



5

SPREAD OPERATOR USE CASES!



1. Concatenating Arrays

Before

```
const arr1 = [1, 2, 3];  
const arr2 = [4, 5, 6];  
const combinedArr = arr1.concat(arr2); // [1, 2, 3, 4, 5, 6]
```

With spread operator

```
const combinedArr = [...arr1, ...arr2]; // [1, 2, 3, 4, 5, 6]
```



2. Cloning Arrays (Shallow Copy)

Before

```
const arr = [1, 2, 3];  
const copiedArr = arr.slice(); // [1, 2, 3]
```

With spread operator

```
const copiedArr = [...arr]; // [1, 2, 3]
```



3. Merging Objects

Before

```
const obj1 = { a: 1, b: 2 };  
const obj2 = { c: 3, d: 4 };  
const mergedObj = Object.assign({}, obj1, obj2); // { a: 1, b: 2, c: 3, d: 4 }
```

With spread operator

```
const mergedObj = { ...obj1, ...obj2 }; // { a: 1, b: 2, c: 3, d: 4 }
```



4. Spreading Function Arguments

Before

```
const numbers = [1, 2, 3];  
console.log(Math.max(numbers[0], numbers[1], numbers[2])); // 3
```

With spread operator

```
console.log(Math.max(...numbers)); // 3
```



5. Rest Parameters in Functions

With spread operator

```
function sum(...numbers) {  
  return numbers.reduce((acc, num) => acc + num, 0);  
}  
console.log(sum(1, 2, 3, 4)); // 10
```





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