

# The State of React State in 2019

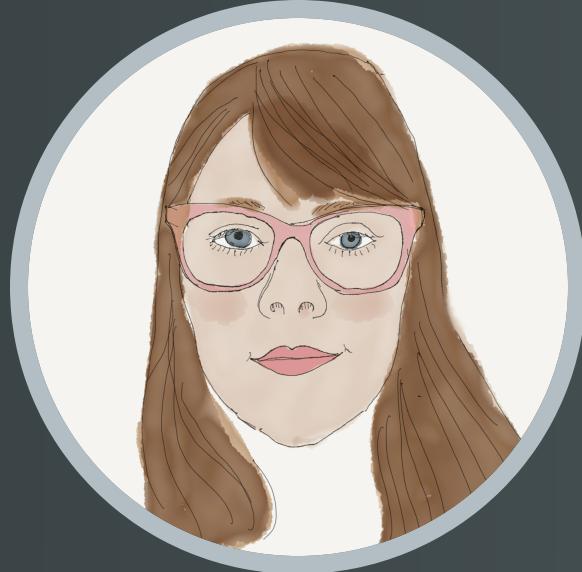
Becca Bailey • React Conf 2019

 @beccaliz

# Hi, I'm Becca!

📍 Chicago, IL

🐦 @beccaliz







ADVERTISING





Drinks Re





# Why this talk?

# The Newbie





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Upgrade

Learn Redux

*Introduction To  
State Management  
With React*

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# Learn Redux — Introduction To State Management With React

Sebastian Eschweiler [Follow](#)

May 15, 2017 · 9 min read



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# You Might Not Need Redux

Dan Abramov Follow  
Sep 19, 2016 · 3 min read

People often choose Redux before they need it. “What if our app doesn’t scale without it?” Later, developers frown at the indirection Redux introduced to their code. “Why do I have to touch three files to get a simple feature working?” Why indeed!

People blame Redux, React, functional programming, immutability, and many other things for their woes, and I understand them. It is natural to compare Redux to an approach that doesn’t require “boilerplate” code to update the state, and to conclude that Redux is just complicated. In a way it is, and by design so.

Redux offers a tradeoff. It asks you to:

- Describe application state as plain objects and arrays.



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# Redux - Not Dead Yet!

Mark Erikson Mar 29 '18 Originally published at [blog.isquaredsoftware.com](#) on Mar 29, 2018 · 7 min read

#redux #react #javascript

I'm a Redux maintainer. There's been a lot of confusion, claims, and misinformation about Redux going around lately, and I want to help clear things up.

Originally published on my blog at [blog.isquaredsoftware.com](#) as part of my "Blogged Answers" series .

## TL;DR

Is Redux dead, dying, deprecated, or about to be replaced?

64 14 45 DISCUSS ...



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?



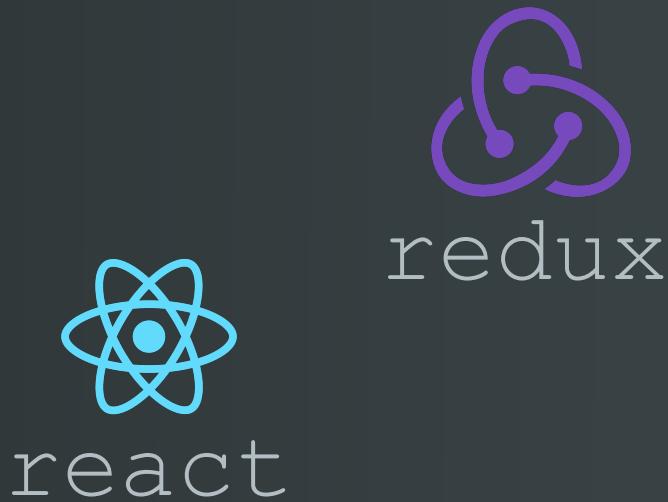
# The Loyalist

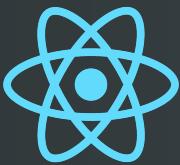


**"If it ain't broke,  
don't fix it!"**







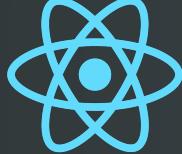


react



redux

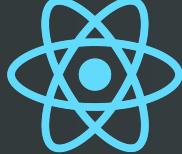


 react

 redux

 MobX





react



redux

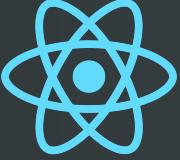


MobX



apollo



 react

 redux

context



MobX

 apollo



 react

 redux

context

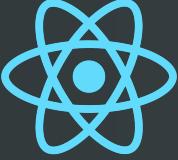


MobX

 apollo

hooks



 react

 redux

context



MobX

 apollo

hooks

XSTATE



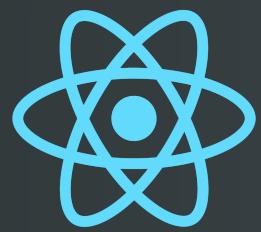


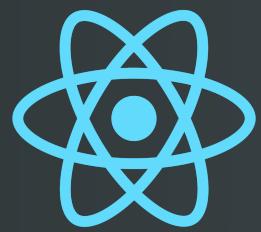
# The Explorer

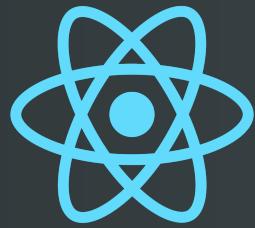






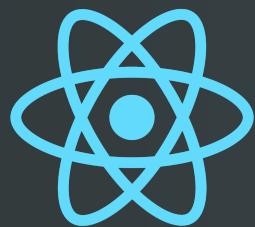


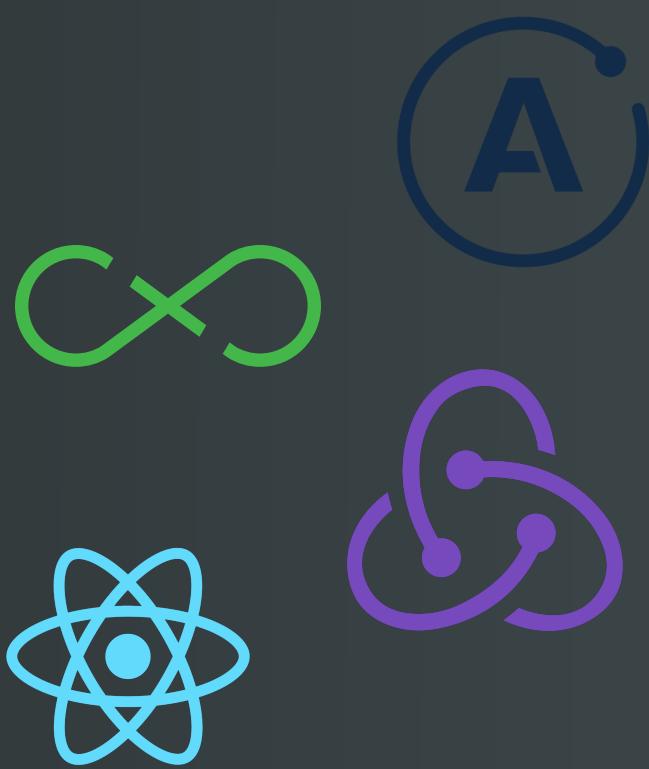


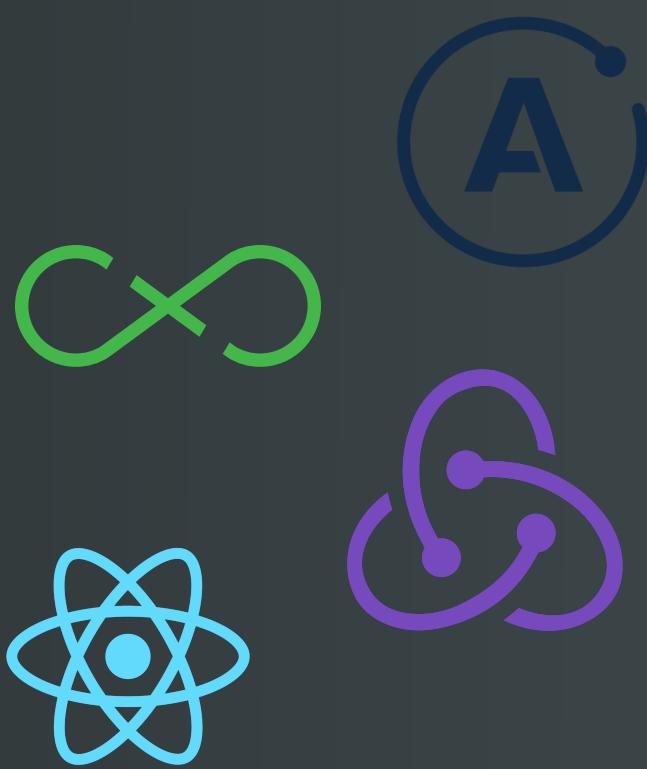


$\infty$

A





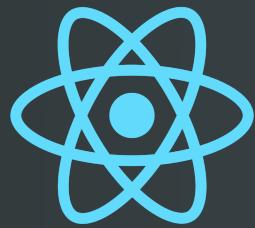


?



$\infty$

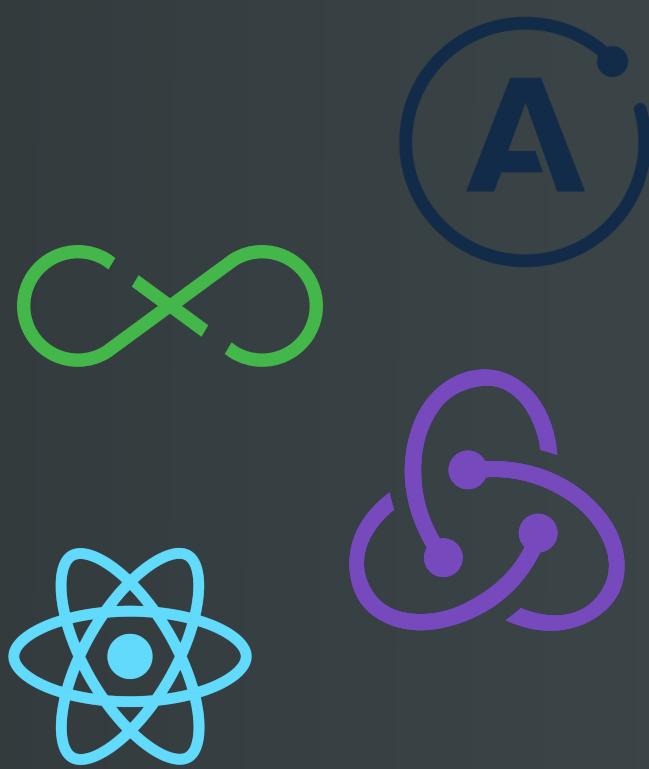
A



?

?





? ? ?

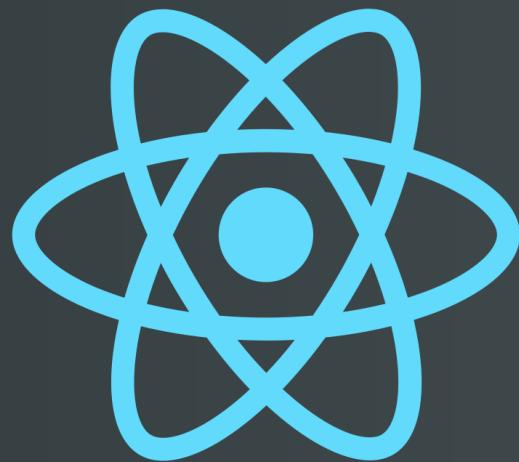


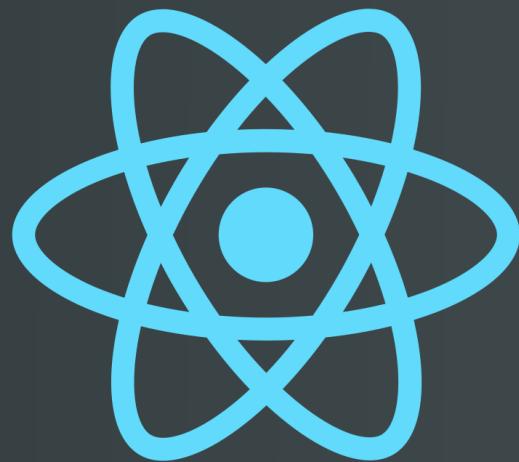


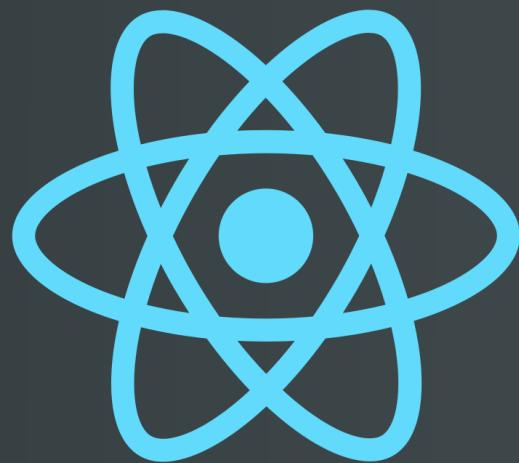


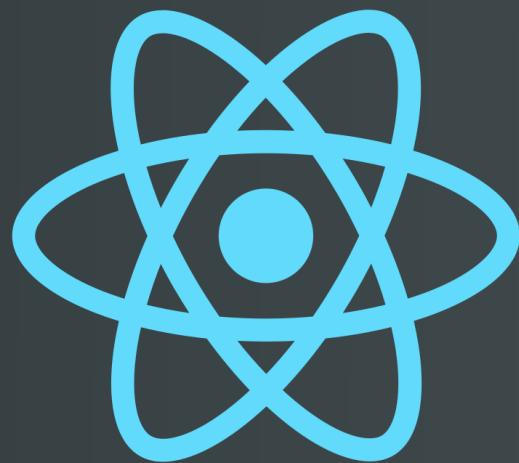














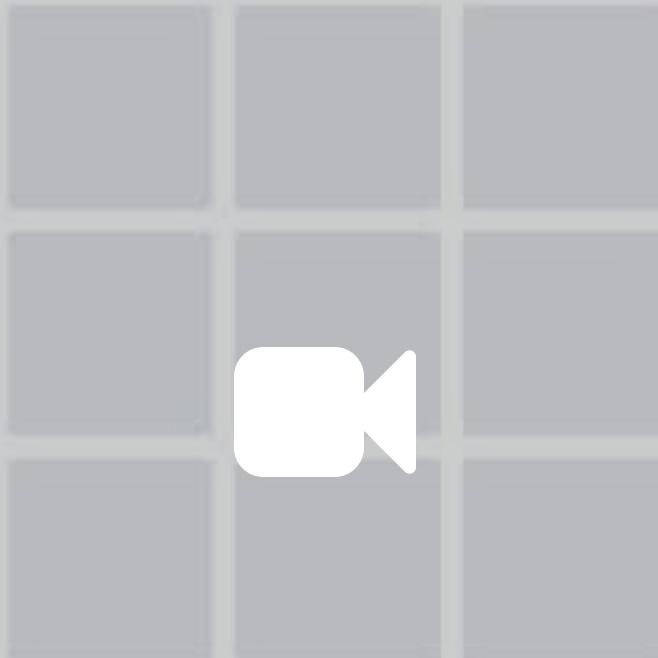
# 1. Clarify the problem

1. Clarify the problem
2. Explore some solutions

1. Clarify the problem
2. Explore some solutions
3. Make decisions

# Hello Becca!

Current Player: Becca 🐱



Reset

# State



# setState

setState

useState

# Local State

@beccaliz

X

# You win!



Yay!

```
1 class MyComponent extends React.Component {  
2     state = {  
3         visible: false  
4     };  
5  
6     showModal() {  
7         this.setState(state => ({  
8             visible: true  
9         }));  
10    }  
11  
12    hideModal() {  
13        this.setState(state => ({  
14            visible: false  
15        }));  
16    }  
17  
18    render() {  
19        ...stuff here  
20    }  
21 }
```

```
1 class MyComponent extends React.Component {  
2     state = {  
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4     };  
5  
6     showModal() {  
7         this.setState(state => ({  
8             visible: true  
9         }));  
10    }  
11  
12    hideModal() {  
13        this.setState(state => ({  
14            visible: false  
15        }));  
16    }  
17  
18    render() {  
19        ...stuff here  
20    }  
21 }
```

```
1 class MyComponent extends React.Component {  
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4     };  
5  
6     showModal() {  
7         this.setState(state => ({  
8             visible: true  
9         }));  
10    }  
11  
12    hideModal() {  
13        this.setState(state => ({  
14            visible: false  
15        }));  
16    }  
17  
18    render() {  
19        ...stuff here  
20    }  
21 }
```

```
1 const MyComponent = () => {
2   const [visible, setVisible] = React.useState(false);
3
4   function showModal() {
5     setVisible(true);
6   }
7
8   function hideModal() {
9     setVisible(false);
10  }
11
12  return (
13    ...stuff here
14  );
15};
```

```
1 const MyComponent = () => {
2   const [visible, setVisible] = React.useState(false);
3
4   function showModal() {
5     setVisible(true);
6   }
7
8   function hideModal() {
9     setVisible(false);
10  }
11
12  return (
13    ...stuff here
14  );
15};
```

```
1 const MyComponent = () => {
2   const [visible, setVisible] = React.useState(false);
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4   function showModal() {
5     setVisible(true);
6   }
7
8   function hideModal() {
9     setVisible(false);
10  }
11
12  return (
13    ...stuff here
14  );
15};
```

# Prop Drilling

```
1 // App.js
2 const App = () => {
3
4   return (
5     <Container>
6       <Game></Game>
7     </Container>
8   );
9 };
```

```
const user = {  
  id: 123,  
  firstName: "Becca",  
  lastName: "Bailey",  
  email: "beccanelsonbailey@gmail.com",  
  marker: "👤"  
}
```

```
1 // App.js
2 const App = () => {
3   const [user, updateUser] = React.useState();
4
5   React.useEffect(async () => {
6     const user = await fetchLoggedInUser();
7     updateUser(user);
8   }, [ ])
9
10  return (
11    <Container>
12      <Game user={user}></Game>
13    </Container>
14  );
15};
```

```
1 // Game.js
2 const Game = ({ user }) => {
3   const [board, updateBoard] = React.useState(EMPTY_BOARD)
4
5   function makeMove(index) {
6     updateBoard({ ...board, [index]: user.marker })
7   }
8
9   return (
10     <React.Fragment>
11       <h1>Hello {user.name}!</h1>
12       <Board board={board} makeMove={makeMove} />
13     </React.Fragment>
14   );
15 };
```

```
1 // Game.js
2 const Game = ({ user }) => {
3   const [board, updateBoard] = React.useState(EMPTY_BOARD)
4
5   function makeMove(index) {
6     updateBoard({ ...board, [index]: user.marker })
7   }
8
9   return (
10     <React.Fragment>
11       <Greeting user={user} />
12       <Board board={board} makeMove={makeMove} />
13     </React.Fragment>
14   );
15 };
```

# Repetition



×

# You win!



Yay!



X



# Error!



Oh no!

showModal

modalOpen

modalIsVisible

modalIsOpen

modalVisible





X

# You win!



Yay!

X

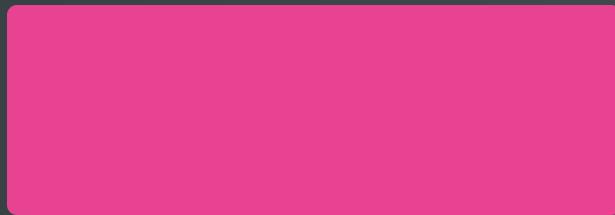
X

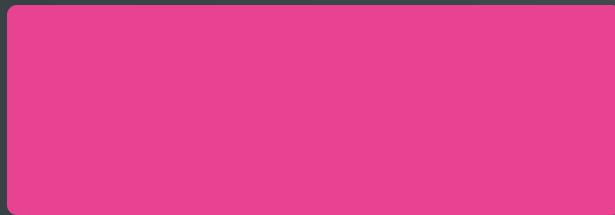
# ! Error!



Oh no!









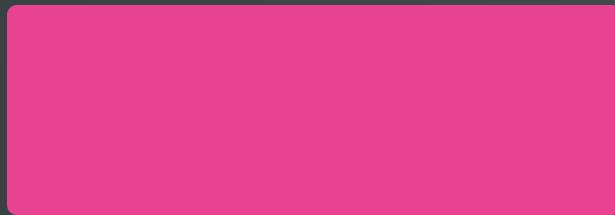


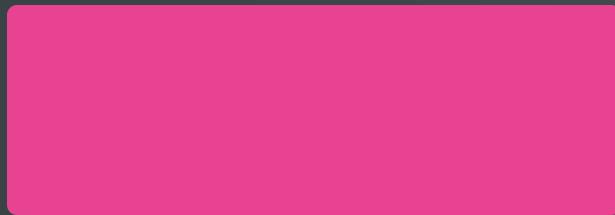
local state

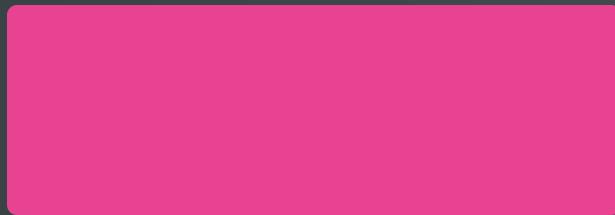


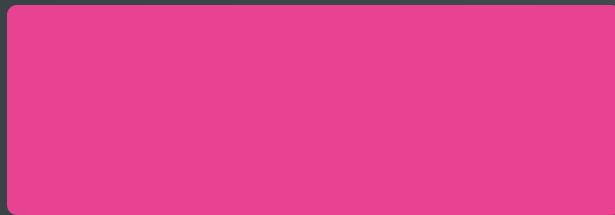
# Global state





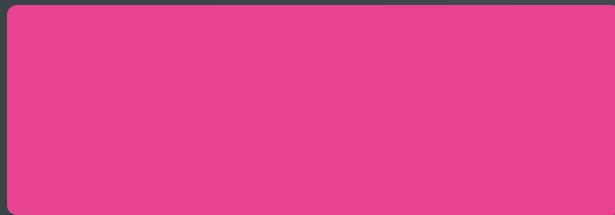


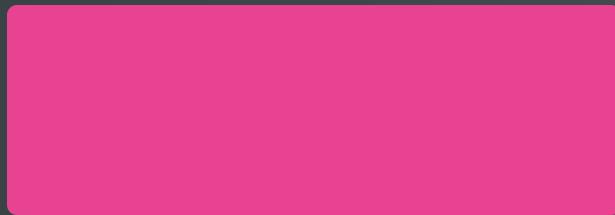


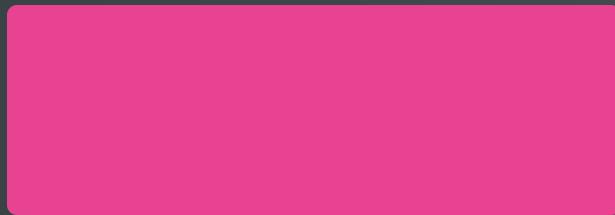


global  
state











semi-local  
state



# Flux Architecture



action



action

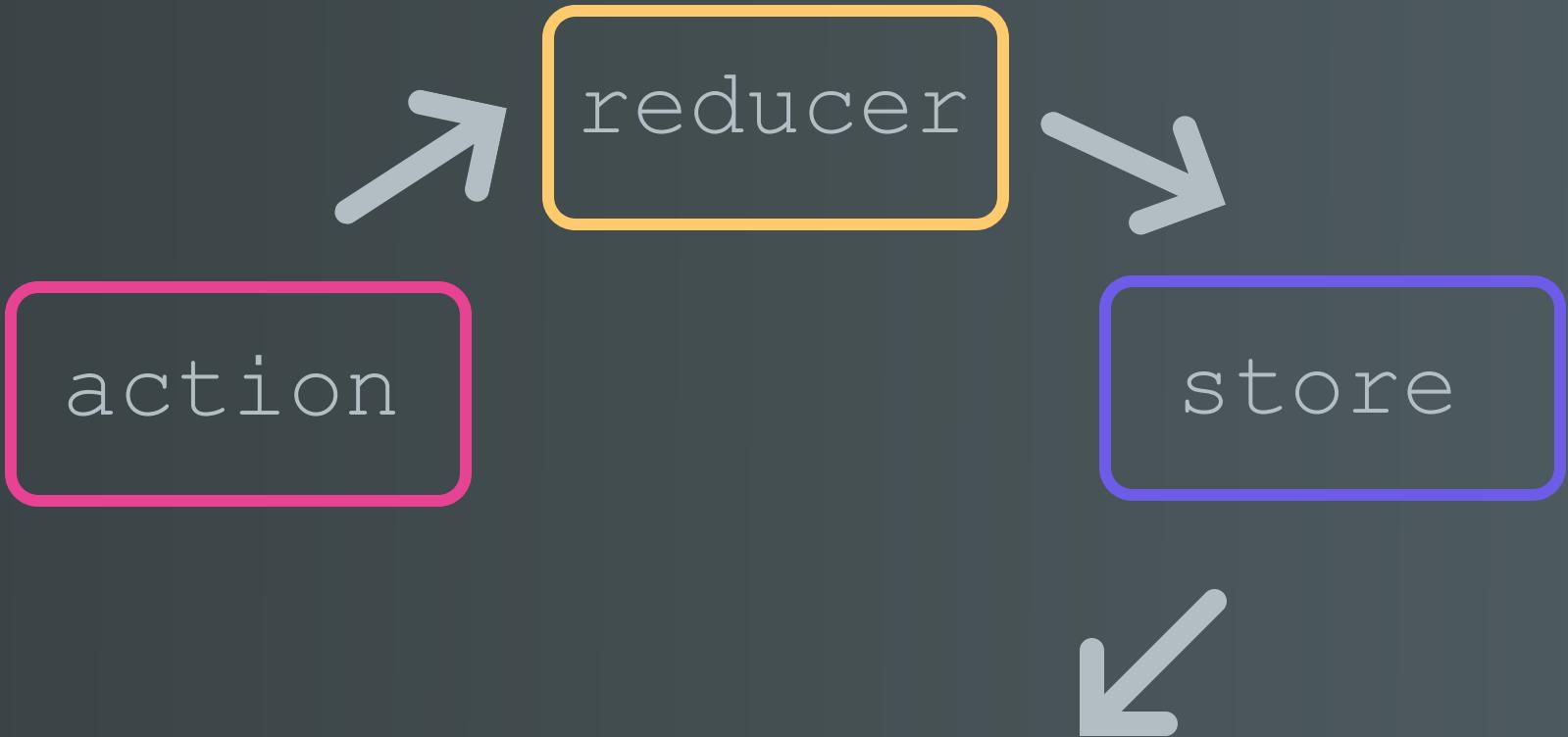
```
graph LR; action[action] --> reducer[reducer]
```

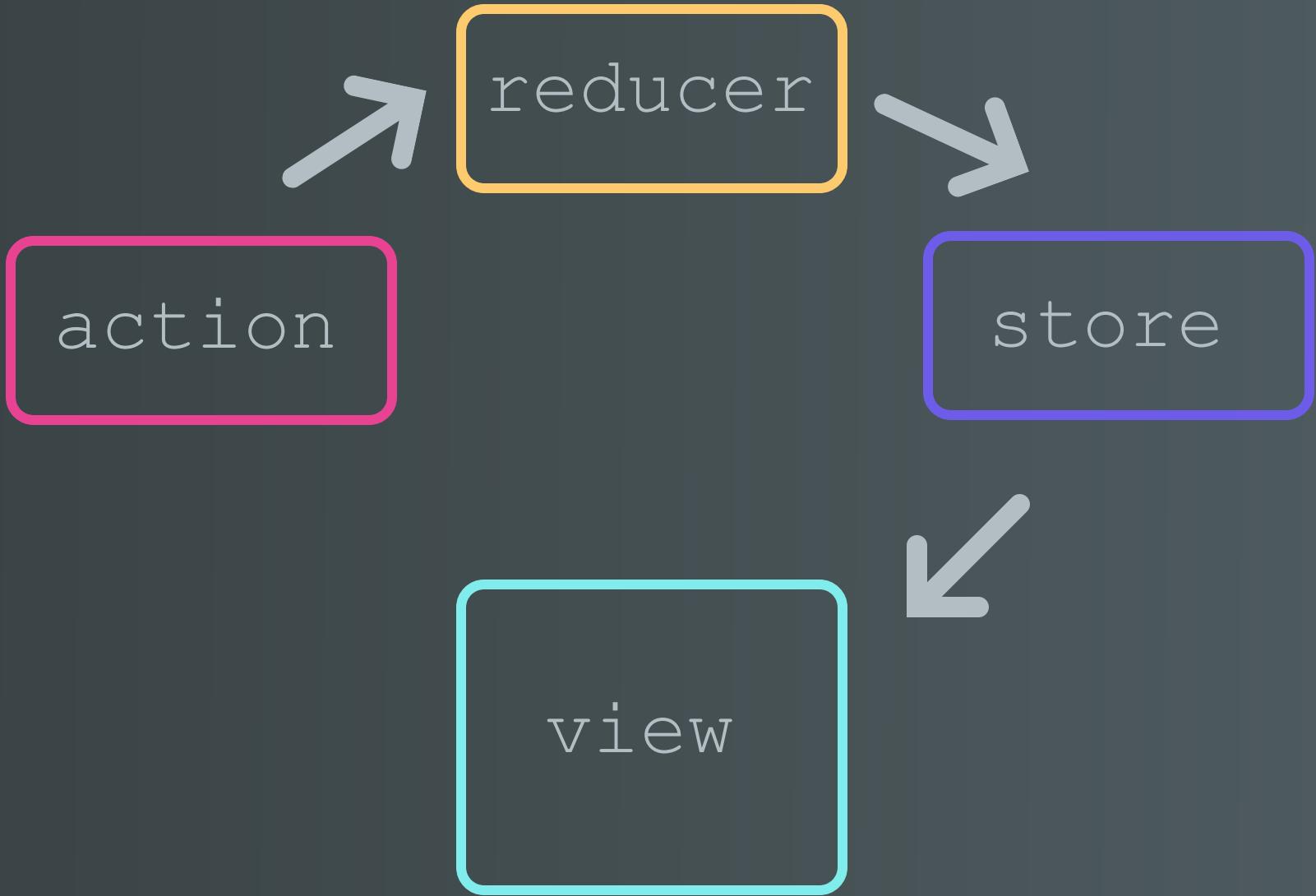
reducer

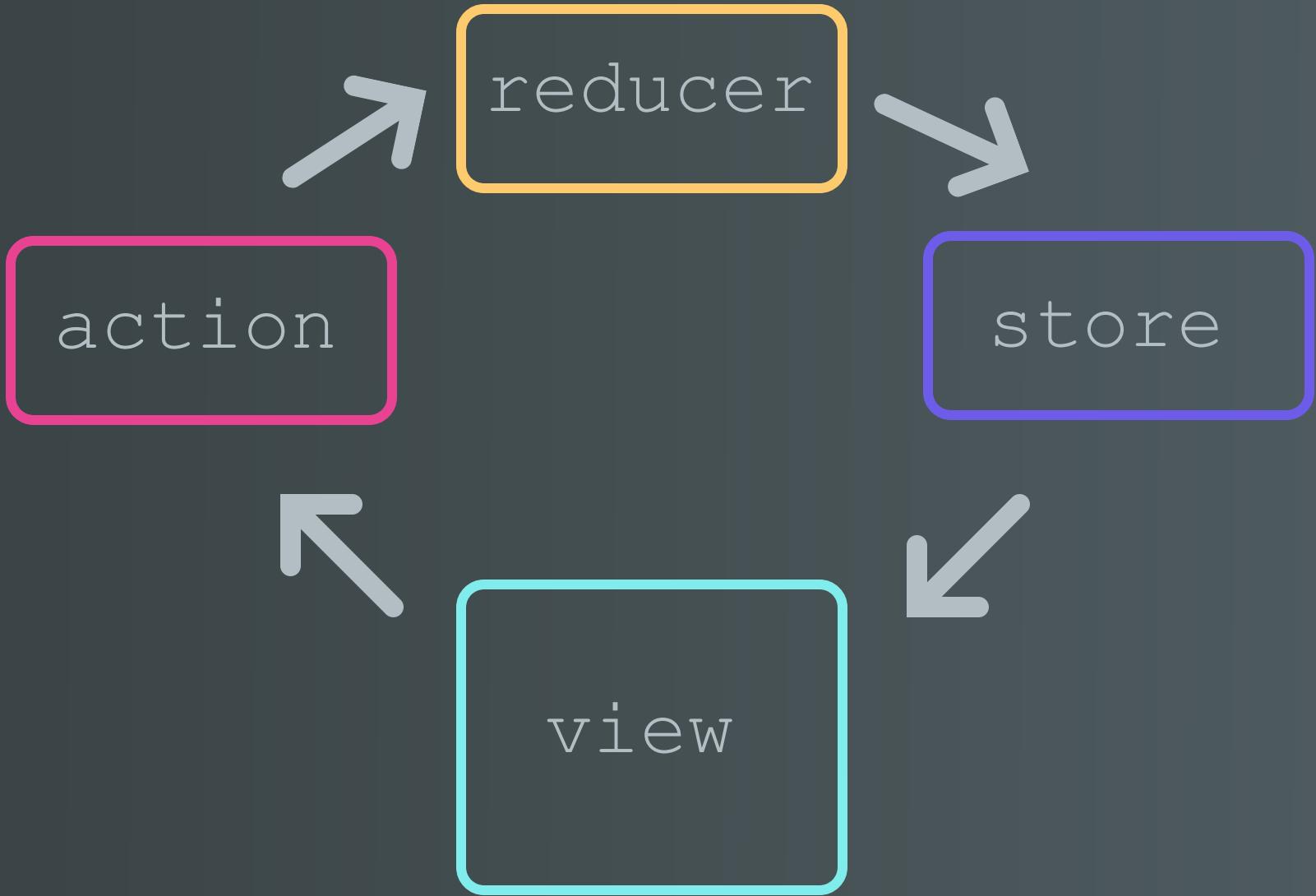
action











```
1 // actions.js
2 export function makeMove(index) {
3     return {
4         type: "MAKE_MOVE",
5         payload: { index }
6     };
7 }
8
9 // reducers.js
10 const game = (state = getInitialState(), action) => {
11     switch (action.type) {
12         case "MAKE_MOVE": {
13             const { index } = action.payload;
14             return {
15                 ...state,
16                 board: {
17                     ...state.board,
18                     [index]: state.currentPlayer.marker,
19                 }
20             };
21         }
22         default:
23             return state;
24     }
25 }
```

```
1 // actions.js
2 export function makeMove(index) {
3   return {
4     type: "MAKE_MOVE",
5     payload: { index }
6   };
7 }
8
9 // reducers.js
10 const game = (state = getInitialState(), action) => {
11   switch (action.type) {
12     case "MAKE_MOVE": {
13       const { index } = action.payload;
14       return {
15         ...state,
16         board: {
17           ...state.board,
18           [index]: state.currentPlayer.marker,
19         }
20       };
21     }
22     default:
23       return state;
24   }
25 }
```

```
1 // Game.js
2 function mapStateToProps({ board }) {
3   return board;
4 }
5
6 function mapDispatchToProps(dispatch) {
7   return {
8     makeMove: (index) => {
9       dispatch(makeMove(index));
10    }
11  };
12 }
13
14 export default connect(
15   mapStateToProps,
16   mapDispatchToProps
17 )(Game);
```

```
1 // Game.js
2 function mapStateToProps({ board }) {
3   return board;
4 }
5
6 function mapDispatchToProps(dispatch) {
7   return {
8     makeMove: (index) => {
9       dispatch(makeMove(index));
10    }
11  };
12 }
13
14 export default connect(
15   mapStateToProps,
16   mapDispatchToProps
17 )(Game);
```

```
1 // Game.js
2 function mapStateToProps({ board }) {
3   return board;
4 }
5
6 function mapDispatchToProps(dispatch) {
7   return {
8     makeMove: (index) => {
9       dispatch(makeMove(index));
10    }
11  };
12 }
13
14 export default connect(
15   mapStateToProps,
16   mapDispatchToProps
17 )(Game);
```





*Becca played at spot 0*



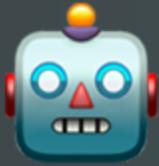
*Becca played at spot 0*



*Computer played at spot 4*



*Becca played at spot 0*



*Computer played at spot 4*



*Becca played at spot 7*



*Becca played at spot 0*



*Computer played at spot 4*



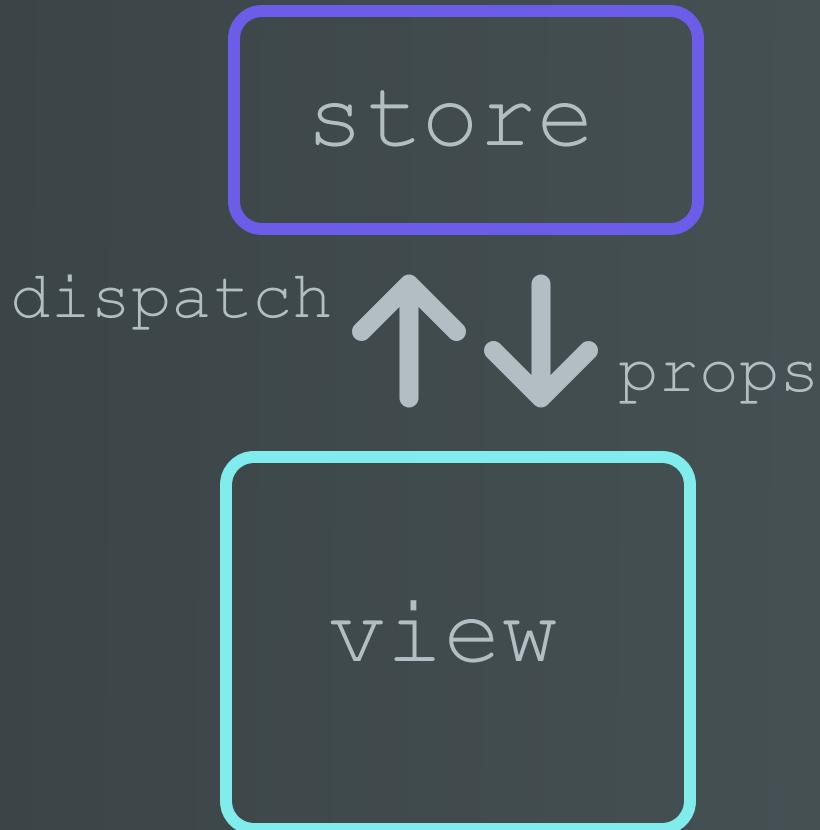
*Becca played at spot 7*

*Computer played at spot 3*

```
1 // actions.js
2 export function makeMove(index) {
3   return {
4     type: "MAKE_MOVE",
5     payload: { index }
6   };
7 }
8
9 // reducers.js
10 const game = (state = getInitialState(), action) => {
11   switch (action.type) {
12     case "MAKE_MOVE": {
13       const { index } = action.payload;
14       return {
15         ...state,
16         board: {
17           ...state.board,
18           [index]: state.currentPlayer.marker,
19         }
20       };
21     }
22     default:
23       return state;
24   }
25 }
```



# connected



# connected

# presentational

store

dispatch



props

parent

props

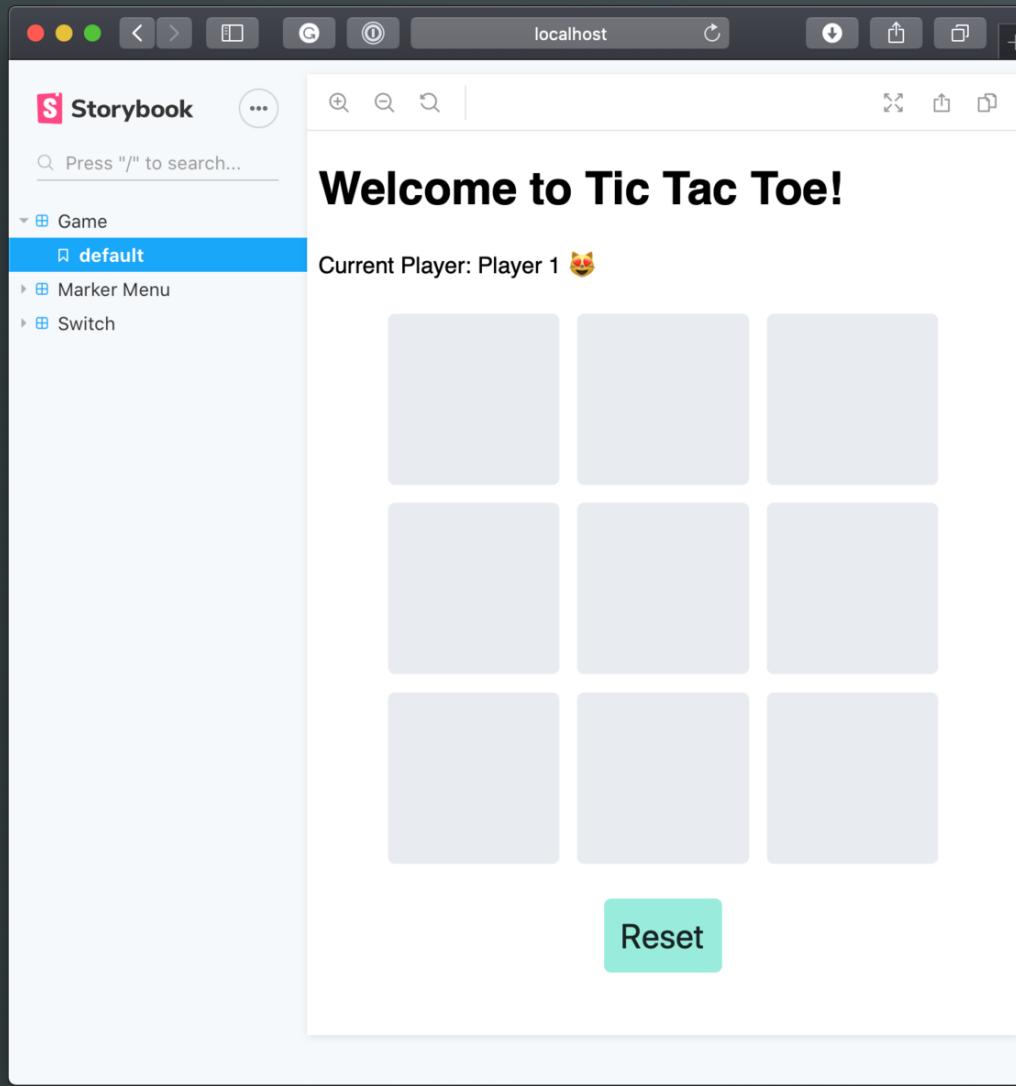
view

view



# 👍 Separation of Concerns 👍

👎 Too much abstraction 👎



```
// Board.test.tsx

it("handles click events", () => {
  const props = {
    makeMove: jest.fn(),
    board: DEFAULT_BOARD
  };

  const { queryAllByRole } = render(<Board {...props}></Board>);

  fireEvent.click(queryAllByRole("button")[0]);

  expect(props.makeMove).toHaveBeenCalledWith(0);
});
```

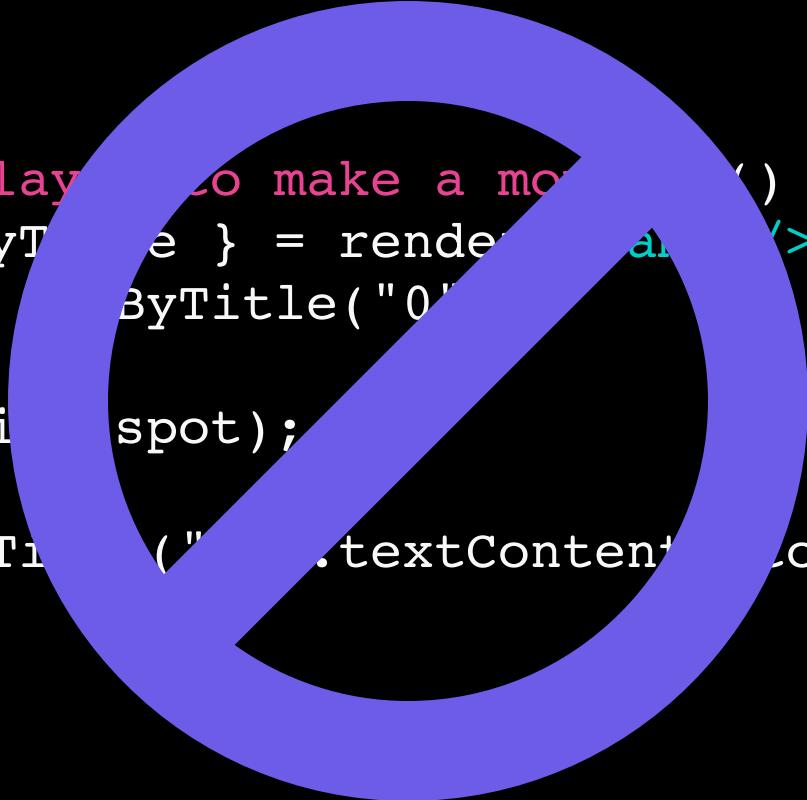
```
// reducers.test.js

it("updates the board state", () => {
  expect(
    reducer(initialState, {
      type: "MAKE_MOVE",
      payload: { index: 2 }
    })
  ).toEqual({
    ...initialState,
    board: createBoard(`

      - - X
      - - -
      - - -
    `),
  });
});
```

```
1 it("allows a player to make a move", () => {
2   const { getByTitle } = render(<Game />);
3   const spot = getByTitle("0");
4
5   fireEvent.click(spot);
6
7   expect(getByTitle("0").textContent).toEqual("😺");
8 }) ;
```

```
1 it("allows a player to make a move", () => {
2   const { getByTitle } = render(<Game />);
3   const spot = getByTitle("0");
4
5   fireEvent.click(spot);
6
7   expect(getByTitle("0").textContent).toEqual("😺");
8 }) ;
```



```
1 it("allows a player to make a move", () => {
2   const { getByTitle } = render();
3   const spot = getByTitle("0");
4
5   fireEvent.click(spot);
6
7   expect(getByTitle("0").textContent).toEqual("😺");
8 });
```

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Home > React > Redux-form is dead

React

# Redux-form is dead

By Mateusz - January 9, 2018 36667 13

f t G+ p



**Well, not exactly. But the project itself isn't doing very well and may kill your's app performance and act in a way which you don't expect it to. Here's quick and concise rant after rewriting the app to get rid of redux-form. And here's the reason why.**

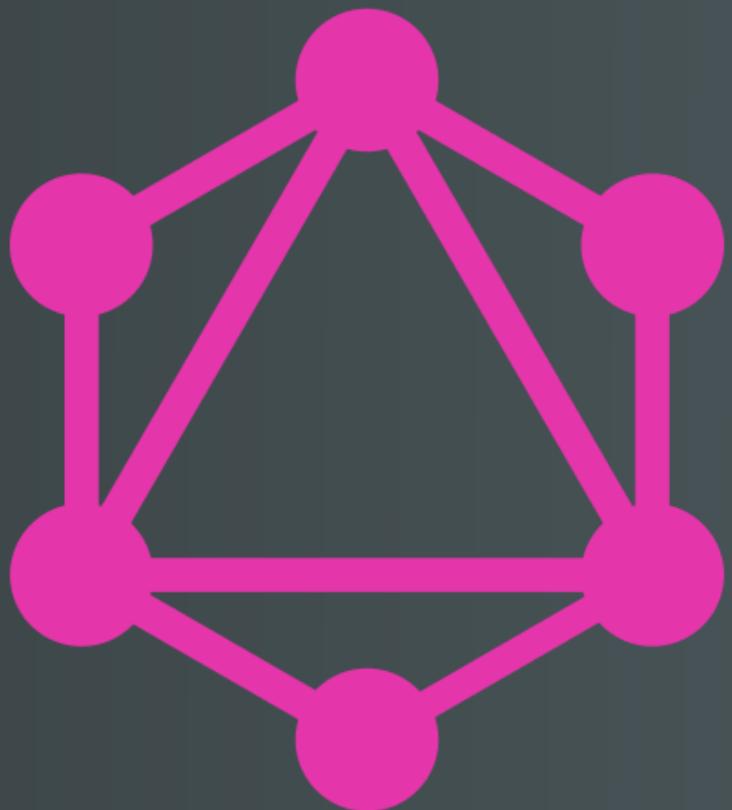
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👍 Local State 👍



👎 Prop Drilling 👎

👎 Prop Drilling 👎

👎 Duplication 👎



# ✨ Higher Order Components ✨

✨ Higher Order Components ✨

✨ Render Props ✨

```
1 <ModalManager>
2   {({ showModal, hideModal, visible }) => (
3     <React.Fragment>
4       <Button onClick={() => showModal()}>Click me!</Button>
5       <Modal visible={visible}>
6         <h1>You win!</h1>
7         <Button onClick={() => hideModal()}>Close</Button>
8       </Modal>
9     </React.Fragment>
10   )}
11 </ModalManager>
```

```
1 <ModalManager>
2   {({ showModal, hideModal, visible }) => (
3     <React.Fragment>
4       <Button onClick={() => showModal()}>Click me!</Button>
5       <Modal visible={visible}>
6         <h1>You win!</h1>
7         <Button onClick={() => hideModal()}>Close</Button>
8       </Modal>
9     </React.Fragment>
10   )}
11 </ModalManager>
```

```
1 const ModalManager = ({ children }) => {
2   const [visible, setVisible] = React.useState(false);
3
4   function showModal() {
5     setVisible(true)
6   };
7
8   function hideModal {
9     setVisible(false)
10  };
11
12  render() {
13    return (
14      <React.Fragment>
15        {children({ visible, showModal, hideModal })}
16      </React.Fragment>
17    )
18  }
19 }
```

```
1 const ModalManager = ({ children }) => {
2   const [visible, setVisible] = React.useState(false);
3
4   function showModal() {
5     setVisible(true)
6   };
7
8   function hideModal {
9     setVisible(false)
10  };
11
12  render() {
13    return (
14      <React.Fragment>
15        {children({ visible, showModal, hideModal })}
16      </React.Fragment>
17    )
18  }
19 }
```

```
1 <Query query={LOGGED_IN_USER}>
2   ({ loading, error, data }) => {
3     if (loading) {
4       return <Spinner />;
5     }
6     if (error) {
7       return <Error message={error} />;
8     }
9     return <Profile user={data}/>;
10   }
11 </Query>
```

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2   ({ loading, error, data }) => {
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4       return <Spinner />;
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```

```
1 <Container>
2   <Query query={LOGGED_IN_USER}>
3     {({ loading, error, data }) => {
4       if (data) {
5         return (
6           <ModalManager>
7             {({ showModal, hideModal, visible }) => {
8               return (
9                 <React.Fragment>
10                  <Button onClick={() => showModal()}>Click me!</Button>
11                  {visible && (
12                    <Modal>
13                      <h1>Hello {data.user.name}!</h1>
14                      <Button onClick={() => hideModal()}>Close</Button>
15                    </Modal>
16                  )})
17                  </React.Fragment>
18                );
19              }})
20            </ModalManager>
21          )
22        }
23      }})
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18                );
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17                  </React.Fragment>
18                );
19              }})
20            </ModalManager>
21          )
22        }
23      })
24    </Query>
25 </Container>
```

```
1 // Game.js
2 function mapStateToProps({ board }) {
3   return board;
4 }
5
6 function mapDispatchToProps(dispatch) {
7   return {
8     makeMove: (index) => {
9       dispatch(makeMove(index));
10    }
11  };
12 }
13
14 export default connect(
15   mapStateToProps,
16   mapDispatchToProps
17 )(Game);
```

```
1 export default withRouter(  
2   withTheme(  
3     withSomeOtherState(  
4       connect(  
5         mapStateToProps,  
6         mapDispatchToProps  
7         )(Game)  
8       )  
9     )  
10 );
```

```
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3     withSomeOtherState(  
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7         )(Game)  
8       )  
9     )  
10 );
```

# ✨ Context ✨



provider  
state      helpers

A diagram illustrating a component architecture. At the top, the words "provider", "state", and "helpers" are arranged horizontally. Below them, a large rectangular box contains the word "view". The entire arrangement is enclosed within a thick, L-shaped border composed of two adjacent colored lines: a purple line on the left and a cyan line on the right.

provider

state      helpers

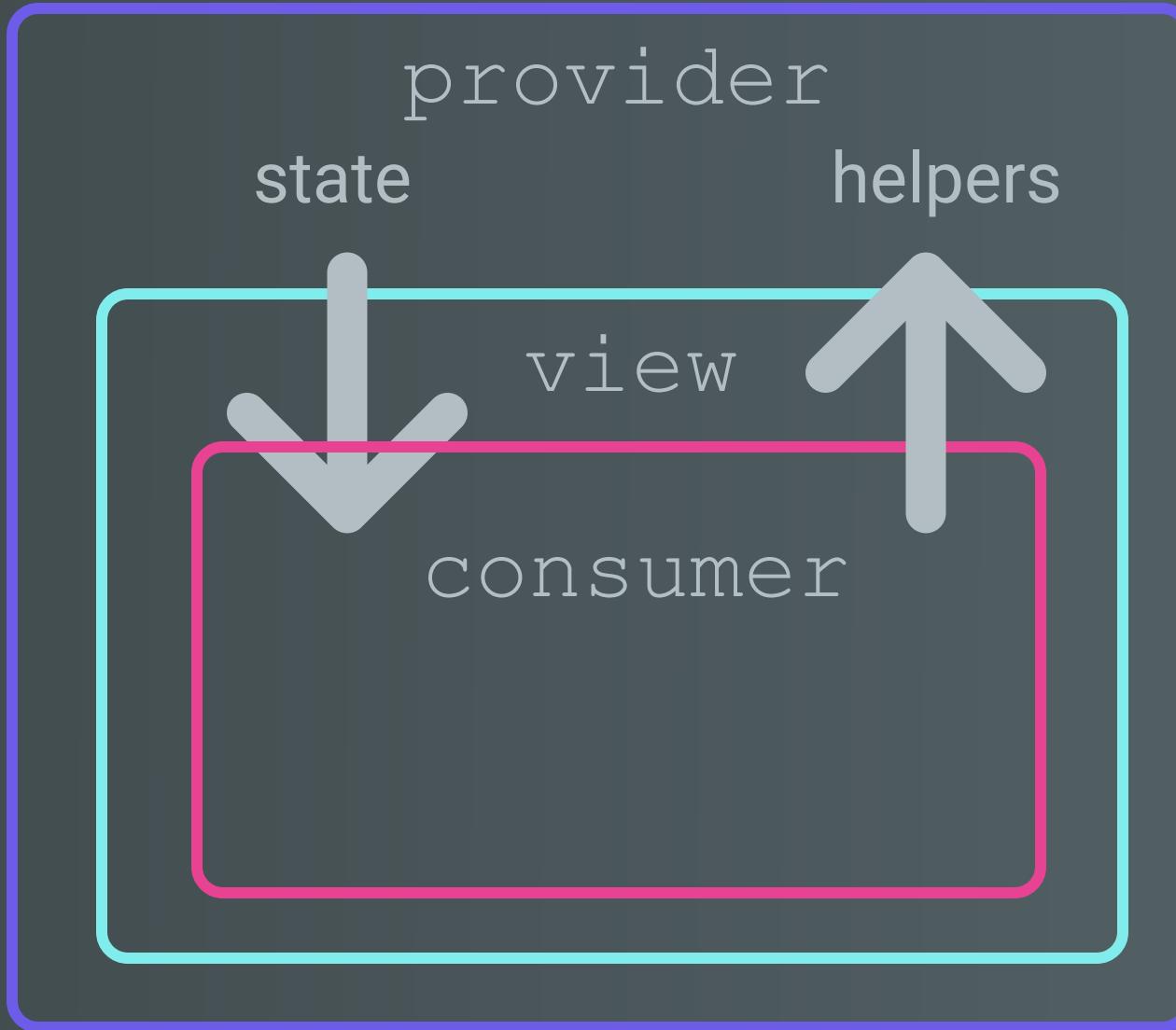
view

A diagram illustrating component nesting. It consists of five nested rectangular boxes. The outermost box is purple and contains the words "provider", "state", and "helpers". Inside it is a light blue box containing the word "view". Inside the "view" box is a pink box containing the word "consumer".

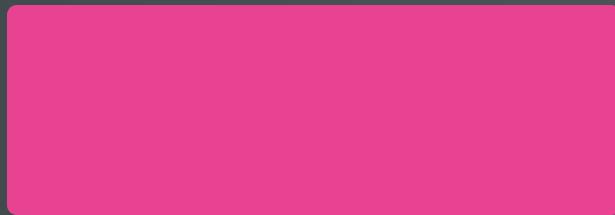
provider  
state      helpers

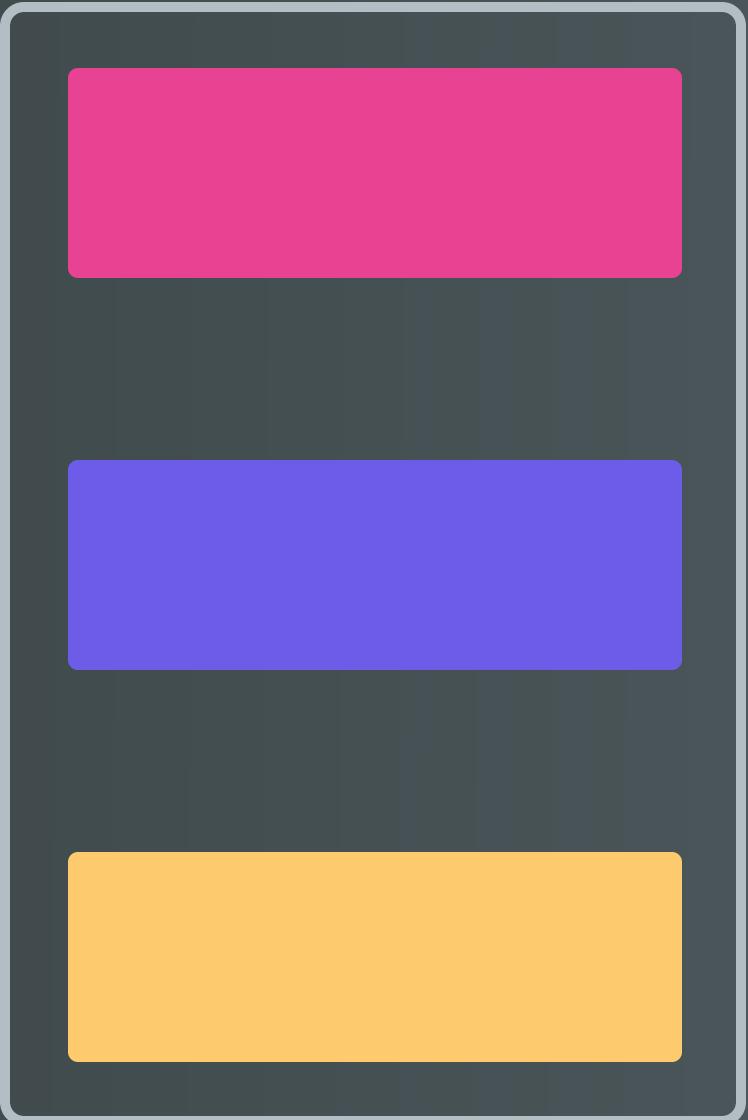
view

consumer

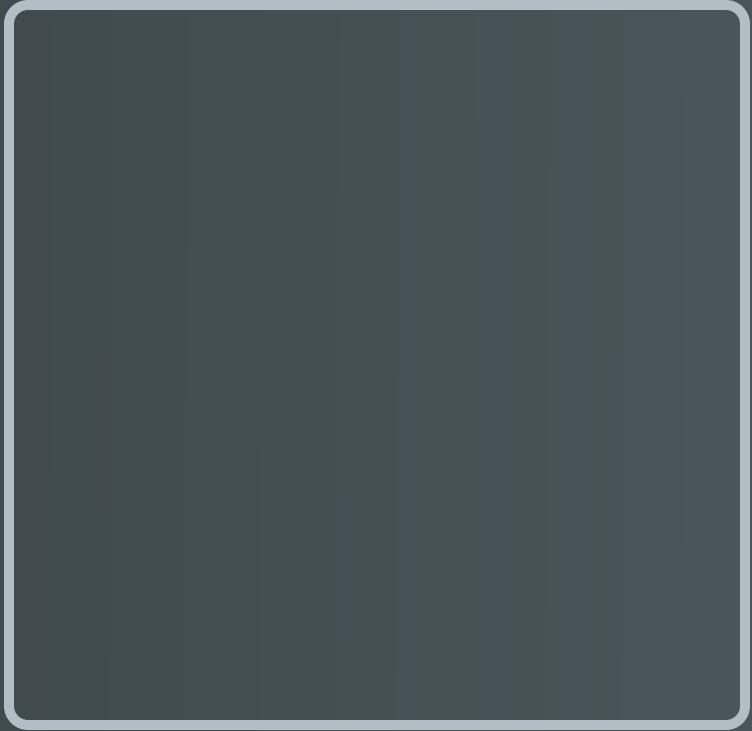


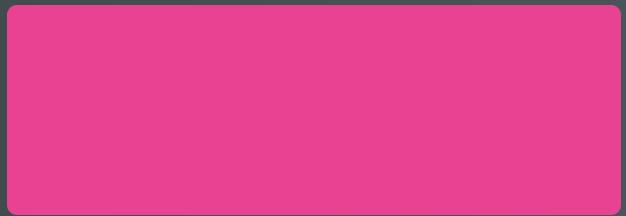


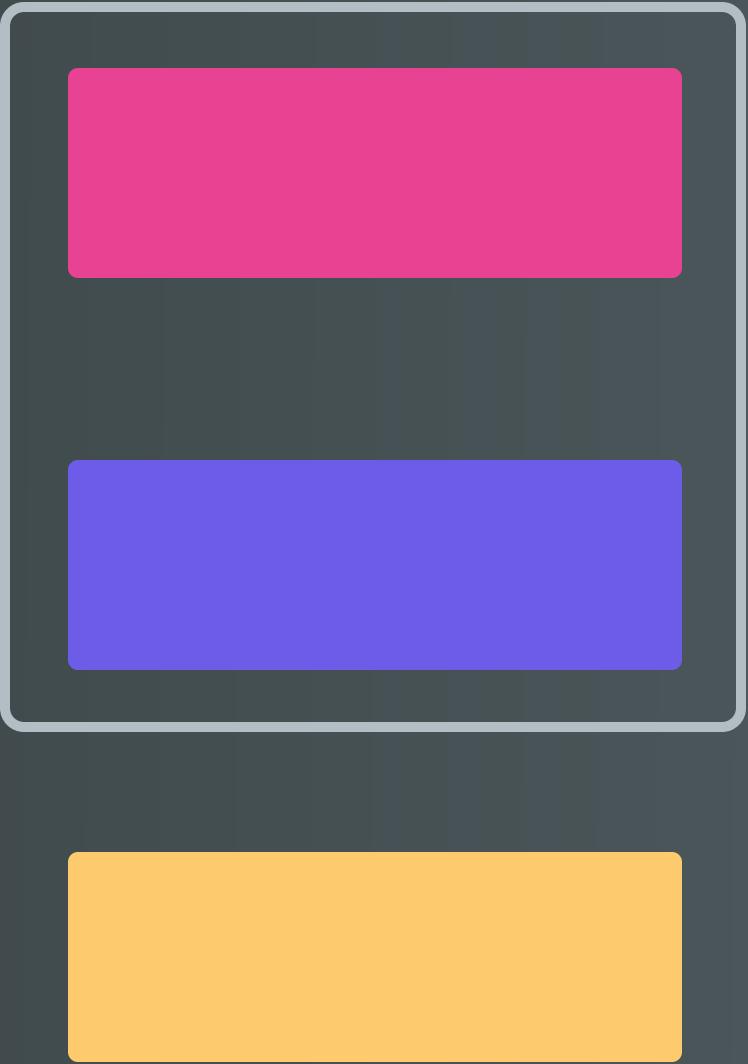




context  
provider







```
graph LR; CP[context provider] --- P[pink component]; CP --- B[blue component]; CP --- Y[yellow component]
```

context  
provider

```
1 // GreetingModal.js
2 function GreetingModal() {
3   const { user } = React.useContext(LoggedInUserContext);
4   const { hideModal } = React.useContext(ModalContext);
5
6   return (
7     <Modal id="greeting">
8       <h1>Hello {user.name}!</h1>
9       <Button onClick={() => hideModal()}>Close</Button>
10    </Modal>
11  )
12 }
```

```
1 // GreetingModal.js
2 function GreetingModal() {
3   const { user } = React.useContext(LoggedInUserContext);
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8       <h1>Hello {user.name}!</h1>
9       <Button onClick={() => hideModal()}>Close</Button>
10    </Modal>
11  )
12 }
```

```
1 const ModalProvider = ({ children }) => {
2   const [visible, setVisible] = React.useState(false);
3
4   function showModal() {
5     setVisible(true)
6   };
7
8   function hideModal {
9     setVisible(false)
10  };
11
12  render() {
13    return (
14      <ModalContext.Provider values={{ visible, showModal, hideModal }}>
15        {children}
16      </ModalContext.Provider>
17    );
18  }
19 }
```

```
1 const ModalProvider = ({ children }) => {
2   const [visible, setVisible] = React.useState(false);
3
4   function showModal() {
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6   };
7
8   function hideModal {
9     setVisible(false)
10  };
11
12  render() {
13    return (
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15        {children}
16      </ModalContext.Provider>
17    );
18  }
19 }
```

# ✨ Hooks ✨

```
1 // reducers/game.js
2 function useGame(initialState) {
3   const [game, dispatch] = React.useReducer(gameReducer);
4
5   function makeMove(index) {
6     return dispatch({ type: "MAKE_MOVE", payload: index })
7   }
8
9   return { game, makeMove };
10 }
```

```
1 // reducers/game.js
2 function useGame(initialState) {
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4
5   function makeMove(index) {
6     return dispatch({ type: "MAKE_MOVE", payload: index })
7   }
8
9   return { game, makeMove };
10 }
```

```
1 function gameReducer(state, action) {
2   switch (action.type) {
3     case "MAKE_MOVE": {
4       const index = action.payload;
5       const { currentPlayer, players } = state;
6       const nextPlayer = switchPlayer(currentPlayer, players);
7       return {
8         ...state,
9         board: {
10           [index]: currentPlayer.marker,
11           currentPlayer: nextPlayer,
12           //...etc
13         }
14       };
15     }
16     default: {
17       return state;
18     }
19   }
20 }
```

```
it("allows a player to make a move", () => {
  const { getByTitle } = render(<Game />);
  const spot = getByTitle("0");

  fireEvent.click(spot);

  expect(getByTitle("0").textContent).toEqual("😺");
});
```

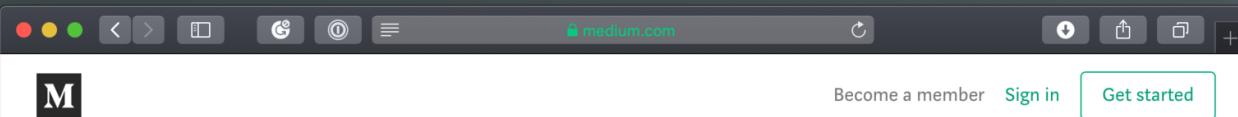
Do you need Redux?

# Complexity

# MobX?



 @beccaliz

A screenshot of a web browser window showing the Medium.com homepage. The address bar at the top displays 'medium.com'. The main content area features a large, bold title 'You Might Not Need Redux' in black serif font. Below the title is a circular profile picture of a man, followed by the name 'Dan Abramov' and a 'Follow' button. To the right of the title are three small buttons: 'Become a member', 'Sign in', and a green-bordered 'Get started' button.

# You Might Not Need Redux



Dan Abramov [Follow](#)  
Sep 19, 2016 · 3 min read

People often choose Redux before they need it. “What if our app doesn’t scale without it?” Later, developers frown at the indirection Redux introduced to their code. “Why do I have to touch three files to get a simple feature working?” Why indeed!

People blame Redux, React, functional programming, immutability, and many other things for their woes, and I understand them. It is natural to compare Redux to an approach that doesn’t require “boilerplate” code to update the state, and to conclude that Redux is just complicated. In a way it is, and by design so.

Redux offers a tradeoff. It asks you to:

- Describe application state as plain objects and arrays.



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DEV search WRITE A POST

# Redux - Not Dead Yet!

Mark Erikson Mar 29 '18 Originally published at [blog.isquaredsoftware.com](#) on Mar 29, 2018 · 7 min read

#redux #react #javascript

I'm a Redux maintainer. There's been a lot of confusion, claims, and misinformation about Redux going around lately, and I want to help clear things up.

Originally published on my blog at [blog.isquaredsoftware.com](#) as part of my “Blogged Answers” series .

## TL;DR

Is Redux dead, dying, deprecated, or about to be replaced?

64 14 45 DISCUSS



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Home > React > Redux-form is dead

React

# Redux-form is dead

By Mateusz - January 9, 2018 36667 13

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**Well, not exactly. But the project itself isn't doing very well and may kill your's app performance and act in a way which you don't expect it to. Here's quick and concise rant after rewriting the app to get rid of redux-form. And here's the reason why.**

Leave your e-mail address and join **500 other subscribers** who receive weekly, curated list of Frontend related links and news.



# How do we choose?



You don't have to choose  
just one.

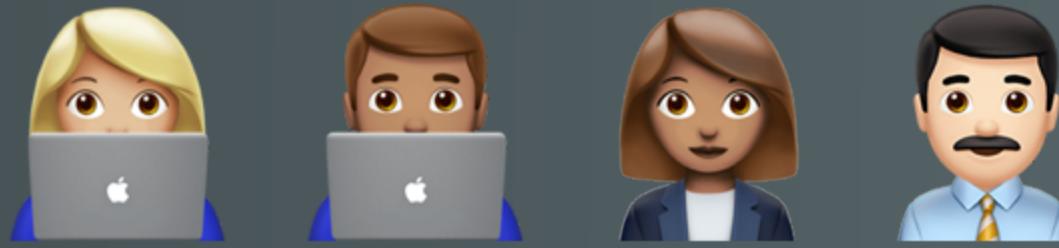
# What is the scope of the state?

Is there a commonly-used  
library that can help?

# Am I repeating myself?

# Incremental Changes





















# The Newbie



# The Loyalist



# The Explorer



✨ **Thank you!!** ✨

 @beccaliz

 **becca.is**

**Slides:**