

6月4日の授業中に作成したスケッチ

```
//その1
size(600,600);
PFont font = createFont("Serif",48);
textFont(font);
background(255);
fill(0);
//scale(2);
translate(width/2,height/2);
text("Anegasaki",width/10,height/10);
```

```
//その2
PFont font;

void setup() {
  size(600, 600);
  font = createFont("Serif", 48);
  textFont(font);
}
```

```
void draw() {
  background(255);
  fill(0);
  translate(width/2,height/2);
  rotate(radians(6*second()));
  text("Anegasaki", 0, 0);
}
```

```
//その3
float x;
float theta;

void setup(){
  size(400,400);
  x = 0;
  theta = PI/4;
  rectMode(CENTER);
}
```

```
void draw(){
  background(255);
  fill(128);
  rotate(theta);
  theta = atan2(mouseY,mouseX);
  rect(x,0,20,20);
  x++;
}
```

```
//その4
PImage ship;
float x;
float y;
float theta;
```

```
void setup(){
  size(800,800);
  ship = loadImage("cannon-a.png");
  imageMode(CENTER);
  x = width/2;
  y = height/2;
  theta = 0;
}

void draw(){
  background(255);

  pushMatrix();
  translate(x,y);
  theta = atan2(mouseY-y,mouseX-x)-PI/2;
  rotate(theta);
  image(ship,0,0);
  popMatrix();
  float t = 0.99;
  x = t*x + (1-t)*mouseX;
  y = t*y + (1-t)*mouseY;
}
```

//その5

```
void setup(){
  size(400,400);
  rectMode(CENTER);
}

void draw(){
  background(255);
  fill(128);
  rotate(PI/12);

  rect(100,100,50,50);
  rect(200,100,50,50);
}
```

//その6

```
void setup(){
  size(400,400);
  rectMode(CENTER);
}

void draw(){
  background(255);
  rotate(PI/12);
  stroke(255,10,10);
  line(0,0,2*width,0);
  fill(128);
  stroke(0);
  rect(100,100,50,50);
  rect(200,100,50,50);
}
```

```
//その7
void setup(){
  size(400,400);
  rectMode(CENTER);
}

void draw(){
  background(255);
  fill(128);
  stroke(0);
  // translate(200,100);
  translate(mouseX,mouseY);
  rect(0,0,50,50);
  stroke(255,10,10);
  line(-2*width,0,2*width,0);
  line(0,-2*height,0,2*height);
}
```

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

void draw(){
  background(255);
  fill(128);
  stroke(0);
  scale(2);
  rect(0,0,50,50);
  stroke(255,10,10);
  line(-2*width,0,2*width,0);
  line(0,-2*height,0,2*height);
}
```

```
//その9
void setup(){
  size(400,400);
  rectMode(CENTER);
}

void draw(){
  background(255);
  fill(128);
  stroke(0);
  scale(2);
  rect(0,0,50,50);
  stroke(255,10,10);
  line(-2*width,0,2*width,0);
  line(0,-2*height,0,2*height);
}
```