



Difference
between `map()` and
`forEach()` method
in JavaScript?



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map method-

- Creates a new array with the results of calling a provided function on every element in the calling array.
- Does not mutate the original array but returns a new array.
- Since it returns a new array, you can chain other array methods like `filter()`, `reduce()`, etc., after using `map()`.
- when you want to transform elements of an array and need the transformed results in a new array.

EXAMPLE

```
1  const numbers = [1,
2    2, 3, 4];
3  const squaredNumbers
4    = numbers.map(num =>
5      num * num);
6  console.log(squaredN
7    umber
8      s);
9
10 // Output: [1, 4, 9,
11 16]
12 console.log(number
13   s);
14
15 // Output: [1, 2,
16 3, 4] - original arr
17 ay remains unchanged
```

forEach method-

JS

- Executes a provided function once for each array element but does not return anything.
- Can mutate the original array, as it operates directly on it, but doesn't create a new array.
- Since it returns undefined, chaining other array methods directly after `forEach()` is not possible.
- when you want to execute a side effect for each element of an array but don't need a transformed array.

EXAMPLE

```
1  const numbers = [1,
2    2, 3, 4];
3    numbers.forEach((num,
4      index, arr) => {
5        arr[index] = num *
6          num;
7      });
8    console.log(numbers);
9    // Output: [1, 4, 9,
10     16] - original array
11     is mutated
```



THANKYOU



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