

5月22日の授業中に作成したサンプルプログラム

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```
//その1
size(400,400);
// default : RGB mode
colorMode(RGB);

fill(255,40,40);
ellipse(width/2,height/2,0.8*width,0.8*height);

//その2
size(400,400);
// default : RGB mode
colorMode(HSB,359,99,99); // colorMode:HSB
fill(255,40,40);
ellipse(width/2,height/2,0.8*width,0.8*height);

//その3
size(400,400);
// default : RGB mode
colorMode(HSB,359,99,99); // colorMode:HSB
background(0,0,99); // White
fill(255,40,40);
ellipse(width/2,height/2,0.8*width,0.8*height);
fill(0,0,0);
ellipse(width/2,height/2,0.4*width,0.4*height);

//その4
void setup(){
  size(400,400);
  colorMode(HSB,359,99,99);
}

void draw(){
  float x = random(width);
  float y = random(height);
  float h = random(70,140);
  fill(h,99,99);
  ellipse(x,y,20,20);
}

//その5
color c1 = color(10,100,255);
color c2 = color(10,255,255);
```

```
void setup(){
  size(400,400);
  frameRate(2);
}
```

```
void draw(){
  background(c1);
  fill(c2);
  stroke(c2);
  rect(100,100,100,100);
  color tmp = c1; // swap
  c1 = c2;
  c2 = tmp;
}
```

```
//その6
size(400,400);
background(255);
```

```
fill(255,10,10);
rect(100,100,100,100);
```

```
fill(10,255,10);
rect(150,150,100,100);
```

```
//その7
size(400,400);
background(255);
```

```
fill(255,10,10);
rect(100,100,100,100);
```

```
fill(10,255,10,100);//r,g,b,alpha
rect(150,150,100,100);
```

```
//その8
void setup() {
  size(400, 400);
}
```

```
void draw() {
  background(255);

  fill(255, 10, 10);
  rect(100, 100, 100, 100);
}
```

```

    fill(10, 255, 10, 255.0*mouseY/height);//r,g,b,alpha
    rect(150, 150, 100, 100);
    println(255.0*mouseY/height);
}

//その9
PFont font;
String name = "japanjapanjapanjapanjapanjapanjapanjapanjapan";
String givenName = "Nene";
String familyName = "Anegasaki";
void setup(){
    size(400,400);
    font = loadFont("SansSerif-48.vlw");
    textFont(font);
}

void draw(){
    background(255);
    fill(0);
    stroke(0);
    //textAlign(LEFT);
    //textAlign(CENTER);
    //textAlign(RIGHT);
    //text(name,100,100,200,100);
    textSize(48*mouseX/width);
    text(givenName+familyName,100,100);
    fill(0);
    text(textWidth(name),100,250);
    text(str(100),100,300);
    stroke(255,10,10);
    noFill();
    rect(100,100,200,100);
    textSize(48);
    text(str(48*mouseX/width),100,350);
}

//その10
void setup() {
    size(400, 400);
}

void draw() {
    background(255);

    fill(255, 10, 10);
    rect(100, 100, 100, 100);
}

```

```
fill(10, 255, 10, 255.0*mouseY/height);//r,g,b,alpha
rect(150, 150, 100, 100);
fill(0);
text(str(255.0*mouseY/height),50,50);
}
```

```
//その 11
void setup(){
  size(400,400);
}
```

```
void draw(){
  noStroke();
  //fill(255,255,255,80);
  fill(255,80);
  fill(255);
  rect(0,0,width,height);
  fill(0);
  stroke(255,10,10);
  ellipse(mouseX,mouseY,20,20);
}
```

```
//その 12
PFont font;
```

```
String name = "japanjapanjapanjapanjapanjapanjapanjapan";
void setup(){
  size(400,400);
  font = loadFont("Serif-144.vlw");
  textFont(font,48);
}
```

```
void draw(){
  background(255);
  fill(0);
  //text("2018/5/22",100,100);
  //text("2018/5/22",mouseX,mouseY);
  //text("Anagasaki",mouseX,mouseY);
  text(name,mouseX,mouseY);
  stroke(255,10,10);
  line(0,mouseY,width,mouseY);
}
```

```
//その 13
```

```
//その 14
size(300,300);
background(255);
fill(255,20,20);
ellipse(width/2,height/2,200,200);
save("test1.png");
```

```
//その 15
void setup(){
  size(400,400);
}

void draw(){
  noStroke();
  fill(255,255,255,80);
  rect(0,0,width,height);
  fill(255,10,10);
  ellipse(mouseX,mouseY,20,20);
  saveFrame("test-###.png");
}
```

```
//その 16
PImage face;

void setup(){
  size(400,400);
  face = loadImage("m-riho.jpg");
}

void draw(){
  background(255);
  //image(face,0,0);
  //image(face,mouseX,mouseY);
  image(face,mouseX,mouseY,100,100);
}
```