Redux vs MobX

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What Do Redux and MobX Have in Common?

First, let's look at what they both have in common:

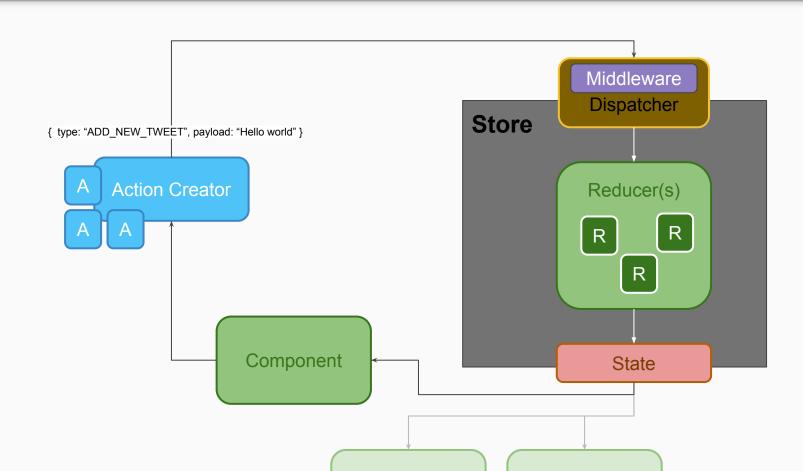
- Open-source libraries
- Provide client-side state management
- Not tied to specific framework
- Extensive support for React/React Native framework

Redux vs MobX

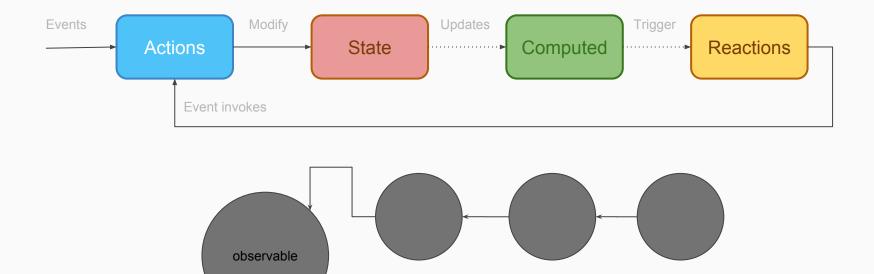
State management libraries

What's the difference

How Redux works



How MobX works



```
import React from 'react';
import ReactDOM from 'react-dom';
import './index.css';
import App from './App';
import registerServiceWorker from './registerServiceWorker';
import { Provider } from 'react-redux';
import { applyMiddleware, createStore } from 'redux';
import logger from 'redux-logger';
import thunk from 'redux-thunk';
import promise from 'redux-promise-middleware';
import TweetReducer from './reducers/TweetReducer';
const middleware = applyMiddleware(promise(),thunk,logger);
const store = createStore(TweetReducer,middleware);
ReactDOM.render(
  <Provider store={store}>
    <App />
  </Provider>
  , document.getElementById('root'));
registerServiceWorker();
```

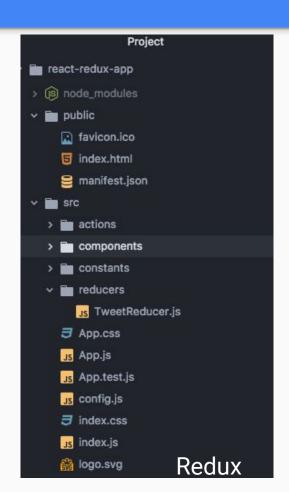
Redux index.js

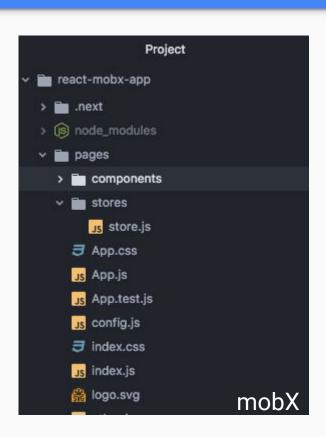
```
import React, { Component } from 'react';
import { Provider } from 'mobx-react';
import { initStore } from './stores/store';
import App from './App';
export default class Counter extends Component {
  static getInitialProps ({ reg }) {
    const isServer = !!req;
    const store = initStore(isServer);
    return { lastUpdate: store.lastUpdate, isServer }
  constructor (props) {
    super(props);
    this.store = initStore(props.isServer, props.lastUpdate);
  render () {
   return (
      <Provider store={this.store}>
        <App />
      </Provider>
```

MobX index.js

```
us index.is
                                  Js TweetReducer.js
                                                                   us config.js
import { Constants } from '../constants/Constants';
const user = (action) => {
 console.log('connect to ther server');
  return {
   id:Math.floor(Math.random()*1234567890),
    user:action.user
const message = (action) => {
  console.log('connect to ther server');
  return {
    id:Math.floor(Math.random()*1234567890),
   message:action.message
const tweets = (state =[], action) => {
  console.log(action);
  let users = null;
  let messages = null;
 switch (action.type) {
   case Constants.GET USER:
     users = [...state, user(action)];
     return users:
    case Constants.ADD MESSAGE:
     messages = [...state, message(action)];
     return messages;
    default:
      return state;
export default tweets;
                                   Redux Reducer
```

```
us index.is
                        Js App.is
                                                                    Js Clock.is
                                              ₹ App.css
import { action, observable } from 'mobx'
let store = null
class Store {
 @observable lastUpdate = 0
 @observable light = false
 constructor (isServer, lastUpdate) {
    this.lastUpdate = lastUpdate
 @action start = () => {
    this.timer = setInterval(() => {
     this.lastUpdate = Date.now()
 stop = () => clearInterval(this.timer)
export function initStore (isServer, lastUpdate = Date.now()) {
 if (isServer) {
   return new Store(isServer, lastUpdate)
  } else {
   if (store === null) {
     store = new Store(isServer, lastUpdate)
    return store
                                      MobX Store
```

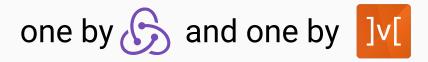




Achievements and progress

- See the difference code between Redux and MobX
- See how to setup Redux manually
- See how MobX code yields less code than Redux

Two identical applications



https://github.com/nimbl3/mini-twitter-redux-vs-mobx.gi

Thanks!

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