React Dojo / Testing React and Redux

Wifi (twguest):

begin hark sauce editor sign

Hosted by ThoughtWorks / Presented by @cris7ian

git clone https://github.com/tw-react-dojo/4-testing-react-redux

Working software over comprehensive documentation - Agile Manifesto.

Red / Green testing

- Write the test.

- Fails (red).

- Write the code.

- Pass (green).

Our Stack

- Jest.

- Enzyme (by Airbnb)

Jest

- Our test runner

- Developed by Facebook.

- Files: **src/**/test.js**

- One test file per file.

Enzyme (http://airbnb.io/enzyme/)

- Static rendering.

- Shallow rendering.

- Full Dom Rendering.

Sinon

- Mocking.

- Spying.

Things to test in our app

- Reducer (reduces what you want to reduce).

- Action Creators (creates the actions you want them to create).

- Components (renders the stuff you want).

- App (everything works together).

Testing Reducers

```
expect(
  reducer(state, action)
).toEqual(newState)
```

Testing Action Creators

```
expect(
  actionCreator(payload)
).toEqual(expectedAction)
```

Testing Components

```
import { shallow } from 'enzyme'

it('allows us to set props', () => {
    const wrapper = shallow(<Foo bar="baz" />);
    expect(wrapper.props().bar).to.equal('baz');
  });
```

Testing the App

```javascript
import { mount } from 'enzyme';

it('simulates click events', () => {
    const onButtonClick = sinon.spy();
    const wrapper = mount((
      <App onButtonClick={onButtonClick} />
    ));
    wrapper.find('button').simulate('click');
    expect(onButtonClick).to.have.property('callCount', 1);
});
```

Coding Time

Thank you very much
Enjoy the summer
😎