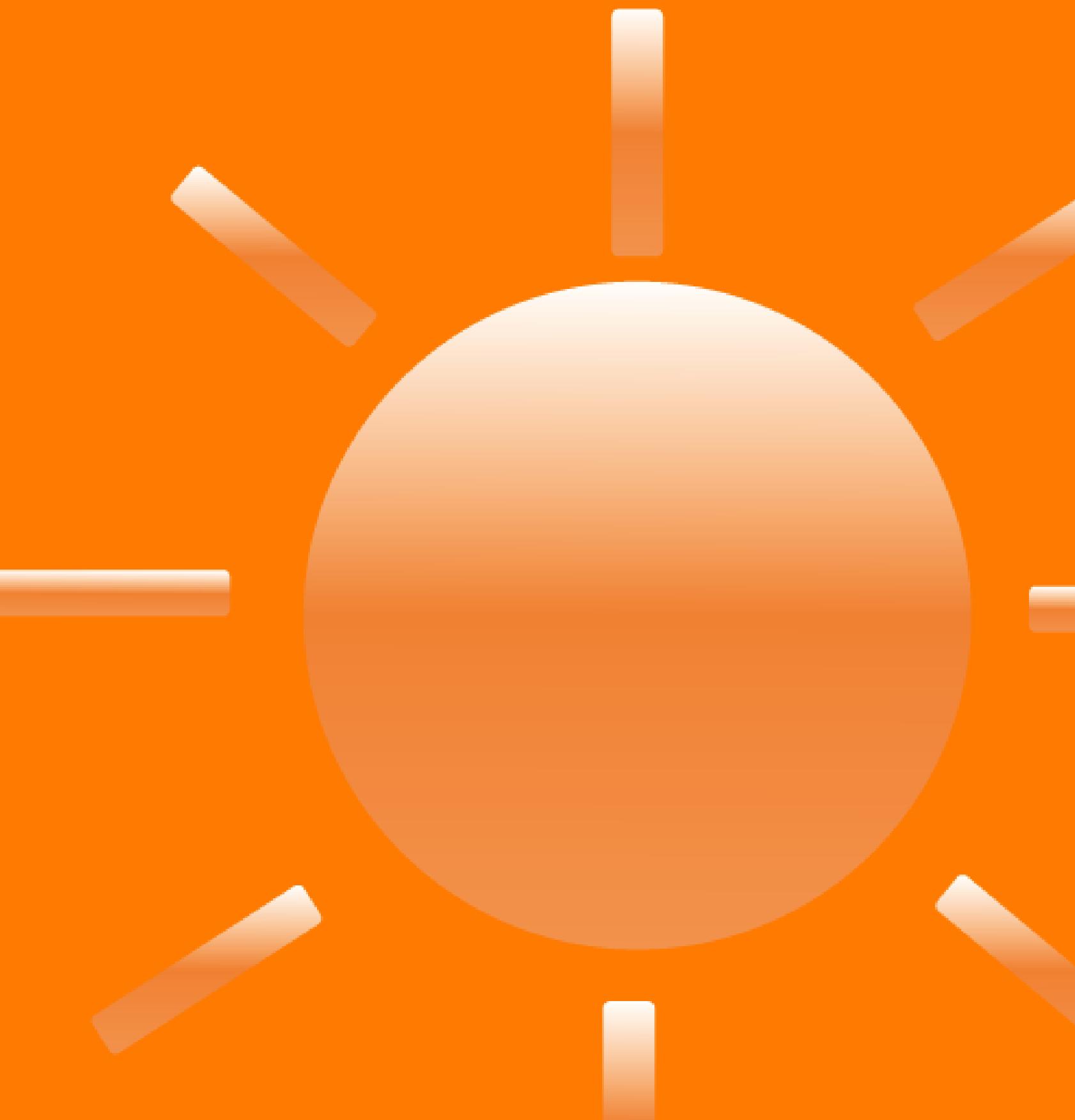


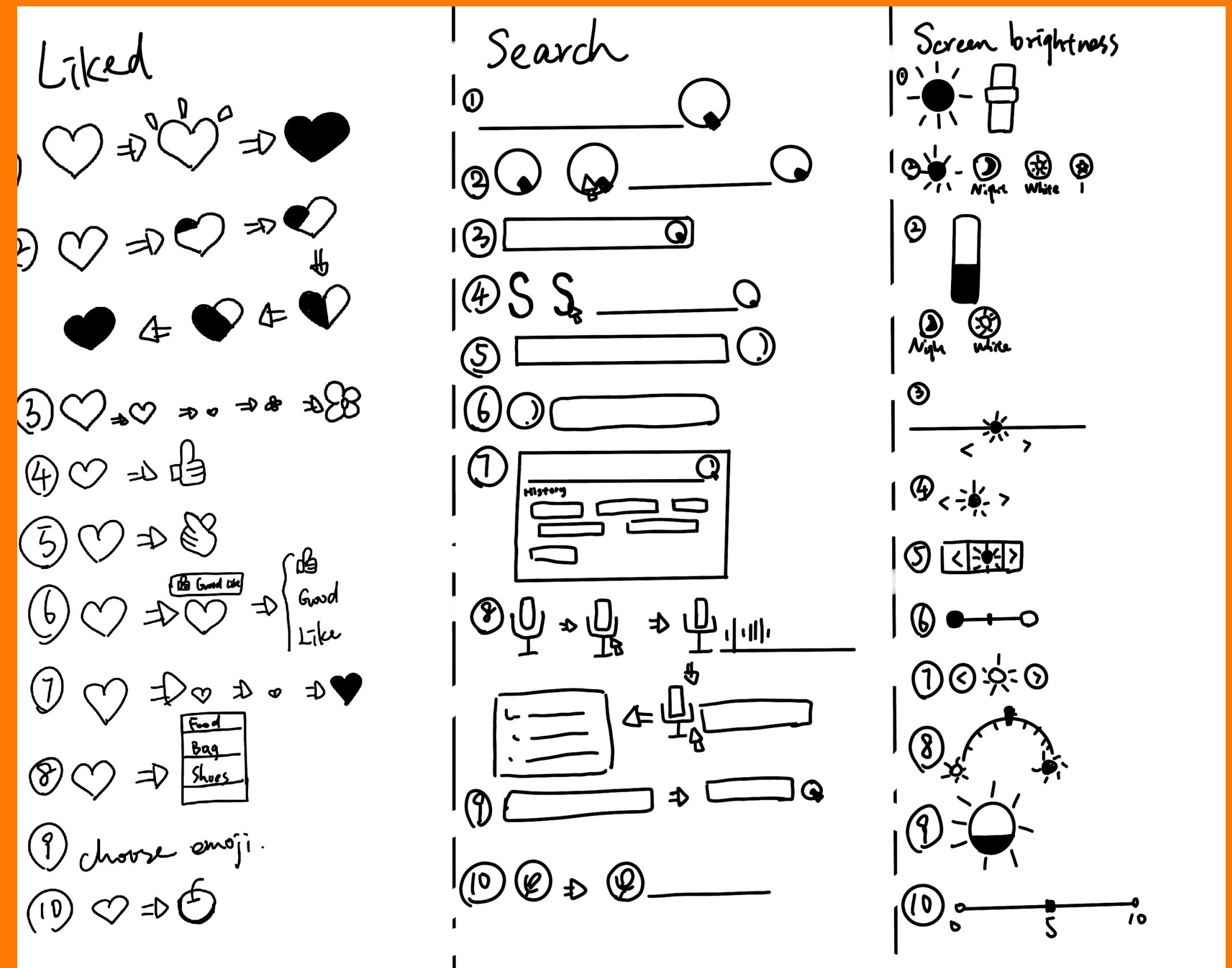
Assignment 2

Lihong Zhu

Sketch

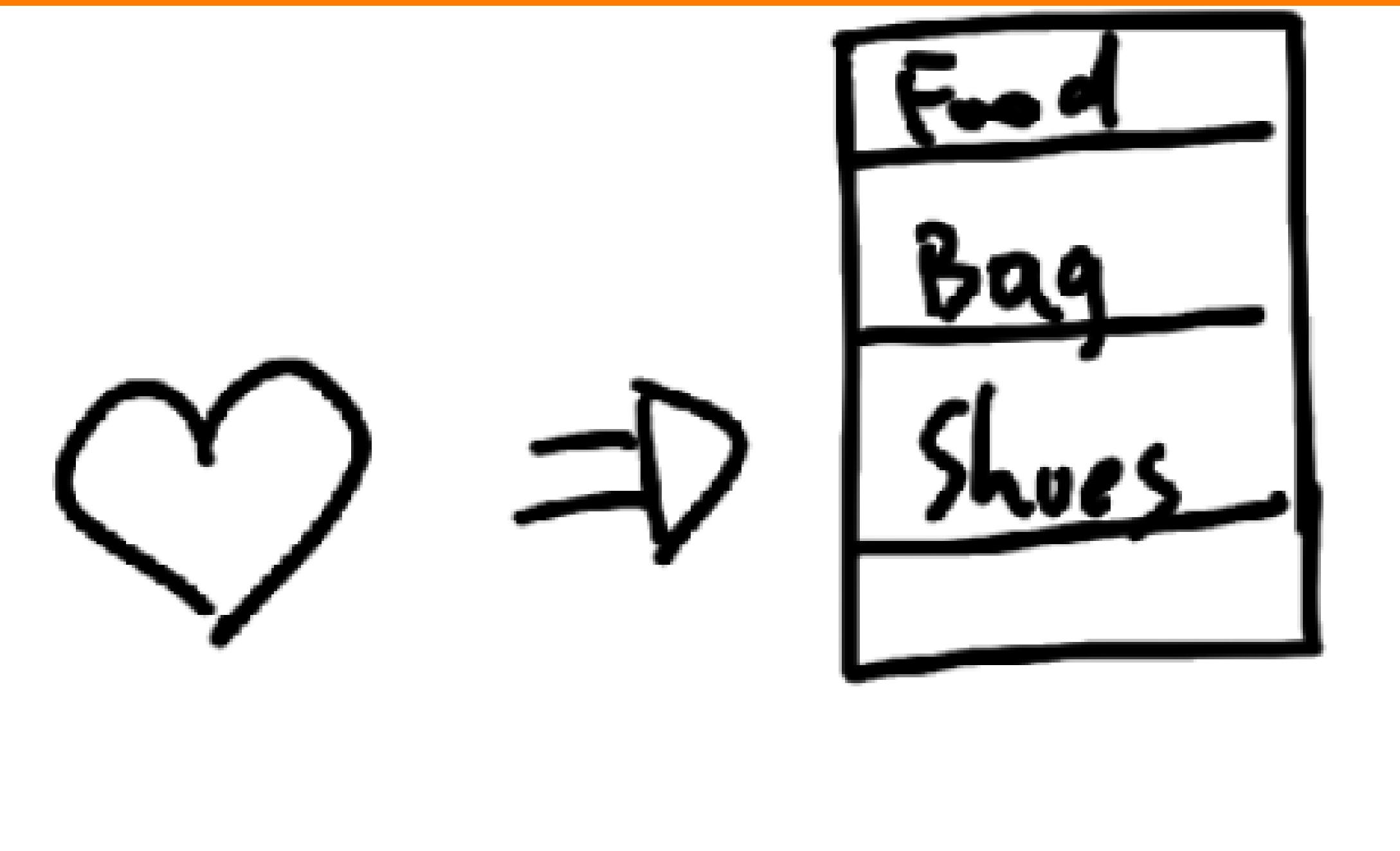


30 ideas



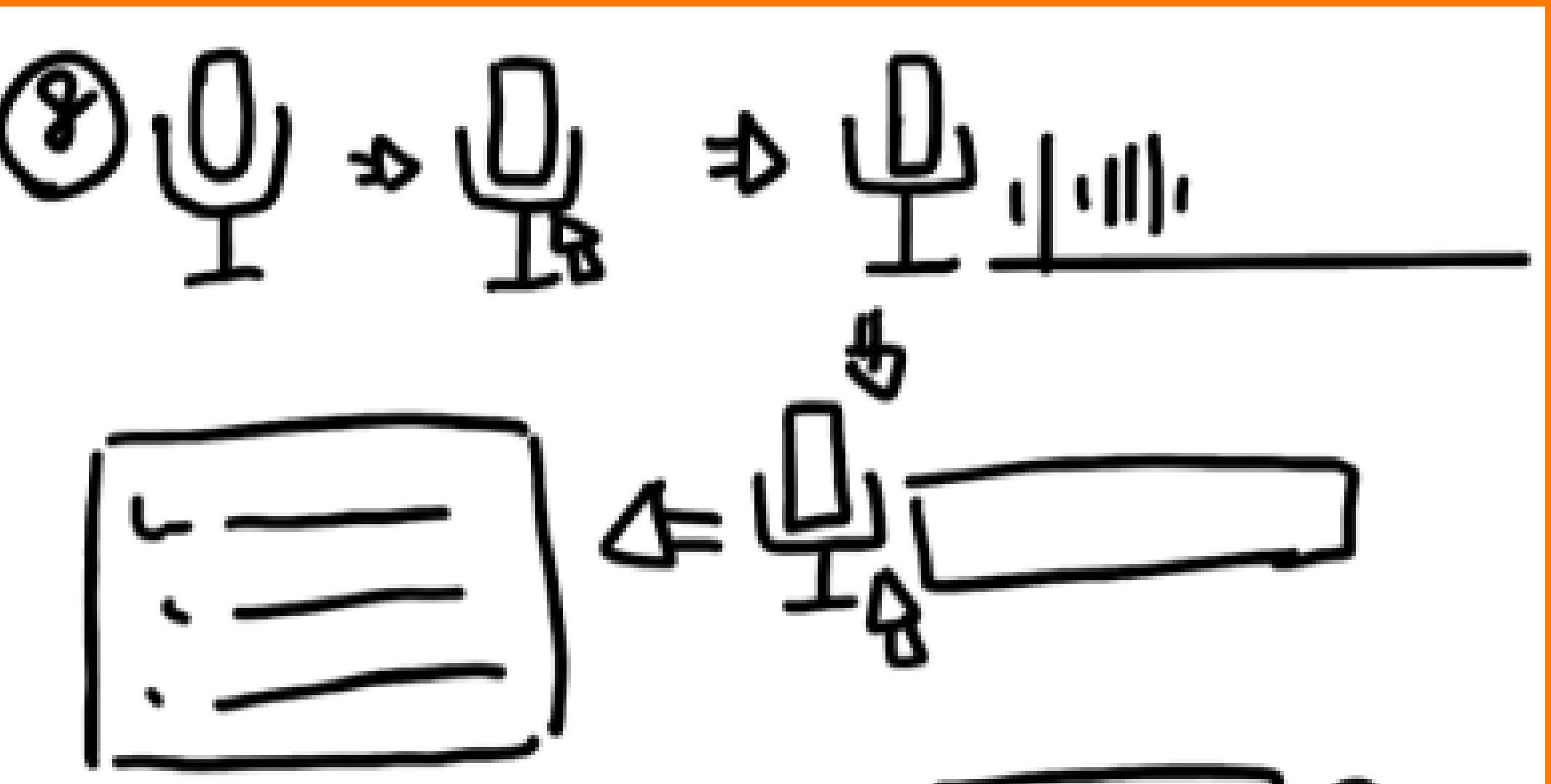
Concept 01

When users click on the love heart, they can select the relevant category bar. It is easy for users to find. Of course, users can also edit the usage bar by themselves.



Concept 02

When users click on the love heart, they can select the relevant category bar. It is easy for users to find. Of course, users can also edit the usage bar by themselves.



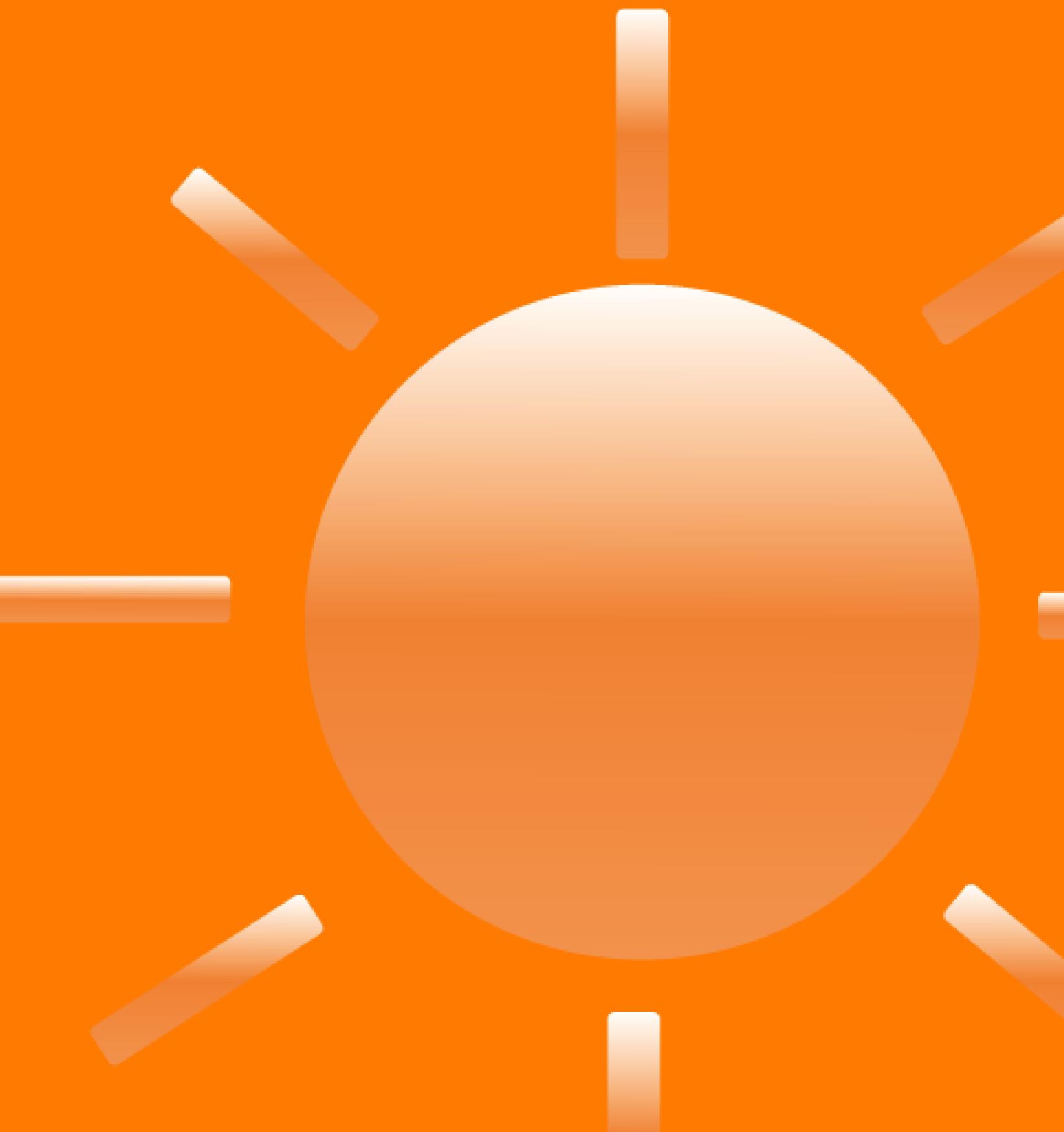
Concept 03

Users can click directly on the icon below, which can help them get into a comfortable screen brightness.



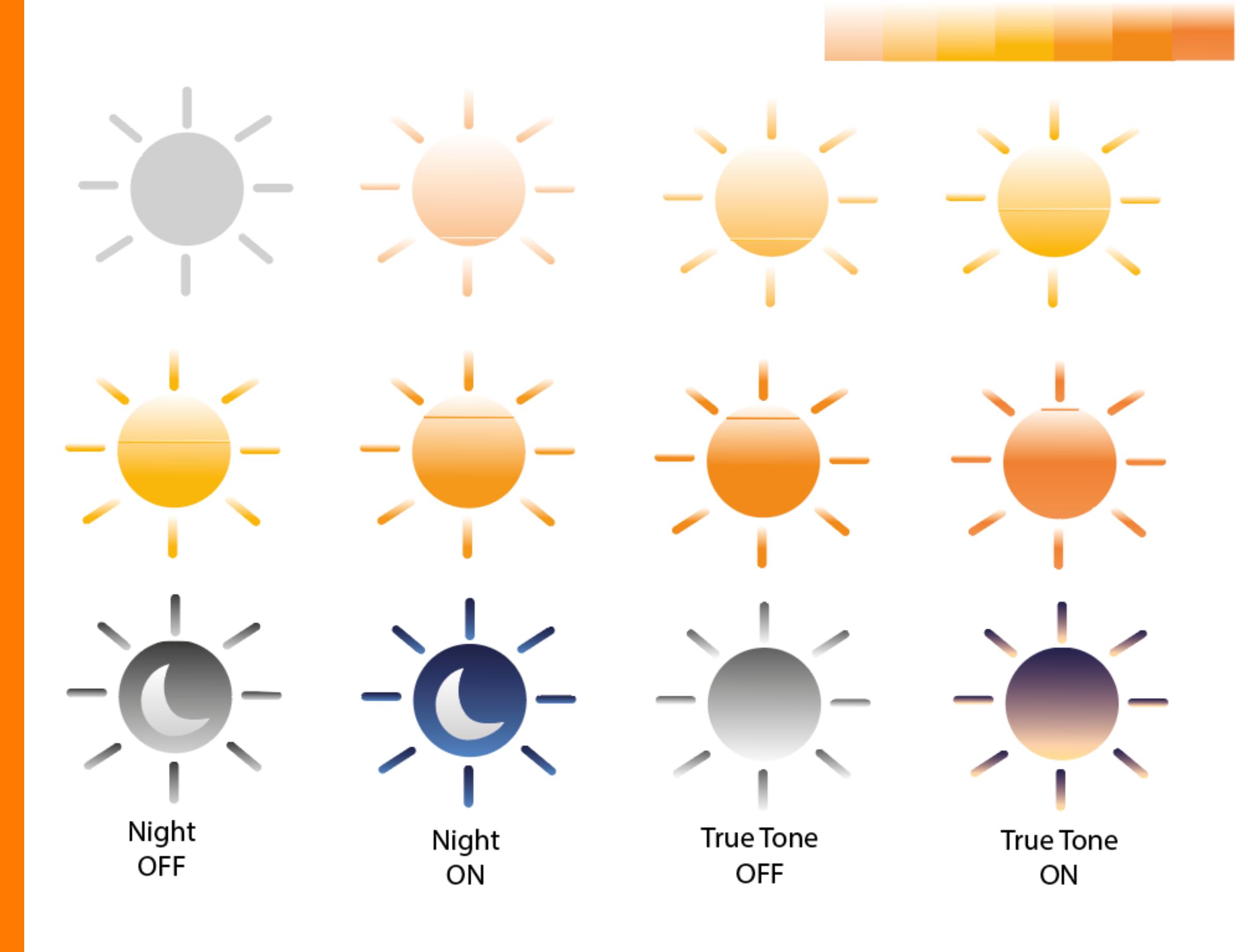
Process

Screen Brightness

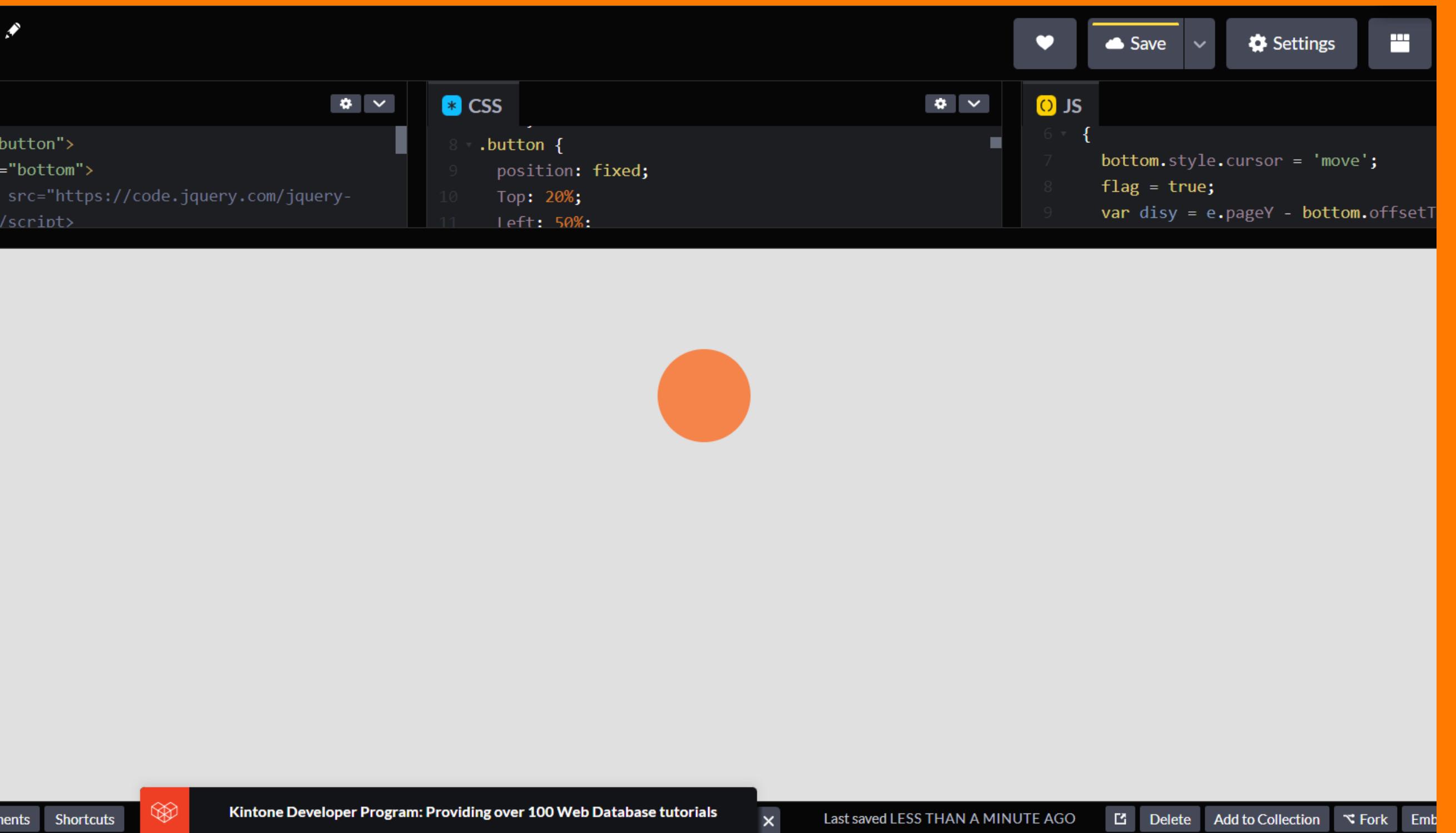




Design a process diagram using illustrator.
The user adjusts the horizontal bar in the sun
icon to manipulate the screen display. This is
a further improvement based on Concept 03.



Write how to move the progress bar while the background is changing in codepen using HTML, CSS, JavaScript.



The screenshot shows a Kintone developer interface with a code editor. The editor has three tabs: HTML, CSS, and JS. The HTML tab contains the following code:

```
<button>
    <div style="position: absolute; width: 100%; height: 100%; background-color: #000; opacity: 0.5; z-index: 1;></div>
    <div style="position: relative; width: 100%; height: 100%; z-index: 2;></div>
    <div style="position: absolute; width: 100%; height: 100%; background-color: #fff; border-radius: 50%; left: -50%; top: -50%; z-index: 3;></div>
</button>
```

The CSS tab contains the following code:

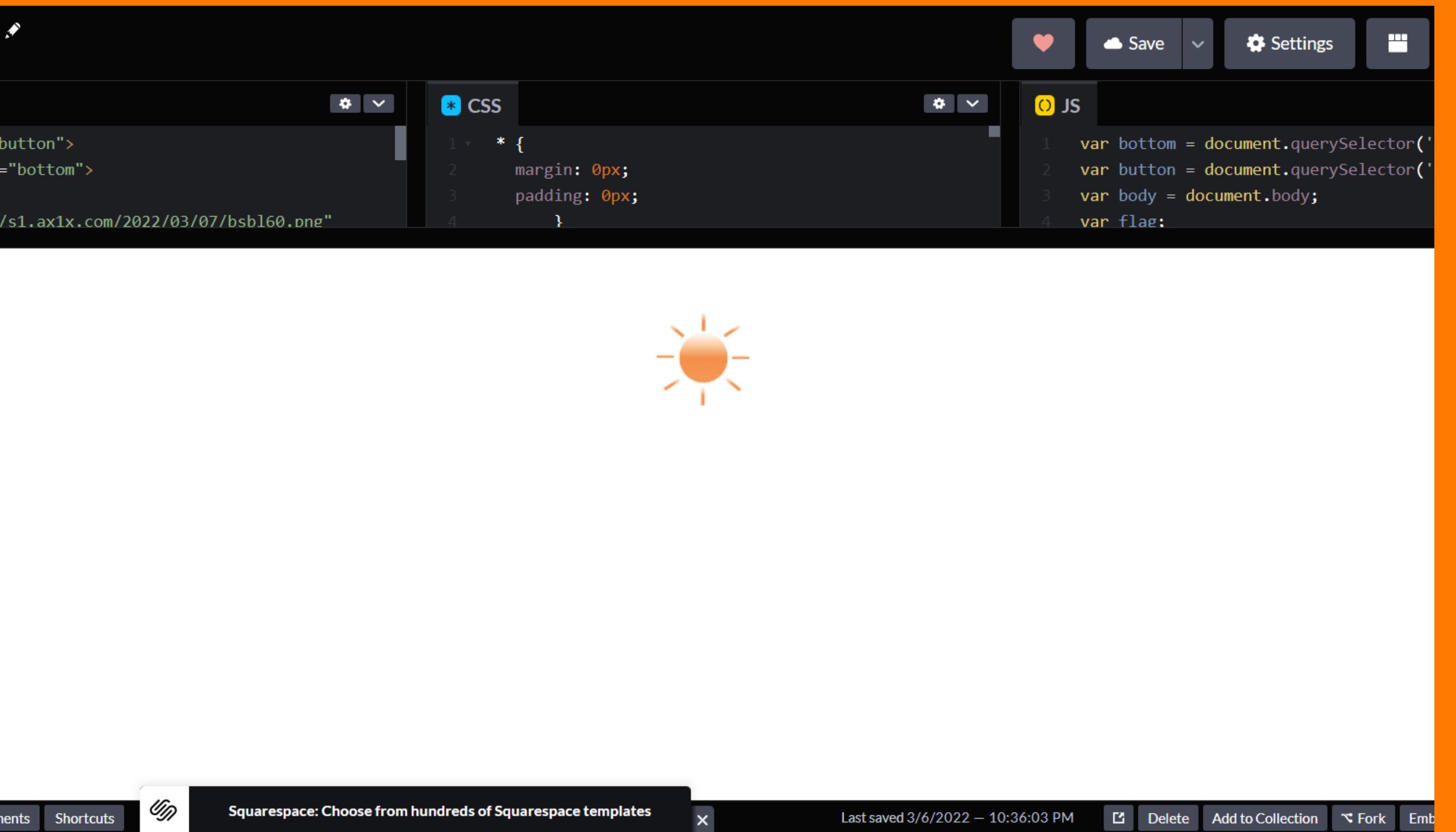
```
*.button {
    position: fixed;
    Top: 20%;
    Left: 50%;}
```

The JS tab contains the following code:

```
bottom.style.cursor = 'move';
flag = true;
var disy = e.pageY - bottom.offsetTop;
var disx = e.pageX - bottom.offsetLeft;
bottom.style.left = disx + 'px';
bottom.style.top = disy + 'px';
```

At the bottom of the screen, there are several buttons: Comments, Shortcuts, a red cube icon, Kintone Developer Program: Providing over 100 Web Database tutorials, Last saved LESS THAN A MINUTE AGO, Delete, Add to Collection, Fork, and Embed.

Add icon and design to change icon color with movement.



User Test



Jason
21 years
Student

When he opened the web page, the mouse started to move. It is found that as the mouse moves, the icon also moves and starts to change color, and the background color also starts to change. It is an interesting design.



Iris
20 years
Student

Opening the page and seeing the obvious icon gives a clear idea of exactly what it does. It is a nice experience that the color changes according to the mobile page.

HTML

Adding buttons and frames to HTML, and add the image of the two icons me made.

/ HTML

```
1 <div class="button">
2   <div class="bottom">
3     
6     
9   </div>
10 </div>
```

CSS

Set the style of the button in CSS and set the transparency of the icon.

```
1 * {  
2     margin: 0px;  
3     padding: 0px;  
4 }  
5 body {  
6     background-color: rgb(255, 255, 255);  
7 }  
8 .button {  
9     position: fixed;  
10    Top: 20%;  
11    Left: 50%;  
12    position:fixed;  
13    background-color: white;  
14    transform: translate(-50%, -50%);  
15    margin: 2px solid red;  
16 }  
17 .bottom {  
18     position: absolute;  
19     width: 80px;  
20     height: 80px;  
21     top: auto;  
22     left: auto;  
23     position: fixed;  
24     transform:translate(-50%,-50%);  
25     border-radius: 50%;  
26     mix-blend-mode:luminosity;  
27     backdrop-filter:blur(5px);  
28 /* opacity:1.0; */  
29 /* background:#F5844B; */  
30 /*  
   background:url(31 }  
32 #icon{  
33     opacity:1.0;  
34 }  
35  
36 #night{  
37     opacity:0.0;  
38     position: absolute;  
39     top:0;  
40     left:0;  
41 }
```

JavaScript

Set a y value in JavaScript, and then use the rgb color color value to perform the operation. When the mouse moves the y value will change, so the color will change. Although the maximum value of y is designed to be 300, the negative values are set to 0, so it will be automatically designed to be 0 in the end. The a and n in the figure are the values of the icon image.

```
1  var bottom = document.querySelector('.bottom');
2  var button = document.querySelector('.button');
3  var body = document.body;
4  var flag;
5  bottom.onmousedown = function(e)
6  {
7      bottom.style.cursor = 'move';
8      flag = true;
9      var disy = e.pageY - bottom.offsetTop;
10     document.onmousemove = function(e)
11     {
12         var y = e.pageY - disy;
13         if (flag == true) {
14             if (y < 0) { y = 0 };
15             if (y > 300) { y = 300};
16             bottom.style.top = y + 'px';
17             r = 255 - y;
18             g = 255 - y;
19             b = 255 - y;
20             a = 1/((y/60)+1);
21             n = ((y/60)+1)/6;
22             backgroundColor =
23                 'rgb'+'('+r+','+g+','+b+')';
24             // bottomColor='rgb'+'('+r+','+g+','+b+')';
25             body.style.backgroundColor =
26                 backgroundColor;
27             document.getElementById("icon").style.opacity = a;
28             document.getElementById(
29                 "night").style.opacity
30             = n;
31         }
32     }
33 };
34 
```

Final

<https://codepen.io/julieli/pen/ZEaqeWO>

<https://github.com/Julieli/LihongZhu-ScreenBrightness>

Summary

For the theme Ridiculous Inputs, I chose to make some new ideas about adjusting the screen brightness, wanted to make the icon change with the background and wanted to give the user a new experience. First of all, I wanted to put the progress bar inside the icon and adjust it in the circle of the sun icon. At the time of actual operation, we found that it was a certain difficulty, and we can't realize it by ourselves at present. So changed to the icon in the up and down movement, with the movement to change the background color. After finishing, we found that the color of the icon did not change, so we started to think about how to make the icon change color. Finally, I thought of putting two icons' img together and changing their transparency. Finally, the effect that the background color changes when the mouse moves and the color of the icon changes. After completing the work, I experienced the logical way to write code with HTML, CSS and JavaScript, which need to be combined together. There are many ways to combine them, and the same work can have different code prototypes, and I learned some new code and how to use it, for example, how to adjust the color change in JavaScript. This work helped me to understand more about HTML, CSS and JavaScript and how to combine the three languages to make my work. I also learned that I need to be proficient in code to achieve my desired effect.