

	Hooks are one of the most powerful features in React.
	They were introduced in React 16.8 to let us use state and lifecycle methods inside functional components — without writing a class.
Before hooks:	
	Functional components were stateless.
	We used class components for state & lifecycle.
After hooks:	
	Functional components can now manage state, handle side effects, and reuse logic easily.

What is a Hook?

- ☐ A hook is a special function provided by React.
- ☐ It lets you "hook into" React features like state, lifecycle, context, refs, etc.
- ☐ Hooks must start with "use" (e.g., useState, useEffect).

Rules of Hooks:

- Only call hooks at the top level of your component (not inside loops/conditions).
- ☐ Only call hooks from:
 - React function components
 - Custom hooks

Commonly Used Built-in Hooks

- □ useState
- □ useEffect
- □ useRef
- □ useReducer
- □ useMemo
- ☐ useCallback
- □ useLayoutEffect
- □ useContex

useEffect Hook

- ☐ If useState is for managing state, then useEffect is for managing side effects in React.
- A side effect means any code that affects something outside React's render cycle.

Examples:

- ☐ Fetching data from an API
- ☐ Setting up event listeners (like resize, scroll)
- ☐ Working with timers (setInterval, setTimeout)
- ☐ Updating the browser's DOM or title manually

- □ Normally, React components should only return UI, but side effects let us interact with the outside world.
- useEffect is a React hook that lets us perform side effects in functional components.

```
useEffect(() => {
    // side effect code here
    return () => {
        // cleanup code (optional)
    };
}, [dependencies]);
```

Thank You