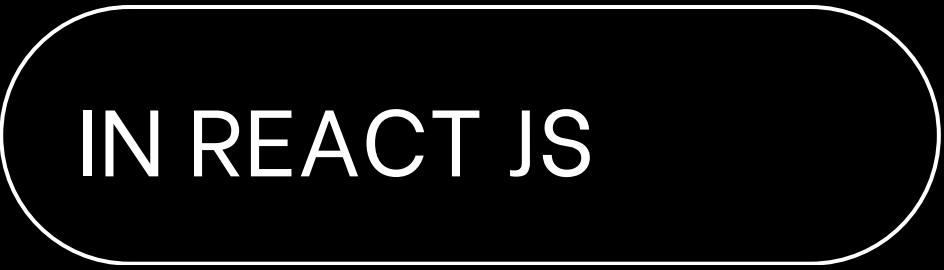


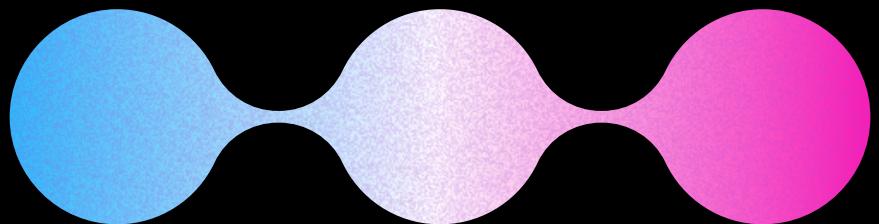
UNDERSTANDING USECONTEXT HOOK



IN REACT JS



Abhijeet Chakane





INTRODUCTION TO THE USECONTEXT HOOK

The useContext hook is a powerful tool in React that allows you to manage global state across your application. It simplifies the process of sharing data between components without prop drilling.





WHY USE USECONTEXT?

- Global State Management: Easily share state across your application.
- Simplified Code: Avoid the complexity of prop drilling.
- Improved Readability: Make your code cleaner and more maintainable.





CREATING AND USING A CONTEXT

First, create a context using `React.createContext()`, then use the `useContext` hook to access the context value.

```
● ● ●  
1 import React, { createContext, useContext, useState } from 'react';  
2  
3 // Create a Context  
4 const MyContext = createContext();  
5  
6 function App() {  
7   const [value, setValue] = useState('Hello, World!');  
8  
9   return (  
10     <MyContext.Provider value={value}>  
11       <ChildComponent />  
12     </MyContext.Provider>  
13   );  
14 }  
15  
16 function ChildComponent() {  
17   const contextValue = useContext(MyContext);  
18   return <div>{contextValue}</div>;  
19 }  
20
```

• • • • •



UPDATING CONTEXT VALUE

To update the context value, pass both the value and a setter function through the provider.

```
● ○ ●
1  function App() {
2    const [value, setValue] = useState('Hello, World!');
3
4    return (
5      <MyContext.Provider value={{ value, setValue }}>
6        <ChildComponent />
7      </MyContext.Provider>
8    );
9  }
10
11 function ChildComponent() {
12   const { value, setValue } = useContext(MyContext);
13   return (
14     <div>
15       <p>{value}</p>
16       <button onClick={() => setValue('New Value')}>Update Value</button>
17     </div>
18   );
19 }
20
```

• • • • •



NESTED CONTEXT CONSUMERS

useContext works seamlessly even in deeply nested components, making it a versatile choice for state management.

```
● ● ●  
1  function GrandChildComponent() {  
2    const { value } = useContext(MyContext);  
3    return <p>GrandChild: {value}</p>;  
4  }  
5  
6  function ChildComponent() {  
7    return (  
8      <div>  
9        <GrandChildComponent />  
10       </div>  
11    );  
12  }  
13
```

• • • • •



PRACTICAL APPLICATIONS OF USECONTEXT

- Theme Management: Toggle between light and dark modes.
- User Authentication: Share user login status across components.
- Localization: Manage and switch application languages.

.....



KEY POINTS TO REMEMBER

- useContext simplifies state management across your app.
- It removes the need for prop drilling.
- Combine useContext with other hooks for powerful functionality.

.....



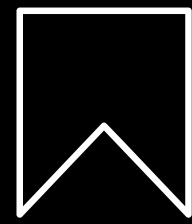
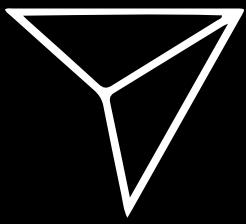
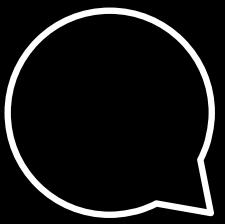
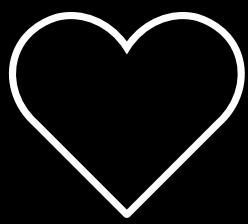
ADVANCED USAGE WITH CUSTOM CONTEXT HOOK

Create custom hooks to
encapsulate context logic for
cleaner code.

```
● ● ●  
1 const useMyContext = () => useContext(MyContext);  
2  
3 function ChildComponent() {  
4   const { value, setValue } = useMyContext();  
5   return (  
6     <div>  
7       <p>{value}</p>  
8       <button onClick={() => setValue('Updated Value')}>Change Value</button>  
9     </div>  
10  );  
11 }  
12
```



FOLLOW FOR MORE TIPS!



Abhijeet Chakane

