Building Applications with React and Flux

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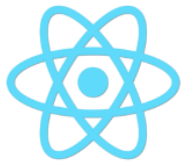
Here's the Plan



Module 1	Intro and Core Technologies
Module 2	Environment Setup
Module 3	React Core Concepts
Module 4	React Components
Module 5	React Lifecycle
Module 6	React Composition
Module 7	React Router
Module 8	React Forms
Module 9	Flux
Module 10	Flux Demos

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Who is This Course For?

New to React

New to React Router

New to Flux

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A World of Components

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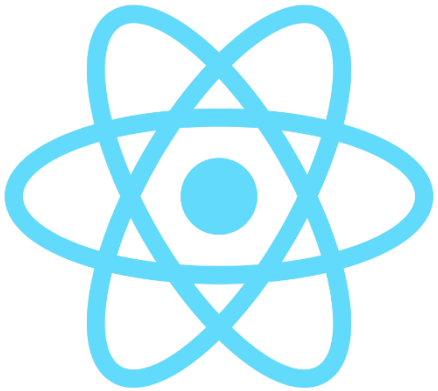
Innovation



JSX

Virtual DOM

Isomorphic Rendering

Unidirectional Flows

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They call it React for a reason.

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Ben Alman
@cowboy

Follow

Facebook: Rethink established best practices™

RETWEETS
21

FAVORITES
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4:40 PM - 29 May 2013

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Try to keep an open mind.

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HTML should be a *projection* of app state,
not a source of truth.

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JavaScript and HTML belong in the same file.

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Unidirectional flow. No two-way binding.

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Inline styles can be good.

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~~All Variables Should be Global.~~

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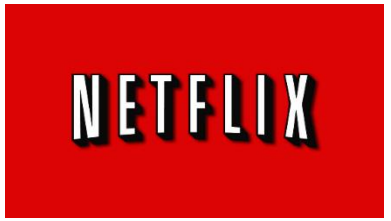
Battle Proven



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Let's Talk Tech

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Core Technologies

Server-side JavaScript

Node packages in the browser

Components

Routing

Unidirectional data flows

Task runner

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Node

- Server-side JS
- Uses the V8 Engine
- Includes npm package manager

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npm: Node's Package Manager

.NET	
Ruby	
Java	
Python	
PHP	
The Web	
Node	

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CommonJS Pattern

```
//1. Get reference to dependency
var dependency = require('/path/to/file');


//2. Declare module
var MyModule = {
  //code here…
}


//3. Expose to others
module.exports = MyModule;
```

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Browserify

Use Node modules in the browser

Bundle dependencies

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React

- Component Library
- Simple composition
- Utilizes virtual DOM
- Can render on client and server

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React Router

- Nested views map to nested routes
- Declarative
- Used at Facebook
- Inspired by Ember

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Flux

Uni-directional data flows

More a pattern than a library

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Gulp

- Task runner
- Rich plugin ecosystem
- Stream-based

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What about testing?

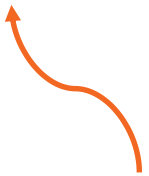
What about ES2015?

ES5

Approved in 2009

The JS you already know

Excellent browser support



We're using ES5 in this course.

ES2015 (ES6)

Approved June 2015

Browser support is growing

Can transpile to ES5 via Babel

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What about ES2015?

Versions

React 0.13.3

React-Router 0.13.3

Flux 2.0.3

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Wrap Up

Node & npm	Packages
React	Components
React Router	Routing
Flux	Data flows
Browserify	Bundler
Gulp	Builds

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