

2017年度情報メディア基盤ユニット
6月20日講義内で作ったサンプルプログラム

その1

```
String name1="kait";
String name2="kait";

if("kanagawa" == "kanagawa") {
    println("OK:0");
}
if (name1 == name2) {
    println("OK:1");
}

name1=name1+"c";
name2=name2+"c";
println(name1, name2);
if (name1 == name2) {
    println("OK:2");
}

if (name1.equals(name2)) {
    println("OK:3");
}

if(name1.equals("kanagawa")) {
    println("OK:4");
}else{
    println("NG:4");
}PFont font;
```

その2

```
String[] name;
```

```
int[] fuel, durable;
int yourID;
int myID;
boolean playing = false;

void setup() {
  size(300, 210);
  String[] lines = loadStrings("ship.csv");
  font = loadFont("Serif-48.vlw");
  textFont(font, 24);
  name = new String[lines.length-1];
  fuel = new int[lines.length-1];
  durable = new int[lines.length-1];
  for (int i=0; i<lines.length-1; i++) {
    String[] items = split(lines[i+1], ",");
    println(items);
    name[i] = items[0];
    fuel[i] = int(items[1]);
    durable[i] = int(items[2]);
  }
}

void mouseClicked() {
  yourID = int(random(name.length));
  myID = int(random(name.length));
  playing = true;
}

void draw() {
  background(255);
  fill(0);
  if (playing) {
    textAlign(CENTER, CENTER);
```

```

text("You choose "+name[yourID]+".", 0, 0, width, 70);
text("I choose "+name[myID]+".", 0, 70, width, 70);
String msg;
if (durable[myID] > durable[yourID]) {
    msg = "I win!!";
} else if (durable[myID] == durable[yourID]) {
    msg = "Draw!!";
} else {
    msg = "You win!!";
}
text(msg, 0, 140, width, 70);
}
}

```

その3

```

size(400, 400);
background(255);
stroke(0);
fill(255);
rectMode(CENTER);
rect(width/2, height/2, 300, 200);
fill(194, 32, 71);
ellipse(width/2, height/2, 200*3.0/5.0, 200*3.0/5.0);
save("flag.png");String foo;
foo="kait";
println(foo.length());
foo="";
println(foo.length());
foo=" ";
println(foo.length());
println("KANAGAWA".length());String foo;

```

```
foo = "0123456789";
println(foo.length());
println(foo.charAt(0));
println(foo.charAt(5));
for (int i=0; i<foo.length(); i++) {
    println(foo.charAt(i));
}
```

その4

```
String foo="lazy cat";
println(foo.length());
println(foo.charAt(2));
println(foo.indexOf("a"));
println(foo.indexOf("at"));
println(foo.indexOf("cat"));
println(foo.indexOf("dog"));
println(foo.indexOf("Cat"));String alpha="abcdefghi jk";
String digits = "0123456789";
println(alpha.substring(2));
println(digits.substring(5));
println(digits.substring(5, 7));
println(alpha+digits);
String n1 = "1";
String n2 = "2";
String n3 = n1+n2;
println(n1+n2, n3);
```

その5

```
String ship="Akagi, aircraft carrier, 1925";
println(ship);
String[] item = ship.split(","); //◇// //◇//
println(item); //◇// //◇//
```

```
for (int i=0; i<item.length; i++) {
    println(i+": "+item[i]);
}
String[] itema = ship.split("a");
for (int i=0; i<itema.length; i++) {
    println(i+": "+itema[i]);
}String name="akagi kaga";
println(name.trim());
name=" akagi kaga ";
println(name);
println(name.trim());
```

その6

```
String foo="";
println(foo);
if (foo.isEmpty()) {
    println("empty");
}
if (name.isEmpty()) {
    println("empty");
} else {
    println(name + " is not empty");
}
```