

# Testing Redux



**Cory House**

Consultant

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# Here's the plan



## We'll test

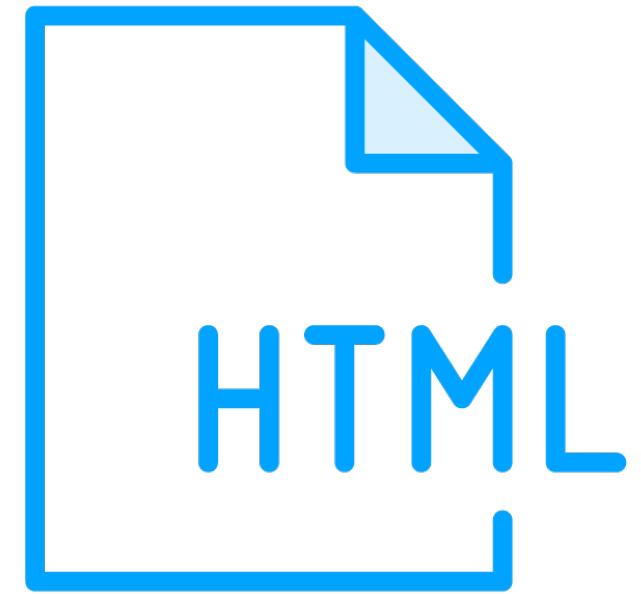
- Connected components
- Redux
  - Action creators
  - Thunks
  - Reducers
  - Store



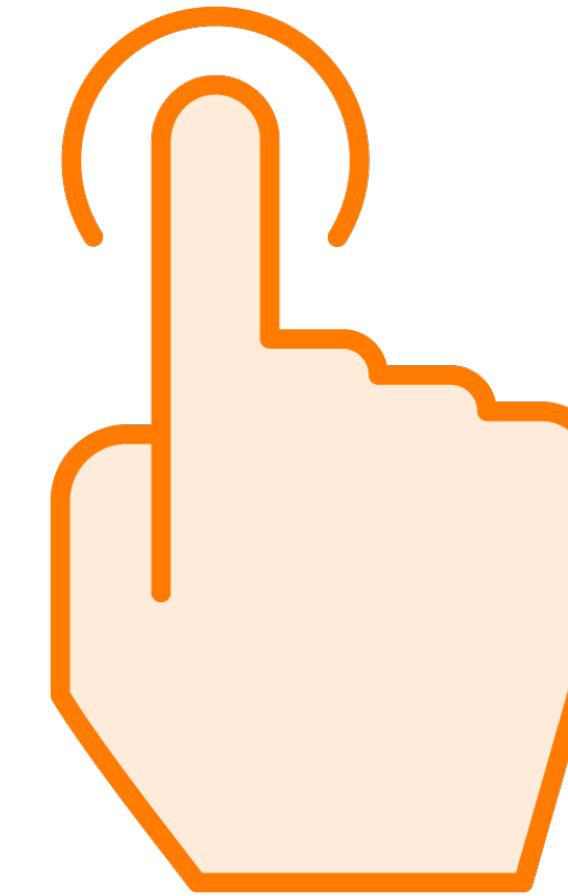
# Testing Connected Components



# Two Goals



Test markup



Test behavior



```
export default connect(mapStateToProps, mapDispatchToProps)(ManageCoursePage);
```

## 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



# Demo



**Testing mapStateToProps via extraction**



# Testing Action Creators



# Demo



## Testing Action Creators





# Testing Thunks



# Testing Thunks



**Mock two things:**

- Store
- HTTP calls

**redux-mock-store  
fetch-mock**



# Demo



## Testing Thunks



# Testing Reducers



Dan Abramov

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



**Given this input,  
Assert this output.**



# Demo



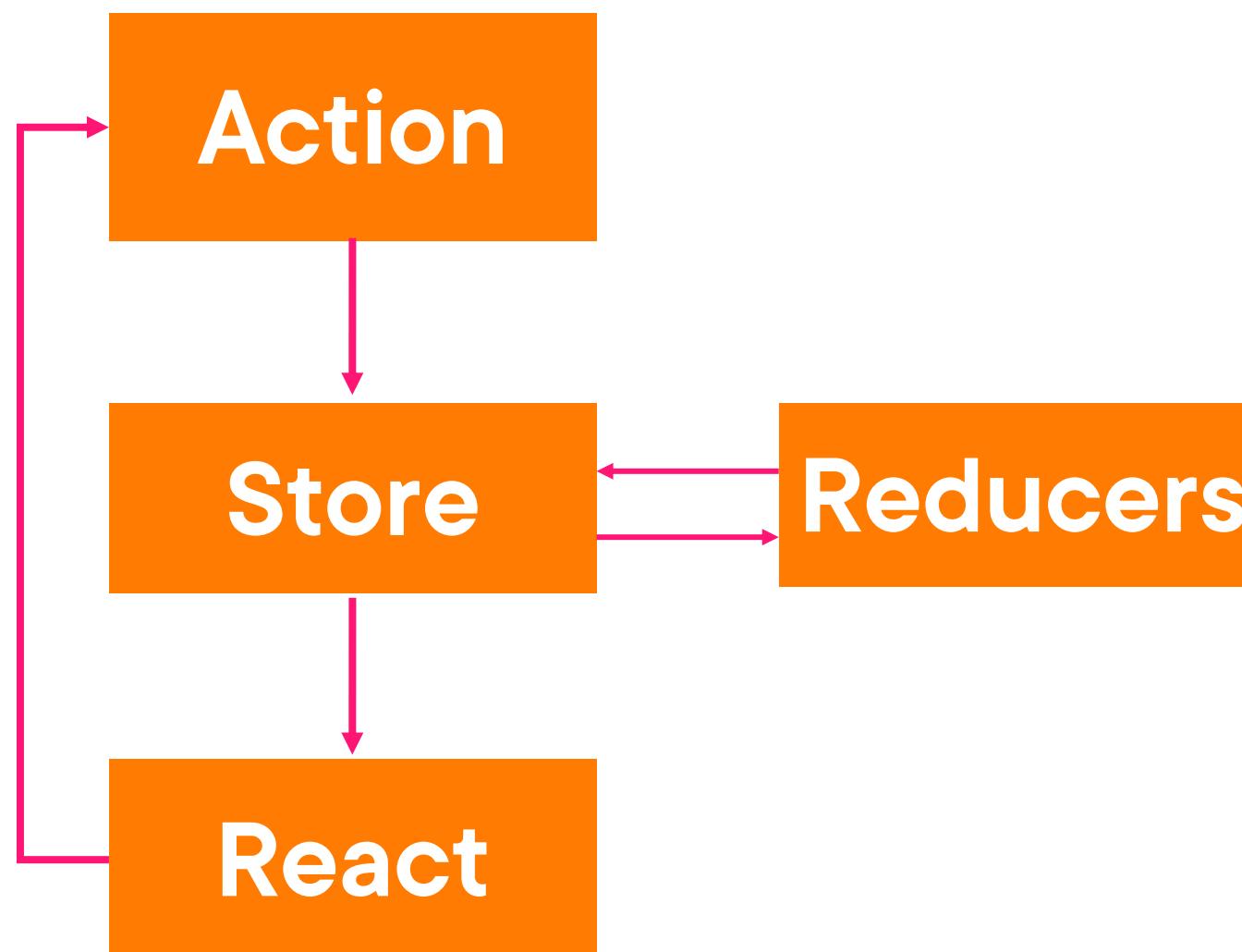
## Testing Reducers



# Testing the Redux Store



# 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



...



Reply to @thejameskyle



**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



**Up Next:**

# **Production Build**

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