



An Introduction to the Redux-First Routing Model

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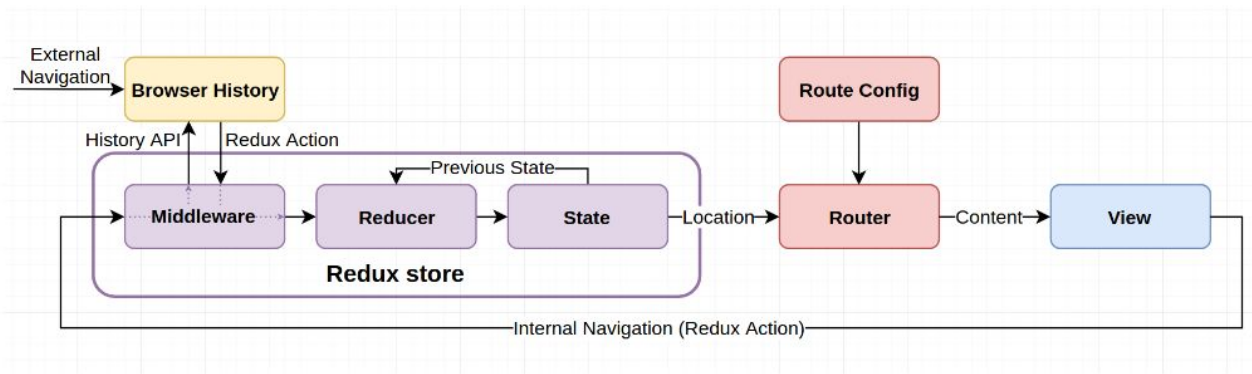
Michael Sargent

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Software developer with an enthusiasm for open-source web technologies. Always curious, and always l...

Jun 21 · 14 min read

An Introduction to the Redux-First Routing Model



A routing library is a key component of any complex, single-page application. If you develop web apps with React and Redux, you've probably used, or at least heard of React Router. It's a well-known routing library for



Web Engineer. Previously @numbrs, @plaidhq, currently @getflynt. Javascript, #people, start...
Oct 3, 2016 · 13 min read

[illegible]



Client-Side Routing and Redux (and React)

React Router

ReactTraining / **react-router**

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Code

Issues 22

Pull requests 19

Projects 5

Insights

Declarative routing for React <https://reacttraining.com/react-router/>

4,000 commits

3 branches

116 releases

462 contributors

MIT

Branch: master

New pull request

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sanniasin committed with **timdorr** Reveal changes in Link to prop in migration guide (#5358)

Latest commit c60af98 6 hours ago



packages

Reveal changes in Link to prop in migration guide (#5358)

6 hours ago



.gitignore

Publish lock files

3 days ago



.travis.yml

Explicitly cache our node modules in each package

5 days ago



Redux-First Routing:

a paradigm that puts considerations for Redux at the forefront of the routing model



Browser Location and History



Global **window** object

- window.document
- window.location
- window.history
- etc.



Window.location (Location API)

- location.href
- location.protocol
- location.host
- location.hostname
- location.port
- location.pathname
- location.search
- location.hash
- etc.

<https://example.com/blog?sort=newest#July-2017>

protocol

hostname

pathname

search

hash

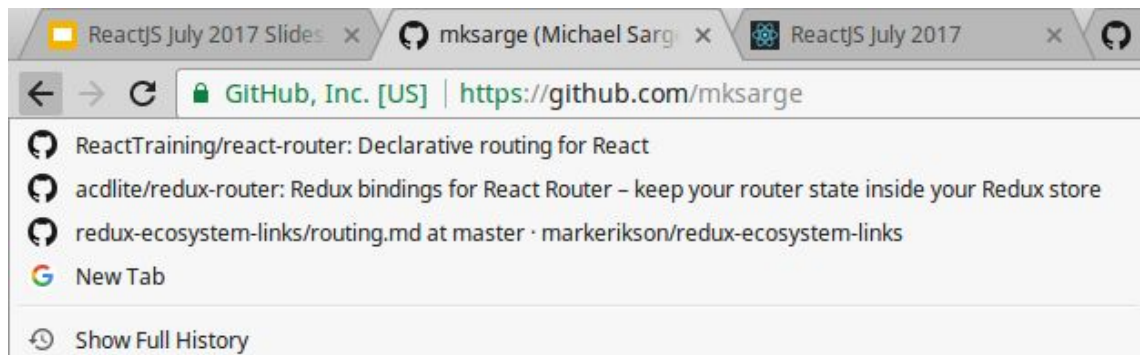
Window.history (History API)

Traditional:

- history.back()
- history.forward()
- history.go(index)

HTML5:

- history.pushState(href)
- history.replaceState(href)



Redux & pushState Routing



redux-little-router

FormidableLabs / [redux-little-router](#)

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Wiki

Insights

A tiny router for Redux that lets the URL do the talking.

296 commits

4 branches

52 releases

20 contributors

MIT

Branch: master

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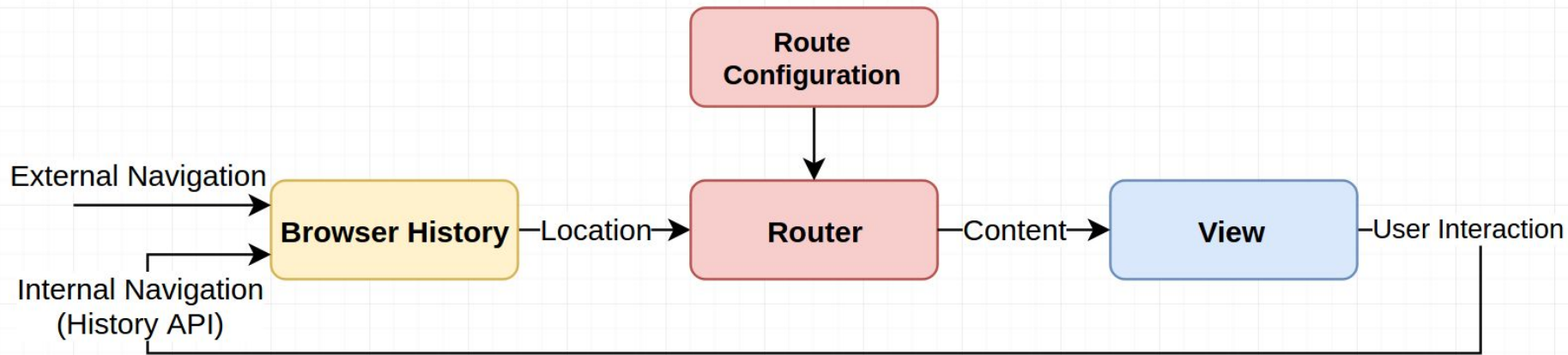
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| | | | |
|----------------|---|--|-----------------------------------|
| tptee v14.2.0 | | | Latest commit 6aa3297 11 days ago |
| config/webpack | Fix bad webpack 2 migration | | 18 days ago |
| demo | Add active link API | | 16 days ago |
| dist | v14.2.0 | | 11 days ago |
| flow-typed/npm | Update flow-typed | | 18 days ago |
| interfaces | Update type declarations for history v4 | | 5 months ago |
| src | Add replaceRoutes action creator for static route code splits | | 11 days ago |
| test | Add replaceRoutes action creator for static route code splits | | 11 days ago |
| .babelrc | Make fragments dynamic and `connect()` ed | | a month ago |
| .bithoundrc | Add bithoundrc | | 16 days ago |

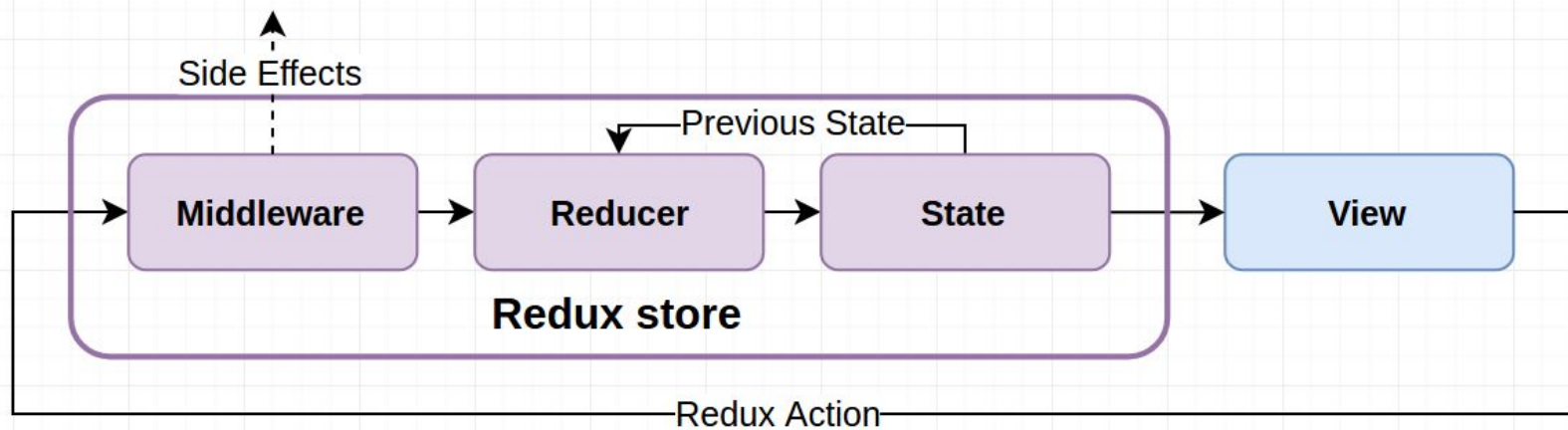


Revisiting the Client-Side Routing Model





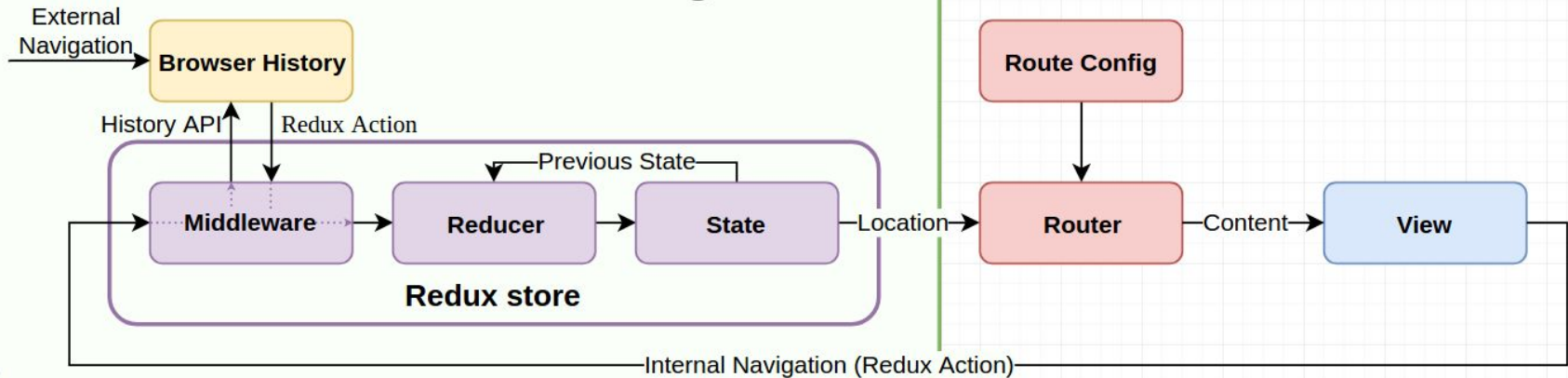
Revisiting the Redux Data Lifecycle Model





Building a Redux-First Routing Model

Redux-First Routing





A Simple Implementation

- demo



The redux-first-routing package

- <https://github.com/mksarge/redux-first-routing>
-

≡ **redux-first-routing**

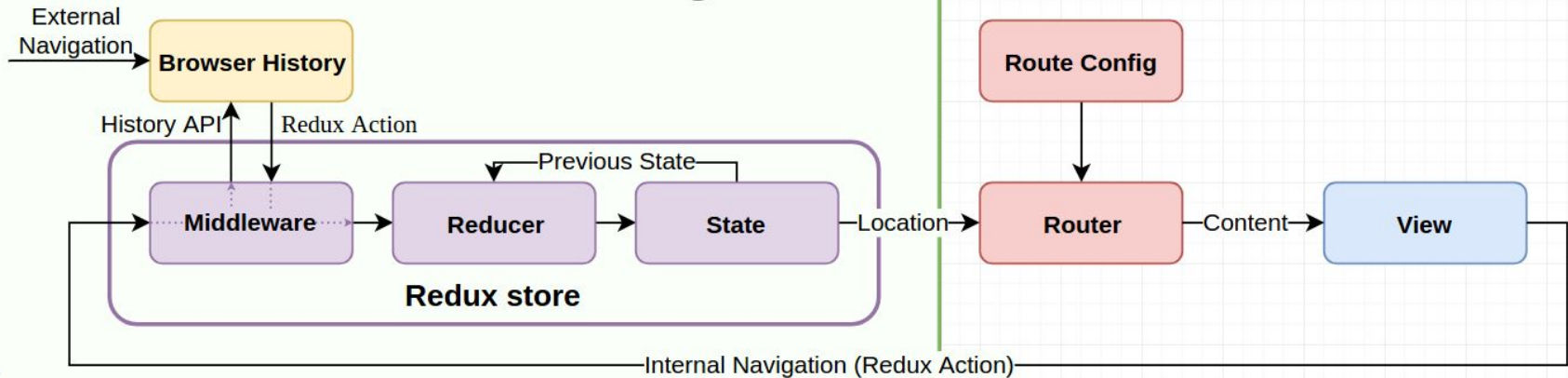
A minimal, framework-agnostic API for accomplishing Redux-first routing.

● JavaScript ★ 34 🍴 1



What about the actual router component?

Redux-First Routing



Redux-First Routing

External
Navigation

Browser History

History API

Redux Action

Middleware

Reducer

State

Redux store

Previous State

Location

Universal Router

Route Config

Router

Content

View Library

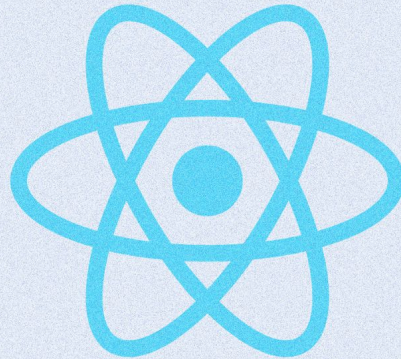
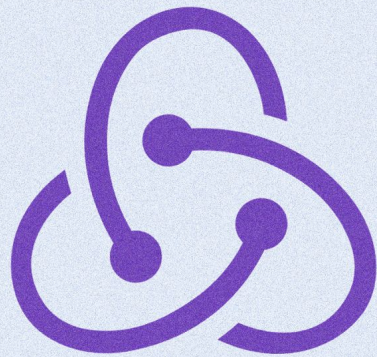
(React, Vue, etc.)

View

Internal Navigation (Redux Action)



Usage with React





Declarative Navigation

- demo



Declarative Routing

What is a router anyway?

Route configuration ↘

Matched content

Current Location ↗



Strategy 1: A monolithic `<Router />` component

- demo



Strategy 2: Composable `<Route />` components

- demo



Conclusion

- GitHub
 - <https://github.com/mksarge/redux-first-routing>
 - <https://github.com/mksarge/redux-json-router>
- Twitter
 - @michaelksarge
- Links
 - <https://medium.freecodecamp.org/98926ebf53cb>
 - <https://gist.github.com/mksarge/d02e8d14a5496dc98d4dde60dbebbf3c>
 - <https://hackernoon.com/d3a717dd577f>