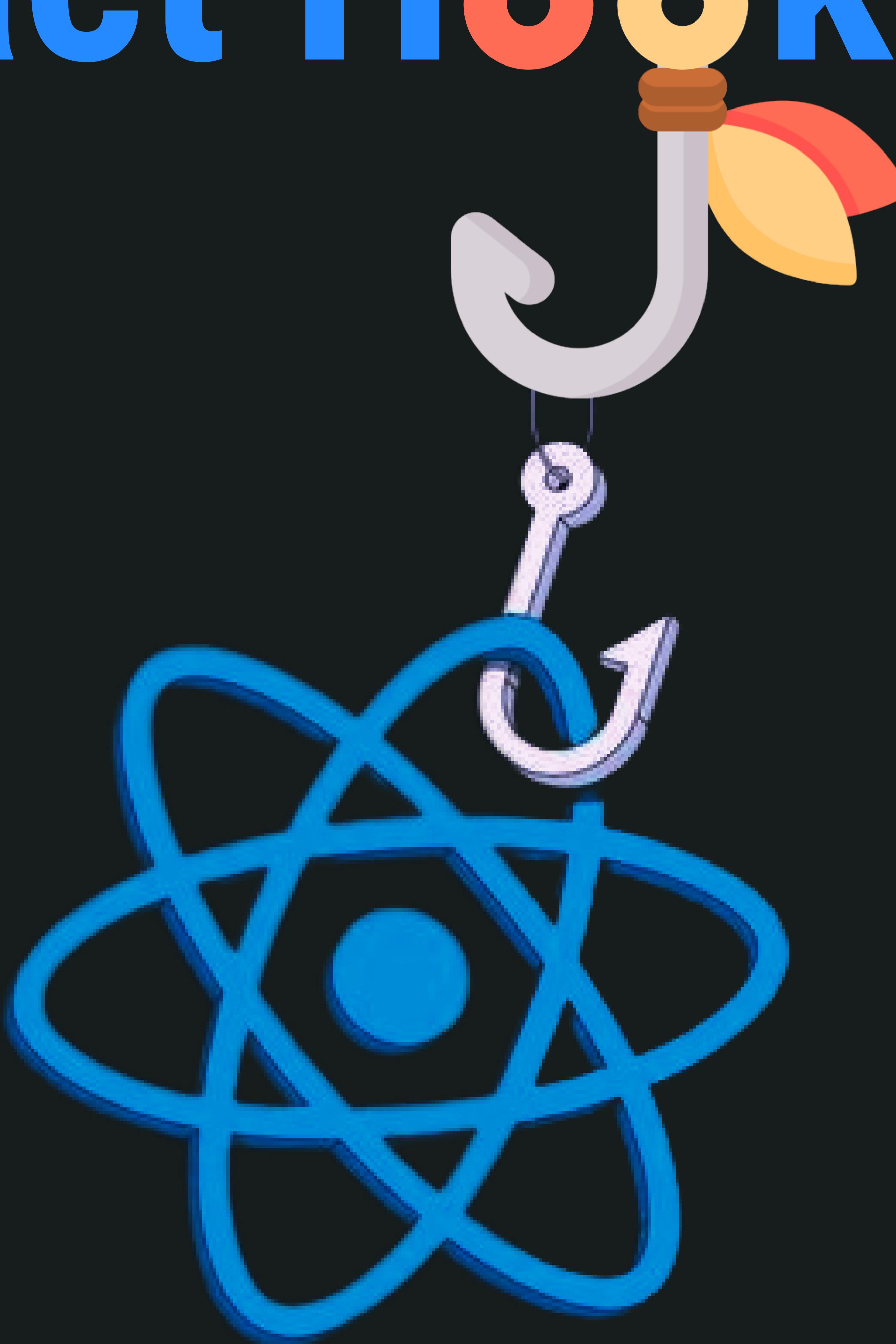




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React Hooks



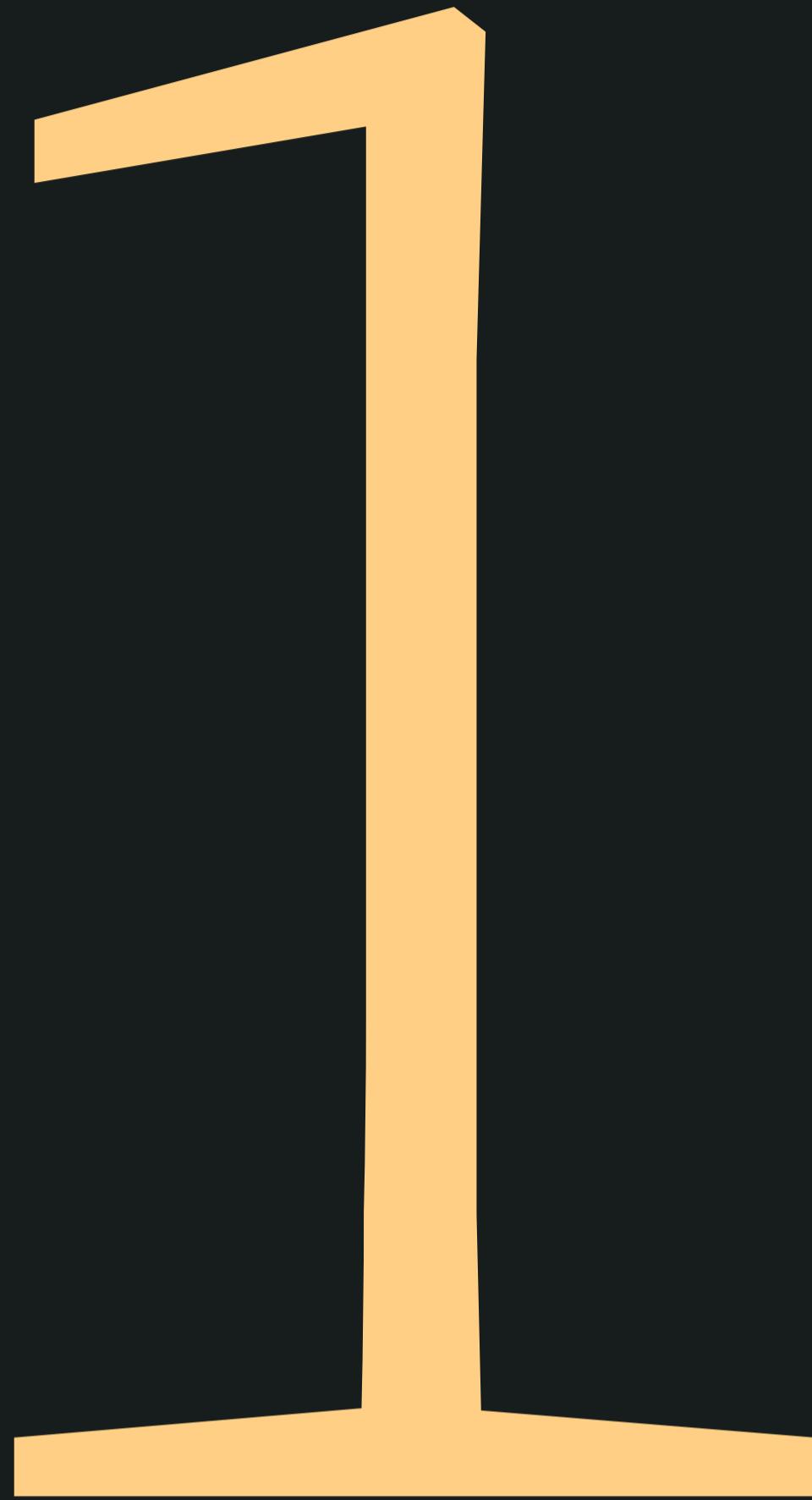


Hooks

Hooks let you use different React features from your components. You can **use built-in hooks** or **build your own** hooks.

Hooks **enable** us to us **lifecycle methods**, and other React features **without** writing a **class**.

Hooks were introduced in **React 16.8** as way to use state and other React features in functional components, which were previously limited to stateless, presentational components.



useState()

State hook lets a component remember the information like user input...



state.jsx

```
const [state, setState] = useState(initialState);
```

2

useEffect()

Effect lets a component to connect & synchronize with external systems.



effect.jsx

```
useEffect(() => {  
  // Effect code  
}, [dependencies]);
```

3

useContext()

Context lets you receive information from distant parent without passing it as props.



context.jsx

```
const value = useContext(MyContext);
```

4

useRef()

Ref lets a component hold the information which is not used for rendering.



ref.jsx

```
const refContainer = useRef(initialValue);

// Somewhere in return
<input ref={refContainer} type="text" />
```



useMemo()

Memo lets you cache the result of an expensive calculation. Which can save you from repeating it.



memo.jsx

```
const memoizedValue = useMemo(() => {  
  // Perform Any Expensive Calculation  
}, [dependencies]);
```



useCallback()

Callback lets you cache a function definition before passing it to optimized component.



callback.jsx

```
const memoizedCallback = useCallback(() => {  
  // Perform Your Task Here  
}, [dependencies]);
```

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Learn What is **Props** & **State** in React ?

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PROPS

STATE

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Props

Props (short for **properties**) are a way to pass data from **parent to child** components in React.

They are **read-only** and are **used to customize and configure child** components.

Props allow for component **composition** and **reusability** by enabling parent components to control the behavior and appearance of child components.

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Suppose you have a **UserCard** component that displays information about a user.

You can pass data such as the **name** and **email** to the **UserCard** component.

```
...  
const UserCard = (name, email) =>  
  return (  
    <div>  
      <span>{name}</span>  
      <span>{email}</span>  
    </div>  
  );  
>
```

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