

Difference between forEach and for loop in Javascript

Last Updated : 04 Mar, 2021

This article describes the difference between a **forEach** and **for loop** in detail. The basic differences between the two are given below.

For Loop: The JavaScript for loop is used to iterate through the array or the elements for a specified number of times. If a certain amount of iteration is known, it should be used.

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Syntax:

```
for (initialization; condition; increment)
{
    // code to be executed
}
```

Example:

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Javascript

```
<script>
for (let i = 1; i <= 5; i++)
{
    document.write(i + "<br/>");
}
</script>
```

Output:

1
2
3
4
5

forEach loop: The forEach() method is also used to loop through arrays, but it uses a function differently than the classic "for loop". It passes a callback function for each element of an array together with the below parameters:

- **Current Value (required):** The value of the current array element
- **Index (optional):** The index number of the current element
- **Array (optional):** The array object the current element belongs to

We need a callback function to loop through an array by using the forEach method.

Syntax:

```
numbers = [1, 2, 3, 4, 5];
```

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the

Output:

1
2
3
4
5

Example 2: This example shows the use of the index parameter in the forEach method.

Javascript

```
numbers = [1, 2, 3, 4, 5];

numbers.forEach((number, index) => {
    console.log('Index: ' + index +
                ', Value: ' + number);
});
```

Output:

Index: 0, Value 1
Index: 1, Value 2
Index: 2, Value 3



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For Loop

forEach Loop

It is one of the original ways of

It is a newer way with lesser code to iterate over an

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counter, and incrementor.

array to iterate.

It works with the await keyword.

The await keyword cannot be used due to the callback function. It may lead to incorrect output.



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