

ECMAScript 2023

A large yellow square containing the letters 'ES' in a bold, black, sans-serif font, representing the ECMAScript logo.

ES

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toSorted()

```
1 // Original array
2 let arr = [5, 4, 2, 3, 1];
3
4 // Using Array.prototype.sort()
5 console.log(arr === arr.sort()); // true - [1, 2, 3, 4, 5]
6
7 // Using the new Array.prototype.toSorted()
8 console.log(arr === arr.toSorted()); // false - [1, 2, 3, 4, 5]
9
10 // Using a comparator function for descending order
11 const numbers = [10, 5, 2, 7, 3, 9, 1, 6, 4];
12 const sortedNumbers = numbers.toSorted((a, b) => b - a);
13 console.log(sortedNumbers); // [10, 9, 8, 7, 6, 5, 4, 3, 2, 1]
14
```



toReversed()

```
1 // Reversing an array
2 const arr = ["a", "b", "c", "d", "e"]
3 console.log(arr.toReversed());
4 // Output
5 // ['e', 'd', 'c', 'b', 'a']
```



with()

```
1 // Replacing an element using with()
2 const arr = ["I", "am", "the", "Walrus"];
3 const newArr = arr.with(3, "Ape Man");
4 console.log(newArr);
5 // Output
6 // ["I", "am", "the", "Ape Man"]
```



findLast()

```
1 // Finding the last even number using findLast()
2 const arr = [54, 34, 55, 75, 98, 77];
3 const lastEven = arr.findLast((element) => element % 2 === 0);
4 console.log(lastEven); // 98
5
6 // Finding the index of the last element divisible by 6 using findLastIndex()
7 const lastIndexDivisibleBy6 = arr.findLastIndex((x) => x % 6 === 0);
8 console.log(lastIndexDivisibleBy6); // 0
9
```



toSpliced()

```
1 // Using toSpliced() to insert elements in the middle of an array
2 const colors = ["red", "orange", "yellow", "green", "blue", "purple"];
3 const newArr = colors.toSpliced(2, 1, "pink", "cyan");
4 console.log(newArr);
5 // Output
6 // ["red", "orange", "pink", "cyan", "green", "blue", "purple"]
7
```



toSpliced()

```
1 // Using toSpliced() to insert elements in the middle of an array
2 const colors = ["red", "orange", "yellow", "green", "blue", "purple"];
3 const newArr = colors.toSpliced(2, 1, "pink", "cyan");
4 console.log(newArr);
5 // Output
6 // ["red", "orange", "pink", "cyan", "green", "blue", "purple"]
7
```

