







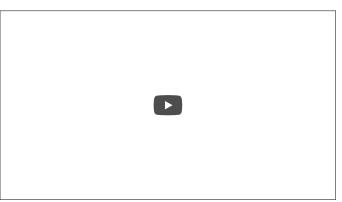
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Did you know you can also *nest* loops inside of each other? Paste this nested loop in your browser and take a look at what it prints out:

```
for (var x = 0; x < 5; x = x + 1) {
for (var y = 0; y < 3; y = y + 1) {
 console.log(x + "," + y);</pre>
```

## Prints:

0, 0

0, 1 0, 2

1, 0

1, 1

1, 2

2, 0 2, 1

2, 2 3, 0

3, 1

3, 2

4, 0

4, 1 4, 2

Notice the order that the output is being displayed.

For each value of x in the outer loop, the inner for loop executes completely. The outer loop starts with x= 0, and then the inner loop completes it's cycle with all values of y:

```
x = 0 and y = 0, 1, 2 // corresponds to <math>(0, 0), (0, 1), and (0, 2)
```

Once the inner loop is done iterating over y, then the outer loop continues to the next value, x = 1, and the whole process begins again.

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