

# **Chinese Biscuit**

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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**





#### **Modeling**

The construction process of biscuit models.



#### **Shading**

Give the geometry the right pattern and color.



#### **Animation**

Make it move!



#### HTML

You can describe the topic of the section here

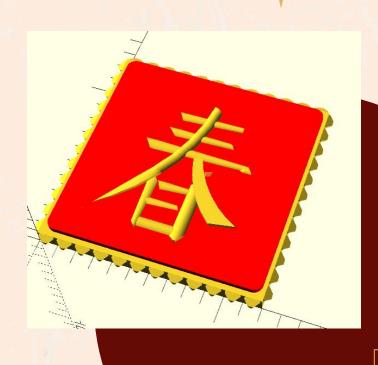




# Modeling

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



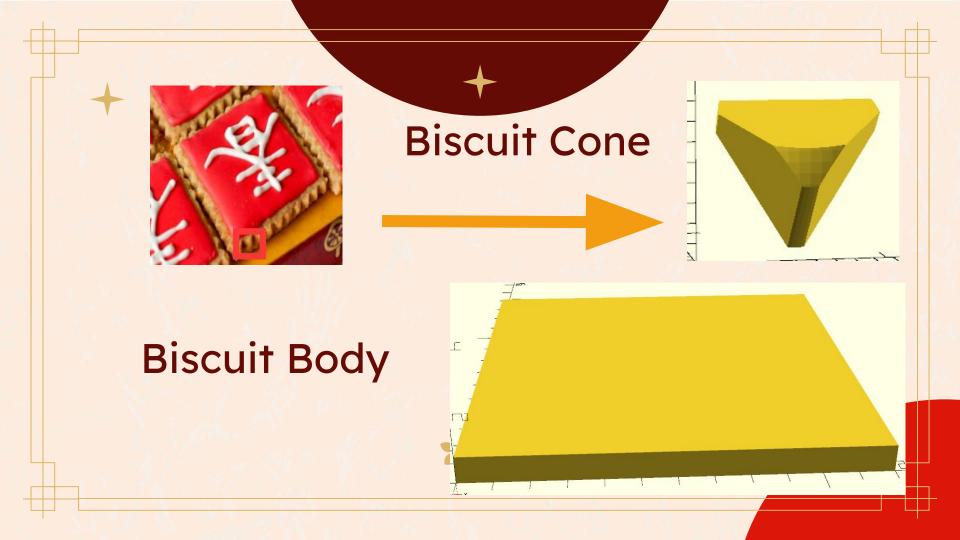


### Biscuit Layers

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









#### the biscuit's middle layer



# text layers

The text layer is composed of the Chinese character '春'









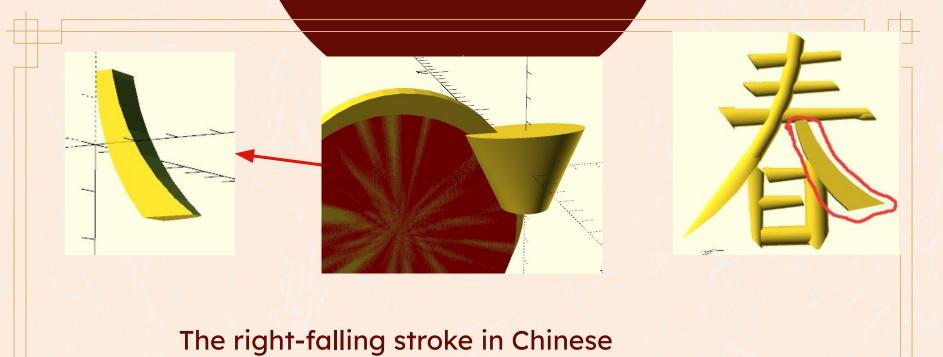


The design of the character '春' was inspired by the '春' character of Yan Zhenqing, a great calligrapher in ancient times





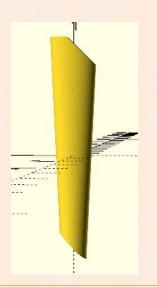




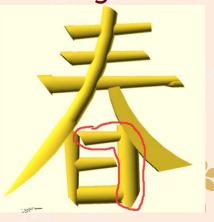
characters, pronounced as 'Na'

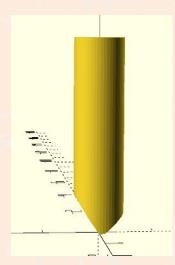


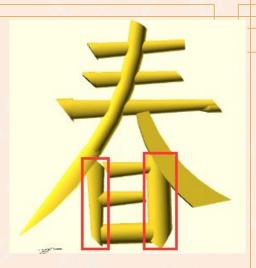
The vertical stroke in Chinese characters, pronounced as 'Shu'



The horizontal turning

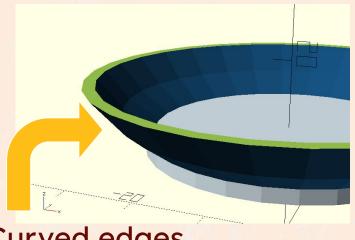




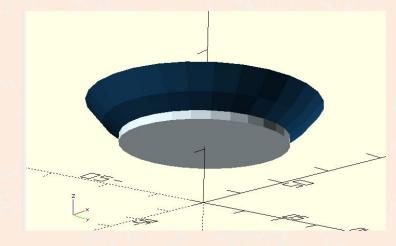


# + Modeling-Plate





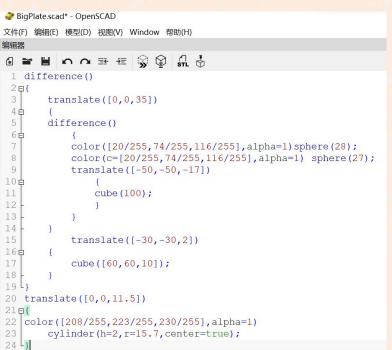




Fill the hole by using a disc at the bottom



# + Modeling-Plate





# Shading







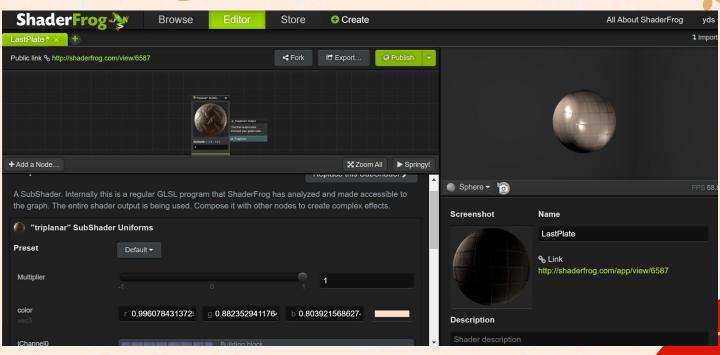






### + Shading





# + Shading



### 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();
```





HTML



```
tml lang="en">
ead>
itle>Project show</title>
eta charset="utf-8">
eta name="viewport" content="width=device-width, initial-scale=1">
ink rel="stylesheet" href="mainTemplate.css">
head>
ody class="body1" onload="changeImageSystem()">
 <script type="text/JavaScript" src="scriptformainpage.js"></script>
 <div class="header">
     <h1>Project Showcase</h1>
  <div class="menu">
         <h3>Menu</h3>
         <a href="About Us.html">About Us</a>
         <a href="http://localhost:8000/Mysf/">Project</a>
         Code
         <a href="AnimationVideo.html">Video</a>
         Presentation
  <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;
   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-snadow: Topx;
   font-size: filled;
   border: 0px;
   text-decoration-sty
   line-height: 100px;
liv.menu{
                      Sets the background color of an element.
   width: 23%;
                      (Edge 12, Firefox 1, Safari 1, Chrome 1, IE 4, Opera 3)
   float:left;
   background-color: ☐rgb(75, 120, 120);
   border-radius: 4px;
ody.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;
```



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



