

Best Practices for Variable Declaration in React Components

1. Use 'const' and 'let' Appropriately
 - Use 'const' for variables that do not change.
 - Use 'let' only when reassignment is needed.
2. Avoid Declaring Variables Inside the Render Body Unnecessarily
 - Use 'useMemo' for expensive calculations.
 - Use 'useCallback' for functions passed as props.
3. Use 'useRef' for Mutable Values That Do Not Trigger Re-renders
 - Store values that persist across renders without causing re-renders.
4. Declare Functions with 'useCallback' When Passing to Children
 - Prevents unnecessary re-renders of child components.
5. Avoid Global Variables or Side Effects in Component Scope
 - Scope variables properly to avoid bugs or memory leaks.
6. Group Related Variables Together
 - Improves readability and maintainability.
7. Use Destructuring for Props and State
 - Makes code cleaner and avoids repetitive access.