



# JavaScript For In

[< Previous](#)[Next >](#)

## The For In Loop

The JavaScript **for in** statement loops through the properties of an Object:

### Syntax

```
for (key in object) {  
    // code block to be executed  
}
```

### Example

```
const person = {fname:"John", lname:"Doe", age:25};  
  
let text = "";  
for (let x in person) {  
    text += person[x];  
}
```

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- Each iteration returns a **key** (x)
- The key is used to access the **value** of the key
- The value of the key is **person[x]**

## For In Over Arrays

The JavaScript **for in** statement can also loop over the properties of an Array:

### Syntax

```
for (variable in array) {  
  code  
}
```

### Example

```
const numbers = [45, 4, 9, 16, 25];  
  
let txt = "";  
for (let x in numbers) {  
  txt += numbers[x];  
}
```

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Do not use **for in** over an Array if the index **order** is important.

The index order is implementation-dependent, and array values may not be accessed in the order you expect.



# Array.forEach()

The `forEach()` method calls a function (a callback function) once for each array element.

## Example

```
const numbers = [45, 4, 9, 16, 25];

let txt = "";
numbers.forEach(myFunction);

function myFunction(value, index, array) {
  txt += value;
}
```

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Note that the function takes 3 arguments:

- The item value
- The item index
- The array itself

The example above uses only the value parameter. It can be rewritten to:

## Example

```
const numbers = [45, 4, 9, 16, 25];
```