

# React Hooks

MAKE STATELESS FUNCTION COMPONENTS STATEFUL

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# React Hooks - What is it

- React Hooks make it possible to take a functional component and add a state to it, or hook into lifecycle methods like **componentDidMount** and **componentDidUpdate**.
- React Hooks can be used since v16.8.
- With React Hooks you can use functional components for more use cases and prevent to write bloated classes.

# React Hooks - Which hooks comes out of the box

- Basic Hooks
  - useState
  - useEffect
  - useContext
- Additional Hooks
  - useReducer
  - useRef
  - useCallback
  - useMemo
  - ...

More information

- Returns a stateful value, and a function to update it. During the initial render, the returned state (`state`) is the same as the value passed as the first argument (`initialState`). The `setState` function is used to update the state. It accepts a new state value and enqueues a re-render of the component.

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const [{state}, set{State}] = useState(initialState);
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const [{state}, set{State}] = useState(initialState);  
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const [state, setState] = useState(() => {  
  const initialState = someExpensiveComputation(props);  
  return initialState;  
});
```

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- `useEffect` let you control how often it should be called
- When you return a cleanup function then it will be called when the component will be unmounted

## useEffect

```
useEffect(() => {  
  document.title = 'The will happen after the first' +  
    'render cycle was finished';  
  
  return function cleanup() {  
    // Here you can unsubscribe any eventhandlers  
  };  
}, []);
```



- Demo

- Accepts a context object (the value returned from `React.createContext`) and returns the current context value, as given by the nearest context provider for the given context.

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- When the provider updates, this Hook will trigger a rerender with the latest context value.

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- Only call hooks from React function components, or from custom hooks. Don't call them from outside a component. Keeping all the calls inside components and custom hooks makes your code easier to follow too, because all the related logic is grouped together.
- The names of hooks must start with "use". Like `useState` or `useEffect`.

## Write your own hooks

- Custom hooks are using mostly the original React hooks like **useState** and **useEffect** together to prevent duplicated code.



- `mobx-react-lite`