

Thomas Roch



Routing

Past and future of client-side routing

We've only seen one player. Is there any innovation going on? (...) Innovation already happened a few years before. And it happened in the Ember community

Christopher Chedeaux, React Europe keynote 2015

Is routing a solved problem?



Today is all about components





Components are data-driven (state)

We compose components together in trees of components

But when it comes to routing...

```
function App({ route }) {
   if (route === 'dashboard') {
      return <Dashboard />;
   }

if (route === 'profile') {
   return <Profile />;
   }
}
```

Why do we treat routing differently?

We have been influenced by server-side routing

```
router.register(r'users', UserViewSet)
Django
                 Route::get('/users', function () {
Laravel
                 });
Ruby on Rails
                 get '/users', to: 'users#list'
                 GET /users controllers.Users.list()
Play
                 app.get('/users', function(req, res) {
                     res.send('Users list');
Express
                 });
```

request \longrightarrow response route \longrightarrow action

Stateless routing

We transposed the same mental model to stateful browsers

Routers became responsible for rendering components...

...transitioning between them...

...and what about code splitting?

Routers are made more complex by being tied to a component library or framework

Routing has been mystified

What about view / state separation?



router5

github.com/router5/router5

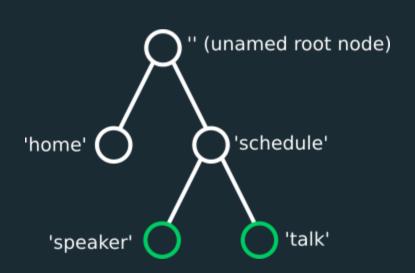
[Demo video 1]

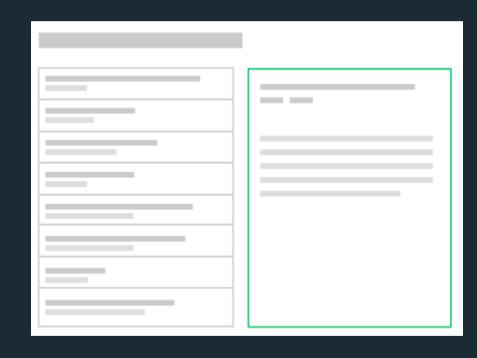
[Demo video 2]

router5 has advanced features

- Nested routes
- canActivate / canDeactivate
- Middleware functions
- Plugins

Linking nodes to your UI





Detecting the changing node



```
import React from 'react'
import { routeNode } from 'react-router5'

router.addNodeListener('', (state) => {
    /* ... */
});

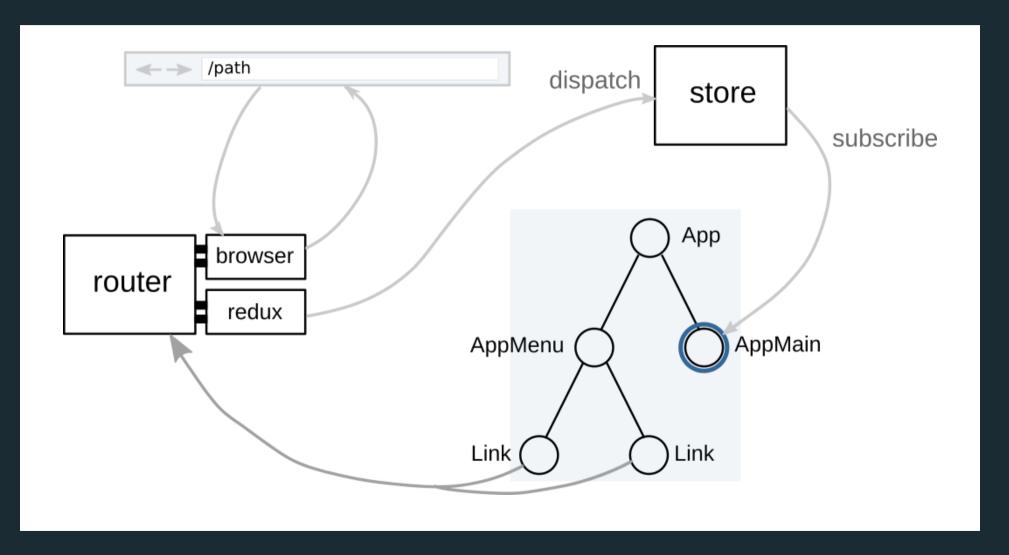
const AppMainRouteNode = routeNode('')(AppMain)
```

Middleware functions

- Delay a transition
- Prevent a transition
- Hook

Integration becomes straight forward

Integration with redux



Observables

```
import createRouter from 'router5'
import createObservables from 'rxjs-router5'
import routes from './routers'

const router = createRouter(routes);
const {
    route$,
    routeNode,
    transitionError$,
    transitionRoute$
} = createObservables(router)
```

Routing state / view separation

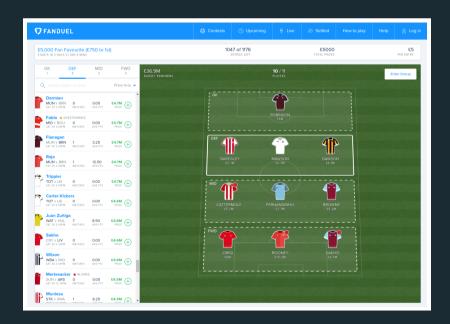
- Easier to integrate
- Leveraging existing component layers
- Code splitting
- Simpler universal architecture
- Native?

- github.com/grahammendick/navigation
- ·github.com/d6u/routility
- github.com/jamesknelson/junctions
- · github.com/rogerpadilla/prouter

FanDuel



Offices in Edinburgh and Glasgow UK product: react, redux and router5



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Thank you!

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