THUNK MIDDLEWARE

Who'da thunk it?

• What the thunk?

• What the thunk?

• What the thunk?

• Why the thunk would I do this?

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Why the thunk would I do this?

When to thunk?

Checks the incoming action

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 - If the action is a regular object, do nothing

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 - If the action is a regular object, do nothing
 - If the "action" is a function, invoke it, and pass the store's dispatch and getState methods to it!
 - We call that function a "thunk" (it's just a term borrowed from functional programming and elsewhere)

gaearon Add withExtraArgument()

41aef

Histor

Blame

Raw

2 contributors

Branch: master ▼

```
15 lines (11 sloc)
                    352 Bytes
       function createThunkMiddleware(extraArgument) {
         return ({ dispatch, getState }) => next => action => {
           if (typeof action === 'function') {
             return action(dispatch, getState, extraArgument);
   6
           return next(action);
         };
  10
       const thunk = createThunkMiddleware();
       thunk.withExtraArgument = createThunkMiddleware;
  13
       export default thunk;
  14
```

41aef

Histor

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Fi

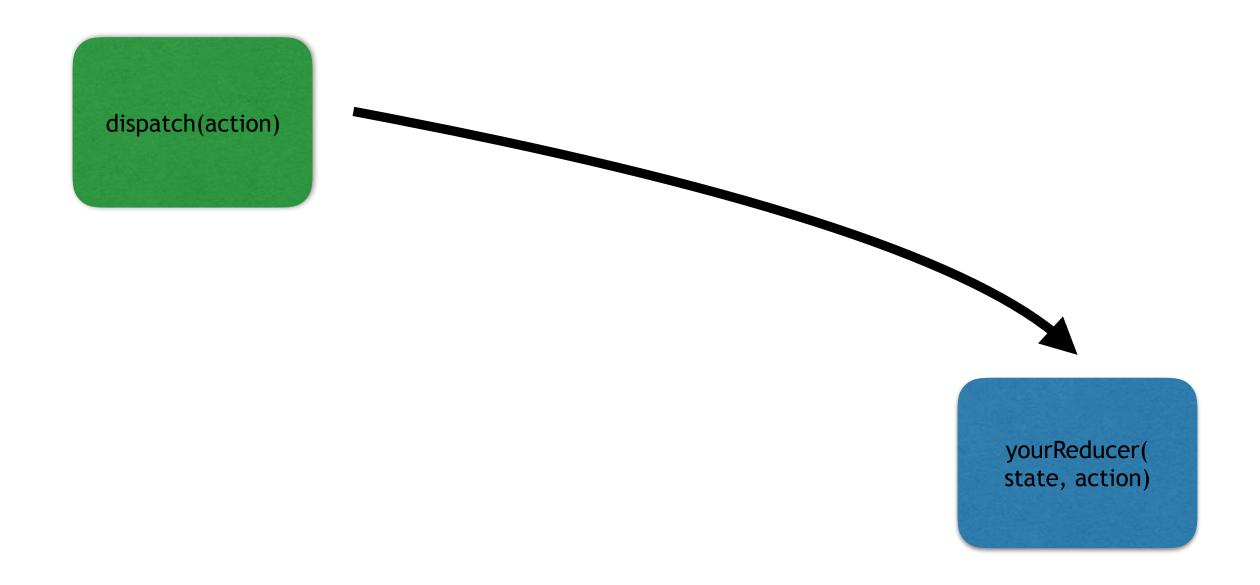
2 contributors

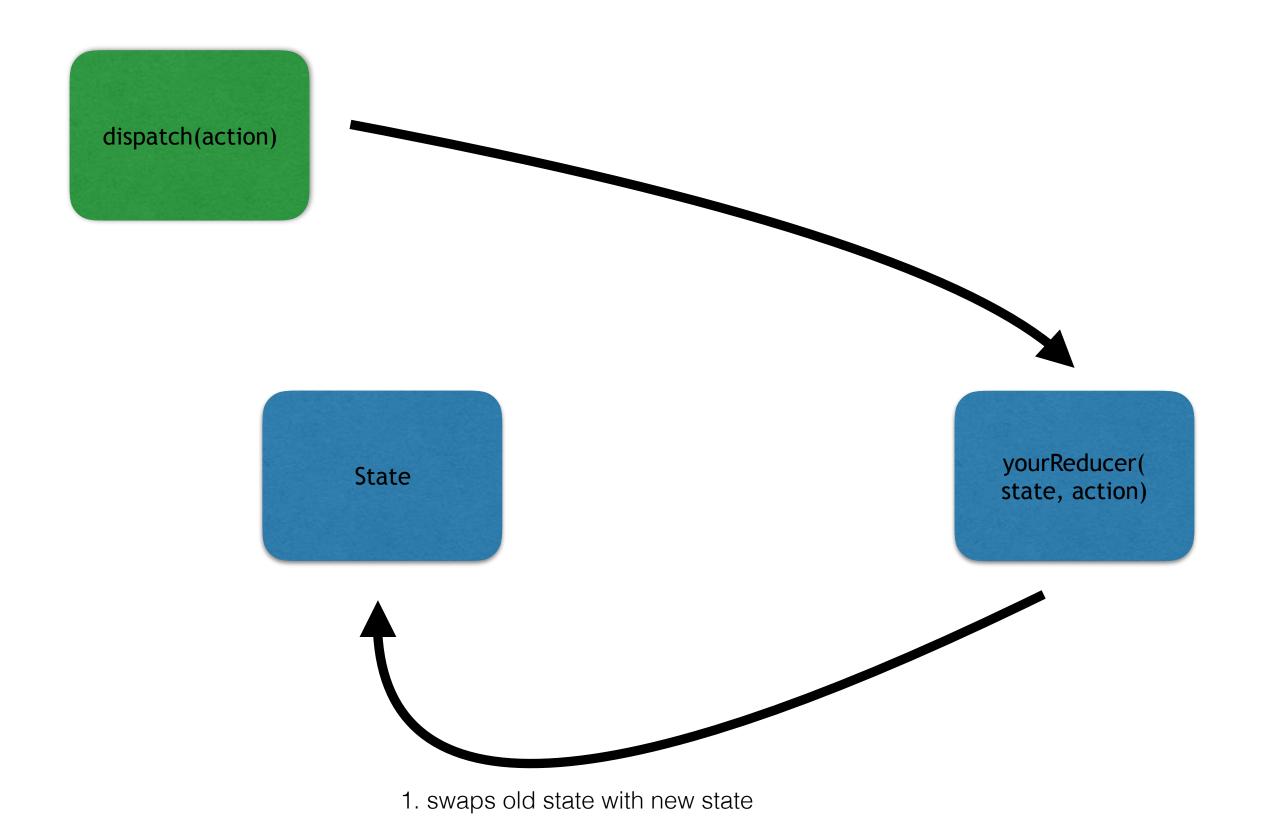
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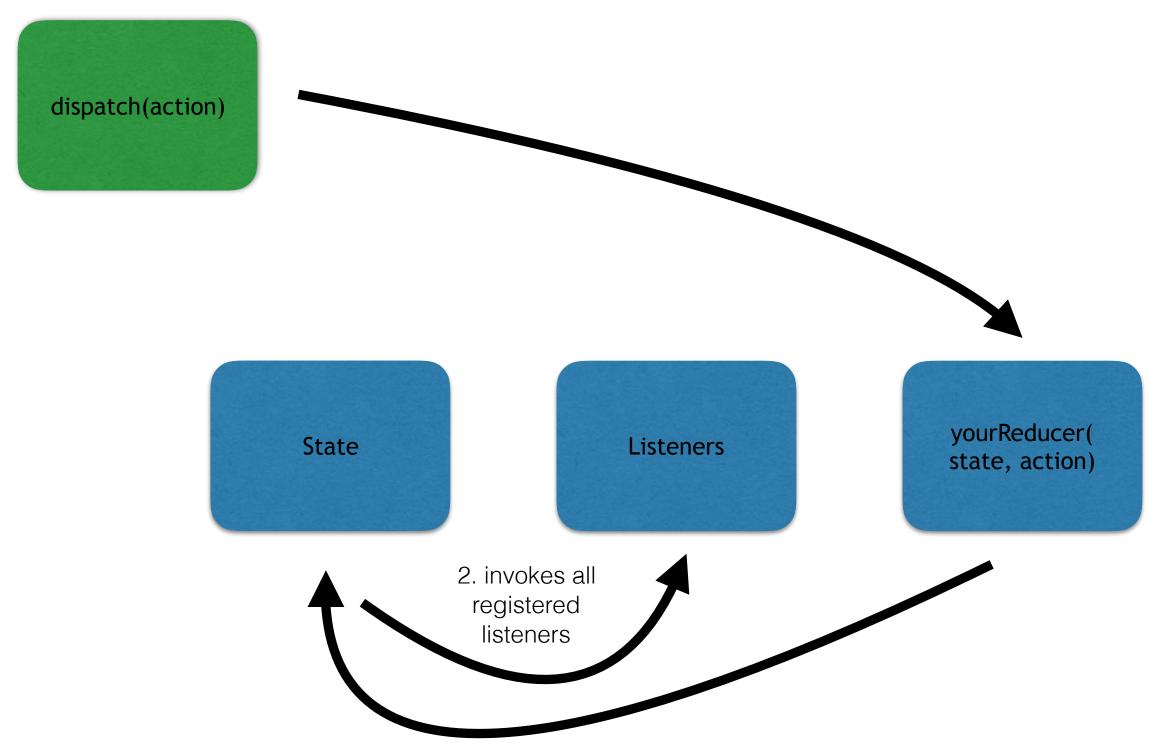
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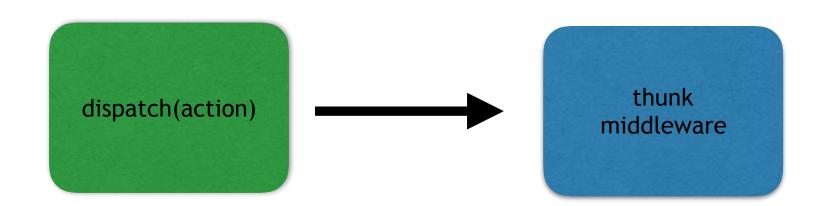


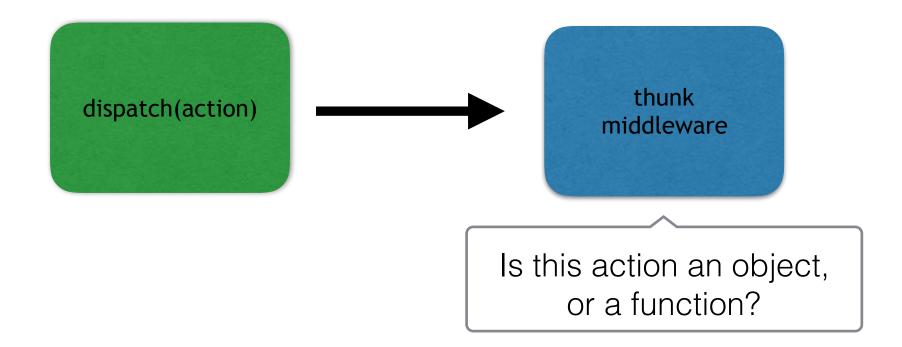


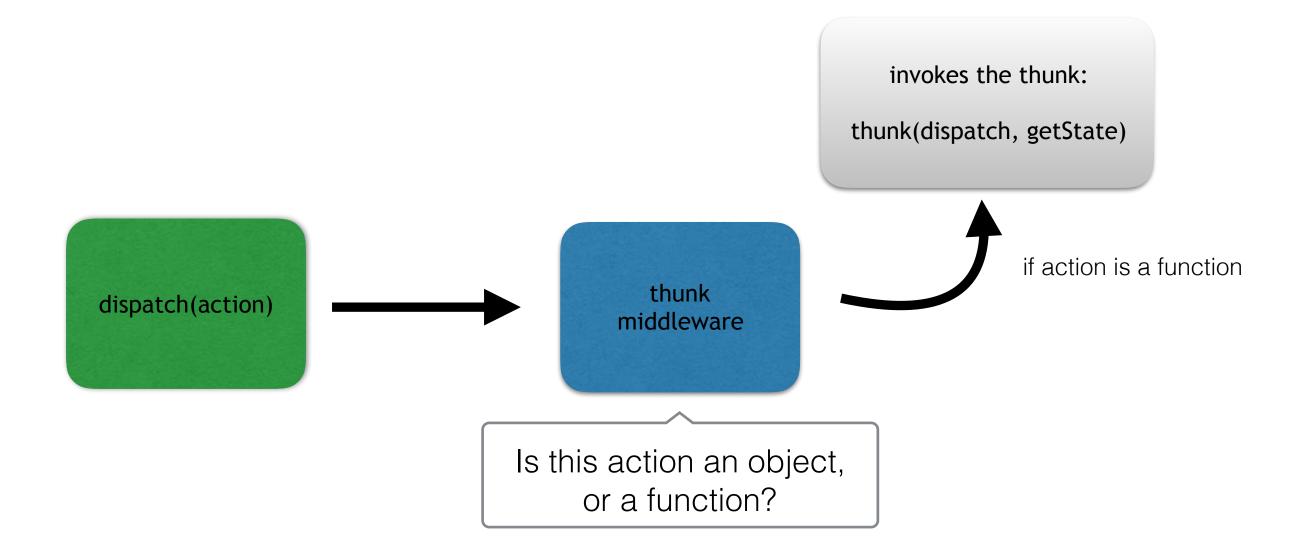


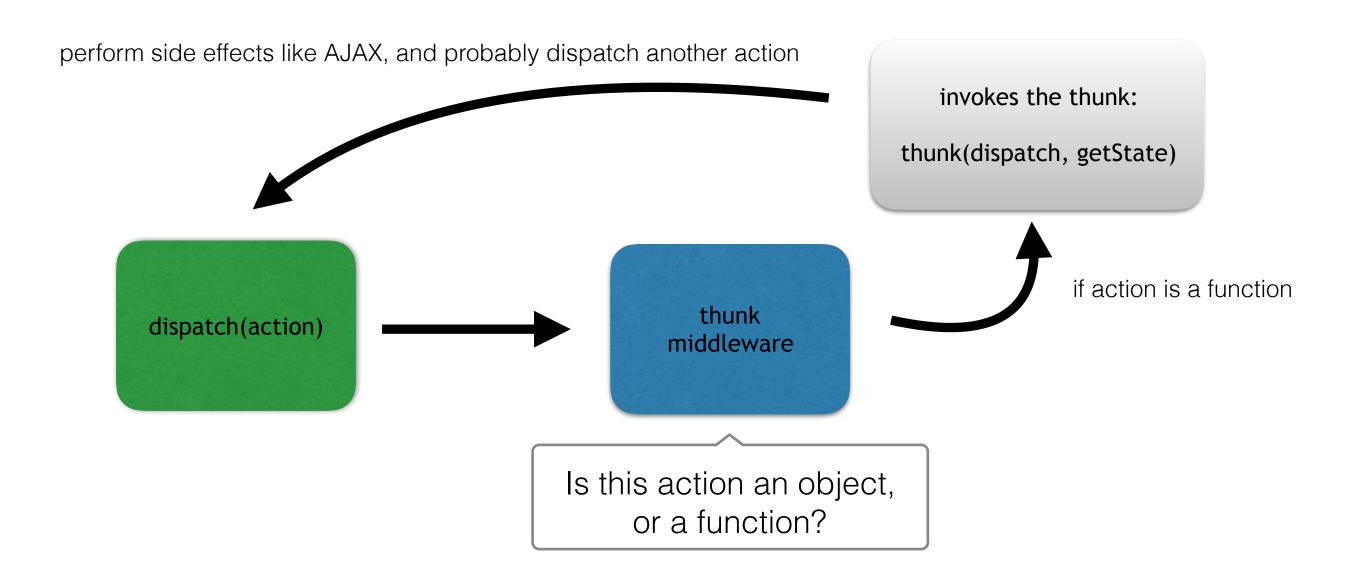


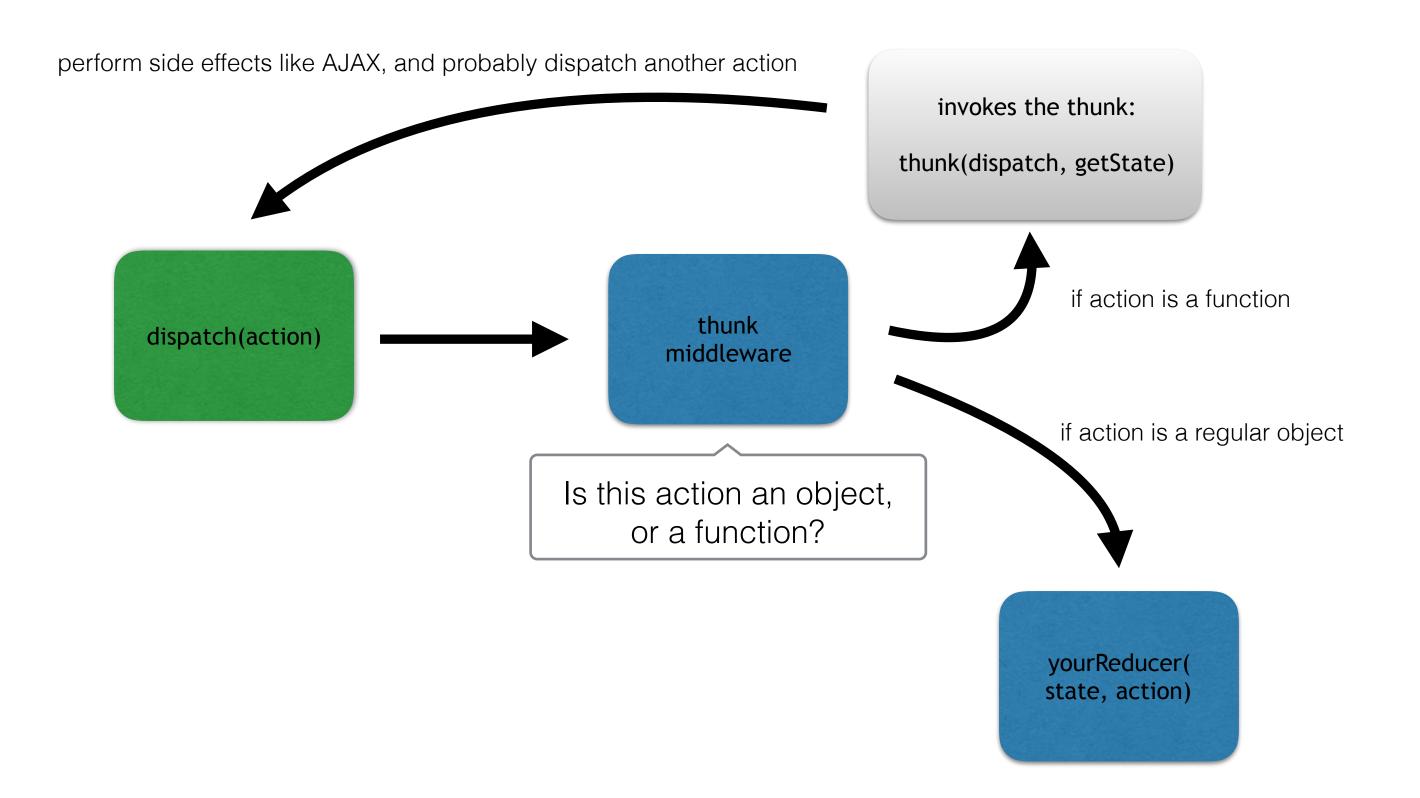


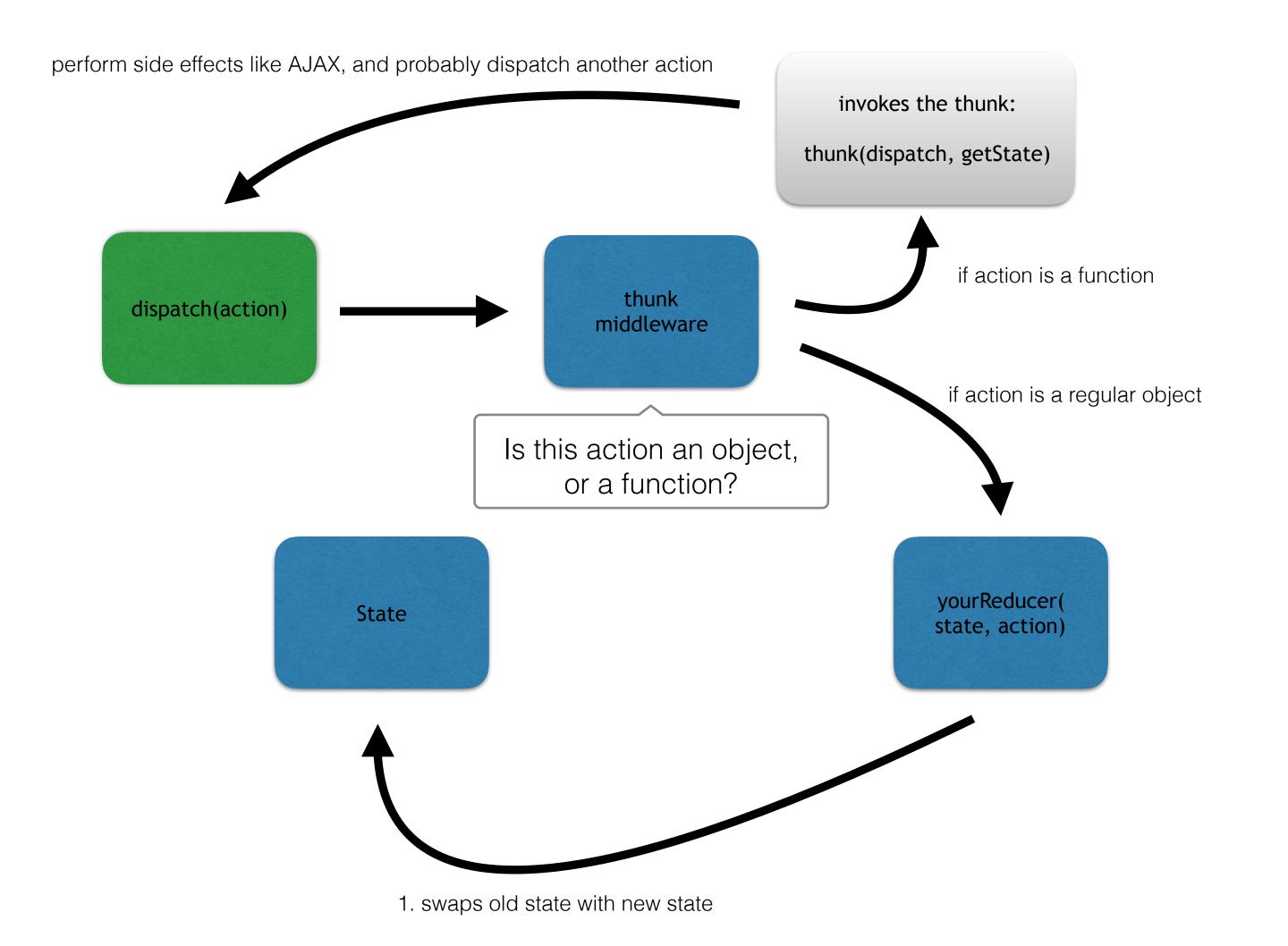


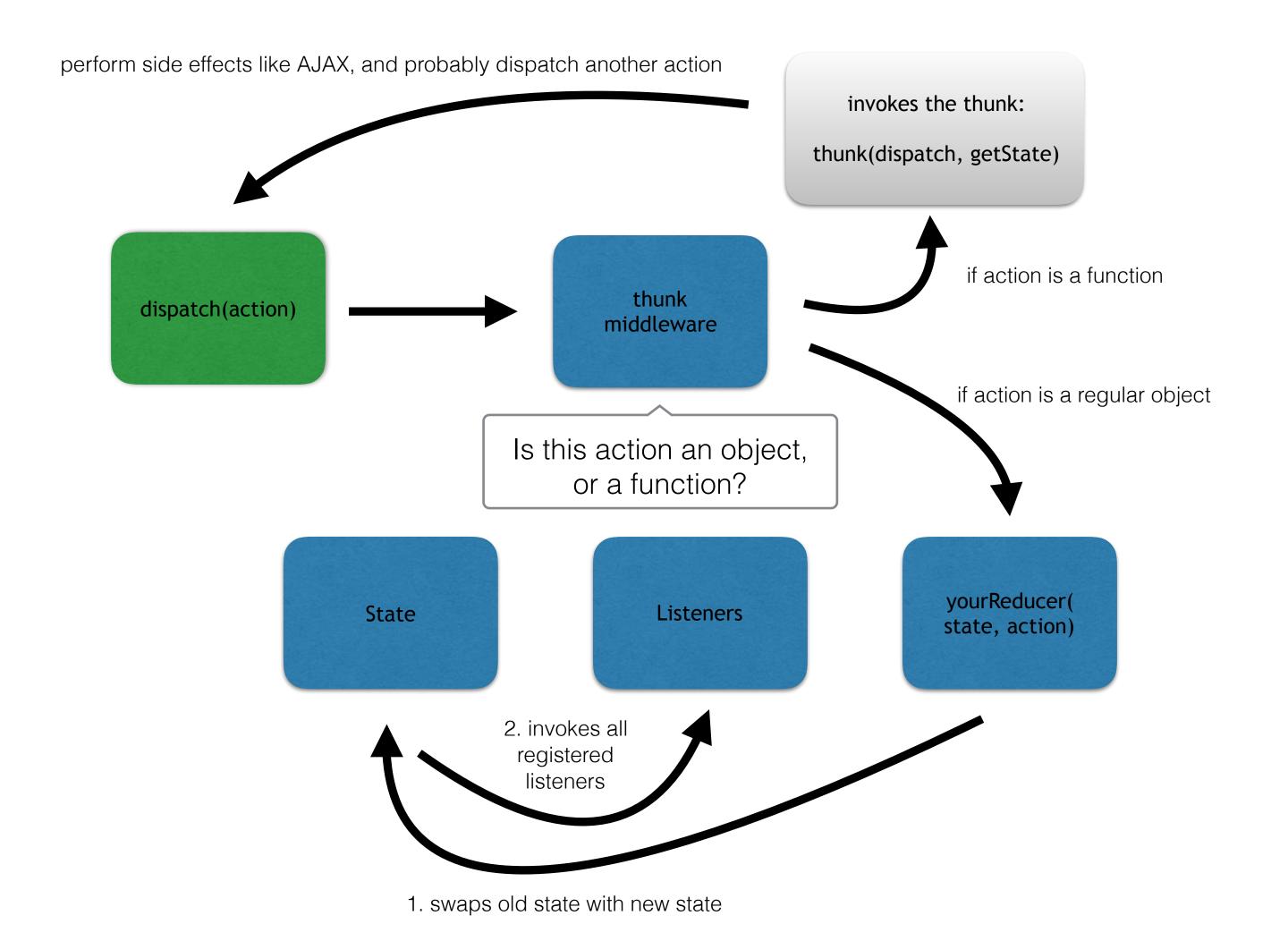












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- Helps you stay DRY
 - Several different components might want to make the same API requests.
- Removes "responsibility" for asynchronous code/side effects from components
 - Components don't need to know whether an action is async or not they just dispatch!

TERMINOLOGY

Thunk creator: an action creator that returns a thunk;
 also known as "async action creators"

 Thunk: the function returned from a thunk creator; it accepts dispatch and getState as arguments

```
const GET_PUGS = 'GET_PUGS'

const gotPugs = (pugs) => {
   return {
     type: GET_PUGS,
     pugs
   }
}
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// the "action type"
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const getPugs = () => {
  return async (dispatch, getState) => {
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const getPugs = () => {
  return async (dispatch, getState) => {
    const {data} = await axios.get('/api/pugs')
    dispatch(gotPugs(data))
  }
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import {connect} from 'react-redux'
import {getPugs} from '../store'
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)(class extends React.Component {
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import {connect} from 'react-redux'
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const AllPugs = connect(
 // mapStateToProps
  (state) => {
    return {
      pugs: state.pugs
)(class extends React Component {
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  // mapDispatchToProps
  (dispatch) => ({
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)(class extends React.Component {
  componentDidMount () {
    this.props.getPugs()
  // etc...
```

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 Thunks, like Redux itself, are tools to help organize big applications

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- Thunks, like Redux itself, are tools to help organize big applications
 - Sitting down to write your company's big analytics dashboard app? Thunk it up!
 - Writing something fun for your personal site? Not the time to be thunky. Not even the time for Redux!