([0,90,0])
//gt label: main body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//main body
cube([5,8,3]);

translate([-16,44,36])
rotate([0,90,0])
//gt label: main body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//main body
cube([5,8,3]);

translate([44,86-abs(shad)*2,43])
rotate([0,90,0])
//gt label: wing mirror
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//wing mirror
cube([7,4+abs(shad)*4,10]);

translate([-24,86-abs(shad)*2,43])
rotate([0,90,0])
//gt label: wing mirror
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//wing mirror
cube([7,4+abs(shad)*4,10]);

translate([46,85.9,42])
rotate([0,90,0])
//gt label: wing mirror
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//wing mirror
cube([5,2,7]);

translate([-23,85.9,42])
rotate([0,90,0])
//gt label: wing mirror
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//wing mirror
cube([5,2,7]);
lights();
}

}

module lights() {

translate([-5,135,31])

```

```

rotate([90,0,0])
//gt label: headlights
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//headlights
cylinder(11,8,7);

translate([35,135,31])
rotate([90,0,0])
//gt label: headlights
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//headlights
cylinder(11,8,7);

translate([8,135,22])
rotate([90,0,0])
//gt label: headlights
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//headlights
cylinder(11,5,5);

translate([23,135,22])
rotate([90,0,0])
//gt label: headlights
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//headlights
cylinder(11,5,5);

translate([-16,-9,27])
rotate([90,0,0])
//gt label: headlights
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//headlights
cube([15,6,7]);

translate([31,-9,27])
rotate([90,0,0])
//gt label: headlights
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//main body
cube([15,6,7]);

translate([15,-14,33])
rotate([90,0,0])
//gt label: headlights
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//main body
cylinder(2,2.25,2.25);
}

module body() {

translate([-h*0.99, h*0.94, d])
rotate([45,0,0])
translate([0, -2, 0])

```

```

//gt label: main body
color([0.3599490214200376,0.025926231827891333,0.5496624778787091])//main body
cube([s*1.99,h/4,h*0.75]);
}
union() {
//gt label: main body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//main body
difference() {
body_main();
}
translate([-s,s*1.5,s*2.5])
rotate([-35,0,0])
cube([s*3,s*4,d]);
}
translate([d,s*1.75,s*3.5])
rotate([-45,0,180])
cube([s*3,s*4,d]);
}
//gt label: main body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//main body
difference() {
translate([-h, s*2.95, h])
cube([s*2,s*1.5,s*5/6]);
}
translate([-s,s*3.75,s*1.5])
rotate([-30,0,0])
cube([s*3,s,s]);
}
}
}

module body_main() {
translate([-h, -h, h])
//gt label: main body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//main body
cube([s*2,s*5,s*1.65]);
}

module wheel() {
//gt label: wheel
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//wheel
difference() {
translate([s/3,0,0])
}
rotate([0,90,0])
cylinder(s/3,h*1.25,h*1.25);
}
translate([h/2,0,0])
rotate([0,90,0])
cylinder(h,s/3,s/3);
}

translate([h*0.75,0,0])
rotate([0,90,0])

```

```
//gt label: wheel
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//wheel
cylinder(h/2,s/3,s/3);
}
module arch() {
translate([4.5,0,0]

rotate([0,90,0])
//gt label: main body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//main body
cylinder(s*0.7,s*0.7,s*0.7);
}
```



```
// Gumball Watterson  
// At the request of https://scifi.fyi/@paeneultima  
// version02 2018-09-20 hand rotation to hip  
// version03 2018-09-20 add a tail/improve pupil of eyes
```

```
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// You should have received a copy of the GNU General Public License along with this program. If n
```

```
$fn=30;  
module ear(){  
  //gt label: ear  
  color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//ear  
  hull(){  
    translate([2,0,0])  
    sphere(1);  
    translate([-2,0,0])  
    sphere(1);  
    translate([0,2,0])  
    sphere(1);  
  }  
  module eye(){  
    //gt label: eye  
    color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//eye  
    difference(){
```

```

hull(){
sphere(1.7);
translate([0,1,0])
sphere(2);
translate([0,2,0])
sphere(1.7);
}
translate([0,1,1])
sphere(1.5);
}
}

module foot() {
//gt label: foot
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//foot
difference(){
scale([1,2,1])
sphere(2);
translate([-2,-10,-2])
cube([5,20,2]);
}
translate([0,-3,.80])
//gt label: foot
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//foot
sphere(.8);
translate([-1,-3,.75])
//gt label: foot
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//foot
sphere(.75);
translate([1,-3,.75])
//gt label: foot
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//foot
sphere(.75);
}
}

module hand(){
scale([2,2,1])
//gt label: arm
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//arm
sphere(.8);
translate([0,-2,0])
scale([1,3,1])
//gt label: arm
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//arm
sphere(.6);
translate([-1,-2,0])
rotate([0,0,-20])
scale([1,3,1])
//gt label: arm
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//arm
sphere(.6);
translate([1.2,-1.5,0])
rotate([0,0,20])
scale([1,3,1])
//gt label: arm
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//arm

```



```

sphere(.6);
translate([-2,-.5,0])
rotate([0,0,-60])
scale([1,3,1])
//gt label: arm
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//arm
sphere(.6);
translate([-3,-1.5,0])
//gt label: arm
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//arm
sphere(.6);
}

module tail(){
//gt label: tail
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//arm
hull(){
translate([0,.5,13])
sphere(1.2);
translate([0,4,18])
sphere(1.7);
}
}

translate([0,0,-20]){

translate([-3,0,0])
foot();
translate([3,0,0])
foot();

translate([-3,1,1])
//gt label: leg
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//leg
cylinder(12,2,1.5);

translate([3,1,1])
//gt label: leg
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//leg
cylinder(12,2,1.5);

translate([0,1,13])
scale([1.8,1.5,1])
//gt label: body
color([0.8734294027918162,0.968540662820932,0.86919454021392])//body
sphere(3);

translate([0,4,0])
tail();

translate([0,1,15])
rotate([4,0,0])
//gt label: body

```

```

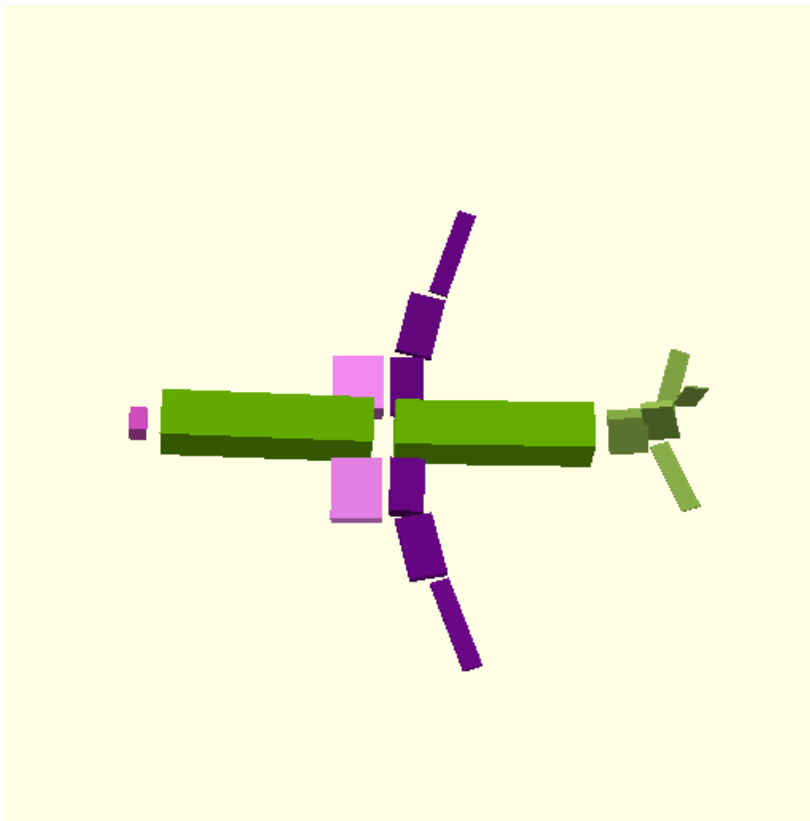
color([0.8734294027918162,0.968540662820932,0.86919454021392])//body
cylinder(12,3,1.5);
translate([0,0,28])
scale([1, .5, 1])
//gt label: body
color([0.8734294027918162,0.968540662820932,0.86919454021392])//body
sphere(3);
translate([-5,0,15])
rotate([90,0,90])
hand();
translate([-5,0,15])
rotate([0,-30,0])
//gt label: arm
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//arm
cylinder(10,1,1);
translate([-10.5,0,24.2])
//gt label: arm
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//arm
sphere(1);
translate([-10,0,24])
rotate([0,65,0])
//gt label: arm
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//arm
cylinder(10,1,1.5);
// left arm
//gt label: arm
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//arm
translate([5,0,15])
rotate([90,0,90])
hand();
//gt label: arm
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//arm
translate([5,0,15])
rotate([0,30,0])
cylinder(10,1,1);
//gt label: arm
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//arm
translate([10.5,0,24.2])
sphere(1);
//gt label: arm
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//arm
translate([10,0,24])
rotate([0,-65,0])
cylinder(10,1,1.5);
//gt label: head
color([0.8928601514360016,0.3319798053011772,0.8212291230578318])//bottom
difference(){
hull(){
translate([0,0,35])
scale([1, .5, 1])
sphere(7);
translate([-4,0,32])
scale([1, .75, 1])

```

```
sphere(3);
}
translate([-2.8,-2,36])
sphere(1.5);
translate([2.8,-2,36])
sphere(1.5);
}

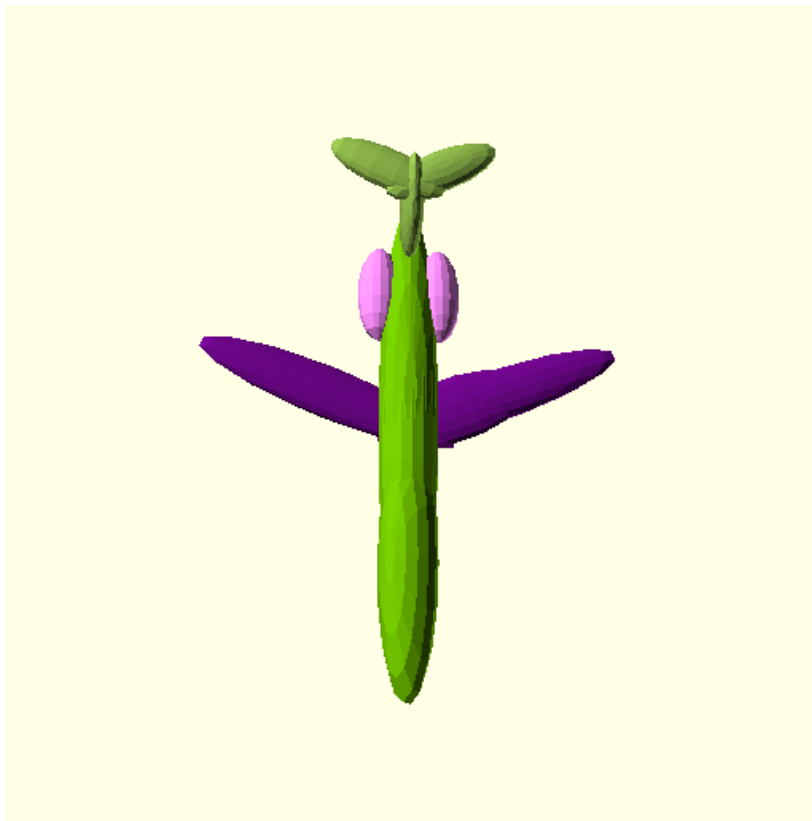
translate([-3,-2,35])
rotate([90,0,0])
//gt label: eye
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//eye
eye();
translate([3,-2,35])
rotate([90,0,0])
//gt label: eye
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//eye
eye();

//gt label: ear
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//ear
translate([5,0,40])
rotate([-90,100,0])
ear();
//gt label: ear
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//ear
translate([-5,0,40])
rotate([-90,-100,0])
ear();
}
```



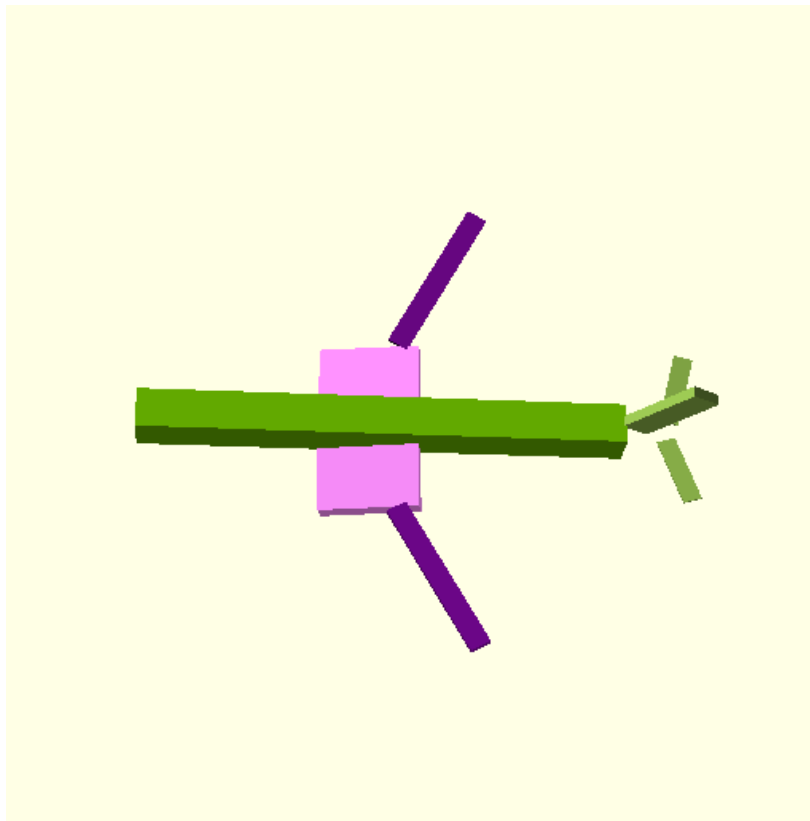
```
$vpf=10;
//gt label: body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//Body
translate([9.9213844537735,-3.030048292130232,0.015458189445780597])
rotate([179.99111833310496, -0.3136541546803373, -0.3479469329746344])
cube([14.514621943235401,3.5595400258898775,3.3572911284863993],center=true);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([-3.0432422459125523,-2.769499309360981,-14.141722023487093])
rotate([110.28041958843485, -70.41431045187099, -20.731363741013677])
cube([6.709006354212766,1.3475078530609612,0.29589290497824705],center=true);
//gt label: body
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
translate([-15.074674189090729,-1.7249471321702003,0.004567506257444525])
rotate([-130.32339074715486, 0.9322074454637863, -10.272641000509907])
cube([2.6874679327011197,2.552479617297667,2.4472558125853663],center=true);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([-0.7638943241909145,-3.4050163812935352,8.457721248269081])
rotate([-110.78278713957445, 76.2917353364514, -19.769320414566955])
cube([4.614250287413598,2.5918871164321904,0.5365997087210455],center=true);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([0.16497560660354793,-3.9487890154123306,3.8413323089480405])
rotate([167.5062758456813, 83.53026105728806, -102.1632179658437])
cube([4.192828088998795,2.3708329163491735,0.8533036196604387],center=true);
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
translate([-18.23992818593979,-1.3331068865954876,3.3869865909218793])
```

```
rotate([-115.31114244967323, 72.19267551449406, -26.788785586062886])
cube([5.484133325517179,1.4128672517836138,0.12016741209665482],center=true);
//gt label: engine
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//Engines
translate([3.5951648280024533,-4.504960626363754,-3.9638251438736916])
rotate([-177.33952817471692, -83.04299989332627, 83.71547640244957])
cube([4.381989985704424,3.589124232530597,1.4678625483065875],center=true);
//gt label: body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//Body
translate([-5.830232277512551,-2.8542086109519,0.006996251759119387])
rotate([179.99371823902078, 0.02610469870305648, -2.494284544592666])
cube([13.805754929780964,3.4458296373486608,3.3688312023878204],center=true);
//gt label: body
color([0.8928601514360016,0.3319798053011772,0.8212291230578318])//Pilot's Area
translate([18.815257102251053,-3.3718490414321423,0.0193661564844661])
rotate([90.08739449602585, -0.09800786469819125, -90.05765042322027])
cube([1.7534650862217243,1.6840452607721097,1.1653851903975494],center=true);
//gt label: engine
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//Engines
translate([3.59521072357893,-4.506650976836681,3.962673246860504])
rotate([3.198273128481802, -82.95772282547932, -96.84383542482172])
cube([4.37215685844422,3.598536513745792,1.4704217389226009],center=true);
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
translate([-18.25397551059723,4.169581979513168,0.019402902398724102])
rotate([179.95081089499456, -0.15121620496685415, -83.39861676374602])
cube([2.8596763312816647,1.5816534589976101,0.14219020726159254],center=true);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([-0.7694108085706831,-3.401900604367256,-8.452712073922157])
rotate([110.30140899253772, -76.32257784064667, -19.43716380306151])
cube([4.622301273047927,2.590262126177552,0.5367324780672811],center=true);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([0.15211068210192036,-3.940819166600704,-3.8314110785722737])
rotate([-167.9216433392125, -83.47423338843586, -101.97831115012755])
cube([4.199914038181307,2.3692896775901326,0.8531630644574768],center=true);
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
translate([-16.979714334011078,0.22976583102717996,-0.0050979305524378946])
rotate([0.21886454615984383, 0.6345535921042724, 73.02517312896761])
cube([5.4412898048758525,2.15925000607968,0.457190065644682],center=true);
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
translate([-18.138041645288467,-1.3327325507998466,-3.4679336845874786])
rotate([112.54633972019874, -68.63369964883897, -22.8044706787177])
cube([5.48646703362465,1.4016167912632265,0.1192448392976122],center=true);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([-3.0519824847579002,-2.776682786643505,14.160122871398926])
rotate([-110.44930620797955, 70.48855763975978, -20.91218484869099])
cube([6.701969578862192,1.3487752061337308,0.2984280721284608],center=true);
```



```
$vpf=1;  
$fn=16;  
//gt label: body  
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//Body  
translate([0.2654665574917327,-1.489574964279714,-0.4591607448199521])  
rotate([-0.050134454877197934, 0.06370443367621188, 92.88532817635613])  
scale([2.2285732076219893,2.0902076655107997,17.174540913623314]) sphere(r=1);  
//gt label: body  
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//Body  
translate([0.2757513490707978,-1.451645014078721,-10.41106588166693])  
rotate([137.41432181080975, -85.81722828170385, 90.67855812209615])  
scale([9.65420292771381,2.056921079106953,2.0646844869074616]) sphere(r=1);  
//gt label: wing  
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings  
translate([-2.964586991330852,-2.112385954545892,1.366353002579316])  
rotate([112.08898715481838, -1.5756437027694483, 86.35070888192506])  
scale([0.8388033055740854,2.495156665859015,5.772444508645846]) sphere(r=1);  
//gt label: engine  
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//Engines  
translate([-1.8583615998858993,-1.2203359409518866,9.736352446286576])  
rotate([-0.6525074271595499, 1.546375988453061, 5.20373860705035])  
scale([1.4817728053616441,1.3782219799316449,3.558392369228861]) sphere(r=1);  
//gt label: engine  
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//Engines  
translate([2.378718911305718,-1.2199629503099816,9.73687839248906])  
rotate([-0.93997267241463, -0.27184127261746416, -0.022001853484057525])  
scale([1.5280737987031108,1.3776561245322227,3.5900246837864755]) sphere(r=1);  
//gt label: tail  
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
```

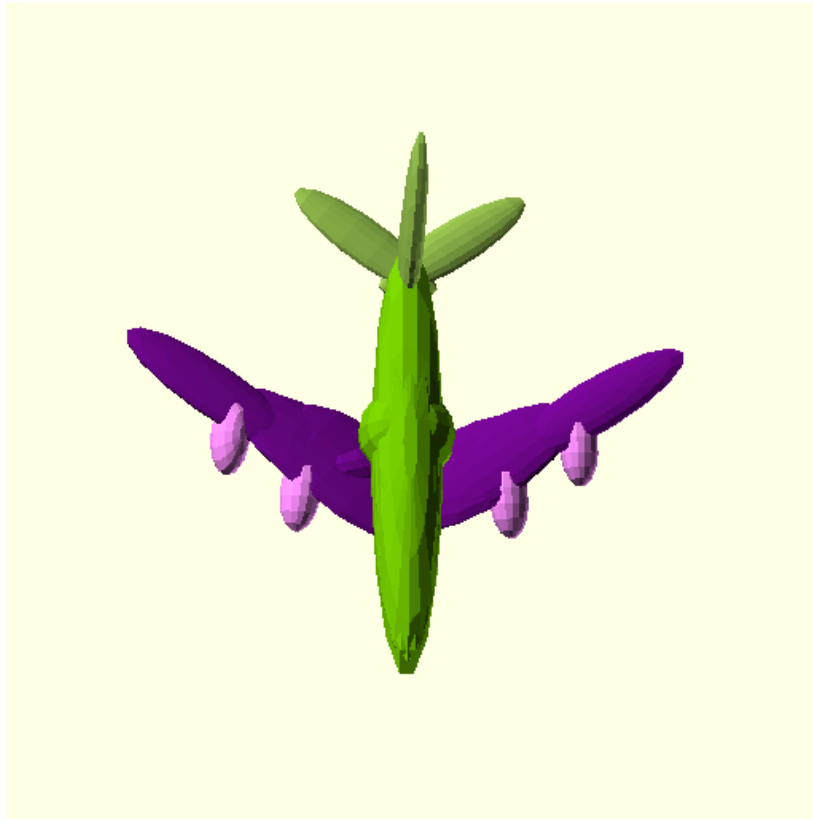
```
translate([0.282712497384004,1.522976467790811,15.342433685841769])
rotate([55.663270751427284, 0.3065682409657923, 1.6195302014098403])
scale([0.8587402656026509,3.929477346980054,1.8589915950661122]) sphere(r=1);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([5.8567626644735755,-1.964429020881653,2.2757448094046637])
rotate([2.041044545848315, -21.73867461581206, 0.8437037570243254])
scale([9.726722927197168,0.7911885157227517,1.9423841782238174]) sphere(r=1);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([-5.966933784277543,-1.9678173829679906,2.4727000814417135])
rotate([1.270663682882649, 22.38112573197525, -1.2810129492912374])
scale([9.22118814095207,0.7879567616011786,1.890174396660017]) sphere(r=1);
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
translate([-1.6843150977207269,3.008491740278576,17.531893564307172])
rotate([-87.18427843882444, 27.78946360443161, 0.789545042390054])
scale([4.4099801584430365,1.5804138196551283,0.7923587994730992]) sphere(r=1);
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
translate([2.1394960582256317,3.021800032128459,17.540807568508647])
rotate([-63.998400525591215, 1.8840657284784958, -90.96025160971047])
scale([0.8052556168126024,1.5986745934123578,4.439663336328839]) sphere(r=1);
//gt label: body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//Body
translate([0.2725514644028052,-1.496334406344787,1.5136494746674662])
rotate([176.09685366282466, -89.14648960251363, 93.63729724055474])
scale([15.318456810453664,2.0933056169230007,2.221717377719672]) sphere(r=1);
```



```
$vpf=10;
//gt label: body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//Body
translate([2.0372460409998894,-1.9815972447395325,0.011737359091057525])
rotate([179.81388032023344, 0.024446729917690604, -0.4391967689729718])
cube([33.68835628032685,2.9823832772672194,2.8095007874071607],center=true);
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
translate([-17.385637760162354,1.659435704350472,0.08774492132943124])
rotate([178.86958615792884, -1.688337741397727, -55.722926461223466])
cube([6.844149567186836,2.2942520491778895,0.7163467630743988],center=true);
//gt label: engine
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//Engines
translate([2.8228623420000076,-3.0152082443237305,-3.783699348568916])
rotate([-95.76982418217592, 0.14331395252568324, -11.492133622017068])
cube([6.980003342032436,4.436096772551542,1.477715549990538],center=true);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([-1.8132041208446028,-1.5015986654907465,11.207538321614265])
rotate([-100.46448776013824, 60.24673639873269, -11.673931223096632])
cube([11.558961570262912,1.4995874557644204,0.3175771818496403],center=true);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([-1.734135057777166,-1.5650119073688984,-11.176993995904922])
rotate([100.00828562380664, -60.941740125741816, -11.315691433460858])
cube([11.613149493932728,1.499307882040744,0.3144477540627174],center=true);
//gt label: engine
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//Engines
translate([2.8365883976221085,-2.9954942502081394,3.8349106162786484])
```



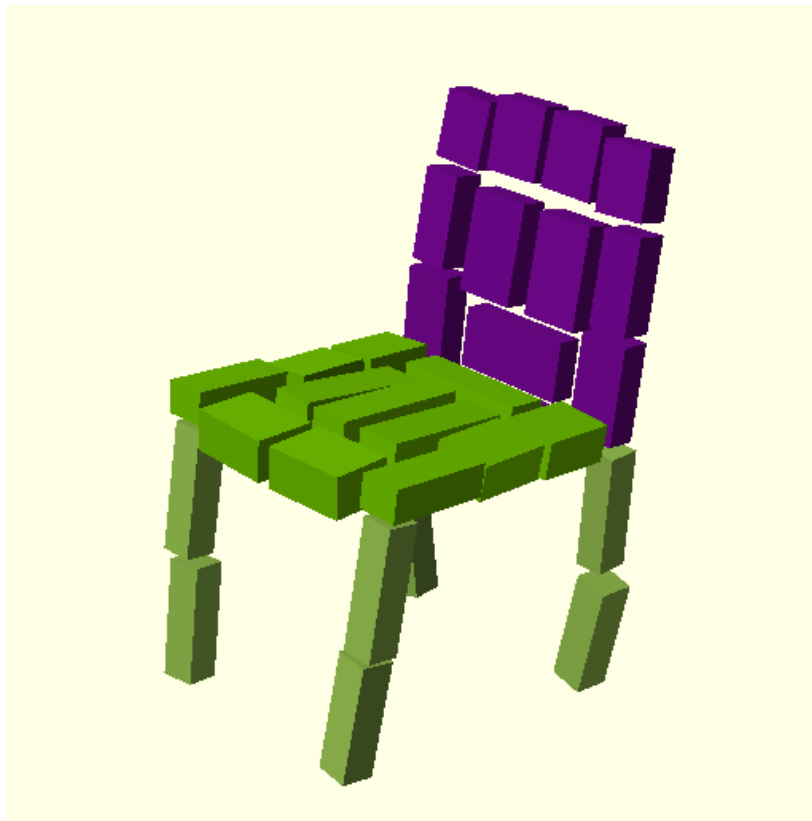
```
rotate([-84.17472360902137, -0.20361481462927783, -11.265392255527681])
cube([7.003573179244999,4.420155026018623,1.489290352910759],center=true);
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
translate([-18.538085520267487,-1.1850449908524752,3.0247295275330544])
rotate([-115.1629971229933, 75.04332945408501, -26.04869765172186])
cube([5.0085699185729045,1.3458810187876245,0.11750312522054185],center=true);
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
translate([-18.42989817261696,-1.16795739158988,-3.064870536327362])
rotate([111.96025803308733, -71.07856212961305, -21.96425804020772])
cube([4.993715323507789,1.353131290525214,0.11709039798006482],center=true);
```



```
$vpf=1;
$fn=16;
//gt label: engine
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//Body
translate([0.2548296652410342,-2.4346413171809655,-2.411059435942899])
rotate([-0.5117040885608076, 0.002987241021712984, 0.141185183670065])
scale([2.4740133434534073,2.731898912917013,13.683824565099634]) sphere(r=1);
//gt label: engine
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//Engines
translate([-11.946815964968309,-3.6628543358782064,-0.6441411197833393])
rotate([-13.570079875591157, -5.203504884496883, -33.08109523958611])
scale([1.3192057204635248,1.5170307101114937,2.7825951738202055]) sphere(r=1);
//gt label: engine
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//Engines
translate([12.428971088450888,-3.646550359933273,-0.6062612342445747])
rotate([75.49581265298937, 5.9488723404640576, 34.02757779887496])
scale([1.2860745839450671,2.8874295075302543,1.5834932417973229]) sphere(r=1);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([-5.2512164997017905,-3.7181724024855574,-2.228720194619635])
rotate([10.675876038069907, -55.15470736138622, -19.714386729644797])
scale([3.042881709078084,0.8202855272785478,7.376140356063844]) sphere(r=1);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([5.456076821555262,-3.749580227810404,-2.430599441994792])
rotate([7.220075570374453, -33.970918752382396, 6.878867297761973])
scale([8.435557782649994,0.826278855295285,3.0449951148551446]) sphere(r=1);
//gt label: engine
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//Engines
```

```
translate([-6.968632534794186,-4.229830399803494,-4.39438670873642])
rotate([5.280233205733971,-15.101919347679734,-130.2313961854806])
scale([1.5561830576347269,1.3382291340309642,2.8709454057009327]) sphere(r=1);
//gt label: engine
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//Engines
translate([7.451827435389809,-4.230090878579928,-4.393765265526979])
rotate([15.152490900550532,-5.1392001010249535,-140.96978358624423])
scale([1.3392885094103606,1.5598003631052764,2.8720951112716095]) sphere(r=1);
//gt label: wing
color([0.771320643266746,0.0207519493594015,0.6336482349262754])//Fuel Storage
translate([-2.715248225823693,-4.717664744542993,-2.3848230586103774])
rotate([-79.38421837028997,-9.770362945931398,50.317739000980374])
scale([1.0800780080582786,1.4275124215561412,1.8628487120503967]) sphere(r=1);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([2.52103368225305,-4.533158469459285,-2.4531265801709634])
rotate([21.68895929825422,9.344444621392354,16.147503954425357])
scale([3.7513337381508043,1.499667893285337,1.6036869391151098]) sphere(r=1);
//gt label: body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//Body
translate([0.2548726032609525,-2.499048168892446,-2.3742528227360356])
rotate([-179.31734994525786,-89.69444056834041,89.25818883735208])
scale([15.131738781929018,2.4599031261775806,2.8691204507713737]) sphere(r=1);
//gt label: body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//Body
translate([0.25477521323963354,-2.4912286387837455,-1.5081345225157947])
rotate([90.01938017840641,1.1086504799748227,89.84510903062079])
scale([2.762750681975614,16.5788348602212,2.4966206563555677]) sphere(r=1);
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
translate([0.21904490118765316,0.033227098427469966,13.022871250691622])
rotate([90.16883138527645,-34.93394434121134,90.16210385892296])
scale([5.225780087968578,2.756847505984099,0.8826395496726037]) sphere(r=1);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([-3.9601425761761875,-3.946851388267849,-2.724732361409975])
rotate([-82.5222128097356,31.70092833038861,-6.916400846986785])
scale([6.949724127417026,3.3996674353661747,0.8228854154763015]) sphere(r=1);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([3.731958179370217,-4.053160580603973,-2.918478328248729])
rotate([52.171329024755146,-5.810357442453889,103.42670590189397])
scale([0.8384903568936432,3.74673776652502,6.535513699054719]) sphere(r=1);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([-13.116119089333909,-2.6751761851103413,2.2304394970769468])
rotate([85.23632606485178,57.02412978824046,168.63118362974623])
scale([2.0126070827245712,7.6586753777835685,0.7105712252466575]) sphere(r=1);
//gt label: wing
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//Wings
translate([13.575096234031347,-2.6806138131929482,2.2080812603235245])
rotate([-87.00202154220759,-32.91907647027879,5.731605935330317])
scale([7.68449876619422,2.010581334647925,0.7129707657124685]) sphere(r=1);
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
```

```
translate([-2.974731588493223,-1.8224258623693301,14.175684037415879])
rotate([125.82325904224601, -0.5273848314584467, 86.19008908621248])
scale([0.6979761766674727,1.8317330790602644,6.433876377084982]) sphere(r=1);
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
translate([3.3360828200112222,-1.8231009335621544,14.16549008825551])
rotate([53.38152038436224, -0.3851607335685749, 93.76799469904078])
scale([0.6967074561702169,1.8152024758898695,6.358059592868972]) sphere(r=1);
//gt label: tail
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//Tail
translate([0.18729194593818294,1.1411160959497744,13.461671445680702])
rotate([89.43606870476547, -39.29336936593524, 91.08524330205958])
scale([7.423389994579813,2.358669350328653,0.8715423876824587]) sphere(r=1);
//gt label: body
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//Body
translate([0.2554302407509607,-3.068253268366275,-0.4809824344904527])
rotate([-92.32430841658751, -45.06139786739158, 1.3499355407015883])
scale([3.4403872878655144,3.439374948325365,3.3008996559225996]) sphere(r=1);
```



```
$vpf=10;
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-11.450938954949379,17.40648090839386,-2.5747322104871273])
rotate([89.23237887100224, 0.6895631009437423, 94.41856550741072])
cube([5.357969254255313,4.397030211985117,2.530185021460085],center=true);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([1.5148857422173023,-0.026700255839387,-8.412786200642586])
rotate([-96.5479843578339, 0.848135865195517, -2.3854561692228087])
cube([5.659894123673442,4.216597080230718,2.608595974743367],center=true);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-10.444936603307724,10.27923472225666,8.412175625562668])
rotate([90.96223368036331, -1.2236394802674084, -86.49713164181591])
cube([6.92549988627435,3.072883207350988,2.5290755368769644],center=true);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-10.441189557313919,10.282509699463844,-8.414105698466301])
rotate([88.80607794656864, 1.1587961659935448, -86.42268036654662])
cube([6.941896900534634,3.065622486174143,2.5293168984353995],center=true);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([-5.761293843388557,0.024128261138685055,0.02801183814881347])
rotate([49.79801231227707, -89.89922461577213, 41.06131736776141])
cube([10.1838506013155,3.014608118683102,2.43534222452166],center=true);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([8.62701527774334,0.15265099238604296,9.315412044525146])
```

```
rotate([-88.83027379564382, 0.2449685209043103, -0.010308273010531076])
cube([7.8173132240772265,3.0321457609534335,2.3765921965241446],center=true);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([11.307388246059418,-0.5040720896795393,-3.5157163068652153])
rotate([105.41738764621842, -88.16615181697382, -20.378908512823898])
cube([6.160144433379183,4.448570124804988,3.0089350976049936],center=true);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([2.5306325033307076,0.12590031255967926,3.9533388242125516])
rotate([90.23415518064796, -1.8543355405847353, 1.441436776516216])
cube([10.234029218554499,3.2236622646451005,2.372881416231394],center=true);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([-4.903013780713081,-0.07379355607554335,-8.440912812948227])
rotate([85.49612417235215, -0.20036771065035328, -0.7402926426163118])
cube([5.7094781473279035,4.21072613447905,2.7766026742756384],center=true);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-11.23023696243763,16.95578306913376,7.365231141448021])
rotate([90.83877128932062, 2.9794355133465995, 94.39638854252054])
cube([4.9987417086959915,4.004219397902603,2.482366133481298],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([11.445918306708336,-15.838312655687332,-8.210937455296516])
rotate([-84.7058697262891, -3.190799858155633, -87.7084789058604])
cube([8.692100942134859,2.512204404920646,2.4340042844417855],center=true);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([8.618415594100952,0.1611940748989582,-9.306828752160072])
rotate([88.99854858336302, -0.13367369316083713, -0.12797138691562215])
cube([7.8187802433967635,3.031265754252679,2.40420248359442],center=true);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-11.458862498402596,17.41512566804886,2.564340755343437])
rotate([90.63842072439869, -0.6354293499390304, 94.48225844379098])
cube([5.350019074976457,4.394088387489323,2.5279045850038755],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-11.075621321797371,-15.903215557336807,-9.270408153533936])
rotate([84.12728973453713, 10.076060877462993, 85.25625730406185])
cube([8.7787788361311,2.6722437143349476,2.6637903228425897],center=true);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([-4.897325187921524,-0.07223609020002189,8.456647619605064])
rotate([94.61253373867305, 0.20949258588438124, -0.633001513876325])
cube([5.710511617362501,4.218690246343615,2.7746129781007784],center=true);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-10.18501192331314,2.6650948636233807,8.276615664362907])
rotate([-89.2345991007291, -0.6748576335728569, 90.0128710070452])
cube([7.277301773428918,3.821940198540689,2.246648296713832],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-10.688528195023537,-6.164934784173965,-9.296421110630035])
```



```
rotate([0.4615819786828293, 1.185293358428784, 85.5273144858445])
cube([8.98703083395958,2.589707896113508,2.1838910132647937],center=true);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([1.526694837957621,-0.014934091159375305,8.399570733308792])
rotate([-83.35275005536494, -0.7792534669081501, -2.4189271023846644])
cube([5.64606070518494,4.2129729688167625,2.600985299795868],center=true);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([11.309923976659775,-0.509945903904736,3.4931496158242226])
rotate([-79.92100029852037, -88.1204906059331, 164.71002406659164])
cube([6.150358021259311,4.422628879547127,3.0140108615160086],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([11.303709223866463,-6.3007668405771255,-9.092250540852547])
rotate([-178.92387168761977, -0.8748304144225332, -86.9981719669416])
cube([9.377037510275844,2.4079648964118463,2.389673255385117],center=true);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-9.655756428837776,-1.3613304123282433,0.004977275384590029])
rotate([-52.891337714033305, 89.95832214258074, -140.17074358482924])
cube([12.48714551329613,2.509761899709705,1.6425371170044005],center=true);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-10.698969438672066,9.478451162576675,3.076524119824171])
rotate([91.05293530172554, 0.46981317943918016, 93.62844320158584])
cube([7.54021376371384,4.548779837787157,2.2593984566628986],center=true);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-10.191506147384644,2.663716971874237,-8.27037550508976])
rotate([90.68602913025175, -0.6848390640515319, -89.91151228665])
cube([7.286658734083179,3.8205002248287334,2.244745474308754],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([11.473247483372688,-15.84387093782425,8.230223432183266])
rotate([-95.80772260355442, 3.091154170098196, -87.7728080931148])
cube([8.668610602617273,2.528313342482123,2.4384100548926027],center=true);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-10.702309980988503,9.476456344127655,-3.0725689046084876])
rotate([88.94784218745343, -0.46996658924522305, 93.61692136975694])
cube([7.536366730928423,4.55192901194096,2.2558505646884495],center=true);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([2.5283787027001385,0.12741525075398383,-3.942368142306805])
rotate([-90.20717713629269, 1.9137015282902332, 1.4730309576291598])
cube([10.231932774186134,3.2187393493950385,2.3683299683034424],center=true);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-11.232298985123634,16.96559652686119,-7.35235497355461])
rotate([89.26288367941227, -2.995983439665323, 94.41606682637182])
cube([5.005337558686756,3.9997716248035626,2.4816756509244744],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-10.681250467896461,-6.157540678977966,9.3002288043499])
```

```
rotate([-0.16845153309831823, -1.2149085631003553, 85.55088042299846])
cube([8.992816954851152,2.59542455896738,2.175443563610346],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([11.302792131900787,-6.2928781285882,9.092613607645035])
rotate([179.0247755563522, 0.826190170824091, -86.97692226963217])
cube([9.36993516981602,2.405274882914583,2.40082936361627],center=true);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-10.348214134573936,2.524176798760891,0.0043628433923005305])
rotate([-58.949609213573794, -89.97929855681848, 59.31523721527704])
cube([8.849871084094051,4.431952238082887,1.9708822667598742],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-11.086428090929985,-15.890759825706482,9.301466345787048])
rotate([95.41295179138244, -10.66303309102855, 84.90072605812915])
cube([8.796446174383167,2.6608915254475494,2.6256976090373394],center=true);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([2.8649764508008957,0.4693546984344721,0.014266863727243617])
rotate([89.45097462301027, -0.12805205726774366, -0.4231941577267203])
cube([10.458025038242344,2.983358763158322,2.294817548245192],center=true);
```



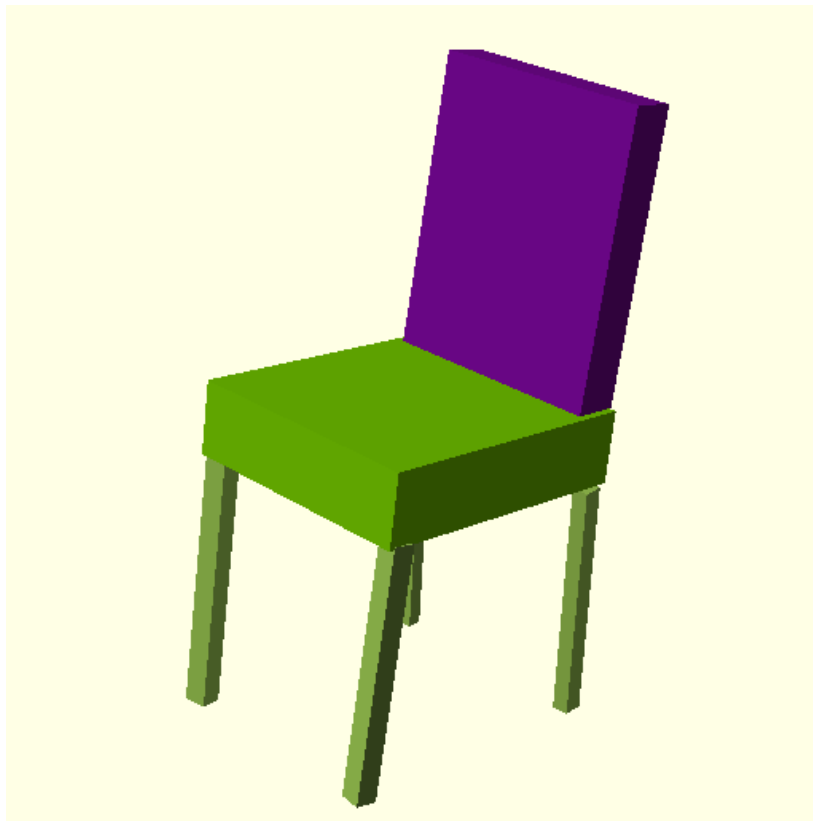


```
$vpf=1;
$fn=16;
//gt label: leg
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([0.2208442002048959,1.5900982138903246,0.22731514688095322])
rotate([24.17232768953081, 87.98505482813466, 24.511994115048076])
scale([8.13311306030854,2.300287896524305,8.15625398055367]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-5.786821440510129,-7.900748887787695,-5.957202710535216])
rotate([-0.3742613798423833, -0.5331575419301015, 0.666220043134847])
scale([2.091672725003699,11.94084027539129,1.8772466675094939]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([6.1820778509844905,-7.9530078431834355,-5.970605786727822])
rotate([79.28047992783281, -0.1138820183373095, 89.959724446925])
scale([12.021050634591477,1.8604814196410389,2.207301427488742]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([0.23561966726961345,7.760507969752602,6.404378491899242])
rotate([-0.09844968829636112, 0.05193055233098605, 4.774071087013121])
scale([8.100441681302113,8.533239818137625,1.86997357269992]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([6.179406785446665,-17.645711743313335,-5.967497145352157])
rotate([2.555926839078164, -1.6480134332707357, 58.47561230820746])
scale([2.3075280306131947,2.192983824921691,1.8767665099838506]) sphere(r=1);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
```

```
translate([0.22197813807946187,2.519493971181953,0.17753925842597434])
rotate([0.8690958907350471, 46.89203764700324, 0.46025660784432165])
scale([7.837810658890269,1.2857893400866054,8.467986143153647]) sphere(r=1);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([0.25672864816758945,2.5318145104076555,0.17943228392497354])
rotate([1.4983905641645159, -66.44245286432965, -1.11229550544027])
scale([8.128629689631255,1.2719043247077777,8.21898411149564]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([6.166819709798564,-5.968193774637969,6.183386302512625])
rotate([-89.48784870163563, -49.582690727182566, -1.1906537182570702])
scale([1.9154566947532738,2.3241541307905447,14.029369794804118]) sphere(r=1);
//gt label: leg
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([-5.701952395231828,-6.232047016205995,6.185113087944363])
rotate([-88.92501905389027, -40.364716971972705, -0.12000586292604816])
scale([2.3237386475438657,1.8975771963596346,13.767267569251684]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([0.24154778650921327,15.694948771725532,6.409660046515258])
rotate([-4.140901774451181, -6.442315374109691e-06, -1.4966838013875158e-05])
scale([8.124270322530167,4.518066022707068,1.8625137598618218]) sphere(r=1);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([1.0174937951176064,1.0679869467149612,0.21508384657942733])
rotate([101.15607613937391, -0.6209397845500416, 82.92789958085125])
scale([1.5437267558730168,8.080469978892285,7.41645220829093]) sphere(r=1);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([0.2407901130778634,1.5997416299322378,0.22680227361295535])
rotate([57.549342799966105, -87.29388061319314, -148.90726341832683])
scale([8.154525057129238,8.168824664924456,2.2864582907894384]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-5.716926539721697,-17.59703962699227,6.20582596115444])
rotate([-4.244898059088543, -1.8227300637322037, -177.37818206908315])
scale([2.172412950059642,2.322054443799931,2.1135180216768514]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([6.177523213884105,-17.284815726072893,6.2097106938776765])
rotate([95.26564954341262, -0.008977807682816294, -6.299699182426529])
scale([2.1855126094558965,2.1226843090161034,2.646335554511651]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([0.28601442666157434,9.786657989025116,6.4158253047777265])
rotate([-1.779392486266777, 2.777240087081547, -8.231205428926643])
scale([8.018102594043897,10.583173580791641,1.8106284186891888]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-3.422304858332095,9.494100057560466,6.423002546248229])
rotate([-173.93397755563163, 2.244471251947431, 93.68017643517024])
scale([10.077782040056976,4.458887810292452,1.7852402899576272]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
```

```
translate([-5.7006264834300335,-17.882609885671865,6.199860248876655])
rotate([87.61811987707355,-49.87131601949548,-176.9209443687904])
scale([2.000003259467042,2.275828903783923,2.0193047011676044]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([6.182607360508132,-17.39103975503341,6.198065047678741])
rotate([20.49411787500948,41.49962295211395,-11.250899721232956])
scale([2.1397360479054246,2.6072993712580725,2.0393027721539787]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-5.786644699780838,-17.829671761263974,-5.966980107452559])
rotate([100.49887962135182,-86.6309726123033,-98.7709173456468])
scale([1.888662657659987,2.0896957944268766,2.104797149481981]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-5.689218154420024,-11.34463678235593,6.188954348149507])
rotate([-85.97571192157787,-37.062993778797356,-2.4285375066818755])
scale([2.2869888693094254,1.8961331604615503,8.663432883179707]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([6.167556604613429,-11.72246356373248,6.206579247246618])
rotate([149.89411625666867,-1.8207459452536587,87.69096179818877])
scale([8.20657377657683,2.178259825576907,2.0868109296197477]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([4.719129269537719,9.218068096948707,6.415287243283314])
rotate([90.98038320351965,-81.83360797090643,175.87395167120548])
scale([1.8221605731093367,3.634398365798204,10.098376611004706]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-5.66880139319793,4.7460319879262345,6.47059141293816])
rotate([-99.3401124881971,-70.56953830605376,5.6958650201969165])
scale([1.6795721390972969,2.119557138370431,14.684999507406484]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-3.969810935466186,16.673683342726335,6.411550744720127])
rotate([94.95082647065078,-5.90376694653976,115.51255607196791])
scale([2.7227461661981502,1.8373570688392806,4.231036227682362]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([0.24154464633244538,17.396156684212063,6.4131756191668305])
rotate([-89.99997700495851,-4.185439461945619,-89.9999974955224])
scale([2.7581360029137656,1.8875150900820028,7.002278838468635]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([6.206074680971063,5.167106085497401,6.467177038607391])
rotate([98.41129124036007,-68.93779804772855,175.34500349024825])
scale([1.6983164555352668,2.0642314106225967,14.226985884749372]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([1.304415888760401,16.854490534118984,6.40846918458524])
rotate([-178.69086627444986,1.1619022052614532,-6.440715305012277])
scale([7.119120139142741,3.2528129932673084,1.868762756171434]) sphere(r=1);
//gt label: seat
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
```

```
translate([0.07763106588517195,0.8163615089395773,0.1665248322988982])
rotate([-95.47365327350295, -47.572618050612554, 7.80105713983533])
scale([8.682626356249271,7.491011852803438,1.3282276932959973]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([5.437307383703149,16.533411067465078,6.413554756537728])
rotate([4.303151928381524, 2.7992362757069533, -130.8718873290942])
scale([2.3552996956783794,3.398642267869867,1.8740842199843863]) sphere(r=1);
//gt label: seat
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([1.9245959008517475,1.1472186397599138,0.23938816891092324])
rotate([70.92900582432887, 0.6238648250308448, 81.55517545978516])
scale([1.6108848478483118,8.190279421599016,6.261993879857271]) sphere(r=1);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([0.2126625921253277,1.0400844494933668,3.462820888861366])
rotate([86.25021417317464, 79.50978849416143, 86.10612427052378])
scale([4.953079476304676,1.5430652253005817,8.051036946151568]) sphere(r=1);
```



```
$vpf=10;
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([0.190994031727314,-1.4089570101350548,0.019266995659564135])
rotate([-90.07606303242449, -0.06678248220079763, 0.8436249183827752])
cube([21.161970049142848,18.305073678493507,5.395543798804285],center=true);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-9.74729023873806,11.694390401244164,-0.021583555353572592])
rotate([89.85184522088787, 0.06842249457425842, 94.27714618402773])
cube([21.589275896549225,17.094756513834003,3.3171097561717056],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-10.34176416695118,-13.829637020826338,-8.09621162712574])
rotate([3.6193530043831887, -0.07021870469074856, 86.128729555824])
cube([17.909358739852905,1.507884413004084,1.249690549448326],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-10.088560730218887,-8.54364924132824,8.548949360847473])
rotate([-10.034551643793609, -1.1739332762500747, 86.4516280425528])
cube([6.485669873654845,1.3263508118689715,0.8163164462894985],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-10.725891292095184,-18.089397251605988,8.286189809441566])
rotate([-88.98879352907596, -1.006435362504306, 87.2649422245808])
cube([9.407669529318817,1.1169523466378708,1.100389268249307],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([9.94651474058628,-13.191363140940666,8.185461312532425])
```

```
rotate([-97.28290490053786, 0.8638413240328825, -88.0117609591387])
cube([18.898726403713226,1.7016483657063706,1.5339594520630273],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([9.873213768005371,-13.227798491716385,-8.279074355959892])
rotate([-82.48391216748487, -0.8676611722047696, -87.71903614227418])
cube([18.855500966310505,1.642213901504928,1.5731326583773453],center=true);
```



```
$vpf=1;
$fn=16;
//gt label: arm
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([0.24275768993665345,-0.4525699814700562,2.2256423759719604])
rotate([90.04006138010568, 6.140477005458076, 89.99931270854438])
scale([2.0874961562778642,7.842233453107918,6.423490721246471]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([0.23124279535335046,-11.940665672654692,-1.14740918835868])
rotate([-172.1990537546393, 86.4962045516553, -81.06979058949749])
scale([2.0115747885859534,2.018925563796707,1.4724604218550352]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-1.1851489462930225,7.129662581112075,9.739521664121877])
rotate([86.50198976806237, -2.2072276913854063, 89.32277559466019])
scale([2.5448158221400305,1.4614365751976552,7.573464253674383]) sphere(r=1);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([0.39800208304887236,0.0013176473499776837,5.2331191042195195])
rotate([-5.463883111361412, -86.88676691753298, -84.45251931940554])
scale([4.36883199474086,7.965562136276909,1.595541365120722]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-5.263877336097801,-14.357145454572596,-6.6174301764239445])
rotate([-132.80255190699003, 12.371799741157961, 106.1561878879547])
scale([1.2594487356102986,1.115963057331417,9.51419718887495]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
```

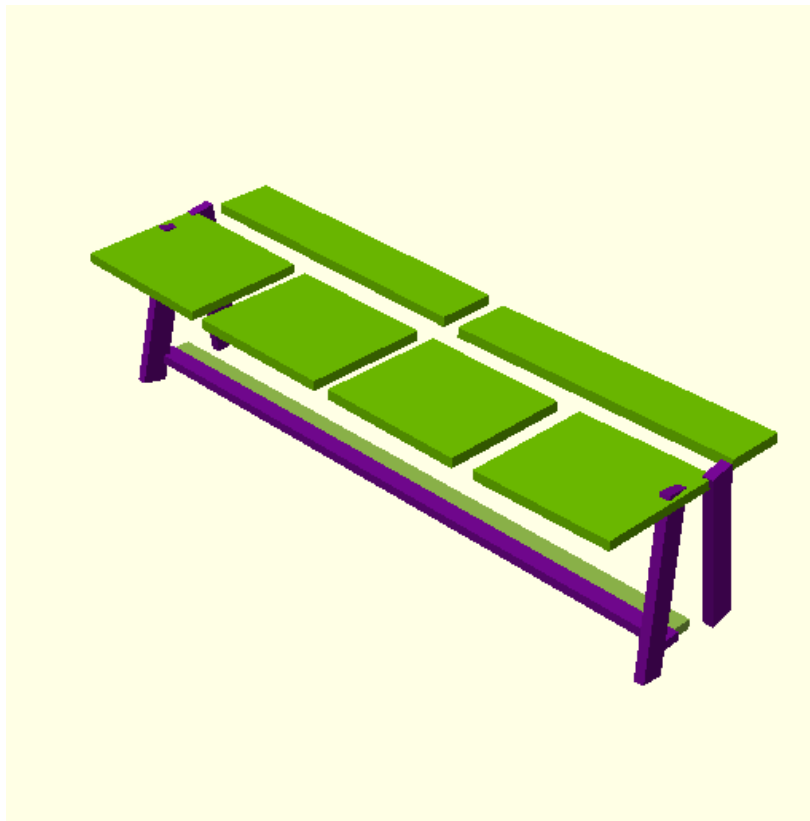


```
translate([5.795189543910649,-14.380803056385208,-6.659909240577532])
rotate([-162.26081033336243, 45.82581988131945, 176.64433221773507])
scale([1.121409415550854,1.2568139268652254,9.45050139789996]) sphere(r=1);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([0.24310794213543768,-0.20626404768098958,-1.3038644648116569])
rotate([-0.0026269291681752472, -86.21768890081043, -89.99220279408584])
scale([7.189018246920213,6.517279472040094,2.2327349885650305]) sphere(r=1);
//gt label: arm
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([0.24210684932768348,-7.467035690079565,-1.0464663576820623])
rotate([126.40255662148914, -89.40118668323032, 143.5934671210979])
scale([1.618830697691959,1.5286307457996453,5.848587336747543]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-4.31920490835024,-13.919459866440816,3.49577555189962])
rotate([-47.24860348690316, -11.22806259042575, 105.97966848066179])
scale([1.27978318411371,1.1504116427639257,9.05377903710241]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([4.384157839028732,-13.692319522733275,3.080679281898167])
rotate([-132.53580537587104, -10.431800388743314, 73.3923518438004])
scale([1.308010478058587,1.152807352659495,8.413882100063821]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([0.24110851809382441,9.467995879442796,10.219155381555144])
rotate([90.01480499851104, -7.456407571760336, 89.98788674415783])
scale([4.93517592549324,1.5919197836647865,6.808715670005135]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([6.105850572171419,-14.536266482394677,4.715782954641011])
rotate([-69.64549296379633, 44.73992544612409, 1.1176377417164087])
scale([1.058286606617596,8.92977403557819,1.2539410882669948]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-10.59942232525867,-17.65660980473394,9.764940259249315])
rotate([-31.692472129160077, -44.990448496076894, -0.037640394867254595])
scale([1.0405915991767594,2.083567416538363,1.2441568319564282]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([3.9665020354416063,9.772807359695435,10.023496267588243])
rotate([82.20947553889089, -9.294824697223245, -176.66034715141348])
scale([7.660795553870823,1.6036457827557689,5.002877958442855]) sphere(r=1);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([-4.757400407739308,0.5838035362894121,-1.287055209926937])
rotate([-30.337173568711865, -85.6816290753373, -64.58673890526045])
scale([10.275028969930567,6.211849399234938,1.6017221238302148]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([6.018696725368501,10.459596890470257,9.624180521654047])
rotate([162.86498522895673, -4.007949452637942, -130.9299752659497])
scale([7.932118941908298,7.565050539763078,1.5520243055146674]) sphere(r=1);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
```



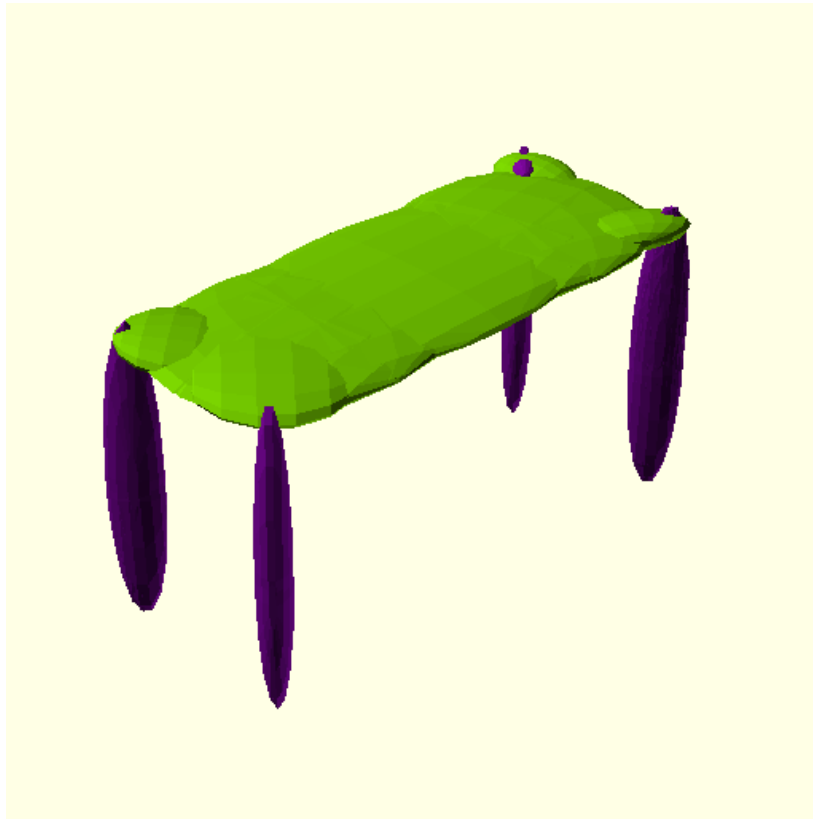
```
translate([5.759759797998097,0.632970107962256,-1.418257051188013])
rotate([3.8759578230001694, -2.252229728677224, 5.628857793449071])
scale([5.658437829950582,1.617716981664948,10.060081598551378]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-2.786297464500303,14.330518893573597,10.9853841688322])
rotate([26.470122915272373, -74.1179356553573, -117.82147440827104])
scale([1.6060177074826283,7.868686836698782,5.212155373200127]) sphere(r=1);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([0.24641637447411602,0.5968919712240282,-10.54319169210351])
rotate([89.99518681629715, -19.999263834576787, 90.01230329703358])
scale([1.9332061319247538,2.3485867549543795,8.175321312054345]) sphere(r=1);
//gt label: arm
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//armrests
translate([-11.516660387101382,11.366834135159204,2.715585137838903])
rotate([3.744238200286969, -6.411617384155679, 63.196039424674545])
scale([1.3272015458863715,1.2950201235387637,5.896409244641014]) sphere(r=1);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([3.7796731876290366,0.4362358063783335,-5.674560432848724])
rotate([6.562391926939345, 22.750849803924364, 9.90689138285924])
scale([8.942976140457652,1.9027269080929137,6.989325453405796]) sphere(r=1);
//gt label: arm
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//armrests
translate([12.056488576142685,11.576380936995797,-0.23465939675984177])
rotate([0.08034005938456529, 0.050461162106409635, 0.42952966929245273])
scale([1.181319266881632,1.1651761748868488,5.374894744676093]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([3.3775755568690924,15.080578042113263,11.125617960224982])
rotate([-24.492852108092116, -73.17686863530294, -63.876237958095004])
scale([1.6077683671661047,7.803803034450698,4.468581469162651]) sphere(r=1);
//gt label: arm
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//armrests
translate([-11.49778690027154,5.6018658306287685,-7.898414912431137])
rotate([-79.96921550607212, -24.29861448707529, -3.508893794264174])
scale([1.0736203792950383,1.0873356024208276,5.944999048243399]) sphere(r=1);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([8.899832160576532,0.932165348659391,-7.698196172714234])
rotate([157.3831719297739, 71.0707535780276, 166.24773312655373])
scale([1.4376834763780886,2.1724594514007154,3.979815315941106]) sphere(r=1);
//gt label: arm
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//armrests
translate([12.005746882894766,5.793403963679853,-7.858629006406536])
rotate([-77.80781377093167, -37.399959154870984, -7.935928345162332])
scale([1.0607138519053874,1.0123406091462013,5.727514948533929]) sphere(r=1);
//gt label: arm
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//armrests
translate([11.51188339876092,10.710915793543277,6.880329160586648])
rotate([-115.22255323042678, -62.48260642898835, -156.0760261101885])
scale([3.8080935244974885,1.5351589283217555,1.2736774333145309]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
```

```
translate([-5.487419081770856,11.471177443214085,9.844591177028159])
rotate([168.99139736194618, 14.43100985090041, 174.88546782960202])
scale([5.608285153689592,6.697852909564973,1.5557299813498622]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([5.706963493772175,14.883599073990533,10.625651219616767])
rotate([-163.70277714543514, 12.31290386744301, 4.328656925651028])
scale([5.429160918878472,4.9032699478709185,1.5552606919537422]) sphere(r=1);
//gt label: seat
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([-3.693718042062677,0.6349935398801514,-5.803744721671809])
rotate([4.613336270151781, -22.057909126776213, -8.362952476393522])
scale([8.110034141851509,1.799570898646894,6.251693743726482]) sphere(r=1);
//gt label: arm
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//armrests
translate([-11.565293306889743,11.596191577289416,-0.4601509917689407])
rotate([168.31083104493536, -89.51916303550028, 102.01441576695574])
scale([6.046186322751253,1.209289556288201,1.2367711361983549]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-7.388169415619063,10.422930315784788,9.001692546450574])
rotate([-121.17585533364763, -66.28812284864156, -158.46547393918829])
scale([1.572332741773647,4.138120846903843,5.550959511943486]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-10.641116033429686,-17.715949079264767,-11.970424392948981])
rotate([60.98190328917997, -47.817670117972355, -177.57578280628994])
scale([1.0709612508830817,1.1704815146715746,1.9597448570572813]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([11.140068652837174,-17.72317406923875,-11.985334753990175])
rotate([27.240845962098224, -45.87353172558656, -0.5392381266346183])
scale([1.0464772258115853,1.979766445963279,1.2398821828158006]) sphere(r=1);
//gt label: None
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//seat
translate([-9.563341088916944,1.144089063872462,-8.149083865725476])
rotate([-102.49425507476964, -10.531296392779296, 42.1843221143279])
scale([2.6983971019154014,3.3027255016824477,3.314637327971666]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([11.09067175699317,-17.679832681365635,9.778205791245338])
rotate([122.71250474165547, -49.59213590087874, 176.61700186618737])
scale([1.0716193072173907,1.1936259091548298,2.016349460767663]) sphere(r=1);
//gt label: back
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//backrest
translate([-4.502483262963917,15.484517553578254,10.929055900677392])
rotate([79.64255384002298, -16.422890902351973, 88.30726878399219])
scale([4.228927454222804,1.5490954336912737,6.282120943069459]) sphere(r=1);
```



```
$vpf=10;
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//legs
translate([2.970079369843006,-0.12679731240496048,-24.0245820581913])
rotate([176.01227421963475, 4.397157035932684, -80.06318735924881])
cube([12.789542451500894,1.8846877105534185,0.7533658482134633],center=true);
//gt label: top
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//top
translate([-5.5961037799716,5.490196458995342,-12.37126000225544])
rotate([179.3108465495846, 89.03858539001504, 90.02087144950087])
cube([23.247440457344062,4.479933604598048,0.7861819537356569],center=true);
//gt label: top
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//top
translate([3.527286909520626,5.549492314457893,18.89078974723816])
rotate([26.578346541889736, -87.79691355283519, 63.07309019067296])
cube([10.955434739589698,9.575952216982847,0.7184785511344709],center=true);
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//legs
translate([2.0532711781561375,-4.73336037248373,-0.03711023920914158])
rotate([106.95318988704977, -89.72479562209723, -17.98215307670261])
cube([48.92847418785096,1.3890382274985404,0.7108789402991695],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//supports
translate([0.6652626302093267,-4.826848842203617,0.021046241599833593])
rotate([104.69876660903229, -89.44356773455623, -12.966312430441215])
cube([48.315443694591515,1.5317953936755768,0.7636524504050826],center=true);
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//legs
translate([-2.4709307588636875,0.09050779917743058,24.08033698797226])
```

```
rotate([-1.4104743543443896, -0.5780128664938333, 81.41317235428934])
cube([12.462776601314546, 1.9616945460438804, 0.8024078840390012], center=true);
//gt label: top
color([0.417022004702574, 0.7203244934421581, 0.00011437481734488664])/top
translate([-5.689682811498642, 5.588267110288143, 12.309437841176988])
rotate([-0.11479079713548855, 89.57997520680924, -89.68193283719467])
cube([23.297391235828407, 4.554176665842535, 0.7689757226035041], center=true);
//gt label: top
color([0.417022004702574, 0.7203244934421581, 0.00011437481734488664])/top
translate([3.769425414502621, 5.427219532430172, -6.199982613325119])
rotate([-132.03627052300362, -89.09791279870377, -138.02029792871411])
cube([11.213242486119277, 9.51969653367997, 0.7583002885803631], center=true);
//gt label: top
color([0.417022004702574, 0.7203244934421581, 0.00011437481734488664])/top
translate([3.745363838970661, 5.412190370261669, 6.349391974508762])
rotate([-52.051471704797976, 89.24741642198587, -141.38829707159383])
cube([11.104506030678749, 9.573981985449793, 0.7530700368806758], center=true);
//gt label: leg
color([0.43599490214200376, 0.025926231827891333, 0.5496624778787091])/legs
translate([2.5618644431233406, -0.15011505689471946, 23.87307584285736])
rotate([-176.4229744037104, -3.40273110382337, -79.66148855225948])
cube([12.71857559680939, 1.9803379848599567, 0.7455944363028201], center=true);
//gt label: top
color([0.417022004702574, 0.7203244934421581, 0.00011437481734488664])/top
translate([3.557675927877426, 5.467196628451347, -18.78925234079361])
rotate([-164.66948037133494, -87.84062688800681, -105.28237567828975])
cube([10.910016149282486, 9.699493274092703, 0.7139130169525784], center=true);
//gt label: leg
color([0.43599490214200376, 0.025926231827891333, 0.5496624778787091])/legs
translate([-2.552202809602022, 0.10787618230096996, -24.034436494112015])
rotate([1.7991438385066925, 0.734344611972225, 80.70467668273125])
cube([12.466422021389011, 1.9236153550446067, 0.7929312670603429], center=true);
```

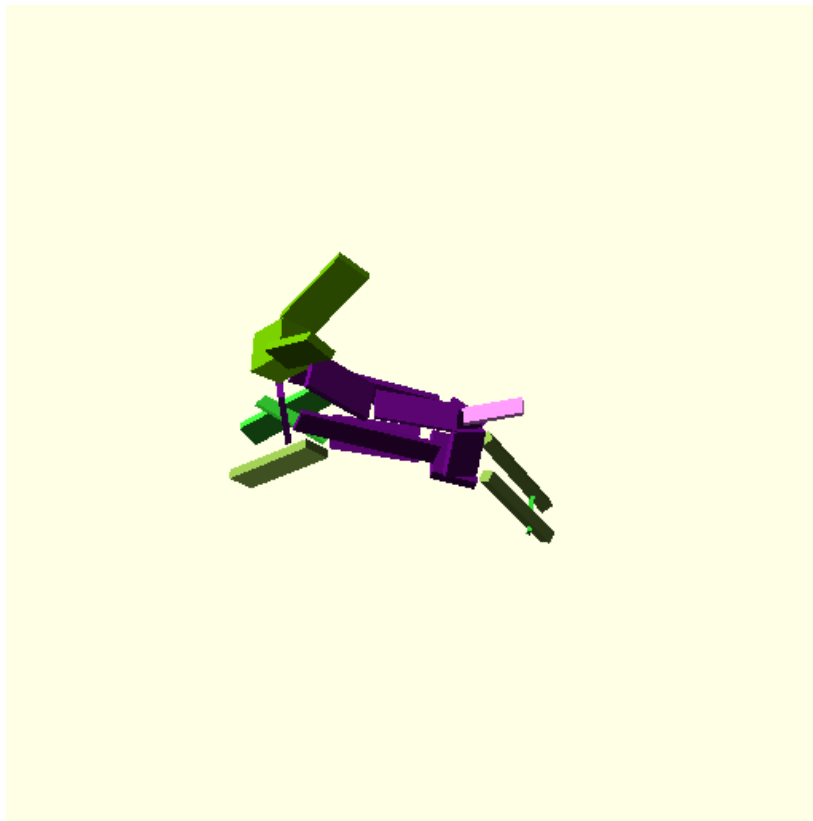


```
$vpf=1;  
$fn=16;  
//gt label: leg  
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//top  
translate([0.24154611620242183,10.088377931843635,0.24154718519876833])  
rotate([-9.925676570498173e-07, -1.5599569348423045e-06, -9.403412250628054e-08])  
scale([20.14430113460707,1.2508488381686418,8.424563511558201]) sphere(r=1);  
//gt label: leg  
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//legs  
translate([-18.1121447811956,0.23777719141672488,-6.517446948134381])  
rotate([89.99341874309067, -45.109926379502625, 179.99316536396697])  
scale([1.192365829711375,1.9733196853295618,11.483197950798534]) sphere(r=1);  
//gt label: leg  
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//legs  
translate([18.58732220919236,0.24963881941917151,-6.509488626666691])  
rotate([-0.04743286155278353, 45.269851213731194, -0.06348407295969676])  
scale([1.9621520586635757,11.443467632583951,1.1959112451776215]) sphere(r=1);  
//gt label: leg  
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//legs  
translate([-18.104688888010774,0.2578345471588166,6.9944096000298215])  
rotate([-0.15626994614585618, 44.609510326644006, -0.2526781715764201])  
scale([1.9536606643510903,11.42385938893194,1.1975770978176077]) sphere(r=1);  
//gt label: leg  
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//legs  
translate([18.579621159512065,0.2694159422231757,6.985405087471009])  
rotate([-0.19166495764172253, -44.9996415667399, 0.27104310759238104])  
scale([1.9420023683620538,11.401773211748704,1.2002426402076432]) sphere(r=1);  
//gt label: top  
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//top
```



```
translate([-9.403858236644579,10.066097909989566,0.04255572845147032])
rotate([-0.007483286778934794, -13.016116245299749, 0.13074638765304344])
scale([10.546851222929748,1.2527390909583673,8.10000980677812]) sphere(r=1);
//gt label: top
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])/top
translate([9.553899713184522,10.068014976770982,0.16274822410196066])
rotate([-0.07557194091425645, 11.095544224549258, -0.09656632963041129])
scale([10.879717443300331,1.2537209641026414,8.246721003366554]) sphere(r=1);
//gt label: top
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])/top
translate([-9.474081319311392,10.065633252910947,0.2884680627966705])
rotate([0.031245810382732074, 12.562781107190913, 0.12934125771898874])
scale([10.476407214351322,1.2560796154581984,8.268883435622506]) sphere(r=1);
//gt label: top
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])/top
translate([9.67641310847324,10.066477760024693,0.2607057154502558])
rotate([0.02736721971521492, -8.800652002404558, -0.09281473461963986])
scale([10.73087680598964,1.255680345322775,8.341464011565499]) sphere(r=1);
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])/legs
translate([-18.111231145651445,1.3935749945433245,-6.514455896356832])
rotate([-0.7331546068517416, -44.600413642399396, 1.2288041099702187])
scale([1.9578137151573016,10.40643071350844,1.1966792299695639]) sphere(r=1);
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])/legs
translate([-18.11274626980657,1.5418693747209467,-6.5175531351048015])
rotate([-0.8077515923555366, 45.6674719418168, 0.15108924931526652])
scale([1.198283169904481,10.25198212136393,1.9575979560613634]) sphere(r=1);
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])/legs
translate([-18.103859346845876,1.9285077148157619,6.993605002113011])
rotate([44.2758346814249, -0.312277742629992, 90.4243073715492])
scale([9.826651993005173,1.9580152209686197,1.203874198962813]) sphere(r=1);
//gt label: top
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])/top
translate([15.994758061740711,10.039830531762995,4.3682928642501])
rotate([-5.068056180922342, 42.579521784817096, 0.39617414982133])
scale([4.0526627846386125,1.2022889664639598,4.4836461220098585]) sphere(r=1);
//gt label: top
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])/top
translate([13.914987185726996,10.051213917524919,-1.6127892648396287])
rotate([50.03353279751466, -0.367375740934975, 90.66379333157582])
scale([1.2518075497254082,7.039860474026722,5.778878441323405]) sphere(r=1);
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])/legs
translate([-17.571976651316106,9.502470298953678,6.465987602005835])
rotate([156.78778787238932, 45.95158022780041, -177.4098059143431])
scale([1.31614295684773,1.4916408888023833,2.9321037556814114]) sphere(r=1);
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])/legs
translate([-18.11149483141692,-1.34896791499594,-6.515878374161928])
rotate([0.6099204575915449, 45.354188409222225, -0.025431222767744212])
scale([1.2021352091561195,9.969293164170308,1.9608592857485234]) sphere(r=1);
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])/legs
```

```
translate([18.584065333656643,-1.6191196830376335,-6.505214066609093])
rotate([0.10037769216398952, -45.01264382979474, -0.14514945608154176])
scale([1.203242867537167,9.656967352265898,1.9560997576817223]) sphere(r=1);
//gt label: top
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//top
translate([-15.534372692522796,10.043822164120883,-4.975700507993284])
rotate([-171.97095358333522, -28.997414210900157, -3.1367760190110867])
scale([4.660899256882461,1.229718432802221,2.61044435850952]) sphere(r=1);
//gt label: top
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//top
translate([-17.279976735944334,10.036340615023738,5.033784424481185])
rotate([-4.467624097671472, -2.8861824664404843, -101.69740364184501])
scale([1.18370793921792,2.3981265399767007,3.516113207392071]) sphere(r=1);
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//legs
translate([-18.10614699902742,-2.1769041600434678,6.987356362135515])
rotate([0.17949817117611808, -46.07307249314873, -0.19890659937470445])
scale([1.2062179734525473,9.078291835992234,1.9638384004002034]) sphere(r=1);
//gt label: leg
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//legs
translate([18.574229141940243,-1.3076632324120274,6.981342188690021])
rotate([0.7649722381655585, 44.852115301605586, 0.01724924378447022])
scale([1.1998421229098155,9.922166103902072,1.939953280531842]) sphere(r=1);
```

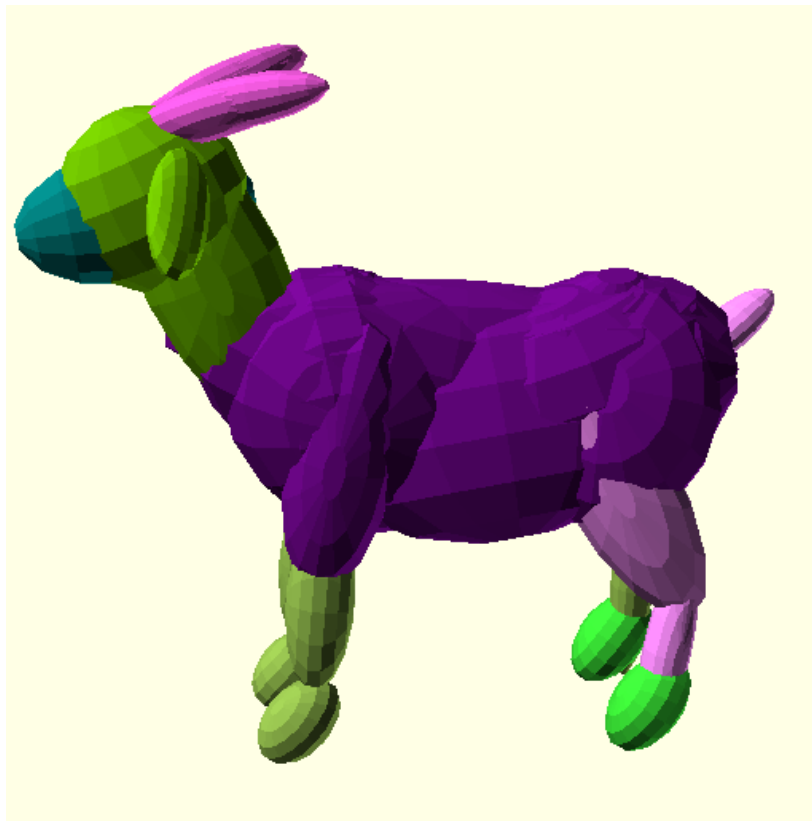


```
$vpf=10;
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([-8.75433124601841,-4.427266791462898,4.071912914514541])
rotate([150.3080183664631, 24.165928649110338, 87.26123513181253])
cube([8.395564705133442,6.287709958851341,1.277954848483207],center=true);
//gt label: leg
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//paws
translate([16.75026923418045,-10.053149834275246,4.012316279113294])
rotate([104.6910520168439, -32.26062115569667, -5.306249390954656])
cube([12.451670691370966,2.888739909976722,0.5888507468625963],center=true);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([-8.45441922545433,-10.662471801042557,0.8693362865597012])
rotate([156.1684317220732, 84.45038347638064, 73.76948621829371])
cube([9.123298898339277,7.22948759794236,1.5592317283153596],center=true);
//gt label: head
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//head
translate([16.60410985350609,15.438295006752014,6.530952826142311])
rotate([-166.6387970531374, 6.094236191110457, -63.48278956358012])
cube([14.420070499181751,5.496088713407522,1.3876356463879465],center=true);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([11.829497963190079,2.783635146915913,0.8372391946613791])
rotate([79.77370555181524, -2.906409390171374, 27.36557474885194])
cube([11.25380598008633,6.194547675549986,1.1083770450204633],center=true);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([19.457128047943115,-3.2112184166908264,0.7578627951443193])
```



```
rotate([98.81714172933982, -1.1418847480005596, 74.52960790130125])
cube([10.713090524077417,6.317608468234541,0.9502888098359177],center=true);
//gt label: head
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//head
translate([20.027457624673843,16.634366512298584,-5.73233250528574])
rotate([-169.2355804382968, -26.18063787055419, -62.07413575089929])
cube([11.371011808514597,4.690257050097,1.4196644071489875],center=true);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([-0.34992895321920525,-0.10109602648299187,0.47350768465548754])
rotate([79.30503503162338, -0.34603426311759033, 2.5450856285983257])
cube([12.761965766549112,4.65473059564829,0.7935723708942537],center=true);
//gt label: head
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//head
translate([21.480493545532227,7.434256449341774,2.0335602574050426])
rotate([96.49044347215452, 12.329552559286057, 119.16091326875447])
cube([7.0073530077935136,6.323402374982891,5.286940932273981],center=true);
//gt label: tail
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//tail
translate([-11.825310811400414,1.800224483013153,0.8814241364598273])
rotate([-94.15513154737957, 0.18557894946115208, -27.694355599156353])
cube([9.282095134258274,2.8253046423196806,0.8161159092560482],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-20.007142275571823,-16.1977618932724,-2.486822307109833])
rotate([-31.356696506651225, 1.482812664772005, 45.86893964137216])
cube([19.462481439113624,1.9787592999647525,1.9571183063100366],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([18.497679382562637,-12.424728348851204,-3.1974386796355247])
rotate([170.1842102743087, -6.959430836672959, -50.94427947293447])
cube([15.825458616018297,4.734290987253194,1.4512556232512075],center=true);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([7.146091237664223,-2.6169262267649174,5.681978091597557])
rotate([-7.111131990648714, -1.8802965307414854, 7.770032555435309])
cube([22.55270272493363,5.396061763167382,0.9649179223924902],center=true);
//gt label: leg
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//paws
translate([-23.31370383501053,-20.47510176897049,-0.4011055175215005])
rotate([26.163749911304723, 82.95299120486195, 16.114955739695922])
cube([7.339297682046892,1.0394123848534478,0.7455712836245176],center=true);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([-8.743543326854706,-4.635005332529545,-2.5637623481452465])
rotate([157.672325853129, 25.340057953305465, -90.43164549727828])
cube([7.611990347504618,5.488340966403488,1.165361013263467],center=true);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([6.458032540977001,-2.8026684932410717,-3.441649451851845])
rotate([5.1604939432335595, 0.031857790750713516, 8.627850092089318])
cube([22.08641842007638,3.8253434374928497,0.8800368197262303],center=true);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([4.1419606283307076,-9.24056701362133,2.5901389867067337])
```

```
rotate([71.20834448809012, -0.6677793435631916, -0.10836036405991763])
cube([13.695177733898163,4.267356358468534,0.9372169710695794],center=true);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([-20.05951076745987,-16.287651658058167,4.492941722273827])
rotate([108.99985854904219, -0.9487293284565096, 46.705582016093345])
cube([19.547876715660102,2.0850841888607428,2.084874790293081],center=true);
//gt label: leg
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//paws
translate([17.839918732643127,-12.014240771532059,6.525656394660472])
rotate([-172.1026297617419, 5.221140607524185, -46.155691503343036])
cube([14.695075154304504,4.089103266596809,1.3800464849919252],center=true);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([4.3028274923563,-8.402399867773056,-1.423083320260048])
rotate([136.990997013704, -6.808538430427904, -5.750692493104699])
cube([13.9092592895031,3.202972579747441,1.2504642177373269],center=true);
```



```
$vpf=1;  
$fn=16;  
//gt label: body  
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body  
translate([1.7259234376251698,-0.7849586009979248,1.4604449830949306])  
rotate([18.3681017549436, -15.677428755638102, -0.20018813935792382])  
scale([10.012478157877922,27.841013967990875,13.857415318489075]) sphere(r=1);  
//gt label: body  
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body  
translate([0.5732637690380216,-19.512137174606323,1.3106426410377026])  
rotate([-17.969730606093847, -2.40683370989156, 9.033751781535539])  
scale([11.725507602095604,20.518117398023605,13.594865575432777]) sphere(r=1);  
//gt label: head  
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//head  
translate([0.5289972806349397,29.386495053768158,25.972936153411865])  
rotate([-0.12507174870940965, -24.485586731903982, -89.61213166365005])  
scale([10.902278646826744,7.899302393198013,10.598879382014275]) sphere(r=1);  
//gt label: body  
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body  
translate([0.6030889274552464,7.030236050486565,1.510214637964964])  
rotate([87.7705472391993, 40.05363093956838, 88.43648249551605])  
scale([14.442698657512665,17.387907952070236,12.139965146780014]) sphere(r=1);  
//gt label: leg  
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs  
translate([-6.1116016656160355,11.754431650042534,-20.847627967596054])  
rotate([-38.52292130766726, -83.65813076071737, -59.754507752818704])  
scale([10.851333737373352,3.6389578133821487,4.047990255057812]) sphere(r=1);  
//gt label: leg  
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
```

```
translate([7.115396931767464,11.725539565086365,-20.7537043094635])
rotate([40.35839052653474,-83.38397484741917,-120.13225217814417])
scale([11.303851008415222,3.654758185148239,4.0268028900027275]) sphere(r=1);
//gt label: leg
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//tail
translate([-7.101161107420921,-22.579054981470108,-6.214976944029331])
rotate([90.6103561892696,29.407925535696872,81.04337856835906])
scale([6.762877926230431,19.755872189998627,5.452231392264366]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([8.126595318317413,-22.72223934531212,-6.199798621237278])
rotate([89.53571382131427,28.707021852117567,99.99717968298441])
scale([6.7506442964077,19.792959094047546,5.466644652187824]) sphere(r=1);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([-1.8991763703525066,-9.408836588263512,0.11020635603927076])
rotate([-9.667174644458308,20.702284655753644,-4.801675555564464])
scale([9.3857142329216,22.210320085287094,14.895686358213425]) sphere(r=1);
//gt label: tail
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//tail
translate([5.5423977598547935,-38.93029987812042,7.4975210428237915])
rotate([17.960458101894535,-59.571772246487335,96.28062053720302])
scale([2.593611478805542,3.3094751089811325,7.625260725617409]) sphere(r=1);
//gt label: head
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//head
translate([0.5167232360690832,22.880357801914215,17.34251394867897])
rotate([90.5334128258326,24.46663015668536,89.22289935149254])
scale([8.258362337946892,20.672547817230225,6.062648706138134]) sphere(r=1);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([0.8643312100321054,-5.127452574670315,7.23123162984848])
rotate([5.541540894415948,-9.0642807764638,-0.21759035974613997])
scale([6.802602596580982,34.37647193670273,8.483822718262672]) sphere(r=1);
//gt label: head
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//head
translate([-10.636438354849815,26.662631928920746,26.600782722234726])
rotate([132.28903093304035,-39.538708009683084,-8.602973768279229])
scale([8.898235186934471,2.460721042007208,3.755972273647785]) sphere(r=1);
//gt label: head
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//head
translate([11.694652661681175,26.726297289133072,26.71610191464424])
rotate([41.535736490395394,31.006840409909305,-111.8700249931419])
scale([3.724552243947983,2.4709047377109528,8.967515379190445]) sphere(r=1);
//gt label: head
color([0.8928601514360016,0.3319798053011772,0.8212291230578318])//ears
translate([-3.5771147534251213,22.35753670334816,36.214124262332916])
rotate([-26.272545421283994,43.26896826098489,-43.852765189844014])
scale([3.1306288577616215,12.729791328310966,2.8236356005072594]) sphere(r=1);
//gt label: head
color([0.8928601514360016,0.3319798053011772,0.8212291230578318])//ears
translate([6.051183827221394,22.422628104686737,36.45683974027634])
rotate([-126.78105658017816,58.96801929394941,5.02722162891924])
scale([2.8447449021041393,3.1260911375284195,13.832977563142776]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
```

```
translate([-6.961309909820557,14.543603360652924,-35.28387010097504])
rotate([-131.81911473166292, 11.870595099848654, -162.7211559941005])
scale([4.054144360125065,5.998684614896774,3.88924278318882]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([7.987267002463341,14.505077302455902,-35.25641143321991])
rotate([49.63558179346567, -13.481792840273414, 161.43693076053816])
scale([4.052728153765202,5.984241031110287,3.8894452154636383]) sphere(r=1);
//gt label: leg
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//paws
translate([-9.468031227588654,-26.87396466732025,-34.14883315563202])
rotate([125.36149624546931, -4.438624386554739, 6.470171047989284])
scale([4.33829739689827,6.642602011561394,4.068778082728386]) sphere(r=1);
//gt label: leg
color([0.22199317108973948,0.8707323061773764,0.20671915533942642])//paws
translate([10.476448833942413,-26.792972087860107,-34.21628326177597])
rotate([53.33621662804565, -9.716139452570902, 169.85019371664814])
scale([4.373200573027134,6.704575382173061,4.070023410022259]) sphere(r=1);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([-6.361888684332371,8.919358626008034,-3.056003265082836])
rotate([90.48857266527797, -11.504409733515704, 75.05118469286454])
scale([6.463507227599621,16.698213815689087,5.917612127959728]) sphere(r=1);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([0.9330855496227741,8.297822698950768,1.5396140329539776])
rotate([-37.41303844662691, -79.02622606044855, 133.18087307091216])
scale([16.272986382246017,12.409857362508774,12.381656989455223]) sphere(r=1);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([-2.198397498577833,-22.65343204140663,1.6350097302347422])
rotate([167.4204631198137, 65.06981022395208, 151.91197211796307])
scale([15.596567541360855,13.365125432610512,9.156393706798553]) sphere(r=1);
//gt label: leg
color([0.9670298390136767,0.5472322491757223,0.9726843599648843])//tail
translate([-9.111466035246849,-29.034321904182434,-27.756198942661285])
rotate([89.98474302793416, -11.37880624052678, 103.50791675506171])
scale([2.822817675769329,12.37330973148346,2.9921166226267815]) sphere(r=1);
//gt label: leg
color([0.5507979025745755,0.7081478226181048,0.2909047389129443])//legs
translate([9.82482835650444,-29.427443742752075,-23.732681274414062])
rotate([4.437491472260365, -0.7078933133677845, -28.28997503034634])
scale([3.092031702399254,2.875473629683256,15.837627500295639]) sphere(r=1);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([2.571240048855543,8.30141894519329,1.2593687791377306])
rotate([-169.07728962811194, -83.77551814377354, 173.4458513177141])
scale([16.297435611486435,11.332832425832748,10.66299632191658]) sphere(r=1);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([1.6200609877705574,-15.015057474374771,0.30942359706386924])
rotate([-115.62064291421352, 66.38957439595492, -32.77844640882587])
scale([14.07434567809105,10.744442120194435,23.80827948451042]) sphere(r=1);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
```



```
translate([1.8310238979756832,-18.427883684635162,1.1965438816696405])
rotate([-19.178373281381877, -17.470175067085023, 10.357904367975332])
scale([10.722813829779625,21.58275380730629,13.99759516119957]) sphere(r=1);
//gt label: head
color([0.8928601514360016,0.3319798053011772,0.8212291230578318])//ears
translate([7.83603698015213,20.05496546626091,37.493286430835724])
rotate([61.14447784514955, 13.039025676563497, 129.48483323506792])
scale([12.043654918670654,2.720805946737528,3.032321147620678]) sphere(r=1);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([3.158172145485878,8.284779340028763,1.0679362807422876])
rotate([96.40818062781672, -5.496630111386164, -20.281340313759117])
scale([10.137528851628304,16.474526971578598,10.24010218679905]) sphere(r=1);
//gt label: body
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//body
translate([3.8998467102646828,-22.448577135801315,1.4984306413680315])
rotate([-1.8278313512046236, -18.935199605621406, 18.58677366858889])
scale([8.662118837237358,13.10463771224022,15.665048658847809]) sphere(r=1);
//gt label: head
color([0.010374153885699955,0.5018745921487388,0.4957732931341461])//mouth
translate([1.0775674879550934,31.311453878879547,24.186601638793945])
rotate([151.86293622552213, 79.71235803158984, -113.39516172139527])
scale([7.767606675624847,6.6811055317521095,13.70320126414299]) sphere(r=1);
//gt label: head
color([0.8928601514360016,0.3319798053011772,0.8212291230578318])//ears
translate([-5.004483163356781,19.4220769405365,37.41292983293533])
rotate([-70.64442933720923, 46.25368435098603, 164.29118568668468])
scale([2.6566146314144135,2.97906793653965,10.686605498194695]) sphere(r=1);
```