

useOptimistic

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Kind: Function**Source:** <src/jsx/dom/hooks/index.ts>**Part of:** [Jsx](#)

This hook returns the current state and a function to update the state optimistically. The current state is updated optimistically and then reverted to the original state when all actions are resolved.

`useOptimistic` returns the current optimistic state and a function that applies an optimistic update. Updates are shown immediately while related actions are pending, then the state returns to the original value after those actions resolve.

Signature

```
function useOptimistic(state: T, updateState: (currentState: T, action: N) => T): [T, (action:
```

Parameters

Name	Type
<code>state</code>	<code>T</code>
<code>updateState</code>	<code>(currentState: T, action: N) => T</code>

Returns: `[T, (action: N) => void]`

Diagram

```
graph LR
  A[Current state] --> B[useOptimistic]
  B --> C[Optimistic state]
```

```
D[Pending action] --> E[Apply optimistic update]
E --> C
D --> F[Action resolves]
F --> A
```

Usage

```
import { useOptimistic } from "react";

function LikeButton({ likes }: { likes: number }) {
  const [optimisticLikes, addOptimisticLike] = useOptimistic(
    likes,
    (currentLikes, increment: number) => currentLikes + increment,
  );

  async function handleLike() {
    addOptimisticLike(1);

    await fetch("/api/likes", {
      method: "POST",
    });
  }

  return (
    <button onClick={handleLike}>
      Likes: {optimisticLikes}
    </button>
  );
}
```

AI Coding Instructions

- Pass the confirmed server or parent state as the base value for `useOptimistic`.
- Define the update function as a pure function that derives optimistic state from the current state and action input.
- Call the optimistic update function as part of the action that performs the related asynchronous work.
- Do not treat optimistic state as the source of truth; update the base state when the action result is available.
- Handle action failures so the surrounding state remains consistent after optimistic updates are reverted.