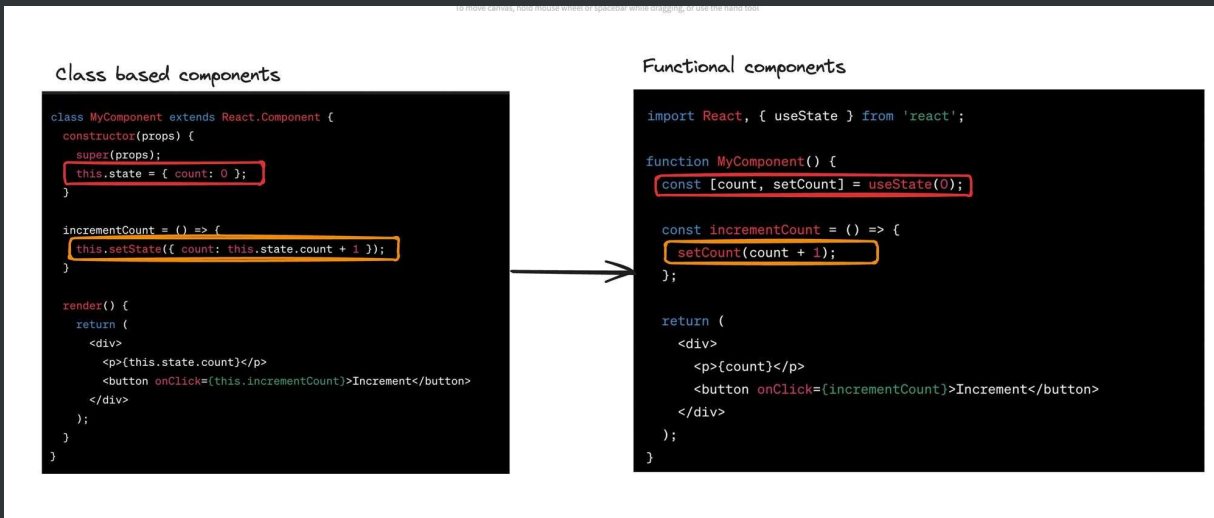


1 - What are hooks

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



▼ Functional

```
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>
  );
}

```

▼ Class Based

```

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>
    );
  }
}

```

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
13 // Render UI
14 }
15

```

▼ Functional

```

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

```

```
function MyComponent() {  
  useEffect(() => {  
    // Perform setup or data fetching here  
  
    return () => {  
      // Cleanup code (similar to componentWillUnmount)  
    };  
  }, []);  
  
  // Render UI  
}
```

▼ Class based

```
class MyComponent extends React.Component {  
  componentDidMount() {  
    // Perform setup or data fetching here  
  }  
  
  componentWillUnmount() {  
    // Clean up (e.g., remove event listeners or cancel subscriptions)  
  }  
  
  render() {  
    // Render UI  
  }  
}
```

▼ Functional solution

```
import React, { useEffect, useState } from 'react'  
import './App.css'  
  
function App() {  
  const [render, setRender] = useState(true);  
  
  useEffect(() => {  
    setInterval(() => {  
      setRender(r => !r);  
    }, 5000)  
  }, []);  
  
  return (  
    <>  
      {render ? <MyComponent /> : <div></div>}  
    </>  
  )  
}
```

```
}

function MyComponent() {
  useEffect(() => {
    console.error("component mounted");

    return () => {
      console.log("component unmounted");
    };
  }, []);

  return <div>
    From inside my component
  </div>
}

export default App
```

Until now we've 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.