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Understanding Higher-Order Components (HOCs)

SWIPE LEFT



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What Are Higher-Order Components (HOCs)?

Higher-Order Components (HOCs) are functions that take a component and return a new component. They are a pattern in React for reusing component logic and enhancing components with additional functionalities.









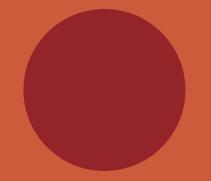
Why Use HOCs?

- Code Reusability: Encapsulate reusable logic in one place.
- Separation of Concerns: Separate the "what" (UI) from the "how" (behavior).
- Component Composition: Build new components by wrapping them in HOCs.









Creating an HOC

To create an HOC, define a function that takes a component and returns another component.







Using an HOC

Wrap your original component with the HOC to create an enhanced component.

```
function MyComponent(props) {
   return <h1>Hello, {props.name}!</h1>;
}

const MyComponentWithExtraInfo = withExtraInfo(MyComponent);

// Usage

MyComponentWithExtraInfo name="React Learner" />;
```









Using an HOC

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The HOC with Extra Info adds an extra paragraph to MyComponent.









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Key Benefits & Best Practices

- Easy Logic Sharing: Share non-UI logic across multiple components.
- Do Not Mutate: Never mutate the original component; always return a new one.
- Pass Props Through: Ensure HOCs pass all relevant props down to the wrapped component.









Thank You



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