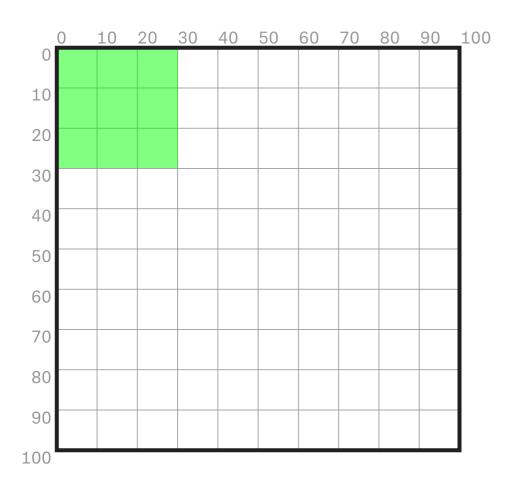
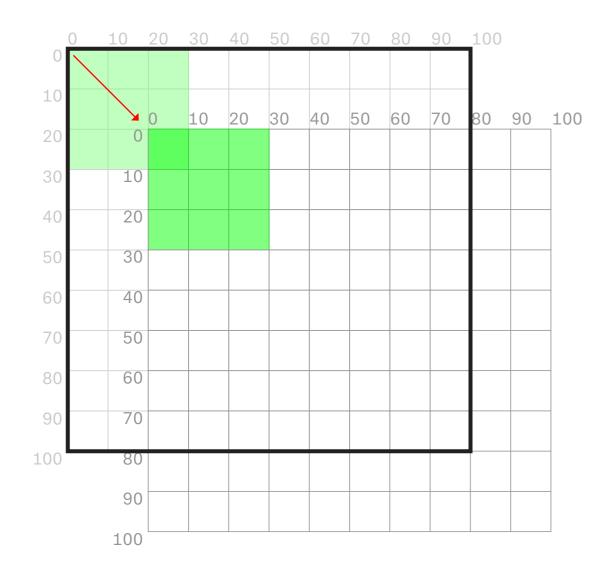


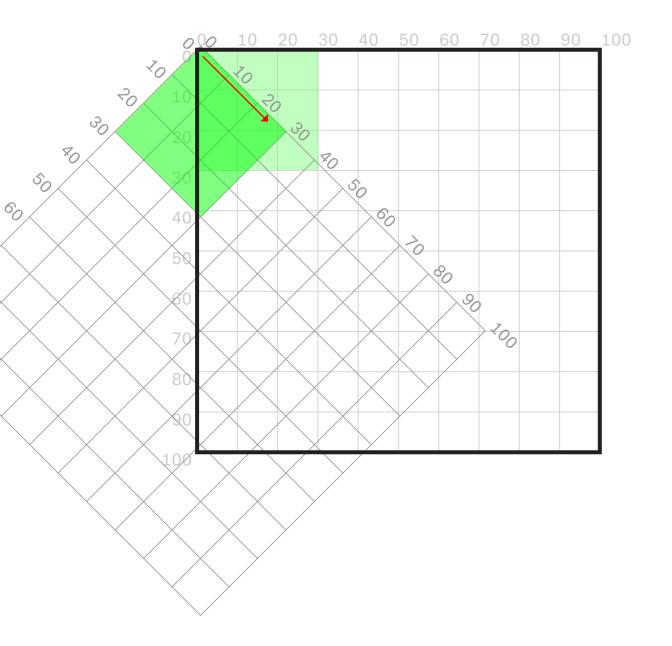
rect(20, 20, 30, 30);



rect(0, 0, 30, 30);



```
translate(20, 20);
rect(0, 0, 30, 30);
```

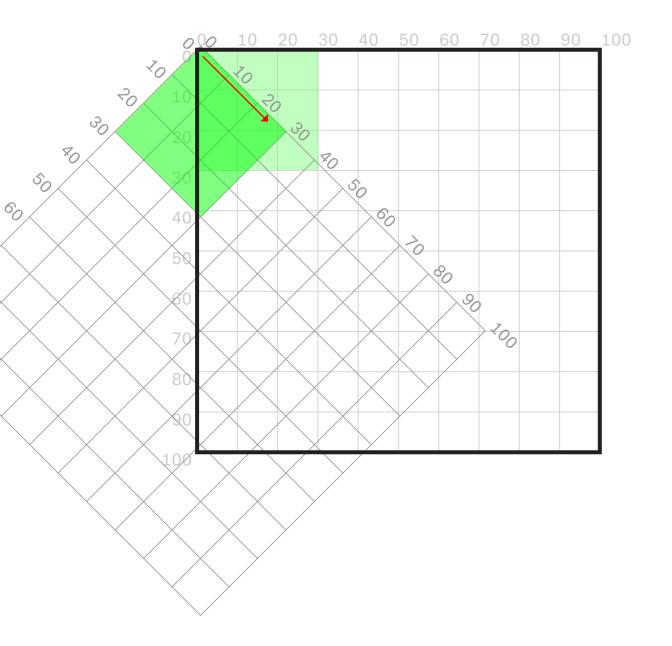


```
rotate(rotate(45));
rect(0, 0, 30, 30);
```

```
Sketch_18_Transformations_1 | Processing 3.0.2
                                                    Java ▼
   Sketch_18_Transformations_1 v
  // create a variable to hold a shape
  PShape myShape1;
4 void setup() {
    size(500, 500);
    background(255);
    // load the shape
    myShape1 = loadShape("0.svg");
    // disable its style
    myShape1.disableStyle();
13 }
15 void draw() {
    background(255);
    // translate the pixels to where the mouse is
    translate(mouseX, mouseY);
    // draw the shape
    shape(myShape1, 0, 0);
23 }
   >_ Console
              A Errors
```

```
Sketch_18_Transformations_1 | Processing 3.0.2
                                                   Java ▼
   Sketch_18_Transformations_1 v
  // create a variable to hold a shape
  PShape myShape1;
 4 void setup() {
    size(500, 500);
    background(255);
    // load the shape
    myShape1 = loadShape("0.svg");
    // disable its style
    myShape1.disableStyle();
13 }
void draw() {
    background(255);
    // translate the pixels to where the mouse is
    translate(mouseX, mouseY);
    // rotate the pixels
    rotate(radians(frameCount));
    // draw the shape
    shape(myShape1, 0, 0);
26 }
   >_ Console
              A Errors
```

```
Sketch_18_Transformations_1 | Processing 3.0.2
                                                   Java ▼
   Sketch_18_Transformations_1 v
  // create a variable to hold a shape
  PShape myShape1;
 4 void setup() {
    size(500, 500);
    background(255);
    // load the shape
    myShape1 = loadShape("0.svg");
    // disable its style
    myShape1.disableStyle();
13 }
void draw() {
    background(255);
    // translate the pixels to where the mouse is
    translate(mouseX, mouseY);
    // rotate the pixels
    rotate(radians(frameCount * 5));
    // draw the shape
    shape(myShape1, 0, 0);
26 }
   >_ Console
              A Errors
```



```
rotate(rotate(45));
rect(0, 0, 30, 30);
```

```
Sketch_18_Transformations_1 | Processing 3.0.2
                                                   Java ▼
   Sketch_18_Transformations_1 v
  // create a variable to hold a shape
  PShape myShape1;
 4 void setup() {
    size(500, 500);
    background(255);
    // load the shape
    myShape1 = loadShape("0.svg");
    // disable its style
    myShape1.disableStyle();
13 }
void draw() {
    background(255);
    // translate the pixels to where the mouse is
    translate(mouseX, mouseY);
    // rotate the pixels
    rotate(radians(frameCount * 5));
    // draw the shape
    shape(myShape1, -50, -50);
   >_ Console
              A Errors
```

```
Sketch_18_Transformations_1 | Processing 3.0.2
                                                   Java ▼
   Sketch_18_Transformations_1 v
  // create a variable to hold a shape
  PShape myShape1;
 4 void setup() {
    size(500, 500);
    background(255);
    // load the shape
    myShape1 = loadShape("0.svg");
    // disable its style
    myShape1.disableStyle();
13 }
15 void draw() {
   // background(255);
    // translate the pixels to where the mouse is
    translate(mouseX, mouseY);
    // rotate the pixels
    rotate(radians(frameCount * 5));
    // draw the shape
    shape(myShape1, -50, -50);
26 }
   >_ Console
              A Errors
```

Arrays

int

float

boolean

color

char

String

```
int[]
float[]
boolean[]
color[]
char[]
String[]
```

fibonacci 1, 1, 2, 3, 5, 8, 13, 21

int[] fibonacci 1, 1, 2, 3, 5, 8, 13, 21

```
int[] fibonacci = { 1, 1, 2, 3, 5, 8, 13, 21 };
```

int[]

Stores a list of integers

```
int[] fibonacci = { 1, 1, 2, 3, 5, 8, 13, 21 };
Or:
int[] fibonacci = new int[8]
fibonacci[0] = 1;
fibonacci[1] = 1;
fibonacci[2] = 2;
fibonacci[3] = 3;
fibonacci[4] = 5;
fibonacci[5] = 8;
fibonacci[6] = 13;
fibonacci[7] = 21;
```

String[]

Stores a list of strings

```
String[] participants = {
                                        String[] participants new String[9];
                                        participants[0] = "Lauren";
   "Lauren",
   "Thomas",
                                        participants[1] = "Thomas";
                                        participants[2] = "Susana";
   "Susana",
   "Kees",
                                        participants[3] = "Kees";
                                 Or:
   "Roosje",
                                        participants[4] = "Roosje";
   "Adriaan",
                                        participants[5] = "Adriaan";
   "Britt",
                                        participants[6] = "Britt";
   "Rob",
                                        participants[7] = "Rob";
   "Dirk"
                                        participants[8] = "Dirk";
};
```

```
Sketch_20_Arrays_1 | Processing 3.0.2
 00
  Sketch_20_Arrays_1
  // create a variable for a font
 PFont font;
  void setup() {
   size(500, 500);
   background(0);
   // load a font
   font = createFont("Helvetica", 24);
    textFont(font);
    textAlign(CENTER);
    // populate the array with answers
    answers = new String[20];
    answers[0] = "It is certain";
    answers[1] = "It is decidedly so";
    answers[2] = "Without a doubt";
    answers[3] = "Yes, definitely";
    answers[4] = "You may rely on it";
    answers[5] = "As I see it, yes";
    answers[6] = "Most likely";
    answers[7] = "Outlook good";
    answers[8] = "Yes";
    answers[9] = "Signs point to yes";
    answers[10] = "Reply hazy try again";
    answers[11] = "Ask again later";
    answers[12] = "Better not tell you now";
    answers[13] = "Cannot predict now";
    answers[14] = "Concentrate and ask again";
    answers[15] = "Don't count on it";
    answers[16] = "My reply is no";
    answers[17] = "My sources say no";
   answers[18] = "Outlook not so good";
    answers[19] = "Very doubtful";
40 void draw() {
void keyPressed() {
   background(0);
   // choose a random number between 0 and 20
   int answerNum = int(random(0, 20));
   // get the value from that position
   String answer = answers[answerNum];
   // display that value
   text(answer, 250, 250);
```