The For Loop

This lesson will cover all the basic concepts related to while loops.

WE'LL COVER THE FOLLOWING ^

- Example
- How it works
- The Loop Counter

You'll often need to write loops with conditions that are based on the value of a variable updated in the loop body, like in our example. JavaScript offers another loop type to account for this: the for loop.

Example

Here's the same program as above written instead with a for loop. It gives exactly the same result.

```
let number;
for (number = 1; number <= 5; number++) {
  console.log(number);
}</pre>
```

How it works

Here's the for loop syntax.

```
for (initialization; condition; final expression) {
  // code to run while the condition is true
}
```

This is a little more complicated than the while loop syntax:

- *Initialization* only happens once, when the code first kicks off. It's often used to set the initial value of the variable associated to the loop condition.
- The *condition* is evaluated once before the loop runs each time. If it's true, the code runs. If not, the code doesn't run.
- The *final expression* is evaluated after the loop runs each time. It's often used to update the value of the variable associated with the loop condition, as we saw in the previous example.

The Loop Counter

The variable used during initialization, condition, and the final expression of a loop is called a *counter* and is often named i. This counter can be declared in the loop initialization to limit its scope to the loop body.

