

# Front End Workshops

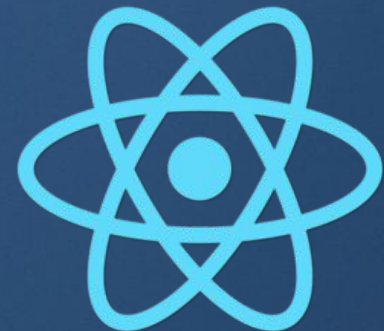
## React Router

[www.visual-engin.com](http://www.visual-engin.com)

Mario García Martín  
[mgarcia@visual-engin.com](mailto:mgarcia@visual-engin.com)



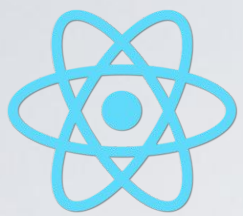
VISUAL  
ENGINEERING  
ADVANCED MOBILE  
TECHNOLOGY



# React Router

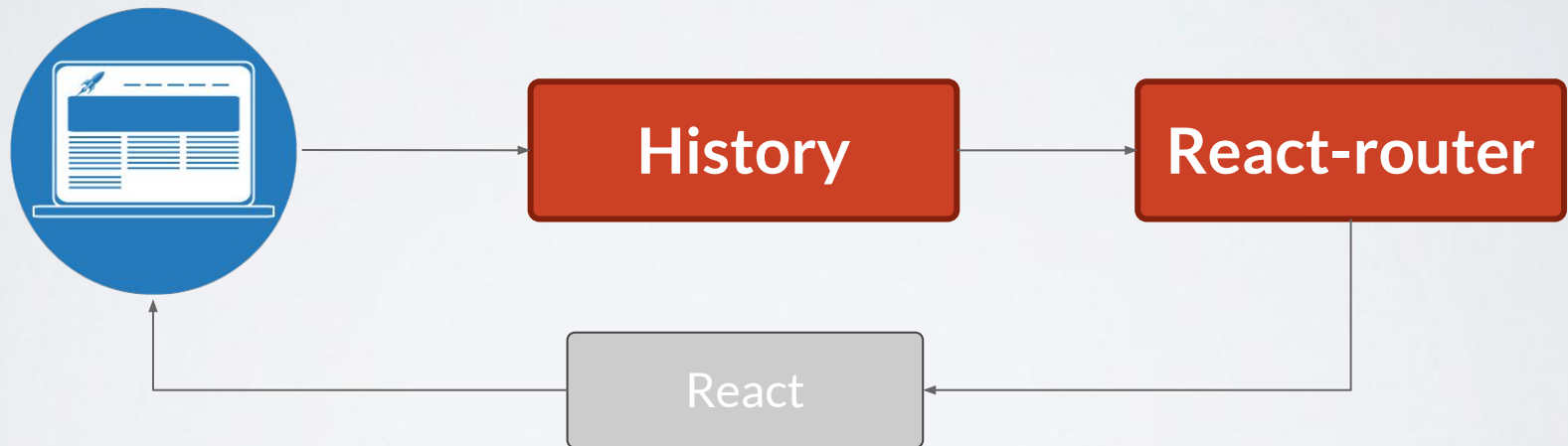
## Client side navigation

# Introduction



Inspired by [Ember.js](#) router

## How does a router work?



\*See alternative data management libraries at <https://github.com/facebook/react/wiki/Complementary-Tools#model-management>

\*See alternative routing libraries at <https://github.com/facebook/react/wiki/Complementary-Tools#routing>

# Histories

A **history** knows how to listen to the browser's address bar for changes

Different flavors are available...



`http://example.com/some/path`



`http://example.com/#/some/path`

...but you can build your custom history (if you dare)!

# Routing basics (1 of 2)

From...

```
ReactDOM.render(  
  <App />,  
  document.querySelector('.container')  
);
```

to...

```
ReactDOM.render(  
  <Router history={browserHistory}>  
    <Route path="/" component={App} />  
  </Router>,  
  document.querySelector('.container')  
);
```

A more practical example...

```
ReactDOM.render(  
  <Router history={browserHistory}>  
    <Route path="/" component={App} />  
    <Route path="/about" component={About} />  
    <Route path="/contact" component={Contact} />  
    <Route path="*" component={NotFound} />  
  </Router>,  
  document.querySelector('.container')  
);
```



# Routing basics (2 of 2)

A more scalable way of specifying the routes

## Same example using the routes prop...

```
// routes.js
export default (
  <Route path="/" component={App} />
  <Route path="/about" component={About} />
  <Route path="/contact" component={Contact} />
  <Route path="*" component={NotFound} />
);
```

```
import routes from './routes';
ReactDOM.render(
  <Router history={browserHistory} routes={routes} />,
  document.querySelector('.container')
);
```

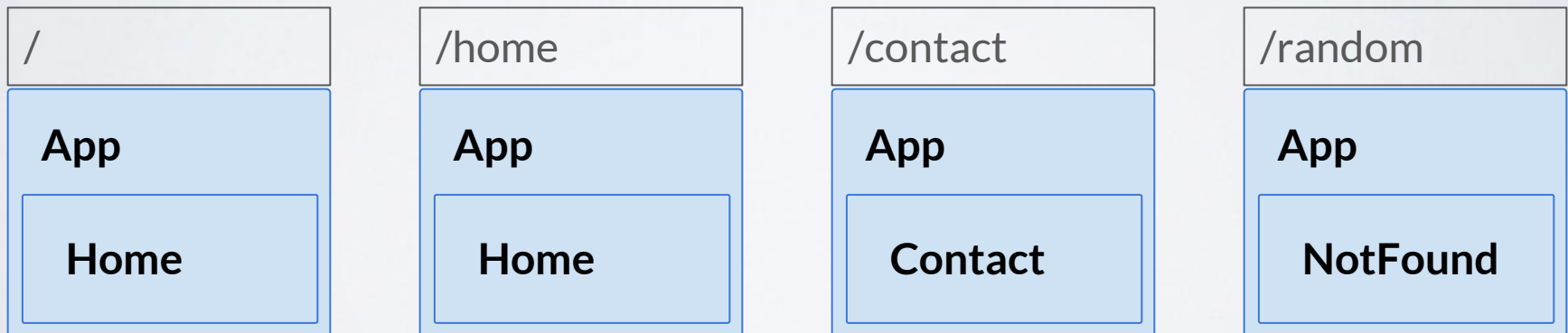
\*For more advanced usage, see <https://github.com/reactjs/react-router/blob/master/docs/guides/DynamicRouting.md>

# Route nesting

```
ReactDOM.render(  
  <Router history={browserHistory}>  
    <Route path="/" component={App}>  
      <IndexRoute component={Home} />  
      <Redirect from="home" to="/" />  
      <Route path="contact" component={Contact} />  
      <Route path="*" component={NotFound} />  
    </Route>  
  </Router>,  
  document.querySelector('.container')  
);
```

Don't forget to  
**render** the children  
components inside  
their parent!

`{this.props.children}`



# Dynamic routing

In the **route** you can define **dynamic segments**

```
<Route path="/users/:userId" component={UserItem} />
```

In the **component** you can use **this.props.params.<param\_name>**

Define an **optional param** by wrapping it between parenthesis

```
<Route path="/contact(/:mode)" component={Contact} />
```

In the **component** you can use **this.props.params.<param\_name>**





# Navigation links

## Link



```
<Link to="/contact">Contact us</Link>
```

```
<Link to={"/users/" + user.id} activeStyle={{ color: red }}>User details</Link>
```

```
<Link to={"/users/" + user.id} activeClassName="active">User details</Link>
```

## IndexLink

```
<IndexLink to="/">Contact us</IndexLink>
```

## Query params

```
<Link to={{ pathname: "/user/bob", query: { showAge: true } }}>Bob</Link>
```

In the **component** you can use **this.props.location.query.<param\_name>**

# Navigation within components

The router instance can be made accessible through the **contextTypes**

Invoke router **push( '<target\_url>' )** or **replace( '<target\_url>' )** methods to navigate programmatically

```
class CoolButton extends Component {  
  static contextTypes = { router: PropTypes.object };  
  onClick() {  
    this.context.router.push('/cool');  
  }  
  render() {  
    return <button onClick={this.onClick.bind(this)}>Navigate</button>;  
  }  
}
```



**Not** the recommended way since react-router 2.4.0\*



\*See <https://github.com/reactjs/react-router/blob/master/upgrade-guides/v2.0.0.md#changes-to-thiscontext>

Thanks for your time!

Do you have any questions?





VISUAL  
ENGINEERING  
ADVANCED MOBILE  
TECHNOLOGY

[www.visual-engin.com](http://www.visual-engin.com)

[info@visual-engin.com](mailto:info@visual-engin.com)

Passeig de Gràcia, 67 1º 2ª  
(08008) Barcelona. España  
T.: (+34) 93 215 77 35

**Linked in**

[www.linkedin.com/companies/visual-engineering](http://www.linkedin.com/companies/visual-engineering)

**twitter**

[www.twitter.com/visualengin](http://www.twitter.com/visualengin)