

# component-hook-factories

Validates against higher order functions defining nested components or hooks. Components and hooks should be defined at the module level.

## Rule Details

Defining components or hooks inside other functions creates new instances on every call. React treats each as a completely different component, destroying and recreating the entire component tree, losing all state, and causing performance problems.

### Invalid

Examples of incorrect code for this rule:

```
// ✗ Factory function creating components
function createComponent(defaultValue) {
  return function Component() {
    // ...
  };
}

// ✗ Component defined inside component
function Parent() {
  function Child() {
    // ...
  }

  return <Child />;
}

// ✗ Hook factory function
function createCustomHook(endpoint) {
  return function useData() {
```

```
// ...
};

}
```

## Valid

Examples of correct code for this rule:

```
// ✅ Component defined at module level
function Component({ defaultValue }) {
  // ...
}
```

```
// ✅ Custom hook at module level
function useData(endpoint) {
  // ...
}
```

## Troubleshooting

### I need dynamic component behavior

You might think you need a factory to create customized components:

```
// ❌ Wrong: Factory pattern
function makeButton(color) {
  return function Button({children}) {
    return (
      <button style={{backgroundColor: color}}>
        {children}
      </button>
    );
  };
}

const RedButton = makeButton('red');
```

Pass **JSX as children** instead:

```
// ✅ Better: Pass JSX as children
function Button({color, children}) {
  return (
    <button style={{backgroundColor: color}}>
      {children}
    </button>
  );
}

function App() {
  return (
    <>
      <Button color="red">Red</Button>
      <Button color="blue">Blue</Button>
    </>
  );
}
```

이전

rules-of-hooks

다음

config

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