

spread



rest



in JavaScript

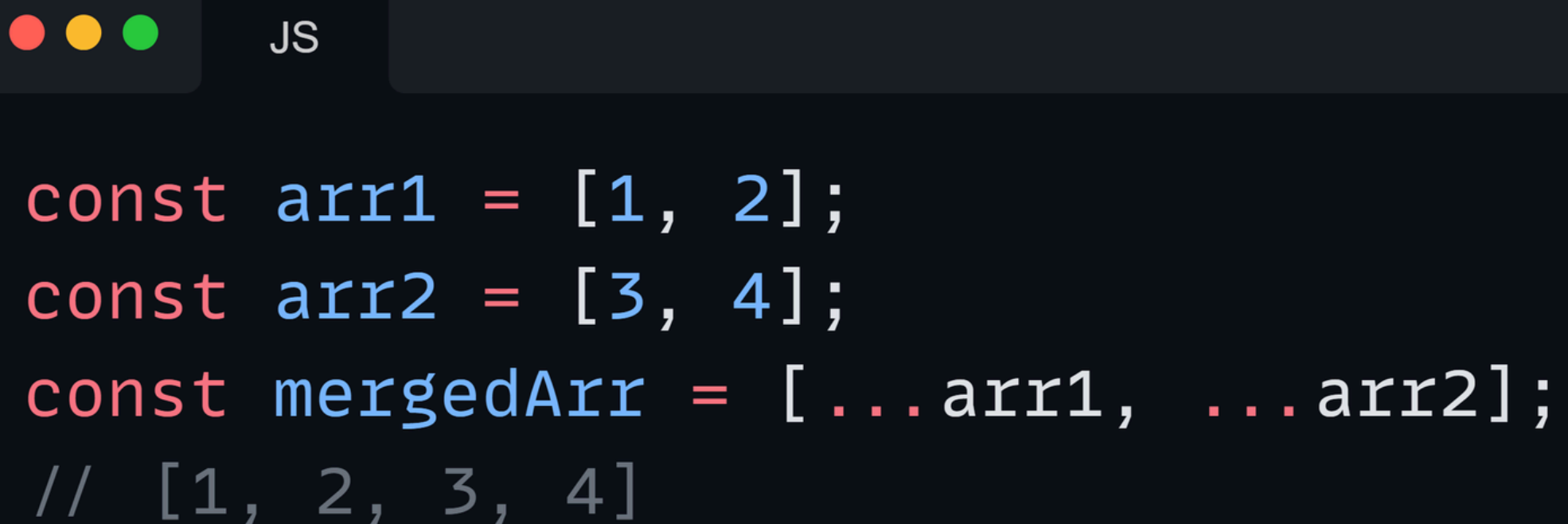
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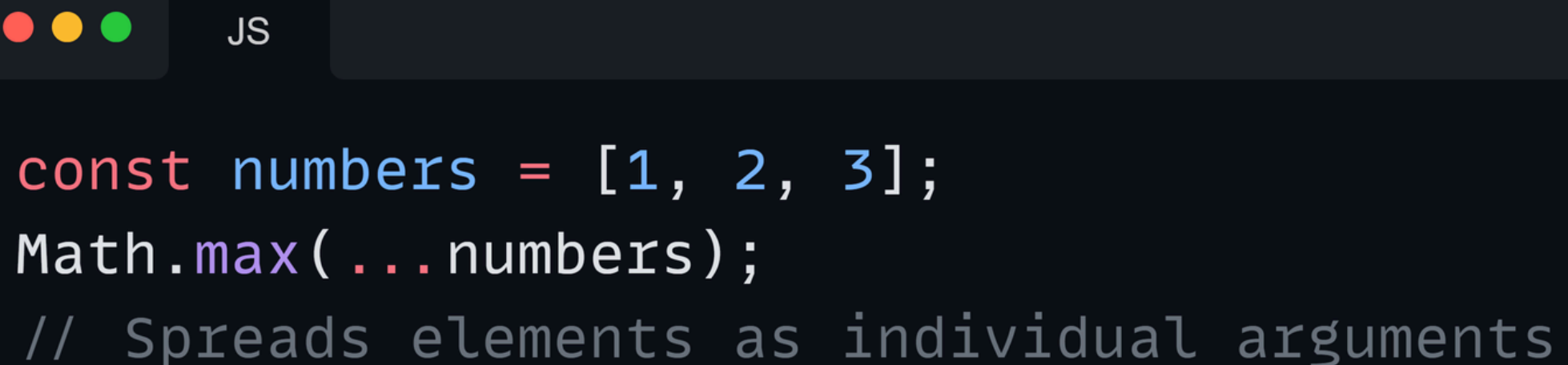


Spread Operator

- Expands or "spreads" elements from an array or object into individual elements.
- This operator provides the convenience of easily extracting a list of parameters from an array or object.



```
const arr1 = [1, 2];  
const arr2 = [3, 4];  
const mergedArr = [...arr1, ...arr2];  
// [1, 2, 3, 4]
```



```
const numbers = [1, 2, 3];  
Math.max(...numbers);  
// Spreads elements as individual arguments
```

Rest Operator

- Collects multiple elements into a single array or object. It "gathers" the remaining elements.

```
JS

function sum(...numbers) {
  return numbers.reduce((a, b) => a + b, 0);
}

sum(1, 2, 3);
// Gathers all arguments
// into an array [1, 2, 3]
```

```
JS

const { a, b, ...others } =
  { a: 1, b: 2, c: 3, d: 4 };
console.log(others);
// { c: 3, d: 4 }
```

Key Difference

- Used to unpack elements from an array or object.



Spread



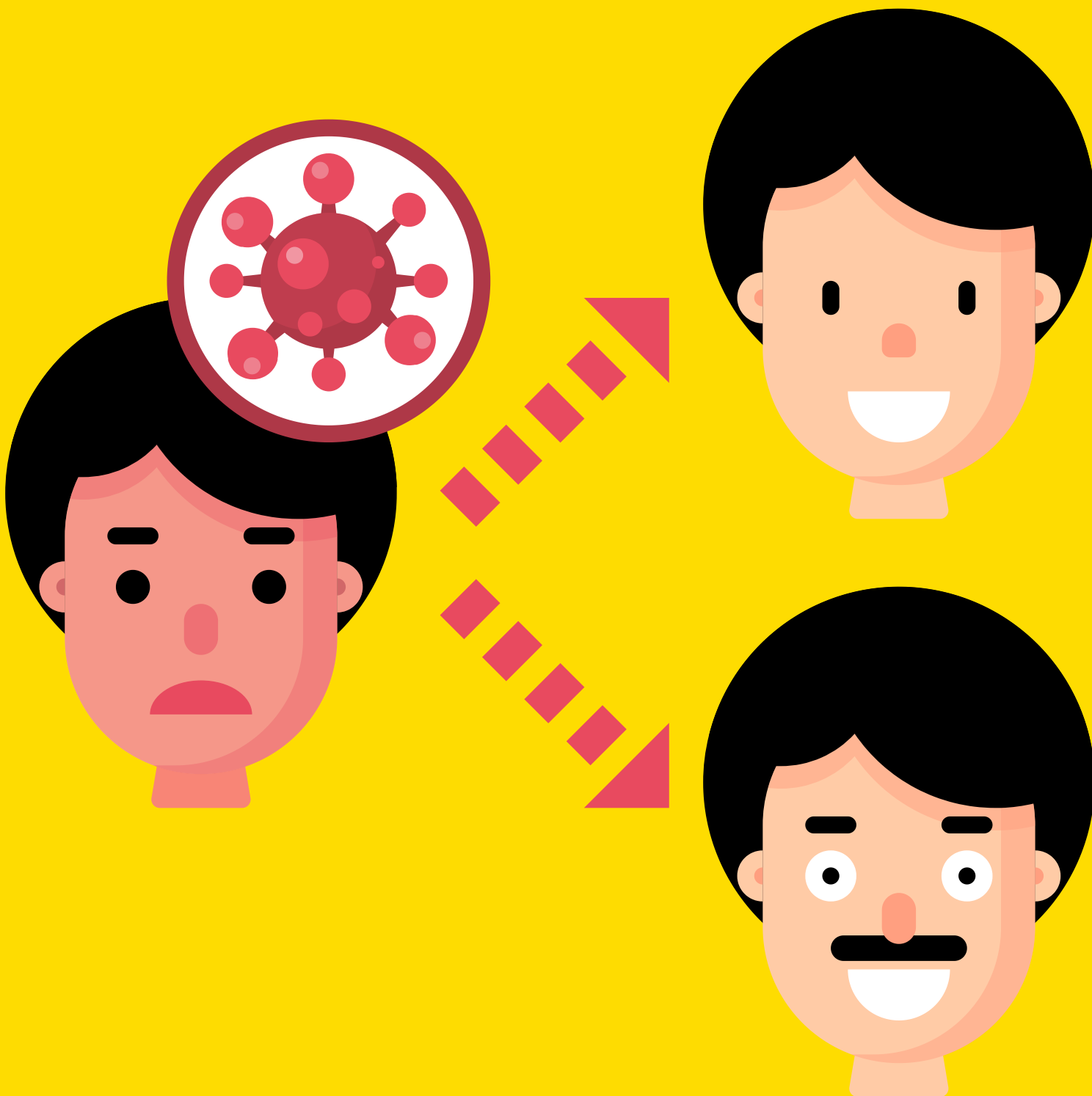
Rest

- Used to pack elements into an array or object.

Practical Usage

```
JS  
  
const arr = [1, 2, 3];  
const newArr = [...arr, 4, 5];  
console.log(newArr) // [1, 2, 3, 4, 5]
```

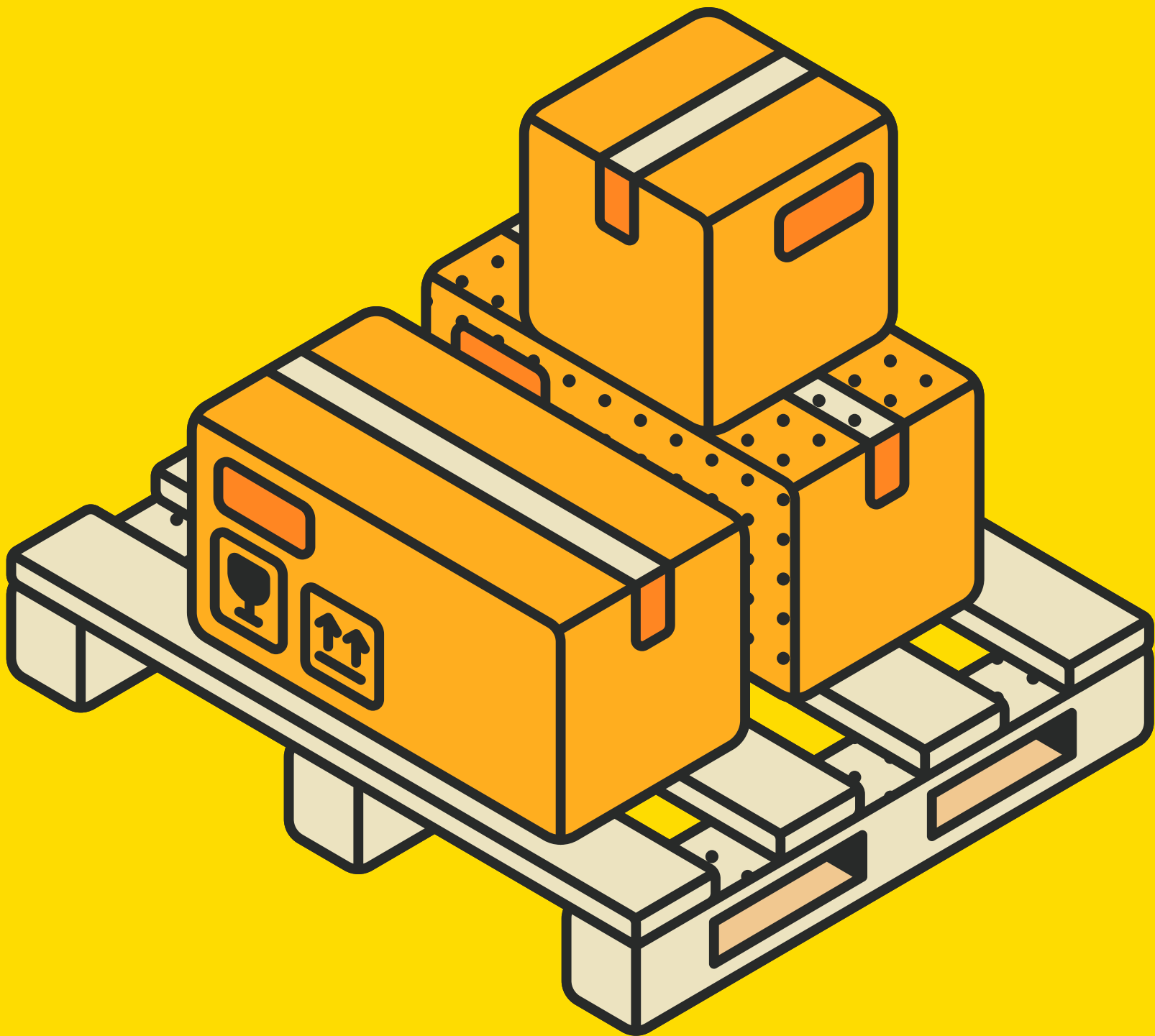
Spread - Used to expand arrays or objects.



Practical Usage

```
JS  
  
const [first, ...rest] = [1, 2, 3];  
console.log(first); // 1  
console.log(rest);  // [2, 3]
```

Rest - Collects multiple values into an array or object.



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