

Chinese Biscuit

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Yibing Chen (Cookie)
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Team

A good project is inseparable from a
good team.

Team Member-Round



Zhuohao Chen(Cisco)
Modeling, Preparation work
for shading



Dishi Yuan(Jolute)
Plate Modeling, Shading



Yibing Chen(Cookie)
Animation



Haoyu Qin(Sonny)
HTML





Introduction

Our biscuit is inspired by the picture on the left. It is full of the festive atmosphere of the Spring Festival and is composed of biscuit layers, cream layers, and text layers.

Table of contents

01

Modeling

The construction process of biscuit models.

02

Shading

Give the geometry the right pattern and color.

03

Animation

Make it move!

04

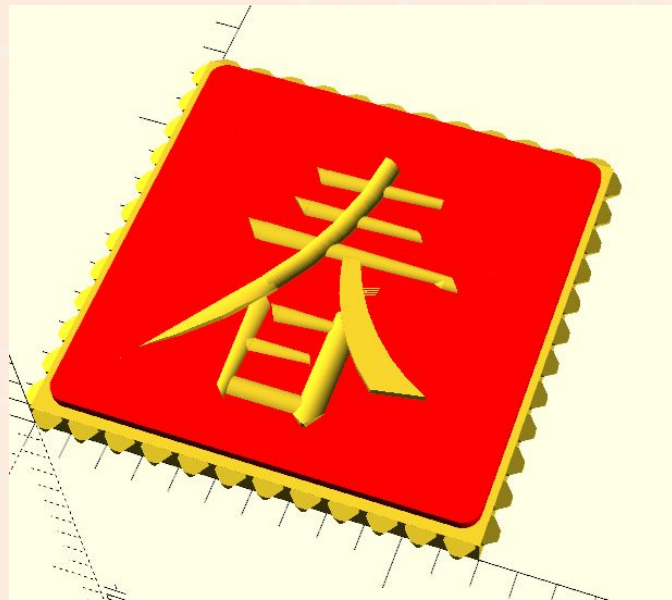
HTML

You can describe the topic of the section here

01

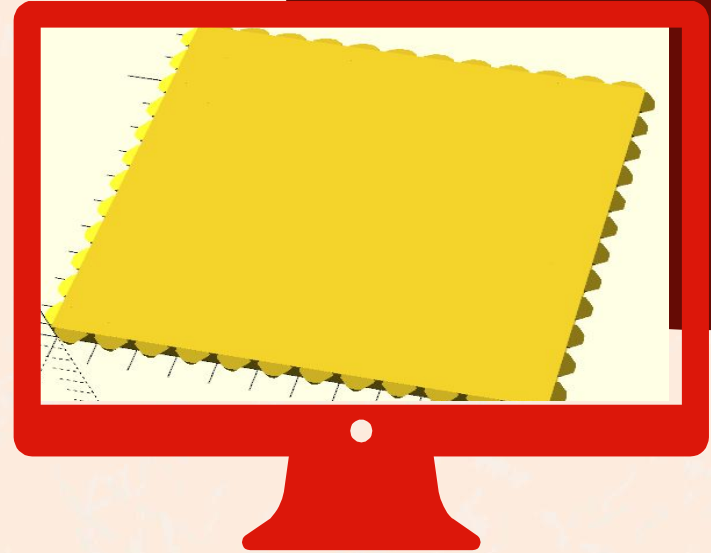
Modeling

how to make a biscuit with the word “Chun” using OpenSCAD.



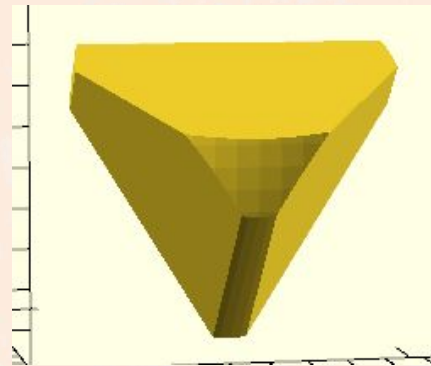
Biscuit Layers

The cookie layer is made up of a square base and many cookie cones

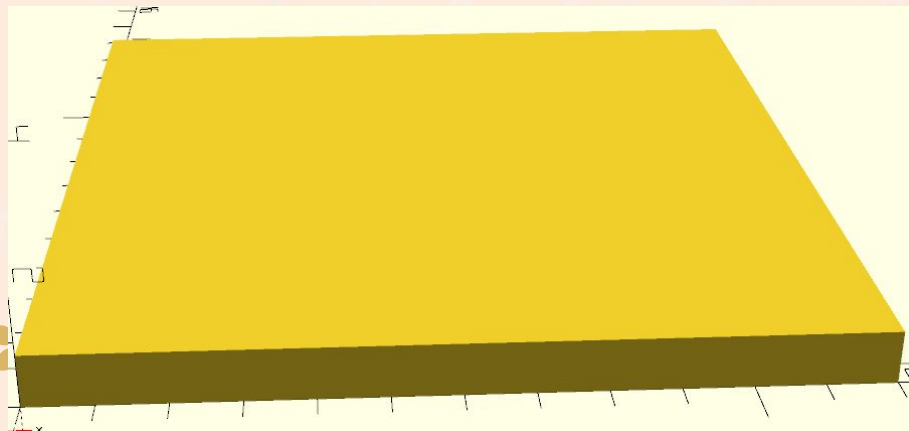




Biscuit Cone



Bitcuit Body





```
9 module Interlayer(){  
0  
1   translate([0.8,0.8,0.8])  
2   color(c=[1,0,0,1])  
3  
4   minkowski()  
5   {  
6     cube([cookieLength-1.5,cookieLength-  
7       1.5,0.3]);  
8     cylinder(r=0.5,h=0.01);  
9   }  
0
```

the biscuit's middle layer



text layers

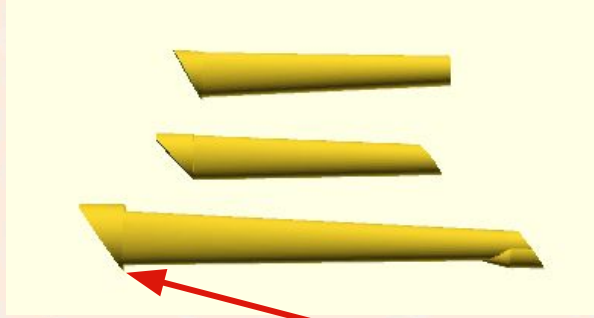
The text layer is composed of
the Chinese character ‘春’



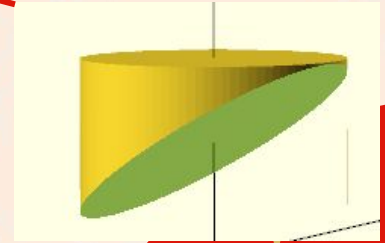
★ Reference

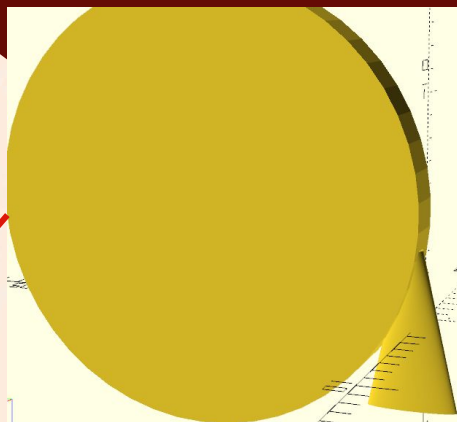
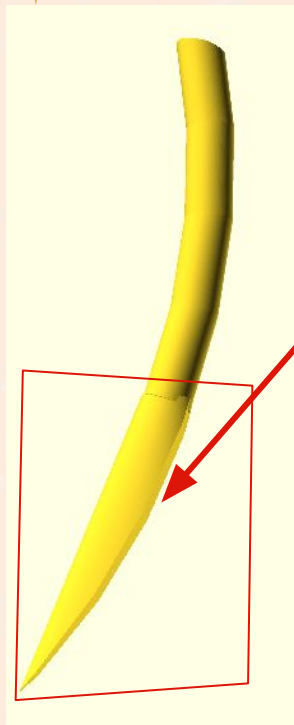


The design of the character '春' was inspired by the '春' character of Yan Zhenqing, a great calligrapher in ancient times



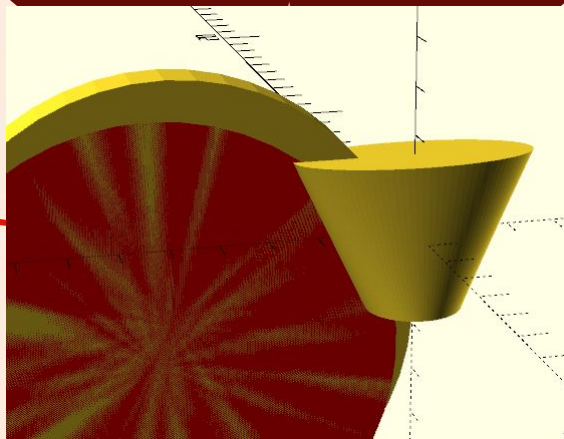
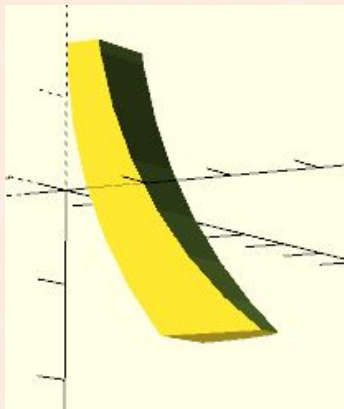
The horizontal stroke in Chinese characters, pronounced as 'Heng'





The left-falling stroke in Chinese characters,
pronounced as 'Pie'



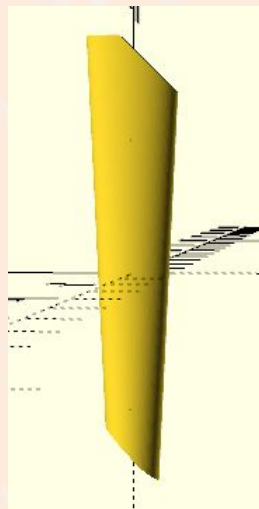


The right-falling stroke in Chinese characters, pronounced as 'Na'

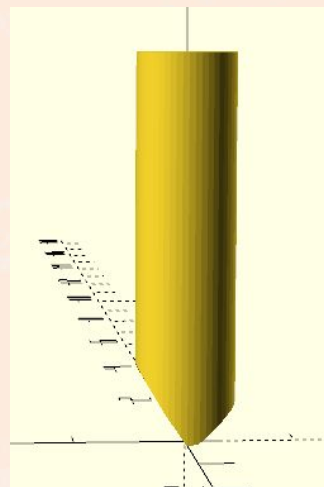




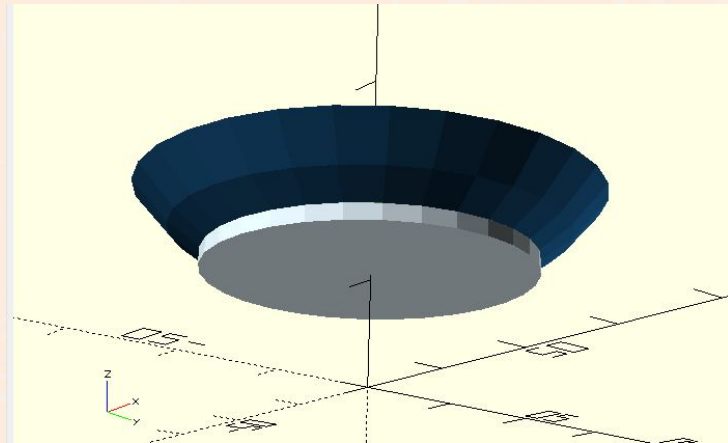
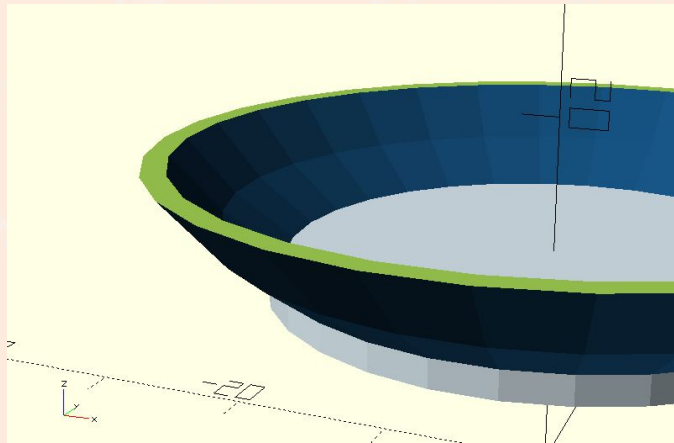
The vertical stroke in Chinese characters,
pronounced as 'Shu'



The horizontal
turning



★ Modeling-Plate ★



★ Modeling-Plate ★



BigPlate.scad* - OpenSCAD

文件(F) 编辑(E) 模型(D) 视图(V) Window 帮助(H)

编辑器

```
1 difference()
2 {
3   translate([0,0,35])
4   {
5     difference()
6     {
7       color([20/255,74/255,116/255],alpha=1)sphere(28);
8       color(c=[20/255,74/255,116/255],alpha=1) sphere(27);
9       translate([-50,-50,-17])
10      {
11        cube(100);
12      }
13    }
14  }
15  translate([-30,-30,2])
16  {
17    cube([60,60,10]);
18  }
19 }
20 translate([0,0,11.5])
21 {
22   color([208/255,223/255,230/255],alpha=1)
23   cylinder(h=2,r=15.7,center=true);
24 }
```

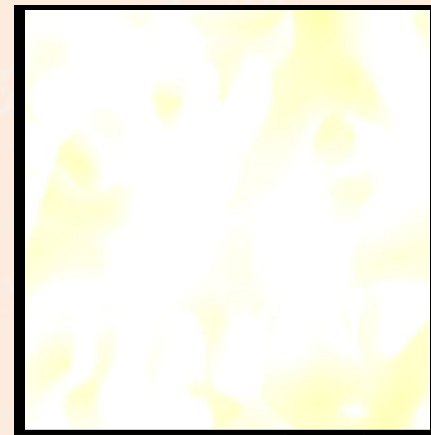
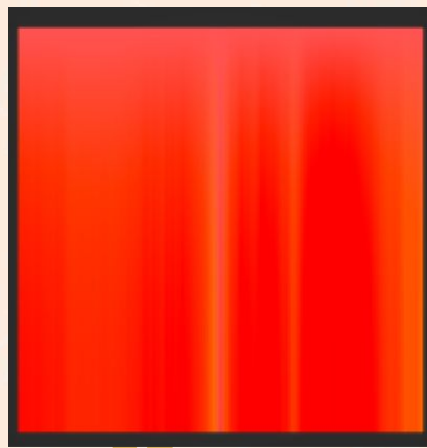
02

Shading

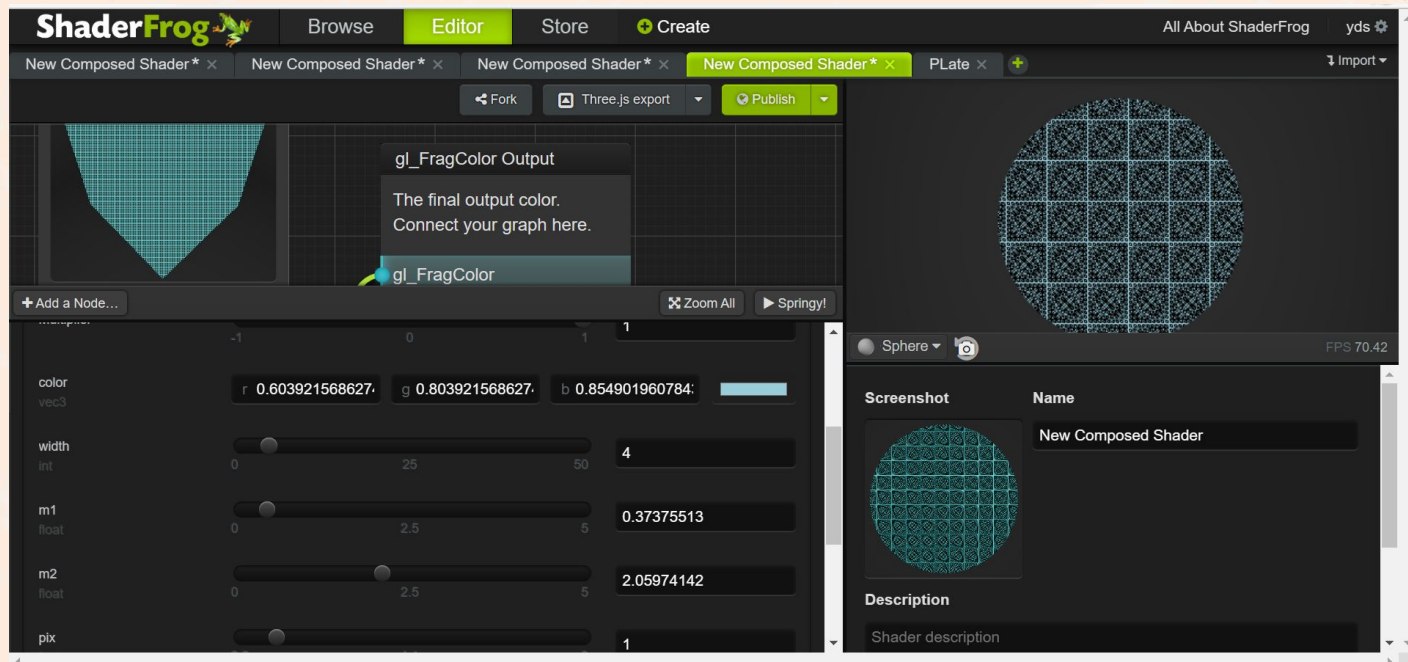


★ Shading

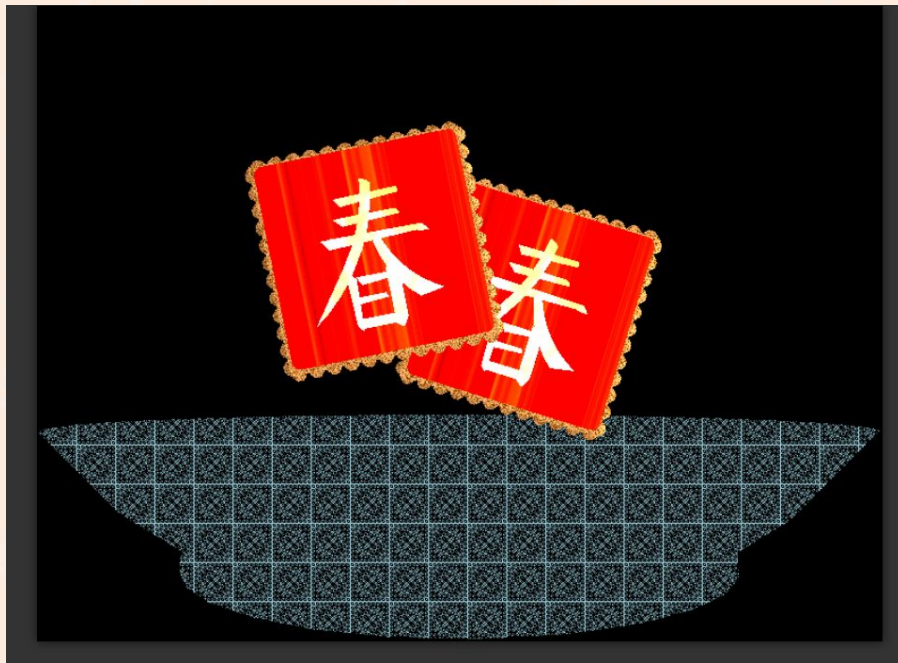
ShaderFrog 



✦ Shading



✦ Shading



03

Animation

Animate the biscuit with
three.js



```
function animate() {  
    requestAnimationFrame( animate );  
  
    const mesh2 = scene.getObjectByName('bottom');  
    //write the reference of the object  
    //since all of the object's part are on the same position,  
    //we can just call one of them, then we chose the bottom part of the object  
  
    const cameraX = Math.sin(Date.now()*0.0008)*65;  
    //asking the camera on the X-coordinate make the circling motion  
    const cameraZ = Math.cos(Date.now()*0.0008)*65;  
    //asking the camera on the Z-coordinate make the circling motion  
  
    camera.position.set(mesh2.position.x + cameraX, mesh2.position.y, mesh2.position.z + cameraZ);  
    camera.lookAt(mesh2.position);  
    //keep the camera always stick with the object  
    camera.position.y += 1;  
    //since the camera is a little bit lower than the object, so we move it up by adding 1 in Y-coordinate  
    render();  
}
```




春

04

HTML



```
<html lang="en">
<head>
<title>Project show</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="mainTemplate.css">
</head>
<body class="body1" onload="changeImageSystem()">
  <script type="text/JavaScript" src="scriptformainpage.js"></script>
  <div class="header">
    <h1>Project Showcase</h1>
  </div>
  <div class="menu">
    <ul>
      <h3>Menu</h3>
      <a href="About Us.html"><li>About Us</li></a>
      <a href="http://localhost:8000/Mysf/"><li>Project</li></a>
      <li>Code</li>
      <a href="AnimationVideo.html"><li>Video</li></a>
      <li>Presentation</li>
    </ul>
  </div>

  <div class="MainContent" id="workingImage">
```

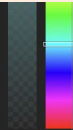
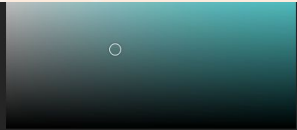
```
const sleep = (delay) => new Promise((resolve) => setTimeout(resolve, delay))

async function changeImageSystem(){
  images=new Array('image3.png','image4.png','image1.jpg','image2.jpg','image3.jpg');
  imageLen=5;
  count=imageLen-1;
  //changeImage(images[count]);
  for(;;)
  {
    count--;
    if(count<0)
    {
      count=imageLen-1;
    }
    changeImage(images[count]);
    await sleep(5000);
  }
}

function changeImage(imageName)
{
  var x=document.getElementById('workingImage').style;
  var name="url('"+imageName+"')"
  x.backgroundImage=name;
  x.backgroundRepeat="no-repeat";
}
```



```
text-shadow: 10px;  
font-size: filled;  
border: 0px;  
text-decoration-sty  
line-height: 100px;
```



```
div.menu{  
  width: 23%;  
  float:left;  
  background-color: rgb(75, 120, 120);  
  border-radius: 4px;
```

Sets the background color of an element.
(Edge 12, Firefox 1, Safari 1, Chrome 1, IE 4, Opera 3)

```
body.body1{  
  background-image: url(BackGround.png);  
  background-repeat:no-repeat;  
  background-size: 100%;
```

```
menu li{  
  background-color: aquamarine;  
  font-family: 'Times New Roman', Times, serif;  
  font-weight: bold;  
  text-align: center;  
  line-height: 30px;  
  font-size: 20px;  
  list-style: none;  
  height: 50px;  
  position: relative;  
  transition: 0.34s;
```

```
menu li:hover{  
  background-color: antiquewhite;  
  font-size: 30px;
```



Thanks!

Any questions?

CREDITS: This presentation template was created by **Slidesgo**, including icons by **Flaticon**, and infographics & images by **Freepik**

