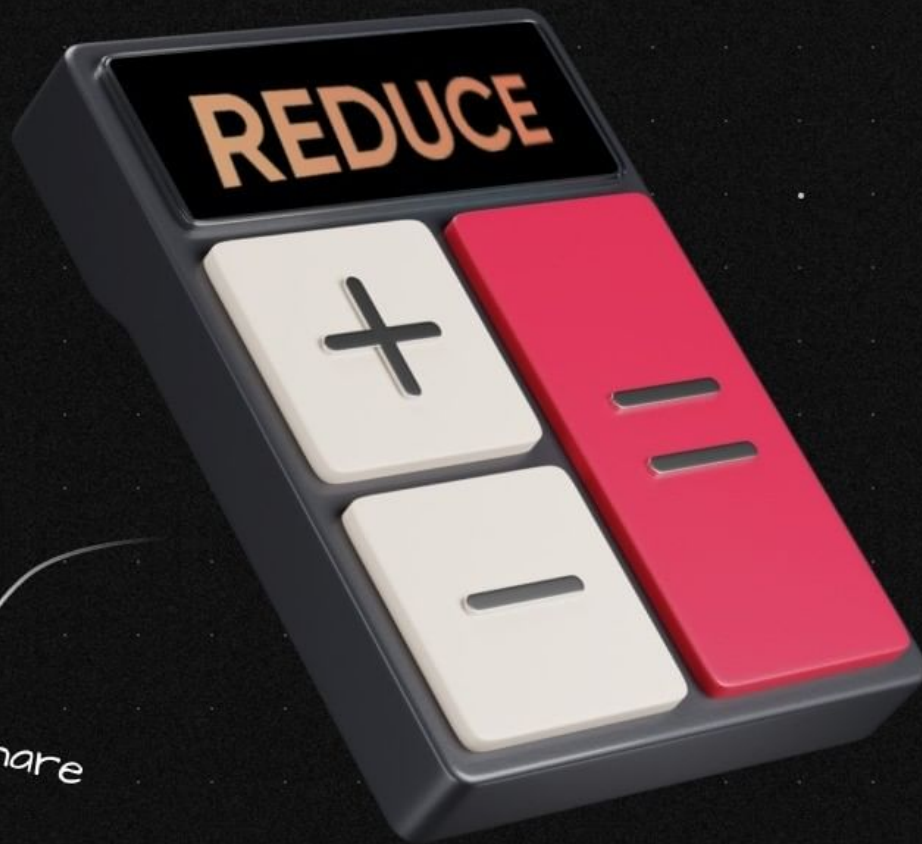


JS

3 ways to use **reduce** in JavaScript




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1

Summing numbers



```
const numbers = [1, 2, 3, 4, 5];  
  
const total = numbers.reduce((acc, num) => acc + num, 0);  
console.log(total); //15
```


$$\cancel{e = mc^2}$$

$$a + b$$



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2

Reducing an array into an object

```
const fruits = ['apple', 'orange', 'apple', 'banana'];

const tally = fruits.reduce((accumulator, fruit) => {
  if(accumulator[fruit]) {
    accumulator[fruit] = accumulator[fruit] + 1
  } else{
    accumulator[fruit] = 1
  }

  return accumulator
}, {});

/* {
  apple: 2,
  banana: 1,
  orange: 1
} */
```



3

Flattening an array

```
const array = [  
  [1, 2, 3, 4, 5],  
  [6, 7, 8, 9, 10]  
];  
  
const flattened = array.reduce(  
  (accumulator, item) => [...accumulator, ...item], []  
);  
  
// [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```



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