

1

When Space bar is pressed balloon gets bigger when not pressed it shrinks

```

1 var balloon = createSprite(200, 200);
2 balloon.setAnimation("balloon");
3 balloon.scale = 0.6;
4
5 function draw() {
6   // Draw Background
7   background("white");
8
9   // update balloon size based on user input
10  if (keyDown("space")) {
11    balloon.scale = balloon.scale + 0.02;
12  } else {
13    balloon.scale = balloon.scale - 0.01;
14  }
15
16  // Draw Animations
17  drawSprites();
18}

```

2

Video – Do watch really helps

3

```

1 var blueGear = createSprite(100, 220);
2 blueGear.setAnimation("blue_gear");
3
4 var greenGear = createSprite(183, 298);
5 greenGear.setAnimation("green_gear");
6
7 var redGear = createSprite(185, 145);
8 redGear.setAnimation("red_gear");
9
10 function draw() {
11   background("white");
12
13   if (keyDown("space")) {
14     blueGear.rotation = blueGear.rotation - 1;
15     greenGear.rotation = greenGear.rotation + 1;
16     redGear.rotation = redGear.rotation + 1;
17   } else {
18     blueGear.rotation = blueGear.rotation + 1;
19     greenGear.rotation = greenGear.rotation - 1;
20     redGear.rotation = redGear.rotation - 1;
21   }
22
23   drawSprites();
24}

```

4

```

1 var blueGear = createSprite(100, 220);
2 blueGear.setAnimation("blue_gear");
3
4 var greenGear = createSprite(183, 298);
5 greenGear.setAnimation("green_gear");
6
7 var redGear = createSprite(185, 145);
8 redGear.setAnimation("red_gear");
9
10 function draw() {
11   background("white");
12
13   if (mouseDown()) {
14     blueGear.rotation = blueGear.rotation - 1;
15     greenGear.rotation = greenGear.rotation + 1;
16     redGear.rotation = redGear.rotation + 1;
17   } else {
18     blueGear.rotation = blueGear.rotation + 1;
19     greenGear.rotation = greenGear.rotation - 1;
20     redGear.rotation = redGear.rotation - 1;
21   }
22
23   drawSprites();
24 }

```

5

```

1 var balloon = createSprite(200, 50);
2 balloon.setAnimation("balloon");
3 balloon.scale = 0.1;
4
5 function draw() {
6   background("white");
7
8   // If the mouse is down, move the balloon
9   if (mouseDown("leftButton")) {
10     balloon.y = balloon.y - 1;
11   } else {
12     balloon.y = balloon.y + 1;
13   }
14
15   drawSprites();
16 }
17

```

6

```

1 var blender = createSprite(100, 300);
2 blender.setAnimation("blender");
3
4 var mixer = createSprite(300, 300);
5 mixer.setAnimation("mixer");
6
7 function draw() {
8   background("lightyellow");
9   fill("burlywood");
10  rect(0, 350, 400, 50);
11
12  if (World.mouseX < 200) {
13    blender.x = randomNumber(95, 105);
14    blender.y = randomNumber(295, 305);
15  } else {
16    mixer.x = randomNumber(295, 305);
17    mixer.y = randomNumber(295, 305);
18  }
19
20  drawSprites();
21 }

```

7a	<pre> 1 var outside = createSprite(200, 200); 2 outside.setAnimation("pine_trees"); 3 var bug = createSprite(350, 350); 4 bug.setAnimation("ladybug"); 5 6 function draw() { 7   if (World.mouseY &gt; 300) { 8     bug.x = bug.x - 2; 9   } 10  drawSprites(); 11} 12 13 </pre>	7 b	<pre> 1 var outside = createSprite(200, 200); 2 outside.setAnimation("meadow"); 3 4 var ghost = createSprite(200, 300); 5 ghost.setAnimation("ghost"); 6 7 function draw() { 8   // Wrap the movement lines in two conditions 9   if (World.mouseX &lt; ghost.x) { 10     ghost.x = ghost.x - 5; 11   } 12   if (World.mouseX &gt; ghost.x) { 13     ghost.x = ghost.x + 5; 14   } 15   drawSprites(); 16} 17 18 </pre>
9a	<pre> 1 var spiral = createSprite(100, 200); 2 spiral.setAnimation("lollipop"); 3 var spiral2 = createSprite(300, 200); 4 spiral2.setAnimation("lollipop2"); 5 6 function draw() { 7   background("pink"); 8   if (mouseDown("leftButton")) { 9     spiral2.scale = spiral2.scale / 1.01; 10    spiral2.rotation = spiral2.rotation + 3; 11    spiral.scale = spiral.scale * 1.01; 12    spiral.rotation = spiral.rotation - 3; 13  } else { 14    spiral.scale = spiral.scale / 1.01; 15    spiral.rotation = spiral.rotation + 3; 16    spiral2.scale = spiral2.scale * 1.01; 17    spiral2.rotation = spiral2.rotation - 3; 18  } 19  drawSprites(); 20} </pre>	9 b	<pre> 1 var bee = createSprite(200, 200); 2 bee.setAnimation("bee"); 3 4 function draw() { 5   background("lightblue"); 6   bee.x = World.mousePosition; 7   bee.y = World.mousePosition; 8   drawSprites(); 9 </pre>

9  
d

```
1 var salt = createSprite (200, 200);
2 salt.setAnimation("salt");
3 salt.rotation = 150;
4
5 function draw() {
6   background("skyblue");
7   if (mouseDidMove ()) {
8     salt.rotation = randomNumber(150, 170);
9   }
10 // If mouseDidMove, rotate the salt shaker ra
11
12
13 drawSprites();
14 }
```