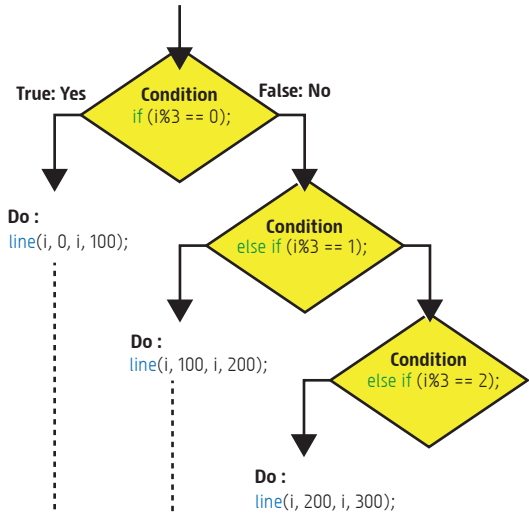


A condition structure allows the program (your sketch) to make a decision about which code to execute depending on conditions. "if else" and "switch case" statements are the main elements to make a conditional structure.
 * for (){} loop statement is explained in detail in week 2 (Looping and Repeating).

[Logical Structure of If structure in Processing Sketch]

for (int i = 0; i < width; i += 4)
 - Repeat if statement below 50 times.

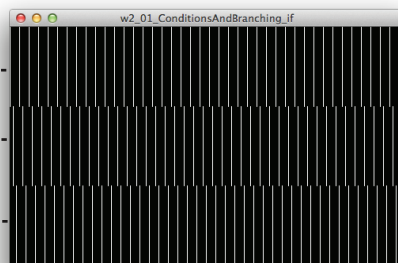


```

void setup() {
  size(500, 300);
}

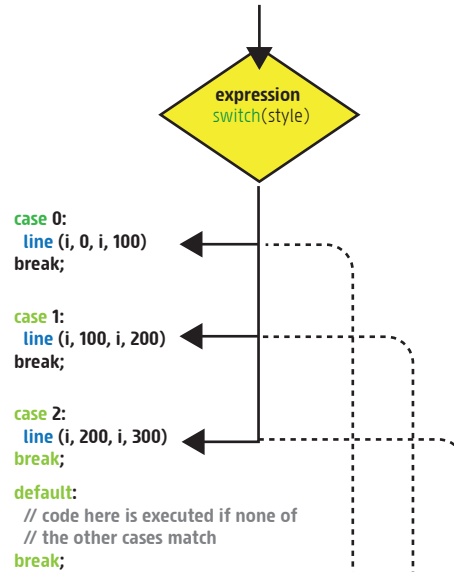
void draw() {
  background(0);
  stroke(255);

  for (int i=0; i<width; i+=4) {
    if (i%3 == 0) {
      line(i, 0, i, 100);
    }
    else if (i%3 == 1) {
      line(i, 100, i, 200);
    }
    else if (i%3 == 2) {
      line(i, 200, i, 300);
    }
  }
}
    
```



[Logical structure of the switch statement in Processing Sketch]

for (int i = 0; i < width; i += 10)
 - Repeat if statement below 50 times.



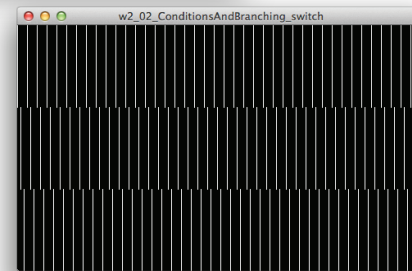
```

void setup() {
  size(500, 300);
}

void draw() {
  background(0);
  stroke(255);

  for (int i=0; i<width; i+=4) {
    int style = i%3;

    switch(style) {
      case 0:
        line(i, 0, i, 100);
        break;
      case 1:
        line(i, 100, i, 200);
        break;
      case 2:
        line(i, 200, i, 300);
        break;
    }
  }
}
    
```



More info in the Processing Reference
 if : <http://processing.org/reference/if.html>
 else : <http://processing.org/reference/else.html>

More info in the Processing Reference
 switch : <http://processing.org/reference/switch.html>