

React.js

When, Where and How to Use It

Brad Marsh @bbqhacker

- Senior Front End Developer at SmartThings
- Hobbyist Game Developer

Resource for this talk

Slides:

Code: <https://github.com/dottertrotter/MidwestJs>

What is React

View framework from Facebook

<http://facebook.github.io/react/index.html>

High Level Benefits

- Automatically reduces constant DOM updating by keeping a virtual DOM and only updating those parts that have changed or those that you explicitly say to update
- Produces highly reusable components
- Provides a “pure” javascript templating option

What React Is Not

- React is not an all inclusive MVC framework like Angular
 - Controllers can be created in whatever fashion you choose
 - Components have states and props, but are not Models

Hello World Examples

- <http://0.0.0.0:3000/examples/hello>
- <http://0.0.0.0:3000/examples/hello-2>

Components

- React Classes are capitalized to make the XML compatible and so it is not mistaken for an HTML tag
- React Class render method returns a SINGLE element
- Single element can contain many nested elements including other components

Components (continued)

- When finished loading will call:
 - `componentDidMount`

State and Props

- States are component data that the component sets itself via:
 - `getInitialState`
 - `this.setState`
- Props are select pieces of data that are passed to child components from a parent and are immutable by the child
 - `<HelloWorld message="Hello Cruel World" />`

State and Props (continued)

- When deciding whether to use state or props
 - <http://facebook.github.io/react/docs/interactivity-and-dynamic-uis.html#what-components-should-have-state>

Tic Tac Toe

A slightly more complex Hello World

<http://0.0.0.0:3000/>

React Native

Offshoot of the React project that allows you to use javascript to write native iOS applications

<https://facebook.github.io/react-native/>

Additional Reading

- In depth tutorial on creating a voting site using React, Mongo DB and Socket.IO
 - <http://sahatyalkabov.com/create-a-character-voting-app-using-react-nodejs-mongodb-and-socketio/>
- React.js Introduction For People Who Know Just Enough jQuery To Get By
 - <http://reactfordesigners.com/labs/reactjs-introduction-for-people-who-know-just-enough-jquery-to-get-by/>

Additional Reading (continued)

- Angular vs. React - the tie breaker
 - <https://www.airpair.com/angularjs/posts/angular-vs-react-the-tie-breaker>

Questions

Hopefully you have some.