```
useEffect in React
```

useEffect is a **hook** that lets you perform **side effects** in function components. It's similar to lifecycle methods in class components: componentDidMount, componentDidUpdate, and componentWillUnmount.



### 🌓 Example: Run Once on Mount

```
import React, { useEffect } from 'react'; function Example() { useEffect(() => {
  console.log("Component mounted!"); }, []); // Empty array = run only once return <h2>Hello,
  useEffect!</h2>; }
```

# **Example:** Run When State Changes

```
import React, { useState, useEffect } from 'react'; function Counter() { const [count, setCount] =
useState(0); useEffect(() => { console.log(`Count changed to: ${count}`); }, [count]); // Runs
every time `count` changes return ( <div> <h2>Count: {count}</h2> <button onClick={() =>
setCount(count + 1)}> \data
```

# ✓ Cleanup Function (Like componentWillUnmount)

```
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jsx
useEffect(() => { const timer = setInterval(() => { console.log("Tick"); }, 1000); return () => {
clearInterval(timer); // Cleanup console.log("Component unmounted or re-rendered"); }; }, []);
```

### What are side effects?

- Fetching API data
- Setting up subscriptions
- Directly manipulating the DOM
- Timers / intervals

### Dependency Array

Dependency array	What it means	
[]	Run once (on mount)	
[value]	Run when value changes	
no array	Run on every render (🚹 usually not ideal)	