

Advanced React useReducer

AGENDA

Why useReducer?

useReducer Hook

Demo

Why useReducer?

useState()

The most fundamental state management hook in React, `useState()` maintains a single state variable.

```
const [counter, setCounter] = useState(0);
```

Why useReducer?

`useState()`

- `useState` is simple to use and understand.
- As your React app grows larger, your app is filled with `setState` for every piece of state within your app
- It makes it very difficult to track state mutations

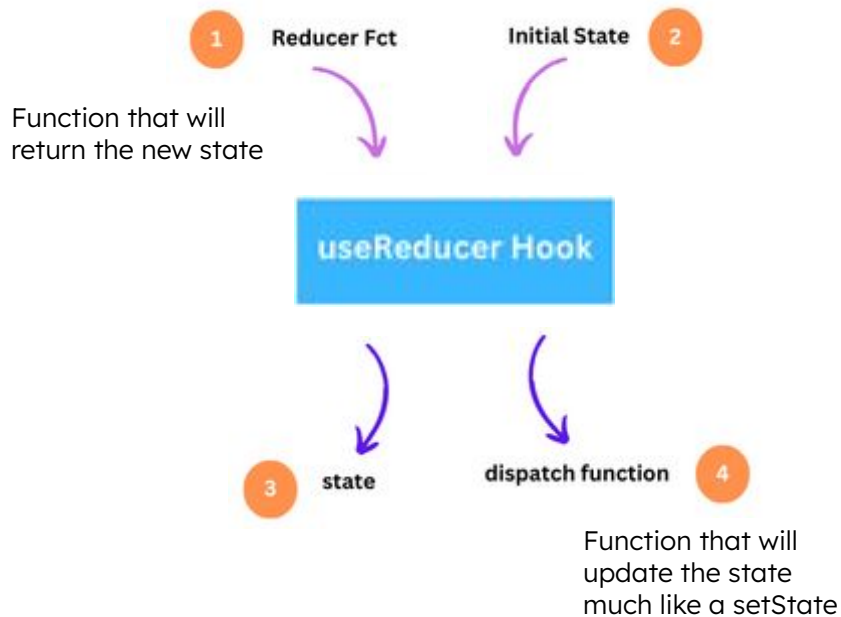
Why useReducer?

`useReducer()`

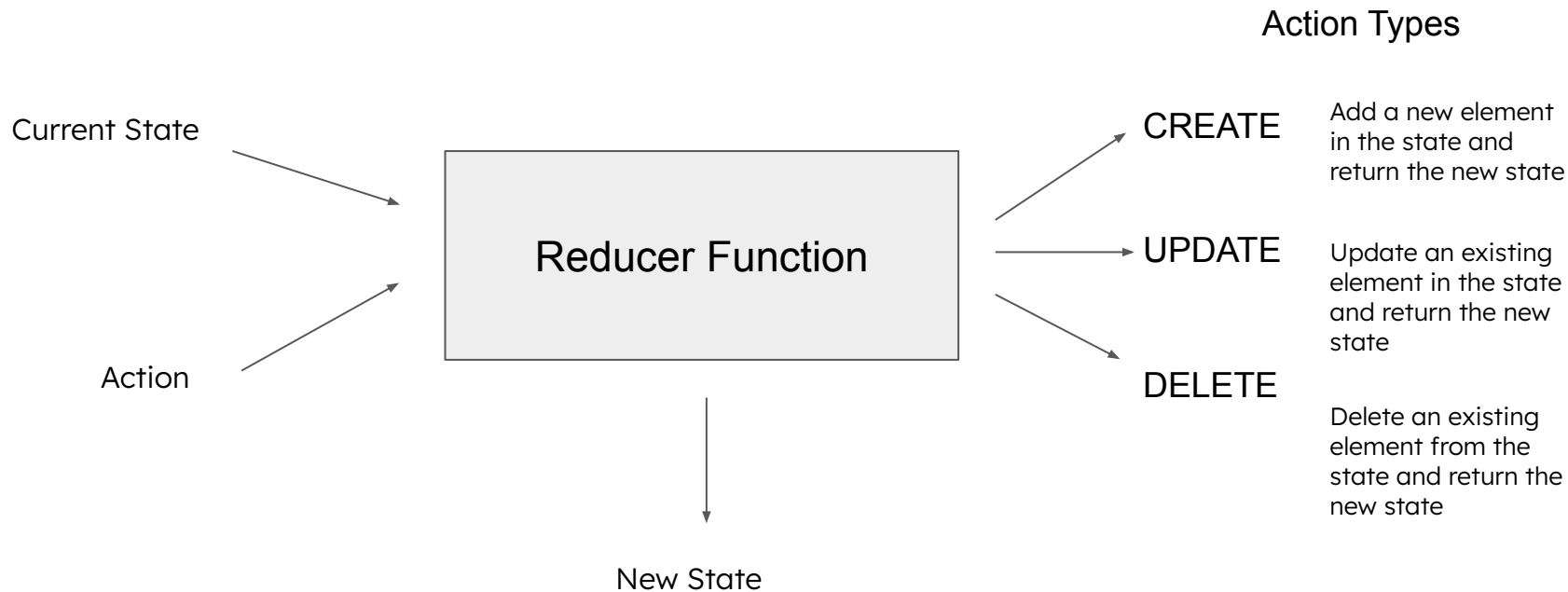
`useReducer` is a React hook that helps us manage the state in our app:

- Centralize all the state mutations in one place
- A clearer separation of concerns
- Reducers are pure functions and can be more easily tested
- State updates are declarative
- There's a bit of a learning curve initially

useReducer



useReducer



Demo

- The goal of the demo is to demonstrate the `useReducer` hook.
- We're going to keep the UI to a minimum on purpose to focus on the state mutations without too many distractions.
- We start by using conventional `useState` to mutate our state and we're going to transition to a `useReducer` step-by-step.
- We're going to add a few optimizations depending on time.

Questions?