

```
// 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])
```

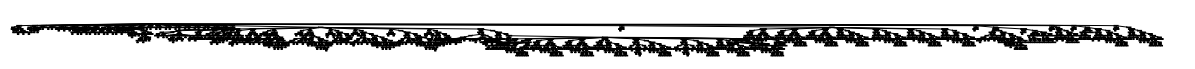
```
rotate([0,-60,0])
```

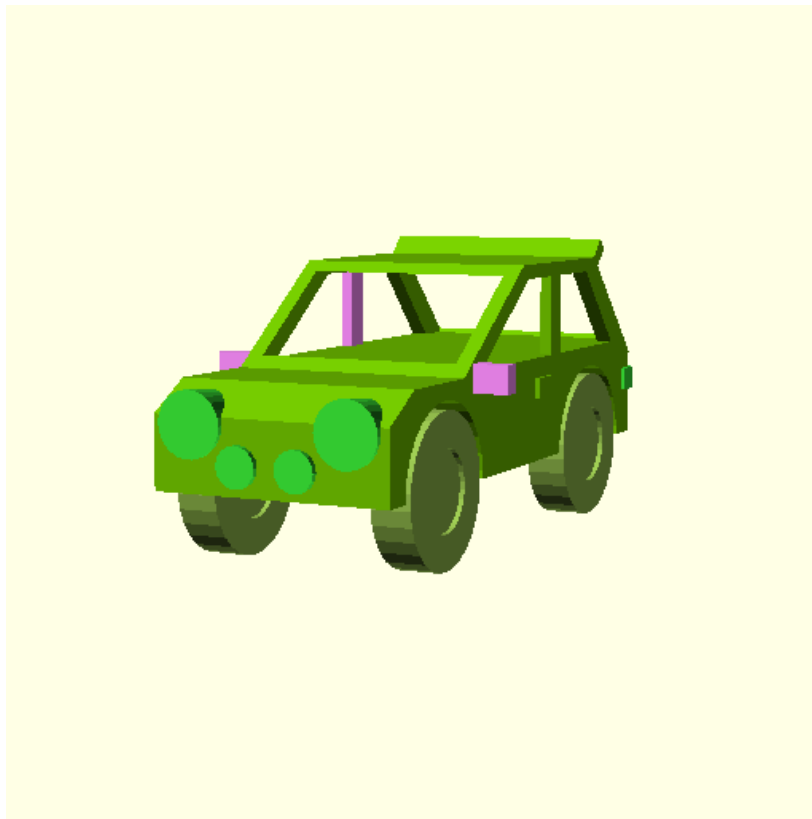
```
cylinder(3,2,1.5);
```

```
}
```

```
}
```







```
// 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])
}
}
}

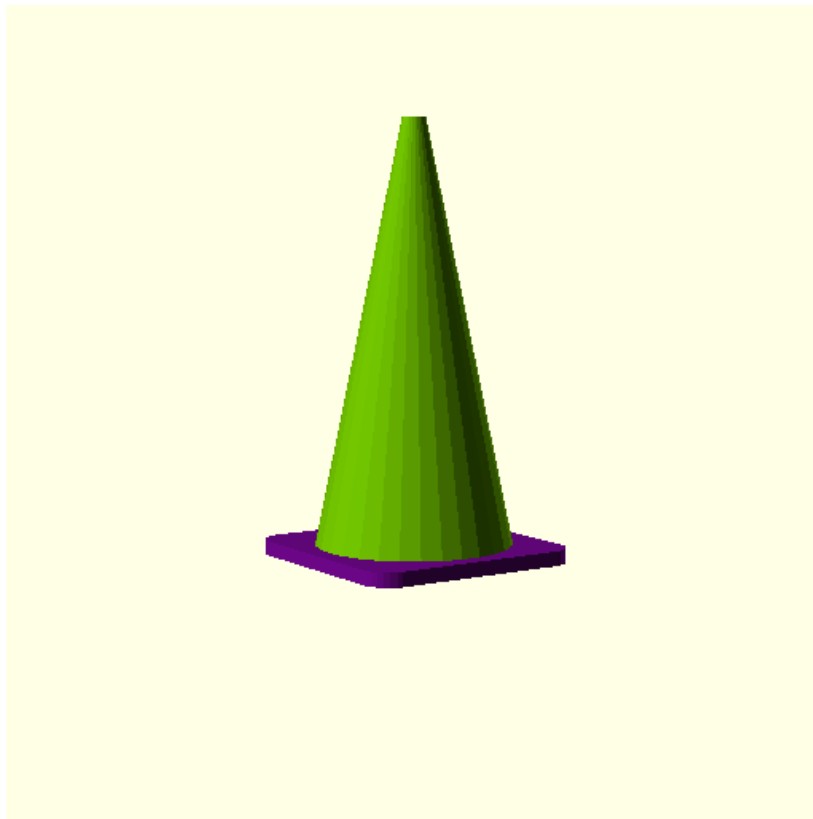
```

```
//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);
}
```







```
// TRAFFIC CONE
```

```
// 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
```

```
// version04 - 2017-02-07 - taller and thinner top
```

```
// version03 - 2017-02-07 - with base hole to allow stacking - with wider base
```

```
// version02 - 2017-02-07 - square base but hole is missing in base for stackingS
```

```
// version01 - 2017-02-06
```

```
$fn=30; // for curve smoothing
```

```
module cone(){
```

```
//gt label: base
```

```
color([0.43599490214200376,0.025926231827891333,0.5496624778787091])//base
```

```
hull() {
```

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

```
cylinder(1,2,2);
```

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

```
cylinder(1,2,2);
```

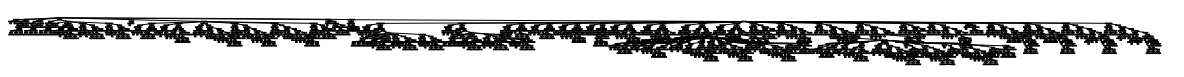
```
translate([-6,6,0])
```

```
cylinder(1,2,2);
```

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

```
cylinder(1,2,2);  
} // end hull  
//gt label: top  
color([0.417022004702574,0.7203244934421581,0.00011437481734488664])//top  
cylinder(30,7,.8);  
} // end module
```

```
cone();
```





```
// 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
```

```
// Copyright Algot Runeman, 2018  
// 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
```

```
$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();
}
```