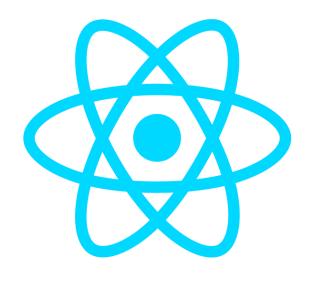
Building Applications with React and Flux



Cory House
PRINCIPAL CONSULTANT
reactjsconsulting.com



Who is This Course For?







New to React

New to React Router

New to Flux



Here's the Plan





Agenda



Who is this course for?

Why React?

Tech overview



Building Applications with React and Flux

Intro /

Introduces React

Flux

create-react-app

Introduces React Router

No Testing

Course Admin App

Building Applications with React and Redux

Assumes you know React

Advanced

Redux

Custom dev environment

Assumes you know React Router

Jest, Enzyme, React Testing Library

Course Admin App



What about testing?



Automated testing

Courses with testing coverage

- Building Applications with React and Redux
- Creating Reusable React Components



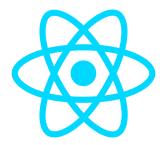
Why React?



A World of Components



















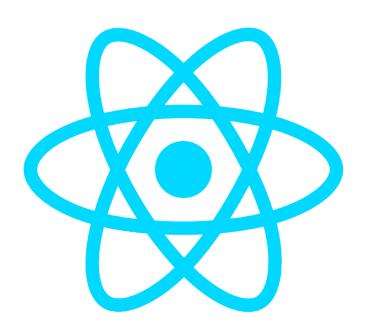








React



Component library
Simple composition



Why React?



Fast

Composable

Pluggable

Isomorphic friendly

Simple

Battle proven



Companies Using React























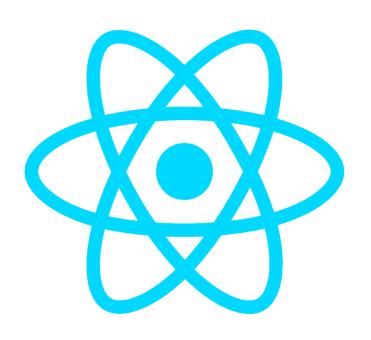








Innovation



JSX

Virtual DOM

Isomorphic Rendering

Unidirectional Flows

They call it React for a reason.









Facebook: Rethink established best practices™











RETWEETS

FAVORITES



















4:40 PM - 29 May 2013





Try to keep an open mind



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



JavaScript and HTML belong in the same file.



Unidirectional flow. No two-way binding.



Inline styles can be good.



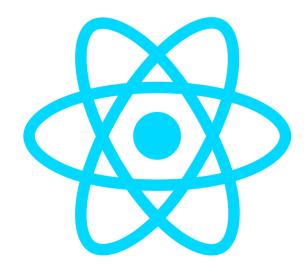
All variables should be global.

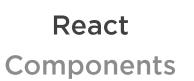


Tech Overview



Core Technologies







React Router Routing



Flux Data flow



React Router



Client-side router

Instantaneous page transitions

Declarative

Nested views map to nested routes



Flux



Uni-directional data flows

Updates flow in one direction

Easy to debug and scale

More a pattern than a library

Redux is a popular "flavor"



React Starter Projects

These are repositories that you copy and modify to create your own React app. Pick a starter project with all the features you need, and none that you don't.

To get started with most of these, you would clone the repository and then start making modifications.

Other starters are installed rather than copied: they become a dependency of your project. These dependency starters make it easier to get updates and they keep your project directory cleaner (because much of the code is wrapped in the dependency).

Q filter projects AGE

198 Projects

Sort ▼



Option: Build a dev environment.

Why?

- 1. Understand how key technologies work together
- 2. Learn how to customize your dev environment



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Building Applications with React and Redux

by Cory House

Learn how to use Redux, React Router, and ES6 to build a real world app with React. Use Webpack, Babel, ESLint, npm scripts, Mocha, Enzyme, and more to build a rich, one step, custom React development environment and build process from the ground up.

▶ Resume Course



((γ)) Add to Channel



Table of contents

Description

Transcript

Exercise files

Discussion

Learning Check

Recommended

These exercise files are intended to provide you with the assets you need to create a video-based hands-on experience. With the exercise files, you can follow along with the author and re-create the same solution on your computer. We find this to be even more effective than written lab exercises.

Download exercise files

Course author



Cory House

Cory is an independent consultant with over 15 years of experience in software development. He is the principal consultant at reactjsconsulting.com and a Microsoft MVP.

Course info

	Intermediate
Rating	**** (1183)

Share course









Create React App

Set up a modern web app by running one command.



GET STARTED

Less to Learn

You don't need to learn and configure many build tools. Instant reloads help you focus on development. When it's time to deploy, your bundles are optimized automatically.

Only One Dependency

Your app only needs one build dependency. We test Create React App to make sure that all of its underlying pieces work together seamlessly – no complicated version mismatches.

No Lock-In

Under the hood, we use Webpack, Babel, ESLint, and other amazing projects to power your app. If you ever want an advanced configuration, you can "eject" from Create React App and edit their config files directly.

Dev Environment: Create React App







Nodel



Babel



Webpack





Jest



Node



Server-side JS

Uses the V8 Engine

Includes npm package manager



npm: Node's Package Manager



.NET NuGet

Ruby

Java **maven**

Python PIP

PHP

Node

Babel



Transpile our code

We can use the latest JS features



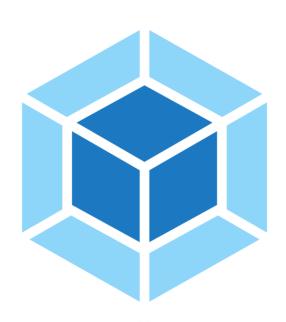
ECMAScript Versions

ES1	
ES2	
ES3	Tons of features! Yearly releases begin!
ES5	
ES2015	Destructuring, arrows, const, let, classes
ES2016	Exponent operator, array.includes.
ES2017	Async/Await
ES2018	Rest/Spread, dynamic imports
ES2019	
	ES2 ES3 ES5 ES2015 ES2016 ES2017





Webpack



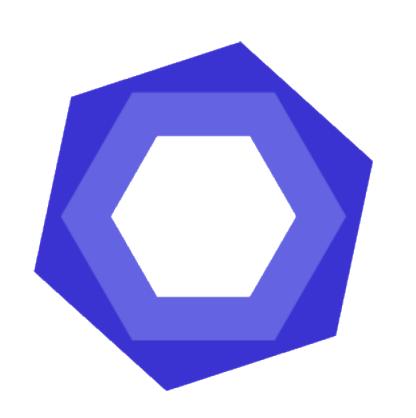
Bundler

Use npm packages on web apps

Bundle styles, images and more



ESLint



Check our code for issues

Report issues on the command line

Highly configurable and extendable



Wrap Up



Why React?

- Fast, composable, simple, proven
- JSX, virtual DOM

Core Tech

- React Components
- React Router Routing
- Flux Data flows
- Node, npm Packages/automation
- Babel Transpile
- Webpack Bundle
- ESLint Lint

Next up: Set up dev environment

