

WHAT ARE REACT HOOKS?

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- 👉 Special built-in functions that allow us to “hook” into React internals:

Scrimba

React hooks are essentially special functions that are built into React and which allow us to basically hook into some of React's internal mechanisms.

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 - 👉 Creating and accessing **state** from Fiber tree
 - 👉 Registering **side effects** in Fiber tree

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Hooks are basically APIs that expose some internal React functionality, such as creating and accessing state from the fiber tree or registering side effects in the fiber tree.

The fiber tree is somewhere deep inside React and usually not accessible to us at all but using the `useState` or the `useEffect` hook, we can essentially hook into that internal mechanism.

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 - 👉 Manual **DOM selections**
 - 👉 Many more...

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Hooks also allow us to manually select in-store DOM nodes access context and many other things.

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- 👉 Always start with **"use"** (`useState`, `useEffect`, etc.)

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All Hooks start with the word **"use,"** in order to make it easy for us and for React to distinguish hooks from other regular functions.

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- 👉 Always start with “**use**” (useState, useEffect, etc.)
- 👉 Enable easy **reusing of non-visual logic**: we can compose multiple hooks into our own **custom hooks**

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We can even create our own so-called custom hooks, which will also start with the word “use.” This is actually one of the greatest things about hooks in general, because custom hooks give us developers an easy way of reusing non-visual logic. So, logic that is not about the UI.

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- 👉 Always start with “**use**” (useState, useEffect, etc.)
- 👉 Enable easy **reusing of non-visual logic**: we can compose multiple hooks into our own **custom hooks**
- 👉 Give **function components** the ability to own state and run side effects at different lifecycle points (before v16.8 only available in class **components**)



















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There was a time when we had to use components based on JavaScript classes if we wanted to give components state and access to the component life cycle.




However, this came with a few problems, which led the React team to introduce hooks.

With hooks, our components based on functions can have their own state and also run side effects. This was a huge step forward for React and made it even more popular than it already was.

OVERVIEW OF ALL BUILT-IN HOOKS


 MOST USED	 LESS USED	 ONLY FOR LIBRARIES
 <code>useState</code>	 <code>useRef</code>	 <code>useSyncExternalStore</code>
 <code>useEffect</code>	 <code>useCallback</code>	 <code>useInsertionEffect</code>
 <code>useReducer</code>	 <code>useMemo</code>	
 <code>useContext</code>	 <code>useTransition</code>	
	 <code>useDeferredValue</code>	
	 <code>useLayoutEffect</code>	
	 <code>useDebugValue</code>	
	 <code>useImperativeHandle</code>	
	 <code>useId</code>	




 As of React v18.x


 Have learned
 Will learn
 Will not learn

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THE RULES OF HOOKS

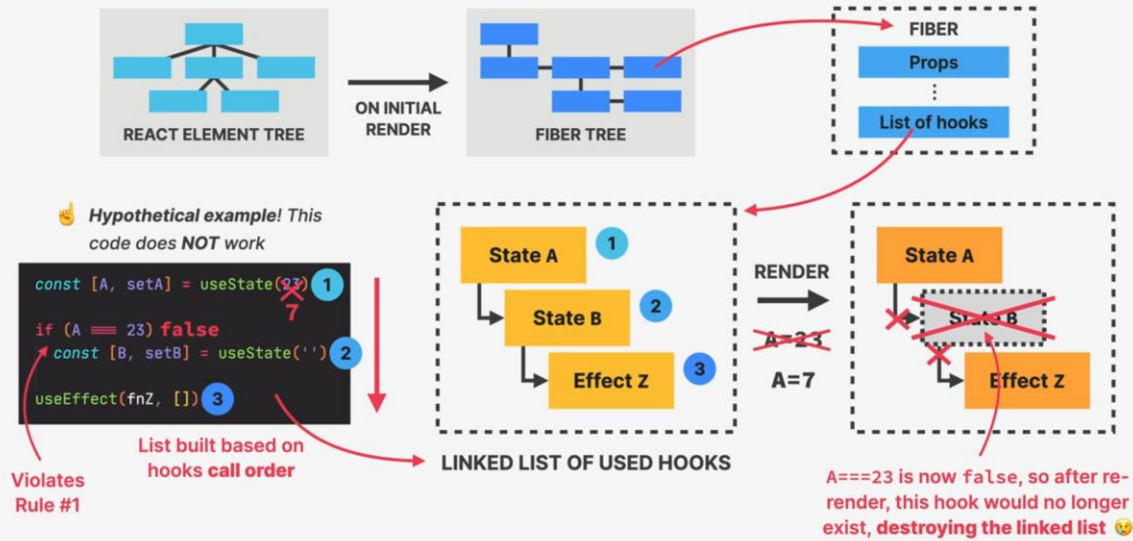
 RULES OF HOOKS

- 1 Only call hooks at the top level**
 -  Do **NOT** call hooks inside **conditionals, loops, nested functions**, or after an **early return**
 -  This is necessary to ensure that hooks are always called in the **same order** (hooks rely on this)
- 2 Only call hooks from React functions**
 -  Only call hooks inside a **function component** or a **custom hook**

 These rules are **automatically enforced** by React's ESLint rules

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HOOKS RELY ON CALL ORDER



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