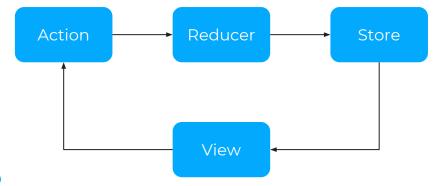
# You might not need Redux; A little context

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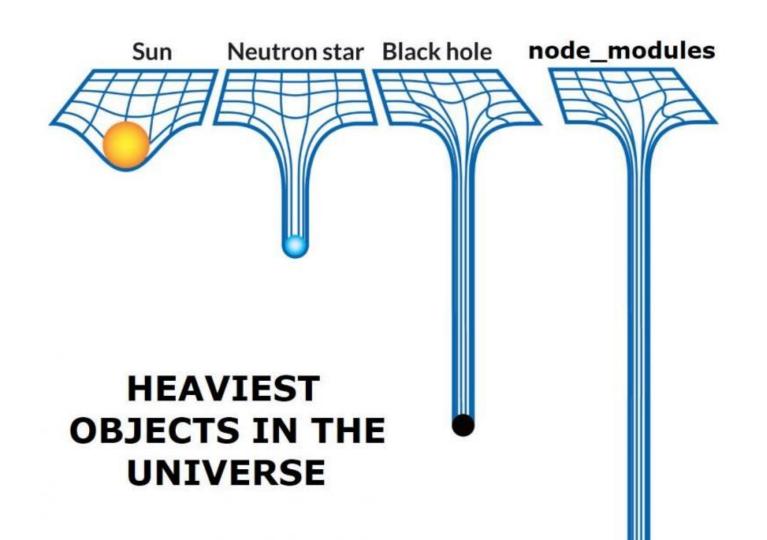
### What is Redux?

- "Redux is a predictable state container for JavaScript apps." - redux.js.org
- Unidirectional data flow inspired by Elm and Flux
- State is only mutated by "dispatching" serializable actions.
- Reducers take actions and apply them to your state, returning a new copy.



# Common Complaints

- Hard to learn
- Feels like a requirement to use React
- Boilerplate hell
- Lots of potential dependencies
  - redux-thunk/redux-saga
  - redux-logger
  - reselect
  - Immutable js
  - redux + react-redux



# Enter React 16.3 New Context API

#### **Context API**

Context provides a way to pass data through the component tree without having to pass props down manually at every level.

```
1 const { Provider, Consumer } = React.createContext()
```



#### Legacy Context API\*

```
. . .
 1 class MessageList extends React.Component {
    getChildContext() {
      return {color: "purple"};
    render() {
      const children = this.props.messages.map((message) ⇒
        <Message text={message.text} />
      return <div>{children}</div>;
13 }
15 MessageList.childContextTypes = {
16 color: PropTypes.string
19 class Button extends React.Component {
20 render() {
      return (
        <button style={{background: this.context.color}}>
          {this.props.children}
        </button>
29 Button.contextTypes = {
30 color: PropTypes.string
31 };
```

\* If you want your application to be stable, don't use context. It is an experimental API and it is likely to break in future releases of React.

### Demo

https://github.com/dmmulroy/react-md-context-talk



# Spoiler Alert

(it does)

```
• • •
 1 class Provider extends Component {
       getChildContext() {
         return { [storeKey]: this[storeKey], [subscriptionKey]: null }
       constructor(props, context) {
        super(props, context)
         this[storeKey] = props.store;
       render() {
         return Children.only(this.props.children)
14 }
16 Provider.propTypes = {
      store: storeShape.isRequired,
       children: PropTypes.element.isRequired,
19 }
21 Provider.childContextTypes = {
       [storeKey]: storeShape.isRequired,
       [subscriptionKey]: subscriptionShape,
24 }
```

### To summarize

- React 16.3 introduced a new top level API for Context
- Reach for the Context API when "lifting state" starts introducing multiple levels of prop drilling
- 0 dependencies
- You might not need Redux.

## Find Me @

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