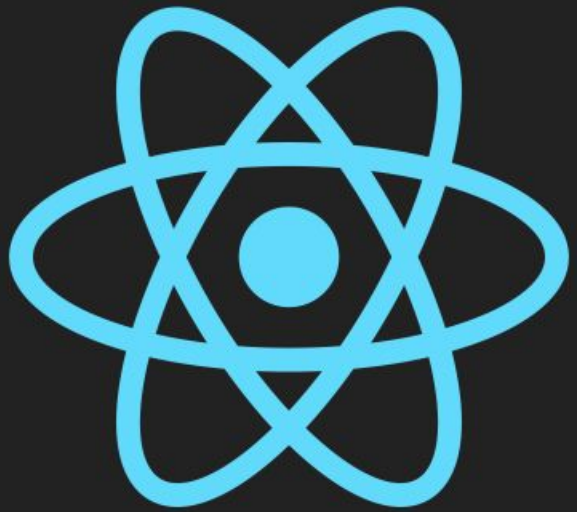
Атвинта

GoodLine
Оператор связи Кузбасса



Разработка на React.js

Компонент - это функция

```
const GreetWorld = props => (
  <h1>{props.greeting}, World!</h1>
);

const MOUNT_NODE = document.getElementById('app')

ReactDOM.render(
  <GreetWorld greeting="Hello" />, MOUNT_NODE
);
```

Приложение - это function от state

```
function App(state) {
    // view от state
}
```

React 💙 FP

React != Reactivity

Виды компонентов

Functional components

Stateless components


const UsersList = ({ users }) => (

{users.map(user =>
<li key={user.id}>{user.name}
)}

);

Container components

Stateful components

```
class GithubUsers extends Component {
  state = {
    users: []
  };

  componentDidMount() {
    fetch('api.github.com/users')
      .then(response => response.json())
      .then((users) => {
        this.setState({ users })
      });
  }

  render() {
    <UsersList users={this.state.users} />
  }
}
```

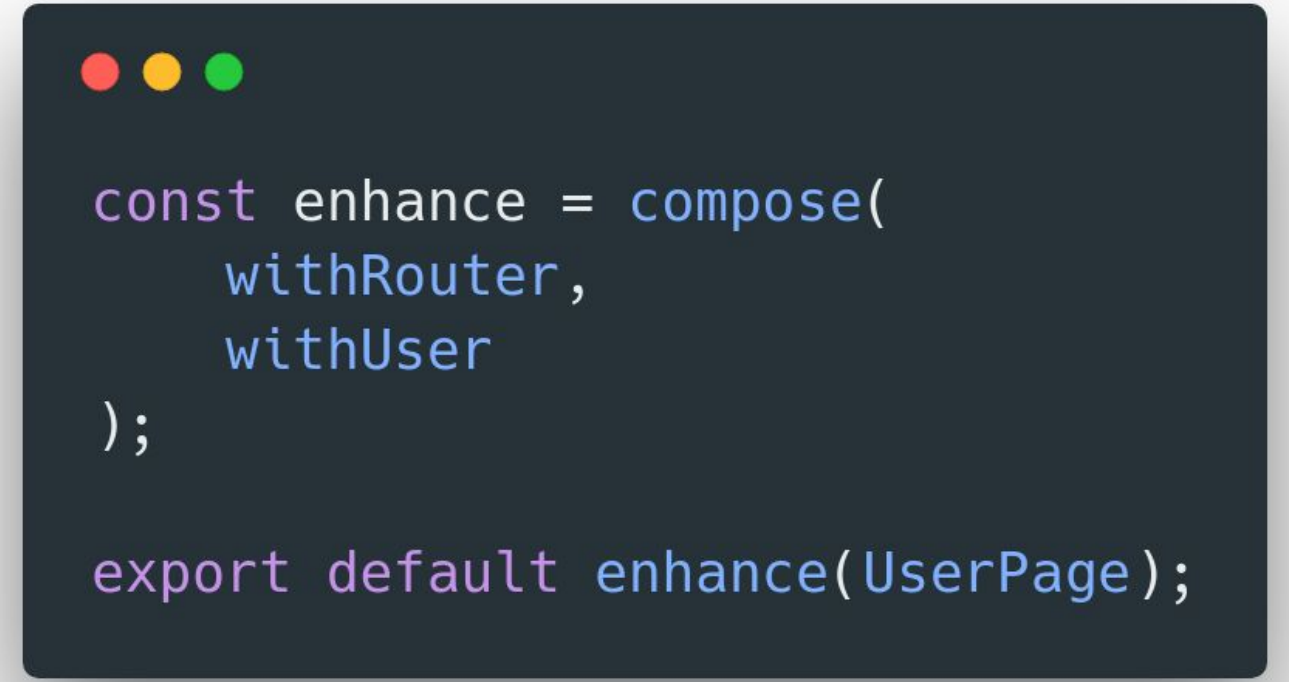
React.Context

Provider & Consumer

```
const ThemeContext = React.createContext('light')

class ThemeProvider extends React.Component {
  state = {theme: 'light'}
  render() {
    return (
      <ThemeContext.Provider value={this.state.theme}>
        {this.props.children}
      </ThemeContext.Provider>
    )
  }
}

const App = () => (
  <ThemeProvider>
    <ThemeContext.Consumer>
      {theme => <Button theme={theme}>Click</Button>}
    </ThemeContext.Consumer>
  </ThemeProvider>
);
```

Higher-Order Components

(HOC)


const enhance = compose(
withRouter,
withUser
);
export default enhance(UserPage);

```
const enhance = compose(
  withState('value', 'updateValue', ''),
  withHandlers({
    onChange: props => event => {
      props.updateValue(event.target.value)
    },
    onSubmit: props => event => {
      event.preventDefault()
      submitForm(props.value)
    }
  })
)

const Form = enhance(({ value, onChange, onSubmit }) =>
  <form onSubmit={onSubmit}>
    <label>Value
      <input type="text" value={value} onChange={onChange} />
    </label>
  </form>
)
```

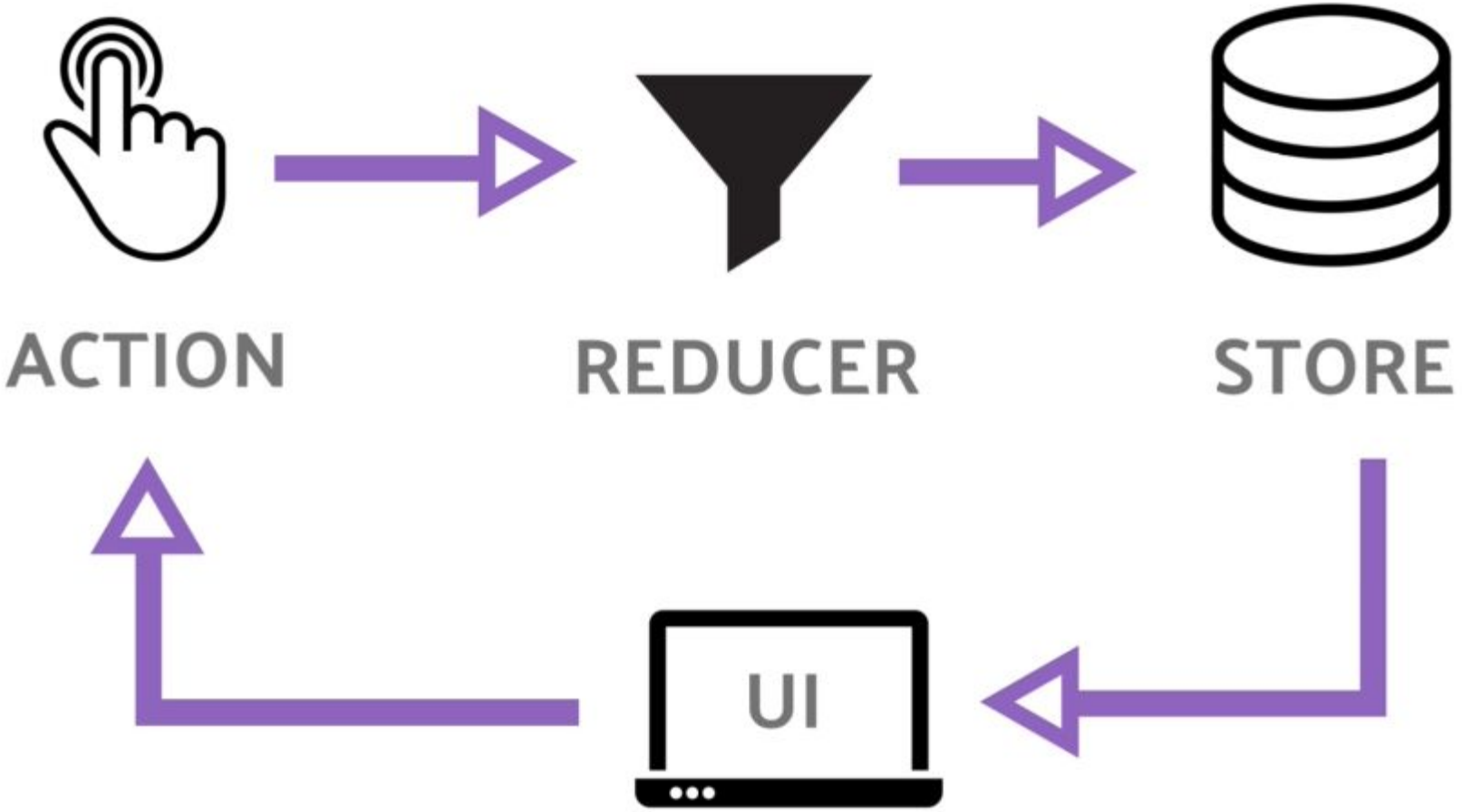
~~Side Effect~~ Component

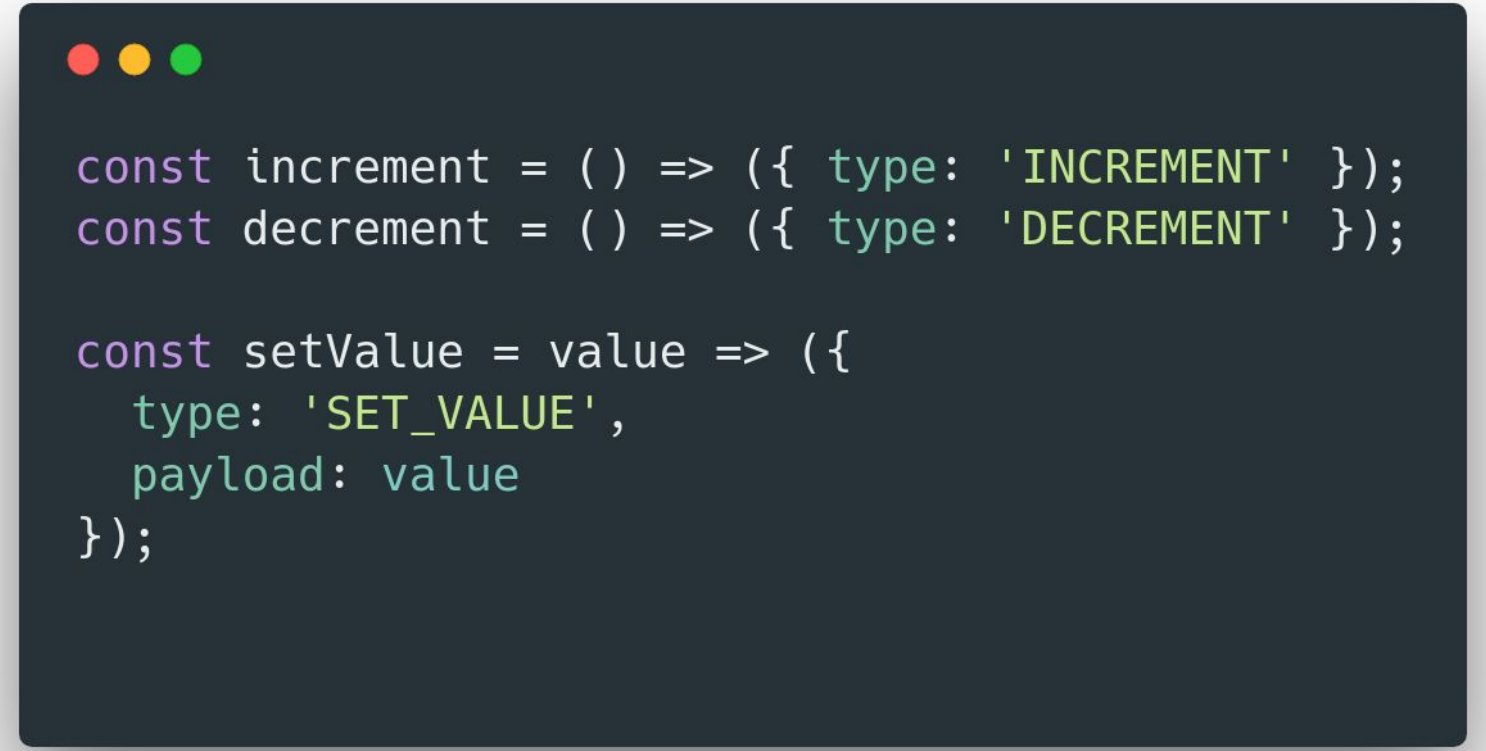

const DocumentTitle = (props) => {
document.title = props.title
return null;
};

Хранение данных

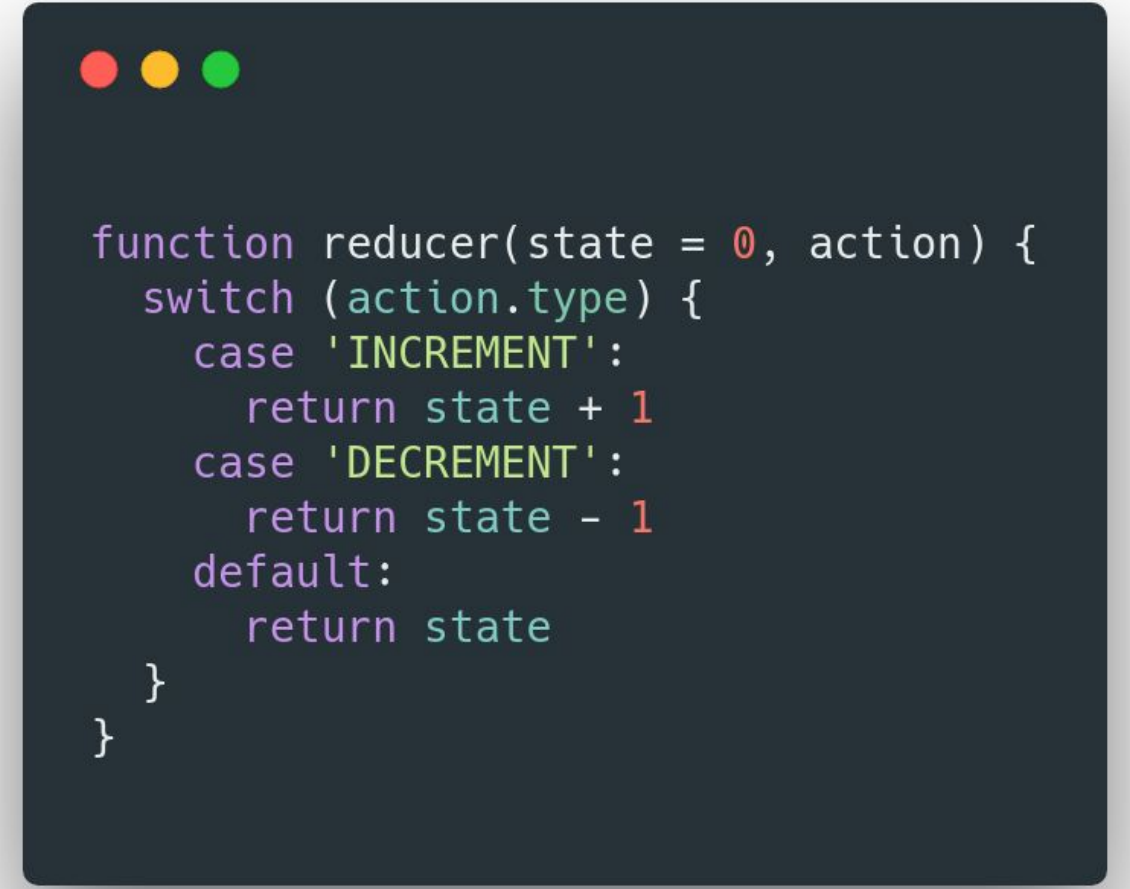
и бизнес-логика


Redux


ACTION
REDUCER
STORE
UI



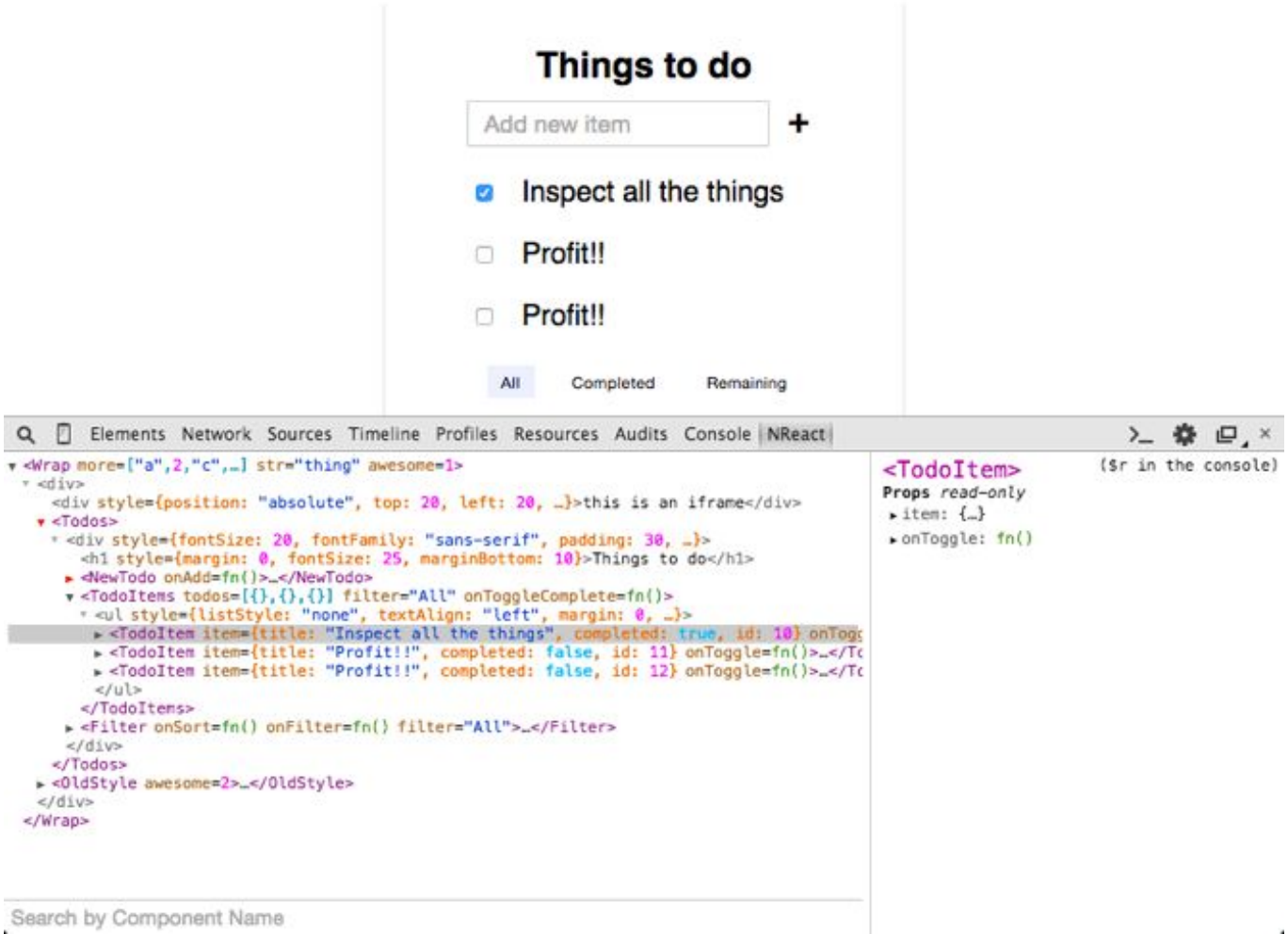
```
const increment = () => ({ type: 'INCREMENT' });
const decrement = () => ({ type: 'DECREMENT' });

const setValue = value => ({
  type: 'SET_VALUE',
  payload: value
});
```


function reducer(state = 0, action) {
switch (action.type) {
case 'INCREMENT':
return state + 1
case 'DECREMENT':
return state - 1
default:
return state
}
}


export const rootReducer = combineReducers({
auth: auth.reducer,
entities: combineReducers({
users: users.reducers.entities,
comments: comments.reducers.entities
}),
ui: combineReducers({
users: users.reducers.ui,
comments: comments.reducers.ui
}),
alerts
});

Отладка

инструменты разработчика

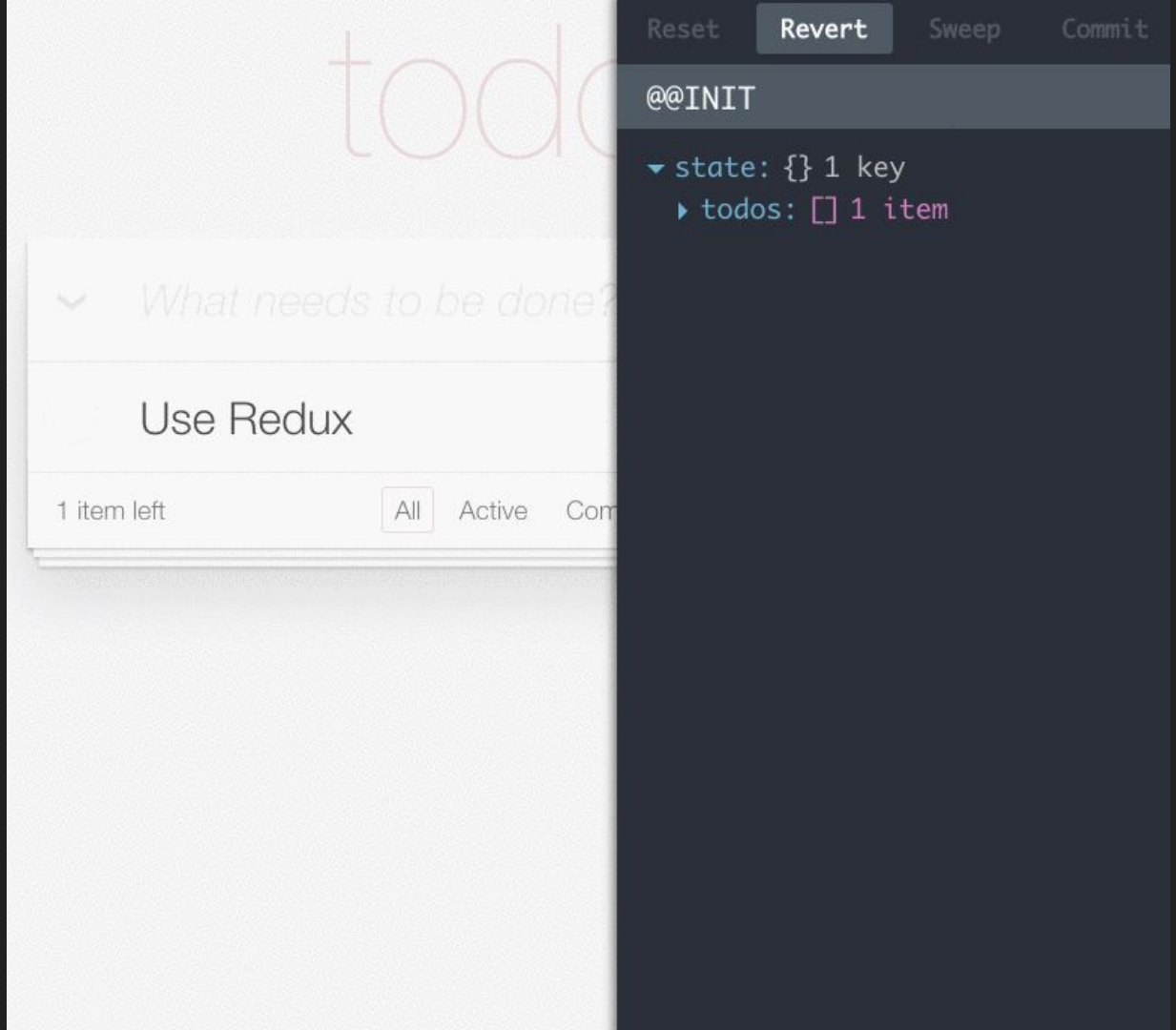

Things to do
Add new item
+
Inspect all the things
Profit!!
Profit!!
All
Completed
Remaining
Elements Network Sources Timeline Profiles Resources Audits Console NReact
<Wrap more=["a",2,"c",…] str="thing" awesome=1>

<div style={position: "absolute", top: 20, left: 20, …}>this is an iframe
<Todos>
<div style={fontSize: 20, fontFamily: "sans-serif", padding: 30, …}>
<h1 style={margin: 0, fontSize: 25, marginBottom: 10}>Things to do</h1>
<NewTodo onAdd=fn()>…</NewTodo>
<TodoItems todos=[{},{},{}] filter="All" onToggleComplete=fn()>
<ul style={listStyle: "none", textAlign: "left", margin: 0, …}>
<TodoItem item={title: "Inspect all the things", completed: true, id: 10} onTogg
<TodoItem item={title: "Profit!!", completed: false, id: 11} onToggle=fn()>…</Tc
<TodoItem item={title: "Profit!!", completed: false, id: 12} onToggle=fn()>…</Tc

</TodoItems>
<Filter onSort=fn() onFilter=fn() filter="All">…</Filter>

</Todos>
<OldStyle awesome=2>…</OldStyle>

</Wrap>
<TodoItem>
($r in the console)
Props read-only
item: {…}
onToggle: fn()
Search by Component Name


todo
What needs to be done?
Use Redux
1 item left
All
Active
Com
Reset
Revert
Sweep
Commit
@@INIT
state: {} 1 key
todos: [] 1 item

Альтернативы Redux

GraphQL & Relay

https://developer.github.com/v4/explorer/

Рендеры

Рендеры

- react-dom
- react-native
- react-pdf
- redox
- react-canvas
- react-konsul
- react-vr
- react-tv
- ...

Спасибо!