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React/Redux Testing

React and Components

- **Approaches to Testing React Components**
  http://reactkungfu.com/2015/07/approaches-to-testing-react-components-an-overview/
  A great starting point to testing, looking at the main ways you can test component structure and state handling

- **Test Driven React Tutorial**
  http://spencerdixon.com/blog/test-driven-react-tutorial.html
  Describes project setup and basic approaches, using the common stack of Webpack+Karma+Mocha+Chai+Sinon

- **How to Test React.js Components**
  https://nemisj.com/how-to-test-react-js-components/
  Covers what to test, and how to test things like props and shallow rendering

- **Testing React Applications**
  http://12devsofxmas.co.uk/2015/12/day-2-testing-react-applications/
  A long, in-depth article describing approaches and use of Tape, React TestUtils, and Enzyme

- **TDD and React Components**
  https://medium.com/@nackjicholsonn/tdd-and-react-components-5ae5a9a5a7bf
  Detailed example of using TDD to design and develop a React component, using Teaspoon for testing

- **What to Test in a React App**
  https://daveceddia.com/what-to-test-in-react-app/
  General guidance on what types of tests you might want to write and what to test for.

- **Testing React Applications**
  https://www.youtube.com/watch?v=59Ndb3YkLKA
  A presentation by Max Stoiber, looking at what types of things to test in a React/Redux application, and ways to use tools like Jest to speed up the testing process.

- **Good Practices for Testing React Apps**
  https://medium.com/@TuckerConnelly/good-practices-for-testing-react-apps-3a64154fa3b1
  Thoughts on writing end-to-end tests, unit tests, and integration tests for Reaact applications, including treating components as "black boxes".

- **Testing React components with Jest and Enzyme**
  https://hackernoon.com/testing-react-components-with-jest-and-enzyme-41d592c174f
  Examples of how to use Jest's snapshot testing and Enzyme's component API to write component tests

- **Best practices for testing React components using Mocha, Chai, and Enzyme**
  https://reflect.io/blog/js-testing-mocha-chai-enzyme/
  A number of useful tips for improving component tests, including use of shallow rendering, avoiding errors while testing, and making test code consistent

- **The Right Way to Test React Components**
  https://medium.com/@suchipi/the-right-way-to-test-react-components-548a4736ab22
  Excellent advice on how to determine a component's "contract", what aspects of that are worth testing, and how to approach testing that contract.

- **Testing React Components with Teaspoon and Unexpected**
  http://dchambers.github.io/articles/testing-react-components-with-teaspoon-and-unexpected/
  A short but useful look at a couple testing libraries and ways to use them.

- **Unit Testing React Components and Redux Reducers**
  https://web.archive.org/web/20161028043905/http://pebblecode.com/blog/react-redux-unit-testing/
  Some basic examples for testing reducers and components.

- **Getting Started with TDD in React**
  https://semaphoreci.com/community/tutorials/getting-started-with-tdd-in-react
  Covers a typical Mocha+Chai+JSDOM+Enzyme setup, talks about why/how/what to test, and walks through several examples.

- **Testing React Applications**
  https://youtu.be/KBhHsYlF4mQ
  A fantastic talk that goes through many important details of trying to test React components under JSDOM.

- **Testing in React: Getting Off the Ground**
  https://medium.com/javascript-inside/testing-in-react-getting-off-the-ground-5f569f3088a
  A look at approaches and ways to start testing React components

- **Testing React Applications Examples**
  https://github.com/mxstbr/react-testing
  A repo showcasing how to test various parts of a common React/Redux app using Mocha, expect and enzyme

- **React TDD Guide**
  https://github.com/zpratt/react-tdd-guide
  A repo with step-by-step commits demonstrating approaches to testing React apps

- **Idiomatic React Testing Patterns**
  https://gist.github.com/joshdover/235714771d94509a83609b16d232014a
  https://news.ycombinator.com/item?id=12087437
  Several useful patterns for testing React components, with discussion on HN.

- **A Step-by-Step TDD Approach on Testing React Components using Enzyme**
  https://web.archive.org/web/20161002211902/http://thereignn.ghost.io/a-step-by-step-tdd-approach-on-testing-react-components-using-enzyme/
  An excellent article covering TDD, React, and Enzyme.

- **How to Test React Components Using Jest**
  https://www.sitepoint.com/test-react-components-jest/
  An in-depth look at how to set up and use Jest for testing

- **React UI Testing with Storybook**
  https://storybooks.js.org/docs/react-storybook/testing/react-ui-testing Looks at using the React Storybook component editor to do UI testing

- **Testing React Components with mocha-webpack**
  https://medium.com/@mmontoya/testing-reactjs-components-with-mocha-webpack-ce7f710d268c
  Looks at how mocha-webpack can be used to enable faster testing for React components

- **Testing React Components with Enzyme and Mocha**
  https://ifelse.io/2016/04/04/testing-react-components-with-enzyme-and-mocha/
  Examples of setting up a Webpack+Mocha test environment, and using Enzyme for implementing tests

- **Testing for PropType Errors in React**
  https://daveceddia.com/testing-for-proptypes-errors/
  Some quick examples that use Sinon to check for error logging to help verify correct prop usage during testing.

- **Testing React Applications**
  https://blog.logrocket.com/testing-react-applications-part-1-of-3-ebd8397917f3
  Describes several types of unit tests that can be written in a React app (component tests, component tests, storybook tests), and the intent and benefits of each.

- **Testing React Applications with Jest**
  https://auth0.com/blog/testing-react-applications-with-jest/
  An in-depth explanation of how to use Jest for React testing, including setup, basic test structure, using Enzyme for rendering React components, mocking, and more.

- **Never render in React testing again**
  https://medium.com/@planttheidea/never-render-in-react-testing-again-fc4bcfc2f71d
  Some examples of using higher-order functions to simplify test logic

- **React + TDD = Love**
  https://medium.com/@admm/test-driven-development-in-react-is-easy-178c9c520f2f
  A tutorial that walks through a TDD-based approach to building components in an application.

- **Snapshot Testing React with Jest**
  https://daveceddia.com/snapshot-testing-react-with-jest/
  An excellent explanation of what "snapshot testing" is, and how to apply it to test React components using Jest

Redux

- **Simple React/Redux Testing**
  https://medium.com/@caljrimmer/simple-react-redux-testing-cd579d4c2103
  Looks at how to test rendering, behavior, and state of an application

- **Unit Testing a Redux App**
  https://www.codementor.io/reactjs/tutorial/redux-unit-test-mocha-mocking
  Example ways to test pieces of a Redux app, including actions, reducers, and middleware

- **React-Boilerplate Testing Docs**
  https://github.com/mxstbr/react-boilerplate/blob/v3.0.0/docs/testing/unit-testing.md
  https://github.com/mxstbr/react-boilerplate/blob/v3.0.0/docs/testing/component-testing.md
  Useful description of how to use Mocha, Expect, and Enzyme to test React and Redux code

- **Testing Redux Applications**
  http://randycoulman.com/blog/2016/03/15/testing-redux-applications/
  http://randycoulman.com/blog/categories/getting-testy/
  A great writeup on how to specifically deal with testing pieces of a Redux app. The "Getting Testy" post series also has a lot of really good idea on how to go about writing tests and what kinds of things should be tested.

- **Unit Testing Redux Container Components**
  https://web.archive.org/web/20161105110913/http://pebblecode.com/blog/testing-redux-containers/
  Demonstrates techniques for properly testing Redux-connected React components using a mock store

- **Testing React and Redux**
  http://silvenon.com/testing-react-and-redux/
  A three-part article that shows how to set up Ava and Babel, then walks through testing Redux code (action creators, reducers, selectors, thunks, and sagas), and React components.

- **Unit Testing React Components that use Redux**
  http://www.thereformedprogrammer.net/unit-testing-react-components-that-use-redux/
  Tips on unit testing components that render more Redux-connected components

- **Generative Testing using Redux: Reducers**
  https://medium.com/javascript-inside/generative-testing-your-redux-reducers-326d7368f284
  A look at using "generative testing" to autoomatically test reducers with varying inputs

- **Some Thoughts on Testing React/Redux Applications**
  https://medium.com/javascript-inside/some-thoughts-on-testing-react-redux-applications-8571fbc1b78f
  Guidelines and best practices for what and how to test in a React/Redux app

- **Test Driving a change to a Redux application - Step by Step**
  https://medium.com/@kensodev/test-driving-a-change-to-a-react-redux-application-step-by-step-6c8856e7644c
  Demonstrates a TDD approach to reworking a Redux app feature

- **Workship Slides: React and Redux Testing**
  http://www.slideshare.net/visualengin/workshop-23-reactjs-react-redux-testing
  A slideshow that gives a helpful overview of the React Test Utilities and Enzyme to test React components

- **Low effort, high value: Integration tests in Redux apps**
  https://hackernoon.com/low-effort-high-value-integration-tests-in-redux-apps-d3a590bd9fd5
  A discussion of the benefits of unit tests vs integration tests, with examples of how to test the various aspects of a Redux app

- **Testing React/Redux Applications**
  https://github.com/leocristofani/testing-react-redux-applications
  Several useful resources for testing, including tips/guidelines, a sample application with tests, and links to more resources.

- **How to test React and Redux with Redux-Saga and ReactDND**
  https://medium.freecodecamp.com/testing-react-and-redux-with-redux-saga-and-reactdnd-whew-dedebcbd78dd
  In-depth examples of testing React components using the Teaspoon library, as well as setting up tests for Redux-connected components, Redux-Saga functions, and uses of ReactDND.

- **Simplify your Redux unit testing using Tape**
  https://medium.com/@kilkelly/simplify-your-redux-unit-tests-using-tape-ad391aecf446
  https://github.com/kilkelly/tape-redux-unit-testing
  Some quick examples of using the Tape library to test Redux reducers, with an accompanying example repo

- **Unit Testing Redux Container Components, Part 1**
  http://www.wsbrunson.com/react/redux/test/2016/05/08/testing-redux-containers.html
  Some useful tips for setting up tests for Redux-connected components

- **Code Review: SPA testing with React and Redux**
  https://b3ntly.github.io/blog/code-review-spa-testing-with-react-and-redux-long/
  A variety of useful observations and suggestions for testing React+Redux code, including good practices for structuring test setup

- **Test Your Redux Container with Enzyme**
  https://medium.com/@visualskyrim/test-your-redux-container-with-enzyme-a0e10c0574ec
  Examples for using Enzyme to test Redux-connected components, including passing in a mock store, use of shallow rendering, and testing `mapDispatch` .

General Testing, Tools, and Setup

- **Javascript Testing: Unit vs Functional vs Integration**
  https://www.sitepoint.com/javascript-testing-unit-functional-integration/

A comparison of the various levels of tests you can run, and what roles they play in development.

- Reddit - "Karma/Mocha/Chai/Sinon setup"
  https://www.reddit.com/r/javascript/comments/4217x6/ive_spent_six_hours_attempting_to_set_up/
  Reddit user Cody_Chaos describes his approach to running unit tests under Node with Mocha, and integration
  tests in a browser with Karma. Includes several useful config setup snippets.

- Setting Up Javascript Testing Tools for ES6
  http://x-team.com/2016/05/setting-up-javascript-testing-tools-for-es6/
  Tips on configuring tools to work with ES6 code, and writing tests using ES6

- Keep Calm and Love Javascript Unit Tests - Part 2: Asynchronism
  http://www.theodo.fr/blog/2016/06/keep-calm-and-love-javascript-unit-tests-part-2-asynchronism/
  Useful tips for testing asynchronous behavior under Mocha.

- Testing with Mocha and Webpack
  http://randycoulman.com/blog/2016/03/22/testing-with-mocha-and-webpack/
  http://randycoulman.com/blog/2016/04/05/more-on-testing-with-mocha-and-webpack/
  Some excellent information on setting up a good test environment, including use of the mocha-webpack tool.

- Testing with Webpack 2, inject-loader, Karma, Mocha, Chai, and More
  https://cafedev.org/article/2016/12/testing-with-wepack-2-inject-loader-karma-mocha-chai-and-sinon/
  Examples of using these tools to test some complex code, including mocking out dependencies

- ESLint Part 1: Exploration
  https://blog.scottnonnenberg.com/eslint-part-1-exploration/
  A solid look at what ESLint is, how you can use it to help keep your code clean, and a number of useful linting
  plugins that are available.

- Keep Calm and Love Javascript Unit Tests
  http://www.theodo.fr/blog/2016/04/keep-calm-and-love-javascript-unit-tests-part-1/
  http://www.theodo.fr/blog/2016/06/keep-calm-and-love-javascript-unit-tests-part-2-asynchronism/
  An introduction to using Mocha, Chai, and Sinon to write unit tests for various scenarios.

- UI Testing at Urban Airship
  https://github.com/urbanairship/technical-blog/blob/master/AirshipUITesting.md
  In-depth discussion of complexities and approaches for testing real-world UI code, including test runners,
  mocking, and more.

- Migrating to Jest
  https://medium.com/@kentcdodds/migrating-to-jest-881f75366e7e
  Kent C. Dodds describes why and how his team at Paypal switched their test setup to use Jest instead of Ava.

- Testing with Jest Snapshots: First Impressions
  http://benmccormick.org/2016/09/19/testing-with-jest-snapshots-first-impressions/
  Description of the pros and cons of using Jest's new Snapshot Testing feature

- Jest Testing Resources
  https://facebook.github.io/jest/blog/2016/07/27/jest-14.html
  https://facebook.github.io/jest/blog/2016/10/03/jest-16.html
  Announcements of updates to the Facebook Jest testing tool, with links to further articles and information.

- Migrating Ava to Jest
  http://browniefed.com/blog/migrating-ava-to-jest/
  Some quick tips on switching your testing config to use Jest

- Web Application Test Strategy
  https://blog.scottnonnenberg.com/web-application-test-strategy/
  Thoughts on a "test pyramid" approach to testing, balancing speed and results between unit tests, integration
  tests, and automation.

- **Enzyme vs Unexpected-React**
  https://medium.com/@bruderstein/enzyme-vs-unexpected-react-ee9cb099d12b
  A comparison of how Enzyme and Unexpected-React are used in testing React components, with arguments in favor of Unexpected-React

- **Jest vs Mocha for React Testing**
  https://spin.atomicobject.com/2017/05/02/react-testing-jest-vs-mocha/
  A comparison of the strengths and weaknesses of the Jest and Mocha testing frameworks

- **Javascript unit testing frameworks: Comparing Jasmine, Mocha, AVA, Tape, and Jest**
  https://raygun.com/blog/javascript-unit-testing-frameworks/
  A useful comparison and summary of the major unit testing frameworks available

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