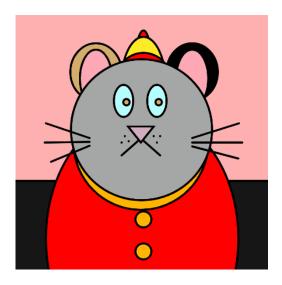
# Little Mouse



For the mini-animation assignment, we used code to draw this animation by drawing a picture of a little mouse. To illustrate this, change the mouse's hat color at random, then change the background color by dragging the mouse along the X-axis. You can also rotate the eyes along the X-axis.

### Here is code that we use to do this animation

```
inction blackeye(){
  if(mouseIsPressed){    // if mouse is pressed
    strokeWeight(0) // set strokeWeight
  fill(192) // set color while mouseispressed
  ellipse(172, 137, 10) // draw while mouse is pressed
  ellipse(224, 137, 10) // draw while mouse is pressed
105
106
108
109
110
                     strokeWeight(3) // set strokeWeight
fill('#E2CS8F')// set color
ellipse(xi, y, 10) // draw left eye
112
113
114
                     xi = 172;
y = 137;
s = (mouseX - xi) / 30
116
                     q = (mouseY - y) / 30
xi = xi + s
ellipse(xx, yy, 10) // draw right eye
117
118
119
 120
                     yy = 137;

s2 = (mouseX - xx) / 30

q2 = (mouseY - yy) / 30
121
122
123
 124
125
126
127
                unction drawleftmoustache(){
129
                  strokeWeight(3) // set strokeWeight
                 line(120, 193, 52, 170)
line(120, 199, 50, 200)
line(120, 205, 60, 230)
130
131
133
                unction drawrightmoustache(){
135
                 //right moustache
136
                 strokeWeight(3) // set strokeWeight
                 line(280, 193, 353, 170)
line(280, 200, 358, 200)
line(280, 206, 352, 225)
139
140
```

## From line 1 to 24

Line 1 to 5, It is to set variables to get the value of the picture that will be shown in the

output (animation).

 Line 6 to 9 for creating canvas and coloring canvas.

- Line 10 to 24 for is draw function Including 13 functions
  - 1. drawbg
  - 2. drawhat
  - 3. drawear
  - 4. drawshirts
  - 5. drawneck
  - 6. drawbuttons
  - 7. drawface
  - 8. drawnose
  - 9. drawmouth
  - 10. draweye
  - 11. blackeye
  - 12. drawleftmoustache
  - 13. drawrightmoustache

```
let xi = 0;
     let xx = 0;
 3
     let yy = 0;
 5
     let s, q, s2, q2;
     function setup() {
  createCanvas(400, 400); //create canvas 400*400
 8
       background(60, 540, 42); // set base gb color
     function draw() {
10
       drawbg();
drawhat();
11
12
13
        drawear();
        drawshirts();
14
15
        drawneck();
        drawbuttons();
16
17
        drawface();
        drawnose();
18
19
        drawmouth();
20
        draweye();
        blackeye();
21
22
        drawleftmoustache();
        drawrightmoustache();
23
```

# drawbg function

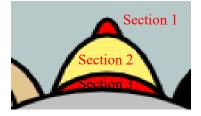
```
function drawbg(){
    x = map(mouseX, 0, 100, 200, 200); // set x map mousex
    r = map(mouseX, 0, 100, 200, 200); // set r map mousex
    background(mouseX, x, r); // set bg color with mouseX that can change by silde mouse
    fill(51);// set table color
    rect(0, 260, 400, 300)// draw table
}
```

- Line 26 to 27 is for mapping cursor and change background color on Line 28.
- Line 29 is set to table color.
- Line 30 is draw table.

### drawhat function

```
function drawhat(){
32
       strokeWeight(3) // set strokeWeight
33
34
       fill("red"); // fill red color
       ellipse(204, 105, 30, 160); // draw hat 1
35
       fill(255,random(220,255),random(0,255)); // set tail color
36
37
       ellipse(204, 110, 70, 150); // draw hat 2
       fill("red"); // fill red color
38
39
       ellipse(204, 105, 87, 90); // draw hat 3
40
```

- Line 33 is set stroke weight.
- Line 34, 38 is set hat in section 1 and 3 red.
- Line 36 is set hat in section 2 is change color at random.
- Lines 35, 37, and 39 are drawn hats by each section.



#### drawear function

```
unction drawear(){
42
       strokeWeight(3) // set strokeWeight
43
       fill('#E2C58F'); // set left ear color
44
       ellipse(130,90,80,90);// draw left ear
       fill("pink"); // set inner left ear color
       ellipse(130,100,50,90);// draw inner left ear
46
       fill('#000000'); // set right ear color
47
       ellipse(280,90,80,90);// draw right ear
49
       fill("pink");// set inner right ear color
50
       ellipse(280,100,50,90);// draw inner right ear
51
```

- Line 42 is set stroke weight.
- Lines 43, 45, 47, and 49 are set colors.
- Lines 44, 46, 48, and 50 are drawn as ears and inner ears.

# drawshirts function

- Line 52 is the set stroke weight.
- Line 54 is set in red color.
- Line 55 is a draw shirt.

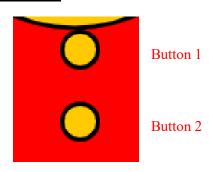
## drawneck function

```
57     function drawneck(){
58         strokeWeight(3) // set strokeWeight
59         fill(255, 202,2) // set color of neck
60         ellipse(200, 200, 210) // draw neck
61     }
```

- Line 58 is the set stroke weight.
- Line 59 is set color.
- Line 60 is a draw neck.

## drawbuttons function

- Line 63 is the set stroke weight.
- Line 64 is set color.
- Lines 65 and 66 is a draw button 1 and 2.



# drawface function

- Line 69 is the set stroke weight.
- Line 70 is set color.
- Line 71 is a draw arc.

#### drawnose function

```
73 ∨ function drawnose(){
       strokeWeight(3) // set strokeWeight
74
75
       fill(255, 204, 229, 130) // nose color
       triangle(180, 175, 220, 175, 200, 200); // draw nose
76
       point(230, 190)
77
78
       point(220, 190)
79
       point(225, 200)
80
       point(175, 190)
       point(170, 200)
81
82
       point(181, 198)
83
```

- Line 74 is the set stroke weight.
- Line 75 is set color.
- Line 76 is a draw triangle.
- Line 77 to 82 is drawing a point.



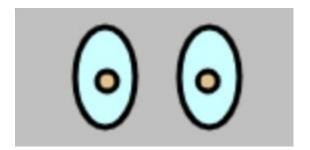
#### drawmouth function

- Line 85 is the set stroke weight.
- Lines 86 and 87 is draw lines.

# draweye function

```
function draweye(){
89
        if(mouseIsPressed){ // if mouse is pressed
90
          strokeWeight(3) // set strokeWeight
91
          fill(192) // set color while mouse is pressed
92
93
          ellipse(173, 135, 30, 50) // draw while mouse is pressed
          ellipse(225, 135, 30, 50) // draw while mouse is pressed
94
95
        else{
96
97
          strokeWeight(3) // set strokeWeight
          fill(204, 255, 255); // set color
98
          ellipse(173, 135, 30, 50) // draw
99
          ellipse(225, 135, 30, 50) // draw
100
101
102
```

- Line 90 create an if-else condition. If the mouse is pressed, will create
  - o Line 91 is the set stroke weight.
  - o Line 92 is set color.
  - o Lines 93 and 94 are draw left eye and right eye.
- Line 96 is else condition.
  - o Line 97 is the set stroke weight.
  - o Line 98 is set color.
  - o Lines 99 and 100 are draw left eye and right eye.



The mouse doesn't press.

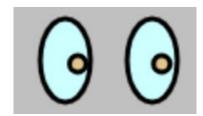


The mouse is pressed.

## blackeye function

```
103 v function blackeye(){
        if(mouseIsPressed){ // if mouse is pressed
104 \
          strokeWeight(0) // set strokeWeight
105
          fill(192) // set color while mouseispressed
106
          ellipse(172, 137, 10) // draw while mouse is pressed
107
          ellipse(224, 137, 10) // draw while mouse is pressed
108
109
        else{ // if not mouse is pressed ////animations
110 ~
111
          strokeWeight(3) // set strokeWeight
          fill('#E2C58F')// set color
112
113
          ellipse(xi, y, 10) // draw left eye
114
          xi = 172;
          y = 137;
115
116
          s = (mouseX - xi) / 30
117
          q = (mouseY - y) / 30
118
          xi = xi + s
          ellipse(xx, yy, 10) // draw right eye
119
120
          xx = 224;
121
          yy = 137;
122
          s2 = (mouseX - xx) / 30
123
          q2 = (mouseY - yy) / 30
124
          xx = xx + s2
125
126
```

- Line 104 create an if-else condition. If the mouse is pressed, will create
  - o Line 105 is the set stroke weight.
  - o Line 106 is set color.
  - o Lines 107 and 108 are draw left blackeye and right blackeye.
- Line 110 is else condition.
  - o Line 111 is the set stroke weight.
  - o Line 112 is set color.
  - o Lines 113 and 119 are draw left eye and right eye. By using mouseX and mouseY to receive value and replace in empty value.



While dragging the mouse.

# drawleftmoustache and drawrightmoustache function

```
function drawleftmoustache(){
127
128
        //left moustache
        strokeWeight(3) // set strokeWeight
129
130
        line(120, 193, 52, 170)
131
        line(120, 199, 50, 200)
132
        line(120, 205, 60, 230)
133
      function drawrightmoustache(){
134
135
        //right moustache
        strokeWeight(3) // set strokeWeight
136
137
        line(280, 193, 353, 170)
        line(280, 200, 358, 200)
138
        line(280, 206, 352, 225)
139
140
```

### - For left moustache

- O Line 129 is the set stroke weight.
- O Lines 130, 131, and 132 is draw lines.

# - For right moustache

- O Line 136 is the set stroke weight.
- O Lines 137, 138, and 139 is draw lines.

