

React Foundation

What is React



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Quick Intro

Why should you care?

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- >> So many technologies
- >> Spaghetti code

Why should you care?

- >> So many technologies
- >> Spaghetti code
- >> Hard to test

The Definition

What is React.js?

It's not about templates, or data binding, or DOM manipulation. It's about using functional programming with a virtual DOM representation to build ambitious, high-performance apps with JavaScript.

Pete Hunt <http://bit.ly/1U53Rb2>

What React Brings to the Table

Key Differences

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>> Virtual DOM

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- >> Declarative (not imperative)
- >> Functional
- >> No DOM manipulation
- >> No templates
- >> No event listeners or handlers

MVC

React.js is not a model-view-controller (MVC) framework/library.

You need to bring your
own models and
routers.

React.js is only a
VIEW.

Web Stack

React.js can work with other MVC-like framework such as Backbone.js and Angular.js.

React.js is often used with Flux and React Router.

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Overview



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Module 1: Baby Steps

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1. Hello World

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1. Hello World
2. JSX

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2. JSX
3. Babel and Webpack

Module 1: Baby Steps

1. Hello World
2. JSX
3. Babel and Webpack
4. Hello World with JSX

Module 2: Component-Based Architecture

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1. Composing Components

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2. Variables

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3. Props

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2. Variables
3. Props
4. States

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5. Lists

Module 2: Component-Based Architecture

1. Composing Components
2. Variables
3. Props
4. States
5. Lists
6. Clock Project

Module 3: User Input

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1. Components Methods

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2. Browser Events

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3. Controlled Components

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4. Refs and Uncontrolled Components

Module 3: User Input

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5. Timer Project

Module 4: Advancing Components

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1. Prop Types and Default Prop Values

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2. Higher-Order Components

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3. Rendering Children

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1. Prop Types and Default Prop Values
2. Higher-Order Components
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4. `componentDidMount()` and Other Components Lifecycle Events

Before Moving Forward

Make sure you have

>> Node.js version 6+

>> npm version 3+

Use <http://nodejs.org> or nvm (recommended):

```
curl -o- https://raw.githubusercontent.com/creationix/nvm/v0.32.1/install.sh | bash
```