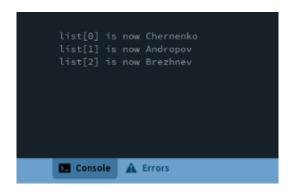
1. Aquire

```
//Reads the contents of a file and creates a String array of its individual lines.
//If the name of the file is used as the parameter, as in the above example,
//the file must be loaded in the sketch's "data" directory/folder.
//loadStrings(filename)
String[] lines;
void setup() {
 size(400, 400);
 lines = loadStrings("list.txt");
 println("There are " + lines.length + " lines");
}
void draw() {
 background(220);
                                                        // Clear the background
 // Display the lines on the canvas with black text color
 textSize(16);
 textAlign(LEFT);
 fill(0); // Set text color to black
 for (int i = 0; i < lines.length; i++) {
  text(lines[i], 20, 40 + i * 20);
                                                        // Adjust position as needed
 }
}
```

2. Parse

```
// split()
String men = "Chernenko,Andropov,Brezhnev";
String[] list = split(men, ',');

void setup() {
  for (int i = 0; i < list.length; i++) {
    println("list[" + i + "] is now " + list[i]);
  }
}</pre>
```



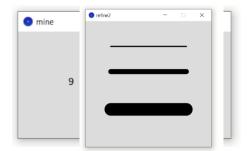
3. Filter

```
size(400, 400);
for (int i = 0; i < 160; i = i+1)
{
    line(120, i, 320, i);
}
```



4. Mine

```
// max():-
int a, b;
float c;
void setup() {
 size(400, 200);
 a = max(5, 9);
 b = max(-4, -12);
 c = max(12.3, 230.24);
}
void draw() {
 background(220);
 textSize(20);
 textAlign(CENTER);
 fill(0);
 text( a, width/4, height/2 );
 text(b, width/2, height/2);
 text( c, 3 * width/4, height/2);
}
```



5. Represent

```
//map():-
void setup() {
    size(400, 400);
    noStroke();
}

void draw() {
    background(204);
    float x1 = map(mouseX, 0, width, 100, 150);
    ellipse(x1, 75, 50, 50);
    float x2 = map(mouseX, 0, width, 0, 200);
    ellipse(x2, 125, 50, 50);
}
```



6. Refine

```
//stokeweight

void setup() {
    size(400, 400);
}

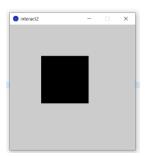
void draw() {
    background(220);
    stroke(0);
    strokeWeight(4);
    line(80, 80, 320, 80);
    strokeWeight(16);
    line(80, 160, 320, 160);
    strokeWeight(40); // Beastly
    line(80, 280, 320, 280);
}
```

7. Interact

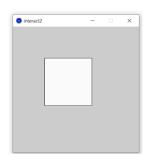
//mouseDragged()

```
// Drag (click and hold) your mouse across the
// image to change the value of the rectangle
int value = 0;
void setup()
{
size(400,400);
void draw() {
 fill(value);
 rect(100,100, 150, 150);
}
void mouseDragged()
 value = value + 5;
 if (value > 255) {
  value = 0;
 }
}
```





After mousedrag



Drawing Map with locations

```
Plmage maplmage;
Table locationTable;
int rowCount;
void setup()
size(900, 700);
mapImage = loadImage("map.png");
// Make a data table from a file that contains
// the coordinates of each state.
locationTable = new Table("locations.tsv");
// The row count will be used a lot, so store it globally.
rowCount = locationTable.getRowCount();
void draw() {
background(255);
image(mapImage, 0, 0);
// Drawing attributes for the ellipses.
// smooth();
fill(192, 0, 0);
noStroke();
```

```
// Loop through the rows of the locations file and draw the points.
for (int row = 0; row < rowCount; row++) {
  float x = locationTable.getFloat(row, 1); // column 1
  float y = locationTable.getFloat(row, 2); // column 2
  ellipse(x, y, 4, 4);
}
}</pre>
```

