

# Testing Redux

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# Here's the plan



## We'll test

- Connected components
- Redux
  - Action creators
  - Thunks
  - Reducers
  - Store



# Testing Connected Components

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# Two Goals

1. Test markup
2. Test behavior



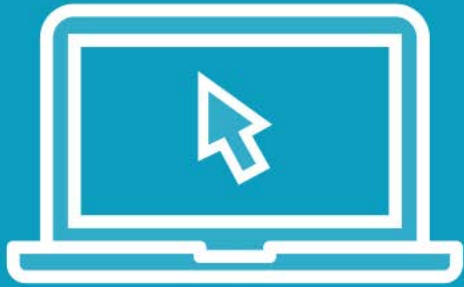
# Testing Container Components

**They're wrapped in a call to connect! What do I do?**

- 1. Wrap with `<Provider>`**
- 2. Add named export for unconnected component**



# Demo



## Testing Connected Components

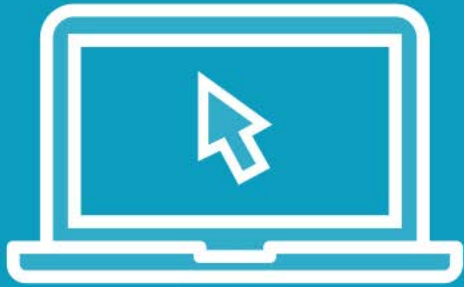


# Testing mapStateToProps

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# Demo



## Testing `mapStateToProps` via extraction



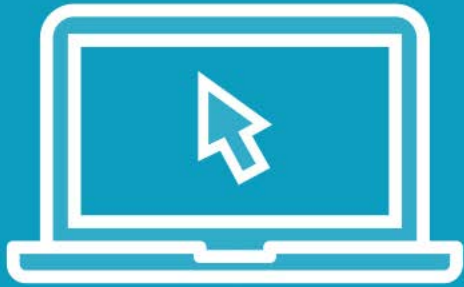


# Testing Action Creators

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# Demo



## Testing Action Creators



# Testing Reducers

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“...people who never wrote unit tests for front-end apps started writing them because it is just so easy to test reducers.”

**Dan Abramov**



Given this input,  
Assert this output.



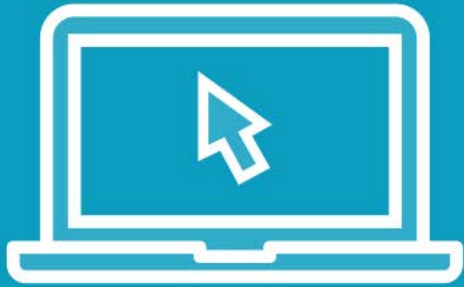
# Redux Test Recorder

Create Reducer tests by simply interacting with your app!

The screenshot shows the GitHub repository page for `conorhastings/redux-test-recorder`. The browser address bar shows the URL `https://github.com/conorhastings/redux-test-recorder`. The repository name is `conorhastings / redux-test-recorder`. It has 5 watchers, 165 stars, and 2 forks. The repository has 7 issues, 0 pull requests, a Wiki, Pulse, and Graphs. A yellow banner indicates "No description or website provided." Below the banner, statistics show 137 commits, 3 branches, 46 releases, and 2 contributors. The "Branch: master" dropdown is set to "master", and there is a "New pull request" button. Other buttons include "New file", "Upload files", "Find file", "HTTPS", and "Download ZIP". The commit history shows the latest commit by `conorhastings` with the message "use modern createStore in readme" 16 hours ago. Below the commit history, there is a list of files and their commit messages:

File	Commit Message	Time Ago
<code>demo</code>	add background color to demo on master	3 months ago
<code>src</code>	fix some test formatting	2 days ago
<code>tests</code>	add test asserting previous tests are saved	17 days ago
<code>babelrc</code>	highlight active tab	17 days ago

# Demo



## Testing Reducers



# Testing Thunks

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# Testing Thunks

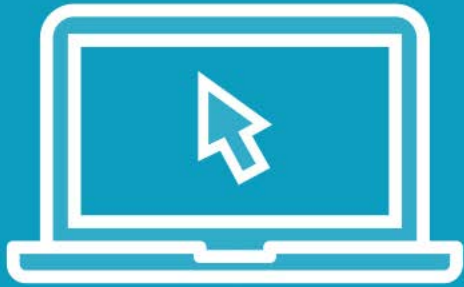


## Mock two things:

- Store
- HTTP calls

`redux-mock-store`  
`nock`

# Demo



## Testing Thunks

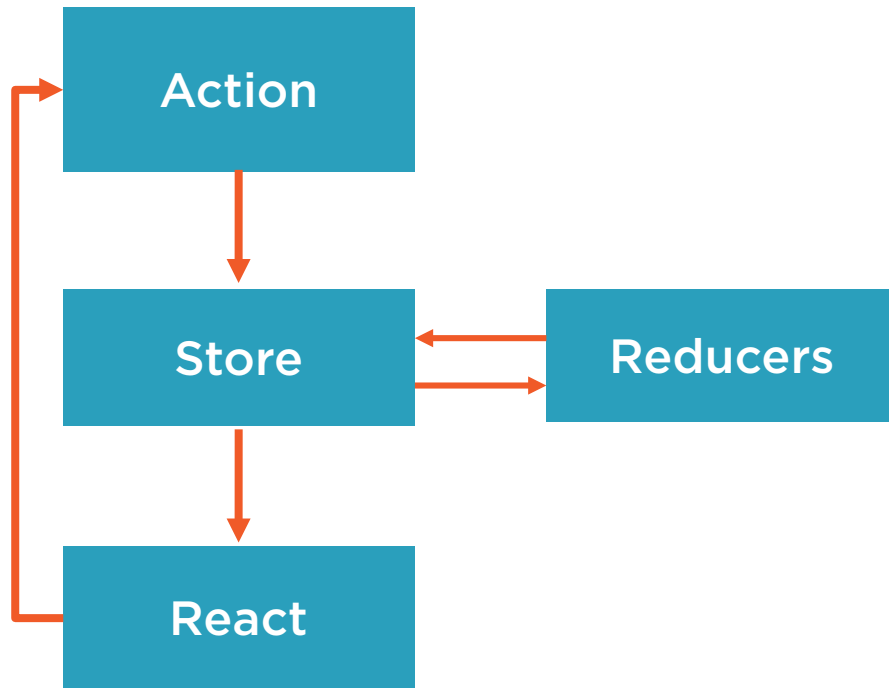


# Testing the Redux Store

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# Testing the Redux Store



**James Kyle**  
@thejameskyle



Follow

Redux users: Do you test (synchronous) action creators and reducers independently?

34% Yes

19% No

10% Sometimes

37% I don't use/test Redux

481 votes • Final results

RETWEETS

3

LIKES

5



3:44 PM - 4 Mar 2016

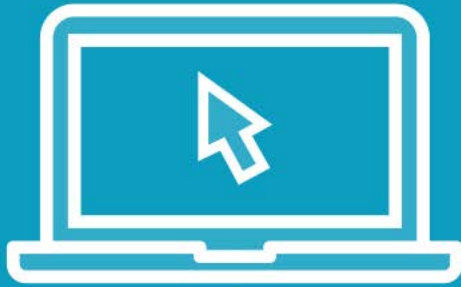


**Dan Abramov** @dan\_abramov · Mar 4

@thejameskyle I would suggest testing reducer + selector + action creators together as a kind of an integration test.



# Demo



## Integration Testing the Store



## Wrap up



### Tested

- Connected React components
- Redux
  - Action creators
  - Thunks
  - Reducers
  - Store

**Next up: Production Build**

