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Custom hooks

React has some built-in hooks, such as the useState hook, or the useRef hook, which you learned about earlier. However, as a React developer, you can write your own hooks. So, why would you want to write a custom hook?

In essence, hooks give you a repeatable, streamlined way to deal with specific requirements in your React apps. For example, the usestate hook gives us a reliable way to deal with state updates in React compo

A custom hook is simply a way to extract a piece of functionality that you can use again and again, Put differently, you can code a custom hook when you want to avoid duplication or when you do not want to build a piece of functionality from scratch across multiple React projects. By coding a custom hook, you can create a reliable and streamlined way to reuse a piece of functionality in your React apps.

To understand how this works, let's explore how to build a custom hook. To put this in context, let's also code a very

The entire React app is inside the App component below:

```
1 import { useState } from "react";
    function App() {
  const [count, setCount] = useState(0);
      function increment() {
  setCount(prevCount => prevCount + 1)
     <button onClick={increment}>Plus 1</button>
        </div>
    export default App;
```

This is a simple app with an h1 heading that shows the value of the count state variable and a button with an onclick event-handling attribute which, when triggered, invokes the increment () function

The hook will be simple too. It will console log a variable's value whenever it gets updated.

Remember that the proper way to handle console.log() invocations is to use the useEffect hook.

So, this means that my custom hook will:

- 1. Need to use the ${\tt useEffect}$ hook and
- 2. Be a separate file that you'll then use in the App component.

How to name a custom hook

A custom hook needs to have a name that begins with use.

Because the hook in this example will be used to log values to the console, let's name the hook ${\tt useConsoleLog}$.

Coding a custom hook

Now's the time to explore how to code the custom hook.

First, you'll add it as a separate file, which you can name useConsoleLog. js, and add it to the root of the src folder, in the same place where the App.js component is located.

Here's the code of the useConsoleLog.is file:

```
import { useEffect } from "react";
    function useConsoleLog(varName) {
   console.log(varName);
}, [varName]);
}
   export default useConsoleLog;
```

Using a custom hook

Now that the custom hook has been coded, you can use it in any component in your app.

Since the app in the example only has a single component, named App, you can use it to update this component.

The useConsoleLog hook can be imported as follows:

import useConsoleLog from "./useConsoleLog";

And then, to use it, under the state-setting code, I'll just add the following line of code:

useConsoleLog(count);

Here's the completed code of the App.js file:

```
import { useState } from "react";
import useConsoleLog from "./useConsoleLog";
function App() {
  const [count, setCount] = useState(0);
  useConsoleLog(count);
  function increment() {
  setCount(prevCount => prevCount + 1);
         <h1>Count: {count}</h1>
         <button onClick={increment}>Plus 1</button>
      </div>
export default App;
```





This update confirms the statement made at the beginning of this reading, which is that custom hooks are a way to extract functionality that can then be reused throughout your React apps

Conclusion

You have learned how to name, build and use custom hooks in React.

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