

build-lists: true

React Dojo / Intro to Redux

Wifi (twguest):

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git clone <https://github.com/tw-react-dojo/3-intro-to-redux>

***Redux is a predictable
state container for
JavaScript apps.***

The State

```
{
  todos: [{
    text: 'Eat food',
    completed: true
  }, {
    text: 'Exercise',
    completed: false
  }]
}
```

Actions

```
{ type: 'ADD_TODO', text: 'Go to swimming pool' }  
{ type: 'TOGGLE_TODO', index: 1 }
```

(state, action) => state

The Reducer / Duck

```
function todos(state = [], action) {  
  switch (action.type) {  
    case 'ADD_TODO':  
      return [...state, { text: action.text, completed: false }]  
    case 'TOGGLE_TODO':  
      return state.map(  
        (todo, index) =>  
          action.index === index  
            ? { ...todo, completed: !todo.completed }  
            : todo  
      )  
    default:  
      return state  
  }  
}
```

3 Principles

- Single source of truth
 - State is read-only
- Changes are made with pure functions

Usage with React

```
npm install --save react-redux
```

```
// In Code
```

```
connect(mapStateToProps, mapDispatchToProps)(MyComponent)
```


mapState To Props

```
state => ({  
  prop: state.prop,  
  otherProp: state.otherProp  
})
```

mapDispatchToProps

```
dispatch => ({  
  anAction: params => dispatch(anAction(params))  
})
```

or

```
{  
  anAction //anAction: anAction  
}
```

Coding Time