An Introduction to the Redux-First Routing Model

Michael Sargent
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Michael Sargent Follow
Software developer with an enthusiasm for open-source web technologies. Always curious, and always l…
Jun 21 · 14 min read

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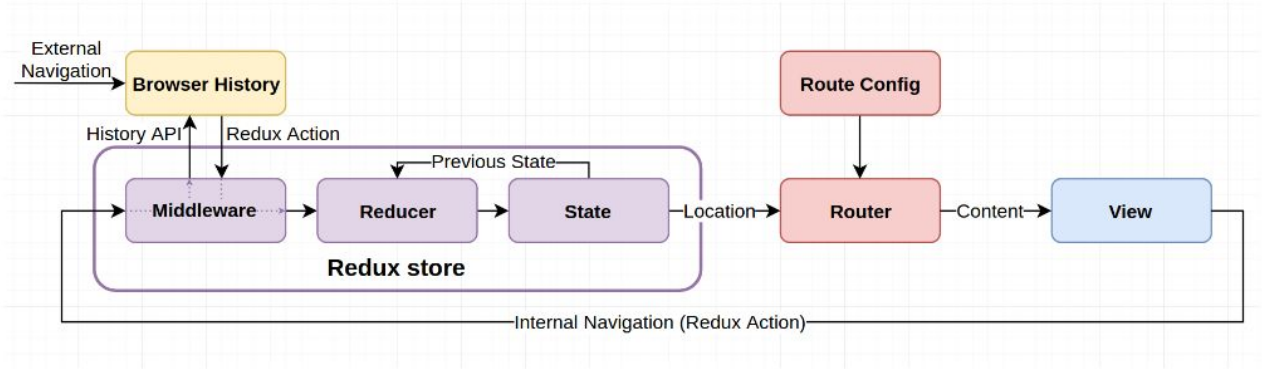

A routing library is a key component of any complex, single-page application. If you develop web apps with React and Redux, you've probably used, or at least heard of React Router. It's a well-known routing library for

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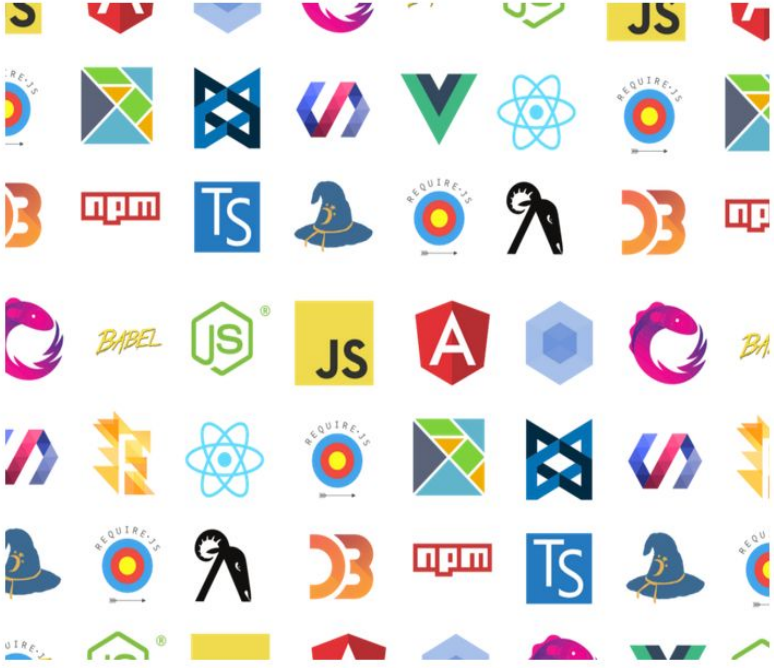
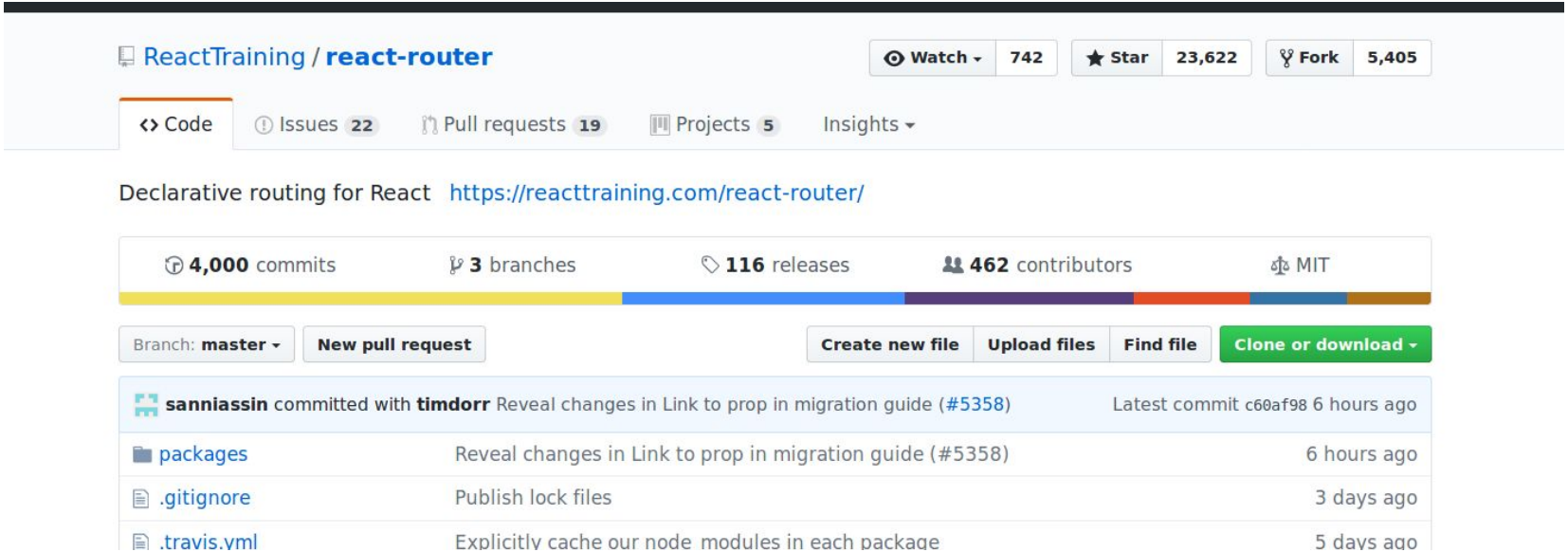
How it feels to learn JavaScript in 2016



Client-Side Routing and Redux (and React)

React Router



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.

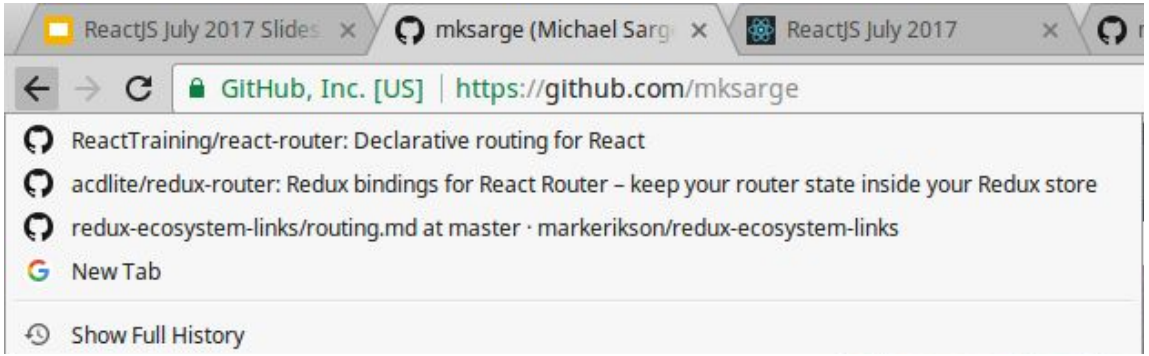
Window.history (History API)

Traditional:

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

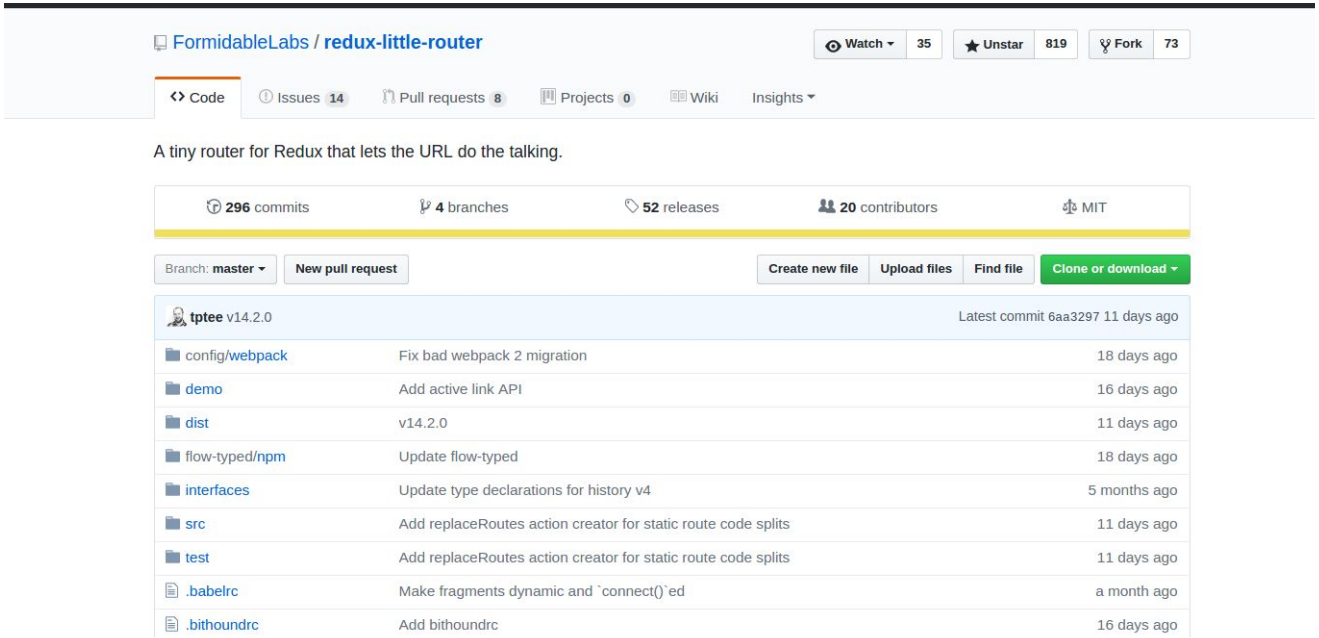
HTML5:

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

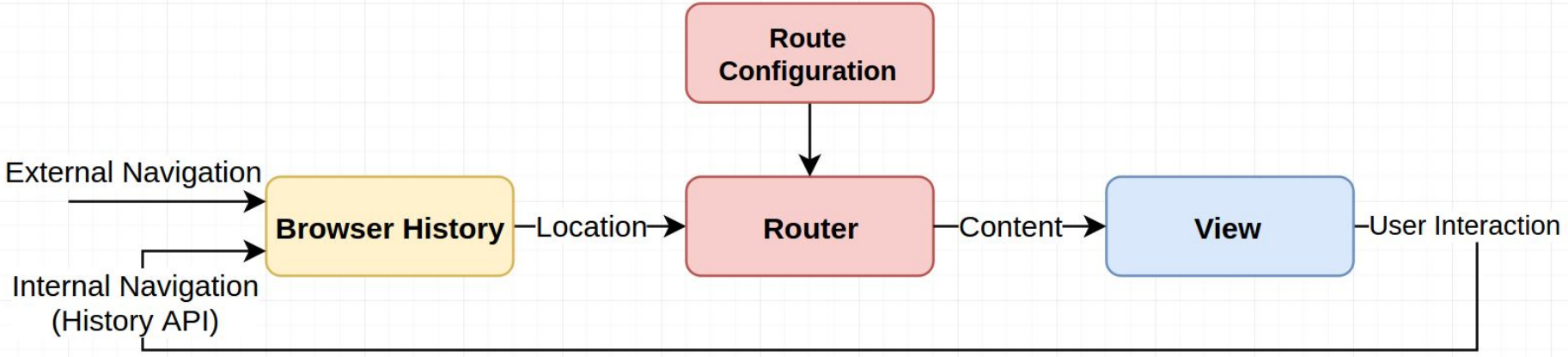


Redux & pushState Routing

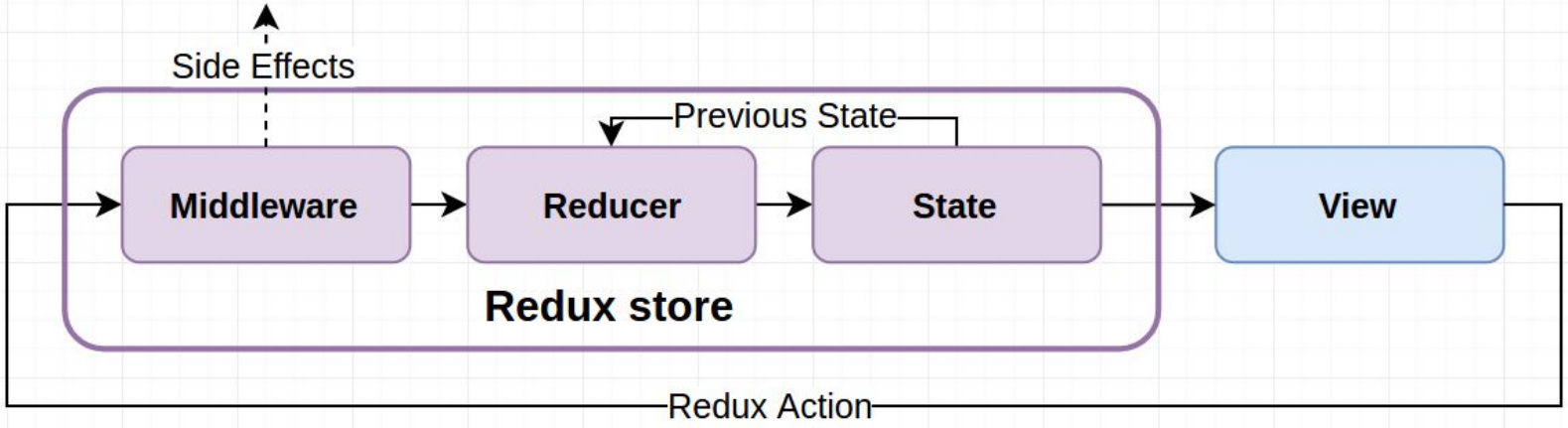
redux-little-router



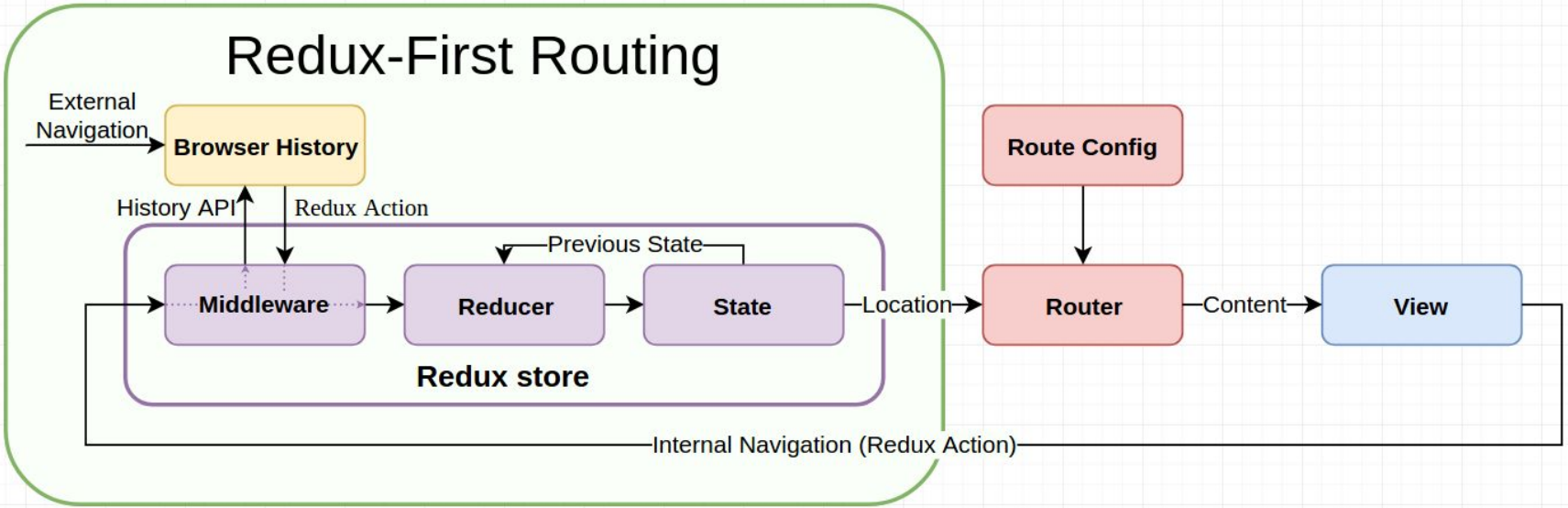
Revisiting the Client-Side Routing Model


Route Configuration
External Navigation
Browser History
Location
Router
Content
View
User Interaction
Internal Navigation (History API)

Revisiting the Redux Data Lifecycle Model


Side Effects
Previous State
Middleware
Reducer
State
View
Redux store
Redux Action

Building a Redux-First Routing Model

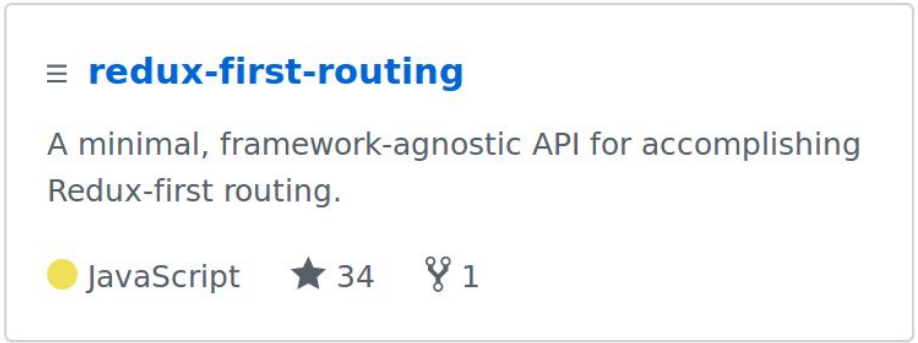

Redux-First Routing
External Navigation
Browser History
History API
Redux Action
Previous State
Middleware
Reducer
State
Redux store
Location
Route Config
Router
Content
View
Internal Navigation (Redux Action)

A Simple Implementation

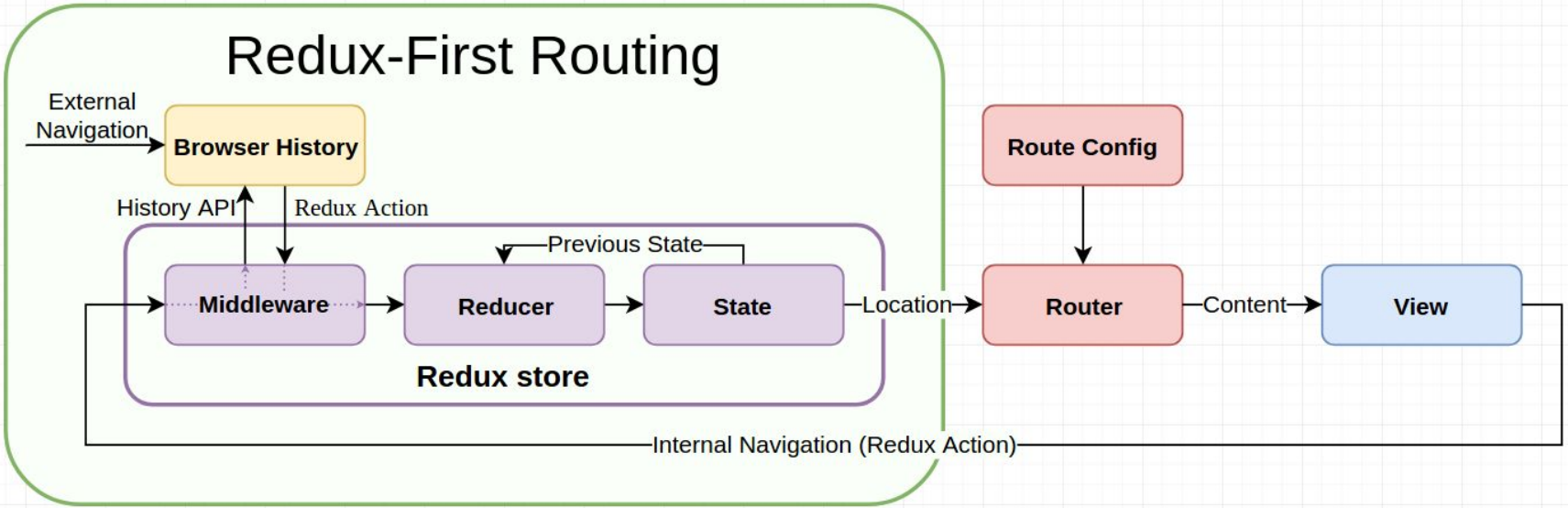
- demo

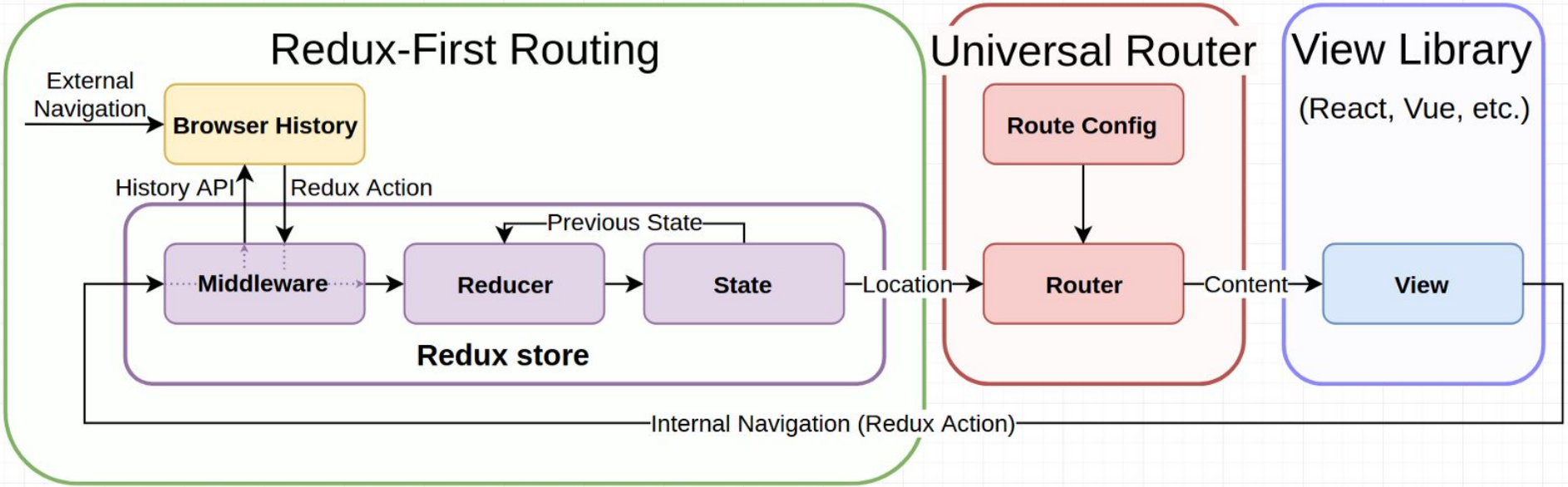
The redux-first-routing package

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

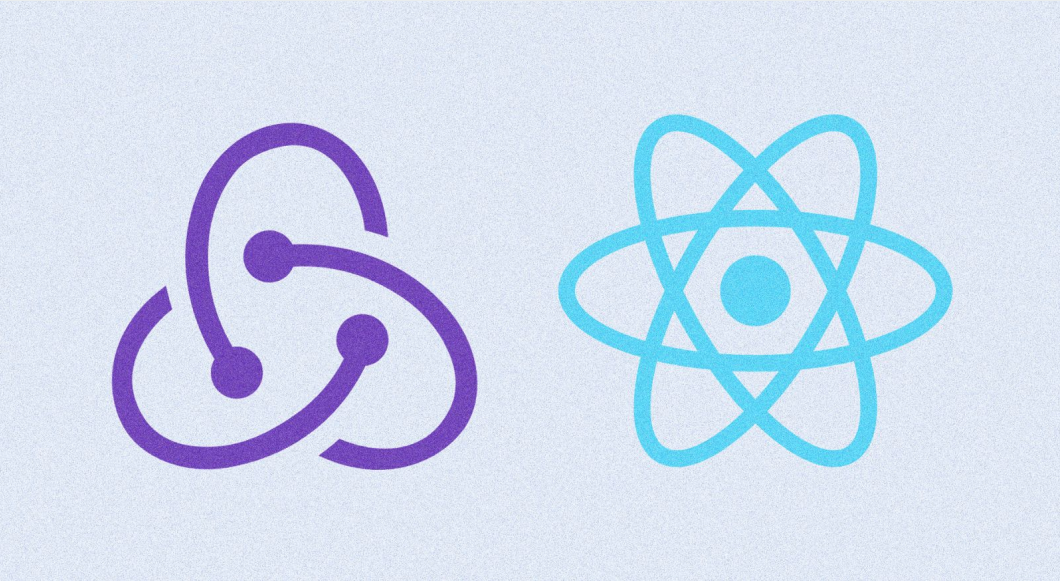


What about the actual router component?


Redux-First Routing
External Navigation
Browser History
History API
Redux Action
Previous State
Middleware
Reducer
State
Redux store
Location
Route Config
Router
Content
View
Internal Navigation (Redux Action)


Redux-First Routing
External Navigation
Browser History
History API
Redux Action
Previous State
Middleware
Reducer
State
Redux store
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