🔀 1. Merging Arrays Using Spread (. . .) Copy Edit javascript const a = [1, 2]; const b = [3, 4]; const merged = [...a, ...b]; console.log(merged); // [1, 2, 3, 4] ✓ With .concat() (older way) Copy Edit javascript const merged = a.concat(b); 🔀 2. Merging Objects Using Spread (. . .) Copy Edit javascript const user = { name: "Alice", age: 25 }; const update = { age: 26, city: "New York" }; const mergedUser = { ...user, ...update }; console.log(mergedUser); // { name: "Alice", age: 26, city: "New York" } f If both objects have the same key, the last one wins (update.age overwrites user.age). Using Object.assign()

Both Object.assign() and spread do the same thing — the spread operator is just cleaner.

const mergedUser = Object.assign({}, user, update);

javascript

Copy Edit



Merging is super useful when updating state that's an array or object.

→ Merge Objects in State

```
jsx
setUser(prev => ({ ...prev, city: "New York" }));

Merge Arrays in State

jsx
Copy  Copy
Edit

Copy

Edit

SetItems(prev => [ ...prev, "new item" ]);
```

When to Use Merging

Task	Method	Example
Combine two arrays	[] or .concat()	[a,b]
Merge object updates	or Object.assign()	{a,b}
Update part of state (React)		<pre>setState(prev => ({prev, key: val}))</pre>