

JavaScript Array Methods Cheat Sheet

1. Adding Elements

`push()`: Add to the end

e.g. `arr.push("item")`

`unshift()`: Add to the start

e.g. `arr.unshift("item")`

`splice()`: Add at any position

e.g. `arr.splice(2, 0, "item")`

2. Removing Elements

`pop()`: Remove from end

e.g. `arr.pop()`

`shift()`: Remove from start

e.g. `arr.shift()`

`splice()`: Remove from any position

e.g. `arr.splice(2, 1)`

3. Replacing / Copying / Slicing

`splice()`: Remove & replace items

e.g. `arr.splice(1, 1, "new")`

`slice()`: Get a shallow copy

e.g. `arr.slice(1, 3)`

`copyWithin()`: Copy elements within array

e.g. `arr.copyWithin(0, 3, 5)`

4. Searching / Testing

`indexOf()`: Find first index

e.g. `arr.indexOf("item")`

`lastIndexOf()`: Find last index

e.g. `arr.lastIndexOf("item")`

`includes()`: Check if value exists

e.g. `arr.includes("item")`

`find()`: Find first matching element

e.g. `arr.find(x => x > 5)`

`findIndex()`: Find index of first match

e.g. `arr.findIndex(x => x > 5)`

`some()`: Check if at least one matches

e.g. `arr.some(x => x > 5)`

`every()`: Check if all match

e.g. `arr.every(x => x > 5)`

5. Iteration / Transformation

`forEach()`: Run function on each item

e.g. `arr.forEach(x => console.log(x))`

`map()`: Transform each element

e.g. `arr.map(x => x * 2)`

`filter()`: Filter by condition

e.g. `arr.filter(x => x > 5)`

`reduce()`: Reduce to a single value

e.g. `arr.reduce((a, b) => a + b, 0)`

6. Sorting / Reversing

`sort()`: Sort elements

e.g. `arr.sort()`

`reverse()`: Reverse the array

e.g. `arr.reverse()`

7. Converting / Joining

`join()`: Join into a string

e.g. `arr.join(", ")`

`toString()`: Convert to string

e.g. `arr.toString()`

8. Other Utilities

`length`: Number of elements

e.g. `arr.length`

`Array.isArray()`: Check if it's an array

e.g. `Array.isArray(arr)`

`flat()`: Flatten nested arrays

e.g. `arr.flat()`

`fill()`: Fill with a static value

e.g. `arr.fill(0)`