```
// *********
// createButton()
let button;
function setup() {
 createCanvas(500, 500);
 background(0);
 button = createButton('click me');
 button.position(50, 50);
 button.mousePressed(changeBG);
 button.style("width", "300px");
 button.style("height", "300px");
}
// function draw() {
// background(0);
// //changeBG();
//}
function changeBG() {
 let val = random(255);
 background(val, 0, 0);
}
// *********
// 키보드 인터랙션
let drawRect = true;
function setup() {
 createCanvas(400, 400);
}
function draw() {
 background(220);
 if (drawRect == true) {
  fill(255, 0, 0);
  rect(0, 0, 200, 200);
 } else {
  fill(0, 0, 255);
```

```
ellipse(0, 0, 300, 300);
}
function keyPressed() {
 // 스페이스바 누를 때마다
 if (key == ' ') {
  drawRect = !drawRect;
  /*if (drawRect == true) {
    drawRect = false;
  } else {
    drawRect = true;
  }*/
}
// *********
// 시간, 루핑, 모듈로
function setup() {
 createCanvas(400, 400);
}
function draw() {
 background(220);
 let sec = (millis() / 1000) % 10;
 // console.log(sec);
 if (\sec > 0 \&\& \sec < 4) {
   fill(0, 0, 255);
  ellipse(width / 2, height / 2, 300, 300);
 }
 // if (millis() > 2000 \&\& millis() < 5000) {
 // fill(0, 0, 255);
 // ellipse(width / 2, height / 2, 300, 300);
 //}
}
// *********
// Bouncing Rect
let rectX = 0;
let speedX = 1.5;
let colorVal = 0;
let colorSpeed = 3.5;
```

```
function setup() {
 createCanvas(400, 400);
function draw() {
 background(220);
 fill(colorVal, 0, 0);
 rect(rectX, height / 2, 100, 100);
 rectX += speedX;
 if (rectX < 0 | I | rectX > width - 100) {
  speedX = speedX * -1;
 }
 colorVal += colorSpeed;
 if (colorVal < 0 | l colorVal >= 255) {
  colorSpeed = colorSpeed * -1;
 }
}
// *******
// Change rect's color with mouse click
let rectColor;
let rectX;
let rectY:
function setup() {
 createCanvas(400, 400);
 rectColor = color(255, 0, 0);
 rectX = 0;
 rectY = 0;
}
function draw() {
 background(220);
 //fill(255, 0, 0);
 fill(rectColor);
 rect(rectX, rectY, 100, 100);
}
function mousePressed() {
 rectColor = color(random(255), random(255), random(255));
 rectX = random(width);
```

```
rectY = random(height);
}

// ***************

// 확률

let randomVal;

function setup() {
    createCanvas(400, 400);

    randomVal = random(0, 100);
}

function draw() {
    background(220);

    if (randomVal < 30) {
        rect(0, 0, 300, 300);
    }
}
```