

React - ES6 Spread Operator

Topics : [React JS](#)

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The spread operator (`...`) in JavaScript, introduced in ES6, is a versatile tool that is commonly used in React for various tasks, such as copying arrays, merging objects, and spreading props. Here are some examples of how the spread operator can be used in React:

1. Copying Arrays:

```
const originalArray = [1, 2, 3];

// Using spread operator to create a copy
const copyOfArray = [...originalArray];

// Modify the copy without affecting the original
copyOfArray.push(4);

console.log(originalArray); // [1, 2, 3]
console.log(copyOfArray); // [1, 2, 3, 4]
```

2. Merging Arrays:

```
const array1 = [1, 2, 3];
const array2 = [4, 5, 6];

// Using spread operator to merge arrays
const mergedArray = [...array1, ...array2];

console.log(mergedArray); // [1, 2, 3, 4, 5, 6]
```

3. Copying Objects:

```
const originalObject = { name: 'John', age: 25 };

// Using spread operator to create a copy
const copyOfObject = { ...originalObject };

// Modify the copy without affecting the original
copyOfObject.age = 26;

console.log(originalObject); // { name: 'John', age: 25 }
```

```
console.log(copyOfObject); // { name: 'John', age: 26 }
```

4. Merging Objects:

```
const object1 = { name: 'John' };  
const object2 = { age: 25 };  
  
// Using spread operator to merge objects  
const mergedObject = { ...object1, ...object2 };  
  
console.log(mergedObject); // { name: 'John', age: 25 }
```

5. Spreading Props:

```
const MyComponent = (props) => {  
  return (  
    <ChildComponent {...props} additionalProp="extra" />  
  );  
};
```

This is commonly used to pass down all props from a parent component to a child component while adding or modifying some props.

6. Creating Copies with Modifications:

```
const originalObject = { name: 'John', age: 25 };  
  
// Using spread operator to create a copy with modifications  
const modifiedCopy = { ...originalObject, age: 26 };  
  
console.log(originalObject); // { name: 'John', age: 25 }  
console.log(modifiedCopy); // { name: 'John', age: 26 }
```