

Lesson

Wednesday

Introduction to Programming

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/ Arrays and Looping (/introduction-to-programming/arrays-and-looping)

/ Looping with for

Text

Cheat sheet

Terminology

- **For loop:** The "traditional" way to write loops in JavaScript. Creates a loop without needing to call a method on an array.
- **Initialization parameter:** Initializes a variable with the denoted value, which usually is a number. This only happens once, when the loop is first triggered. It needs to be initialized with `let`. Usually this variable is called `index` or `i`, but it could be called anything, depending on what the loop is used for and what's most descriptive.
- **Condition parameter:** Tells the loop under what conditions to *continue* running the loop. As long as the condition is true, the loop will continue running.
- **Final expression parameter:** Usually changes the initial value in some way, often by incrementing or decrementing it.

Examples

Example for loop:

```
for (let index = 1; index <= 3; index += 1) {  
  console.log(index);  
}
```

In the code above...

- `let index = 1;` is the **initialization parameter**.
- `index <= 3;` is the **condition**.
- `index += 1` is the **final expression**.

Example of using a for loop with an array:

```
const languages = ['HTML', 'CSS', 'Javascript'];  
for (let index = 0; index < languages.length; index += 1) {  
  console.log('I love ' + languages[index] + '!');  
}
```

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Last updated March 24, 2023

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