

JS

Tip

Array Methods

A JavaScript reference of Array methods returning new array/value rather than modifying existing array 😊

- a. map*
- b. filter*
- c. flat*
- d. slice*
- e. join*
- f. reduce*



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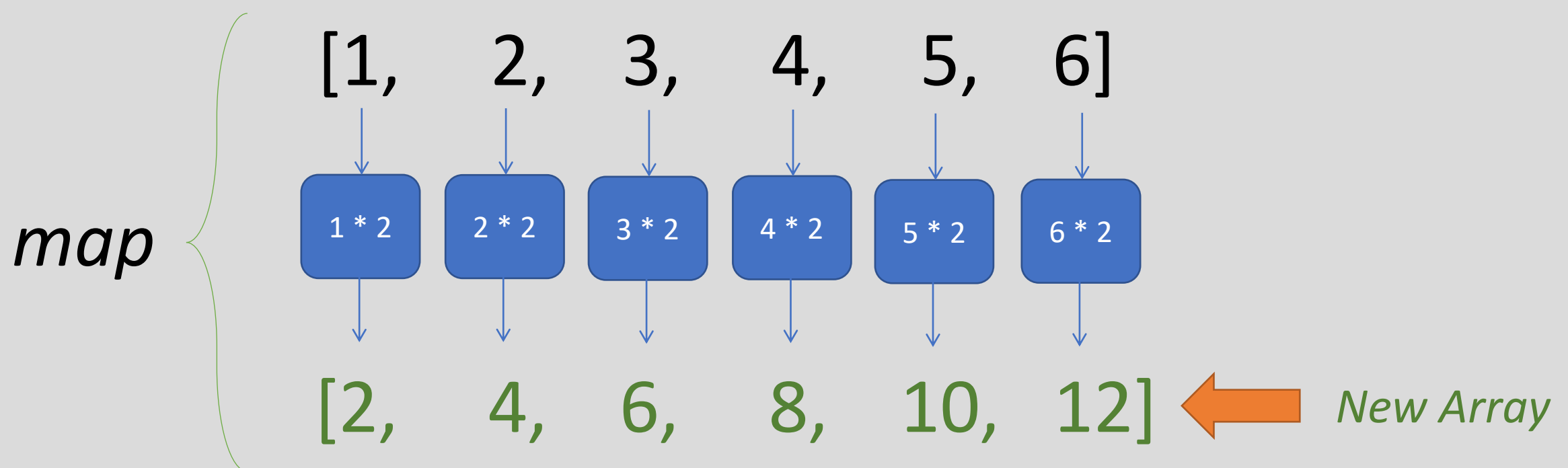
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Tip

map

map - returns a new array by iterating each element and modifying them based on a provided function.

```
const numbers = [1, 2, 3, 4, 5, 6];  
const result = numbers.map(n => n * 2);  
// result = [2, 4, 6, 8, 10, 12]
```



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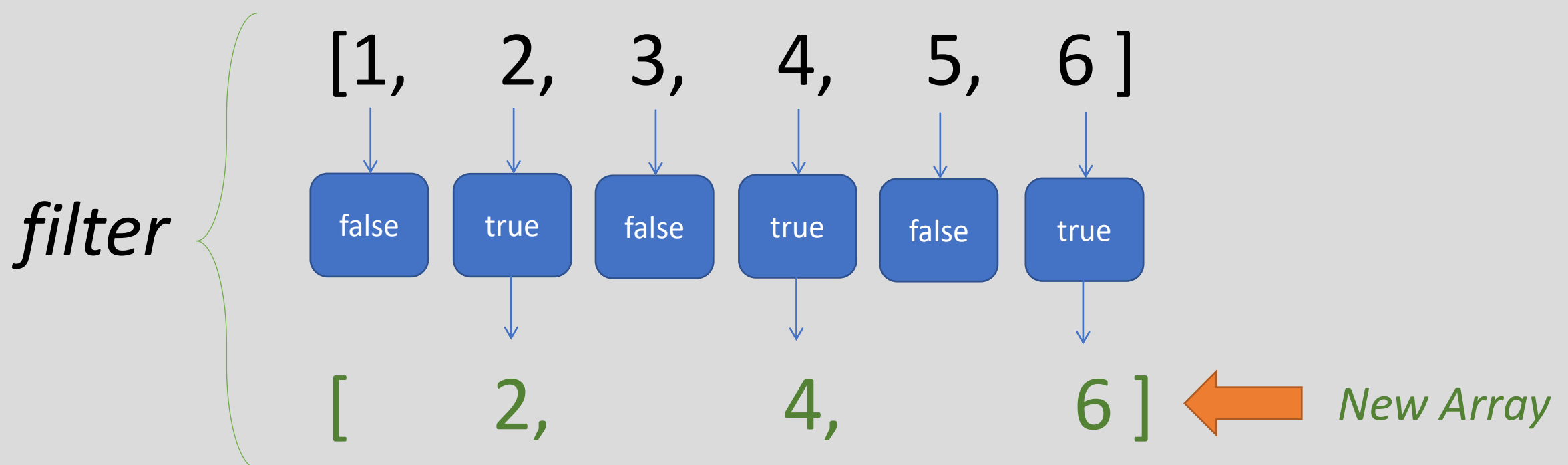
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filter

filter - returns a new array containing elements for which filtering function returns ***true***

```
const numbers = [1, 2, 3, 4, 5, 6];  
const filtered = numbers.filter(n => n % 2 === 0);  
// filtered = [2, 4, 6]
```



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flat

flat – returns new array by moving nested ones level higher. You can also specify the nested depth.

```
const numbers = [1, 2, 3, 4, 5, 6];  
const flatNumbers = numbers.flat();  
  
// flatNumbers = [ 1, 2, 3, 4, 5, 6 ]
```

flat { [1, 2, 3, 4, [5, 6]]
[1, 2, 3, 4, 5, 6] } ← *New Array*



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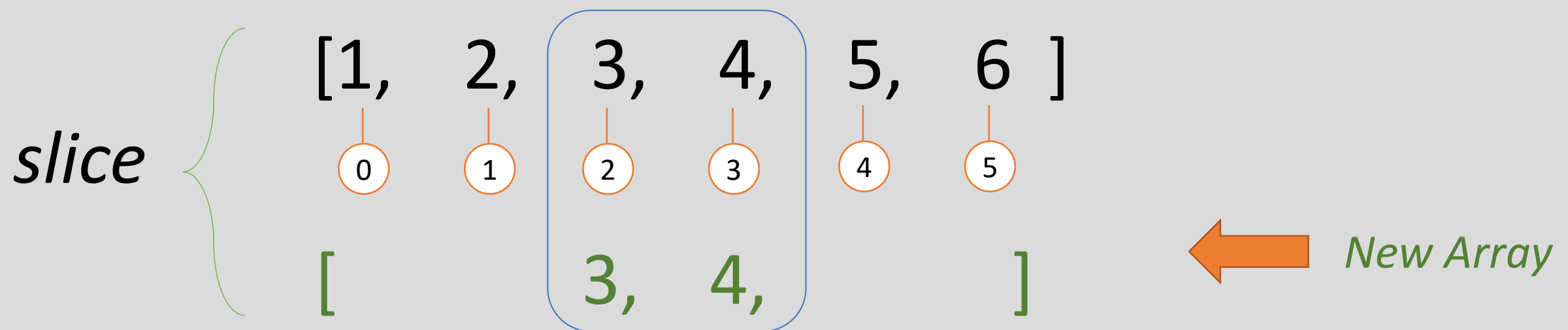
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slice

slice – returns a new array based on provided range, the start index is included but end index is not.

```
const numbers = [1, 2, 3, 4, 5, 6];  
const sliced = numbers.slice(2,4);  
  
// sliced = [ 3, 4 ]
```



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join

join – returns a new string by concatenating elements with provided separator.

```
const numbers = [1, 2, 3, 4, 5, 6];  
const joined = numbers.join("-");  
  
// joined = 1-2-3-4-5-6
```

join { [1, 2, 3, 4, 5, 6]
1-2-3-4-5-6 ← *New string*



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reduce

reduce – returns the value of accumulated function result.

Note: You can also specify initial value.

```
const numbers = [1, 2, 3, 4, 5, 6];  
const sum = numbers.reduce((prev, next) => prev + next);  
  
// sum = 21
```

reduce { [1, 2, 3, 4, 5, 6]
1+2 → 3 + 3 → 6 + 4 → 10 + 5 → 15 + 6
21 ← *New value*



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To know more refer to my array search methods post link in description



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