₹ 5.React Hooks 原理

5-1.内部实现

useState 其实是一个简版的 useReducer,因为 Redux 的作者入职了 React 以后,将原有的 Redux 的核心理论移植给了 Hooks

5-2.简版的实现

```
let state

function useState(defaultState) {
  function setState(newState) {
    state = newState
  }

  if (!state) {
    state = defaultState
  }
  return [state, setState]
}

function render() {
  const [state, setState] = useState(0)
  console.log(state)
  setState(state + 1)
}
```

状态堆与上下文栈存储多个状态多个函数

```
let contextStack = []

function useState(defaultState) {
   const context = contextStack[contextStack.length - 1]
   const nu = context.nu++
   const { states } = context

   function setState(newState) {
     states[nu] = newState
   }

   if (!states[nu]) {
     states[nu] = defaultState
   }
}
```

```
return [states[nu], setState]
function withState(func) {
  const states = {}
  return (...args) => {
    contextStack.push({ nu: 0, states })
    const result = func(...args)
    contextStack.pop()
    return result
 }
}
const render = withState(
  function render() {
    const [state, setState] = useState(0)
    render1()
    console.log('render', state)
    setState(state + 1)
  }
)
const render1 = withState(
  function render1() {
    const [state, setState] = useState(0)
    console.log('render1', state)
    setState(state + 2)
  }
)
```

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