" ... "

spread operator

JS

The spread operator in JavaScript (represented by " **…** ") is a handy feature from **ECMAScript 6 (ES6)**. It lets you easily expand **arrays, objects, and strings into individual elements or key-value pairs**. This makes tasks like **array manipulation, object merging, and passing multiple function arguments simpler and more concise.** It enhances code readability by allowing iterable contents to be used in contexts where multiple elements or properties are needed.

Expanding Arrays:

```
1    const numbers = [1, 2, 3];
2    const expandedNumbers = [...numbers];
3    // expandedNumbers is now [1, 2, 3]
```

Concatenating Arrays:

```
1    const array1 = [1, 2, 3];
2    const array2 = [4, 5, 6];
3    const concatenatedArray = [...array1, ...array2];
4    // concatenatedArray is now [1, 2, 3, 4, 5, 6]
```

Passing Array Elements as Function Arguments:

```
1   const numbers = [1, 2, 3];
2   const sum = (x, y, z) => x + y + z;
3   console.log(sum(...numbers)); // Outputs 6
```

Copying Objects:

```
1   const originalObj = { x: 1, y: 2 };
2   const copyObj = { ...originalObj };
3   // copyObj is now { x: 1, y: 2 }
```

Merging Objects:

```javascript
const obj1 = { x: 1, y: 2 };
const obj2 = { z: 3 };
const mergedObj = { ...obj1, ...obj2 };
// mergedObj is now { x: 1, y: 2, z: 3 }
```