

1 - What are hooks

What are hooks

Hooks are a feature introduced in **React 16.8** that allow you to use state and other React features without writing a class. They are functions that let you "hook into" React state and lifecycle features from function components.

State

Class based components

```
class MyComponent extends React.Component {
  constructor(props) {
    super(props);
    this.state = { count: 0 };
  }

  incrementCount = () => {
    this.setState({ count: this.state.count + 1 });
  }

  render() {
    return (
      <div>
        <p>{this.state.count}</p>
        <button onClick={this.incrementCount}>Increment</button>
      </div>
    );
  }
}
```

Functional components

```
import React, { useState } from 'react';

function MyComponent() {
  const [count, setCount] = useState(0);

  const incrementCount = () => {
    setCount(count + 1);
  };

  return (
    <div>
      <p>{count}</p>
      <button onClick={incrementCount}>Increment</button>
    </div>
  );
}
```

▼ Functional

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▼ Class Based

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Lifecycle events

Class based components

```
1 class MyComponent extends React.Component {
2   componentDidMount() {
3     // Perform setup or data fetching here
4   }
5
6   componentWillUnmount() {
7     // Clean up (e.g., remove event listeners or cancel subscriptions)
8   }
9
10  render() {
11    // Render UI
12  }
13 }
14
```

Functional components

```
1 import React, { useState, useEffect } from 'react';
2
3 function MyComponent() {
4   useEffect(() => {
5     // Perform setup or data fetching here
6   });
7
8   return () => {
9     // Cleanup code (similar to componentWillUnmount)
10  };
11 }, []);
12 // Render UI
13 }
14
15
```

▼ Functional

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▼ Class based

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▼ Functional solution

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Until now we're seen some commonly used hooks in React-

1. useState
2. useEffect
3. useMemo
4. useCallback

These hooks are provided to you by the `React` library.