

## MAP →

~~Value~~  
⊗ Create a new array by performing some operations on each array element.

⊗ If array  $a \Rightarrow [10, 20, 30]$

Value  $\rightarrow 10, 20, 30$

Index  $\rightarrow 0, 1, 2$

array  $\rightarrow [10, 20, 30]$

difference b/w foreach loop and Map  $\Rightarrow$

- ⊗ Map will return an array by performing any operation
- ⊗ B/c foreach loop does not return any array, it just modify original array.

```
let arr=[10,20,30]
arr.map((value,index,array)=>{
  console.log(value*2)
})
```

1)

### Output

node /tmp/8r

20

40

60

- 2) It returns new array by performing \*2 operation  
TO GET NEW ARRAY WE HAVE TO RETURN CONDITION

```
let arr=[10,20,30]
let arra2=arr.map((value,index,array)=>{
  return value*2
})
console.log(arra2)
```

```
node /tmp/s2qrwxV
[ 20, 40, 60 ]
```

```
let arr=[10,20,30]
let arra2=arr.map((value,index,array)=>{
  console.log(value,index,array)
})
```

3)

```
node /tmp/AT1Tx8tQRM.js
10 0 [ 10, 20, 30 ]
20 1 [ 10, 20, 30 ]
30 2 [ 10, 20, 30 ]
```

ARRAY METHODS: MAP FILTER REDUCE