

# State Management in 2025

## The Evolution Beyond Redux

React Paris Meetup #012

2025

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# The State of State Management

## Is Redux Dead?

- Redux downloads: still 8M+/week on npm
- But... alternatives are growing fast
- React 19 changes the game
- Server state vs client state distinction

## What We'll Explore

- ① Redux Toolkit evolution
- ② Modern alternatives (Zustand, Jotai, Valtio)
- ③ Server state with TanStack Query
- ④ React 19 Actions and form state

# Redux Toolkit: Redux Done Right

## The Old Way (Pain)

```
// actions.js
const ADD_TODO = 'ADD_TODO';
export const addTodo = (text) => ({
  type: ADD_TODO,
  payload: { text, id: Date.now() }
});

// reducer.js
function todosReducer(state = [], action) {
  switch (action.type) {
    case ADD_TODO:
```

# Redux Toolkit: Modern Approach

## createSlice to the Rescue

```
import { createSlice } from '@reduxjs/toolkit';

const todosSlice = createSlice({
  name: 'todos',
  initialState: [] ,
  reducers: {
    addTodo: (state, action) => {
      // Immer allows "mutations"!
      state.push({
        id: Date.now(),
        text: action.payload,
      })
    }
  }
})
```

# RTK Query: Built-in Data Fetching

## API Slice Definition

```
import { createApi, fetchBaseQuery } from '@reduxjs/toolkit/  
  
export const api = createApi({  
  baseQuery: fetchBaseQuery({ baseUrl: '/api' }),  
  tagTypes: ['Posts'],  
  endpoints: (builder) => ({  
    getPosts: builder.query({  
      query: () => 'posts',  
      providesTags: ['Posts']  
    }),  
    addPost: builder.mutation({  
      // ...  
    })  
  })  
  // ...  
})
```

# Zustand: Minimal and Flexible

## Simple Store Creation

```
import { create } from 'zustand';

const useStore = create((set, get) => ({
  count: 0,
  todos: [] ,

  increment: () => set((state) => ({
    count: state.count + 1
  })),
  addTodo: (text) => set((state) => ({
```

# Jotai: Atomic State

## Bottom-Up State Management

```
import { atom, useAtom, useAtomValue } from 'jotai';

// Primitive atoms
const countAtom = atom(0);
const textAtom = atom('');

// Derived atom (read-only)
const doubleCountAtom = atom((get) =>
  get(countAtom) * 2
);
```

# Valtio: Proxy-Based Reactivity

## Mutable State That Just Works

```
import { proxy, useSnapshot } from 'valtio';

// State can be mutated directly
const state = proxy({
  count: 0,
  todos: [],
  user: null
});
```

```
// Actions are just functions
const actions = {
```

# TanStack Query: The Server State Standard

## Queries Made Simple

```
import { useQuery, useMutation, useQueryClient } from '@tanstack/react-query';

function Posts() {
  const queryClient = useQueryClient();

  const { data, isLoading, error } = useQuery({
    queryKey: ['posts'],
    queryFn: () => fetch('/api/posts').then(r => r.json()),
    staleTime: 5 * 60 * 1000 // 5 minutes
  });
}
```

# Server State vs Client State

## The Distinction

Server State	Client State
Lives on the backend	Lives in browser
Shared across users	User-specific
Needs sync/caching	Ephemeral
Posts, users, products	UI state, forms
Use Query/SWR	Use Zustand/Context

## The Insight

Most "global state" is actually server state!

- User data? Server state

# useActionState: Form State Simplified

## The New Pattern

```
"use client";
import { useActionState } from 'react';
import { submitForm } from './actions';

function ContactForm() {
  const [state, formAction, isPending] = useActionState(
    submitForm,
    { message: '', errors: {} }
  );

  return (
    <div>
      <input type="text" value={state.value} onChange={formAction} />
      {isPending ? <p>Submitting...</p> : null}
      {errors.message ? <p>{errors.message}</p> : null}
    </div>
  );
}
```

# useOptimistic: Instant Feedback

## Optimistic UI Updates

```
import { useOptimistic, useTransition } from 'react';

function TodoList({ todos, addTodoAction }) {
  const [isPending, startTransition] = useTransition();
  const [optimisticTodos, addOptimistic] = useOptimistic(
    todos,
    (state, newTodo) => [
      ...state,
      { ...newTodo, sending: true }
    ]
  );
}
```

# nuqs: Type-Safe URL State

## Search Params as State

```
import { useQueryState, parseAsInteger, parseAsString } from 'nuqs'

function ProductFilters() {
  // Synced with URL: ?page=1&sort=price&q=shoes
  const [page, setPage] = useQueryState(
    'page',
    parseAsInteger.withDefault(1)
  );
  const [sort, setSort] = useQueryState(
    'sort',
    parseAsString.withDefault('relevance')
  );
}
```

# Benefits of URL State

## Why URL State Wins

- Shareable links with exact state
- Browser back/forward works
- Bookmarkable searches/filters
- SEO benefits
- No hydration mismatch
- Survives page refresh

# When to Use What?

## The Decision Tree

Do you need state?

|  
+-- Server data? --> TanStack Query / SWR

|  
+-- Form state? --> React 19 Actions / react-hook-form

|  
+-- URL-worthy? --> nuqs / URL params

|  
+-- Component-local? --> useState / useReducer

|  
+-- Shared across routes?

# Summary

## Key Takeaways

- ➊ Most "state" is actually server state
- ➋ React 19 handles form state natively
- ➌ URL state is underutilized
- ➍ Pick the simplest tool that works
- ➎ Redux isn't dead, but isn't always needed

## Resources

- TanStack Query
- Zustand
- Jotai

Thank you!  
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