

Optimizing React Performance with UseMemo



What is useMemo?

useMemo is a React hook that helps optimize performance by memoizing (remembering) the result of a calculation so it's not repeated unnecessarily.

Why Use useMemo?

- To avoid recalculating expensive operations (like loops or API calls) on every render.
- It ensures that your app runs faster, especially when dealing with large or complex data.

Basic Syntax:

- memoizedValue: The result of your calculation.
- **expensive calculation**: The function or operation you want to optimize.
- **[dependencies]**: The values that, when changed, will trigger a recalculation.









When to Use useMemo?

When you have:

- Expensive functions (like loops or data manipulation).
- Components that re-render often but the data doesn't change much.

Example Without useMemo?

Problem: The calculation of result happens on every render, even when count doesn't change much.





Optimized Example Using useMemo?

Explanation:

- **useMemo** only recalculates result when **count** changes, avoiding unnecessary recalculations on each render.
- This improves performance, especially when the calculation is more complex.





5

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