



REDUX / REACT-REDUX

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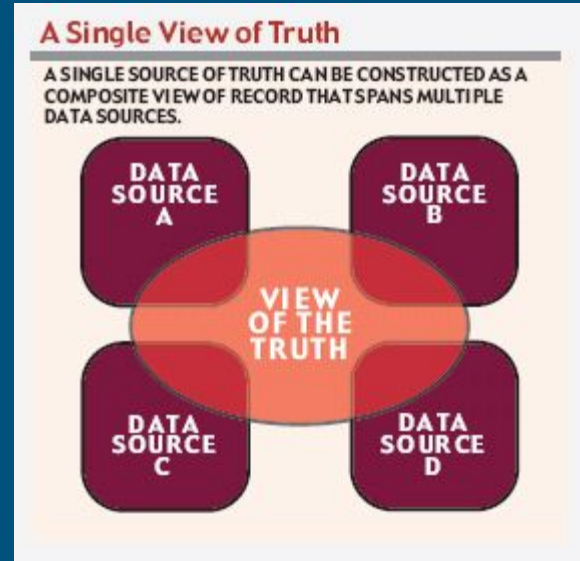


Redux is a predictable state container for JavaScript apps

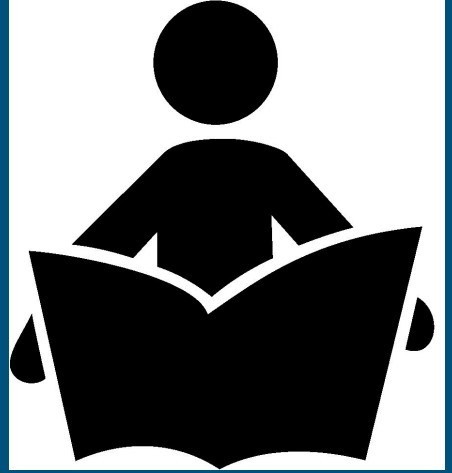
- **Single source of truth**
- **State is read-only**
- **Changes are made with pure functions**



The state of your whole application is stored in an object tree within a single **store**.



The only way to
change the state
is to emit an
action, an object
describing what
happened



```
{  
  type : 'MAKE_CHOCOLATE',  
  ingredients : ['Chocolate Liquor','Cocoa Butter','Sugar','Milk']  
}
```

Action - an object describing intent and passing supporting data

To specify how
the state tree is
transformed by
actions, you write
pure **reducers**.





TAKE



GIVE

Reducer - take state give (new) state

Ahhh

Redux - you are extremely
simple

Store

Action

Reducer



Redux Q & A

What does redux
store have?

state

Who is
responsible for
state creation?

reducer

Who requests
reducer for a
state change?

action



**KEEP
CALM
AND
LET'S
CODE**

```
npm install redux
```


What's the plan??

Create a store with state

Let's inform whoever is interested in state change

Dispatch action that triggers a state change



Feel you how do ?

React + Redux

What's our state
now?

We know

Redux

We know

— React

React Chocolate Store With Redux



Welcome to React - Choclote Store

Make Choclates

Name	Brand	Size	Price	Soh	
Diary Milk	Cadbury	small	5	5	<input type="button" value="Sell"/>
5 Star	Cadbury	small	5	No Stock	
KitKat	Nestle	small	8	4	<input type="button" value="Sell"/>



**KEEP
CALM
AND
LET'S
CODE**

```
npm install react-redux
```

Who is
responsible for
presenting data?

React

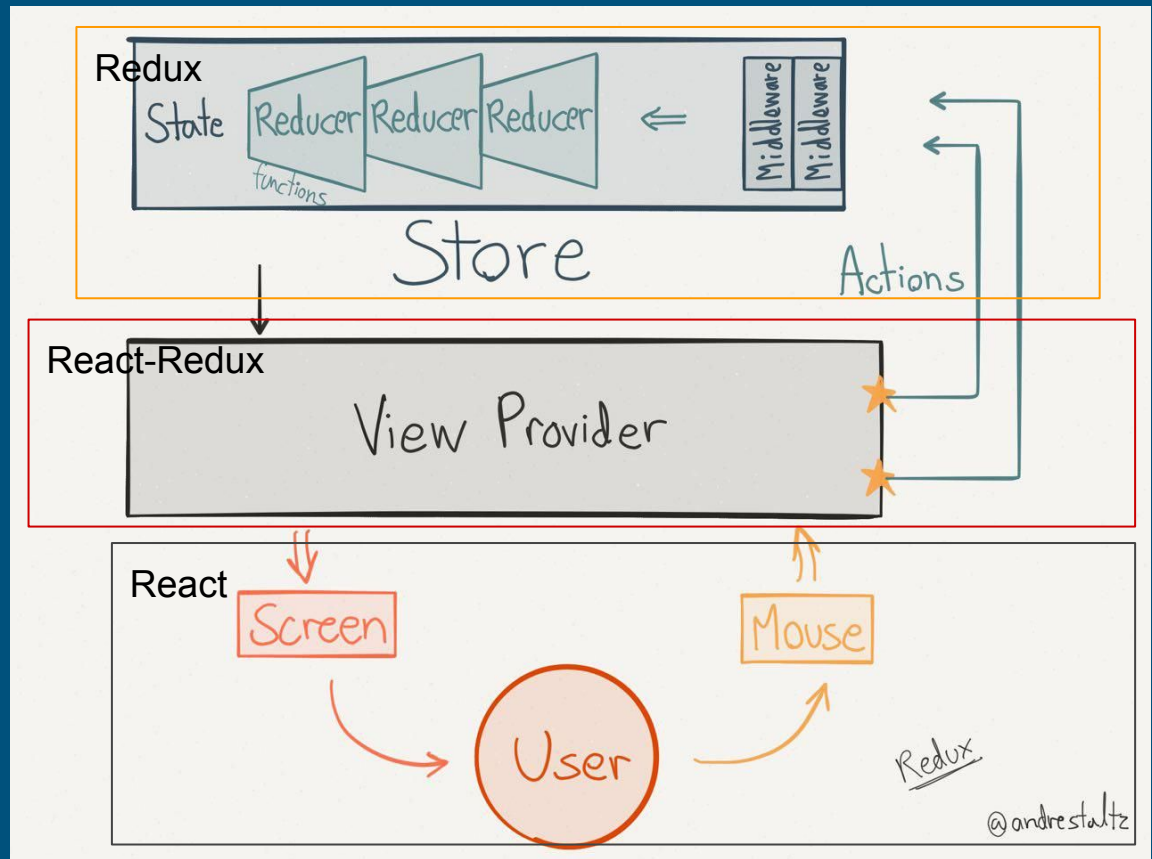
Who is
responsible for
state
management?

Redux

When does view
render in React?

On State
Change

Let's connect react & redux



Things at our disposal now !!!!

- **createStore**
- **Provider**
- **connect**
- **mapStateToProps**
- **mapDispatchToProps**

Disconnected Dots !!!

2 Components types with react-redux

Container
Components

(I connect with redux)

Presentation
Components

(I DO NOT connect with
redux)

Say this loud !!!

I know React Redux

```
dispatch({type: 'WHO_AM_I'})
```

```
export default function(state={},action){  
  switch(action.type){  
    case 'WHO_AM_I' :  
      return{  
        name : 'Bala Krishna Ragala',  
        worksAt : 'Sparity',  
        role : 'Solutions Architect',  
        experience : '7+ years',  
        passion : 'learn code share',  
        technologies : [...many],  
        github : 'baluragala',  
        email : 'baluragala@gmail.com'  
      }  
    default:  
      return state;  
  }  
}
```



```
learnReactRedux  
  .then(redux)  
  .then(reactRedux)  
  .then(goHomeWithSimle)  
  .then(waitForNextMeetup)  
  |
```

Promise fulfilled or rejected ???

```
dispatch({type: 'THANK_YOU'})
```

```
export default function(state={},action){  
  switch(action.type){  
    case 'THANK_YOU' :  
      return{  
        english : 'Thank You',  
        telugu : 'ధన్యవాదాలు',  
        hindi : 'धन्यवाद',  
        kanndada : 'ಧನ್ಯವಾದಗಳು',  
        tamil : 'நன்றி',  
        malayalam : 'നന്ദി'  
      }  
      default:  
        return state;  
      }  
    }  
  }
```