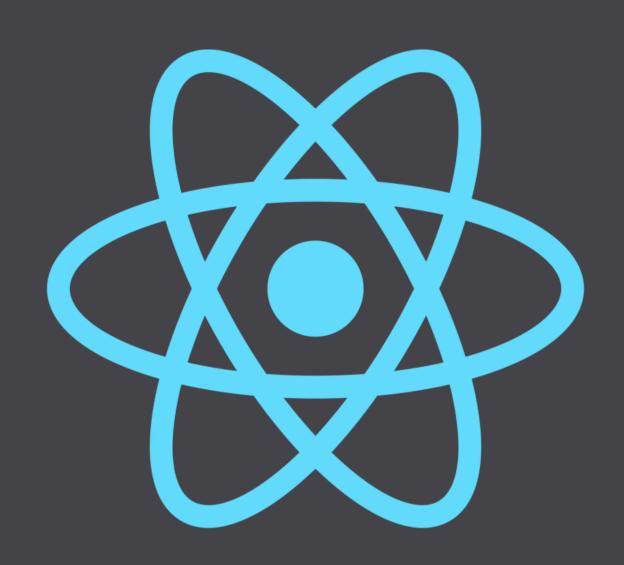
Intro to React



Objectives

- >> Describe what React is
- >> Understand what Webpack And Babel are doing
- » Describe Web Components and how they are rendered via the Virtual DOM
- >> Understand what state is

React Concepts

- >> Web Components
- >> 1 way data binding
- >> Virtual DOM
- >> JSX (which requires a "build" step)
- >> State management (Flux or Redux)

Getting Started

- >> Package Manager (NPM, Yarn, Bower)
- >> Module Bundler (Webpack, Browserify)
- >> Transpiler(Babel)
- >> Task Runner (Gulp, Grunt)

Components

```
class ShoppingList extends React.Component {
 render() {
   return (
     <div className="shopping-list">
      <h1>Shopping List for {this.props.name}</h1>
      <l
        Instagram
        WhatsApp
        0culus
      </div>
// Example usage: <ShoppingList name="Mark" />
```

What are Props?

```
<Image source={pic} style={{width: 193, height: 110}}/>
```

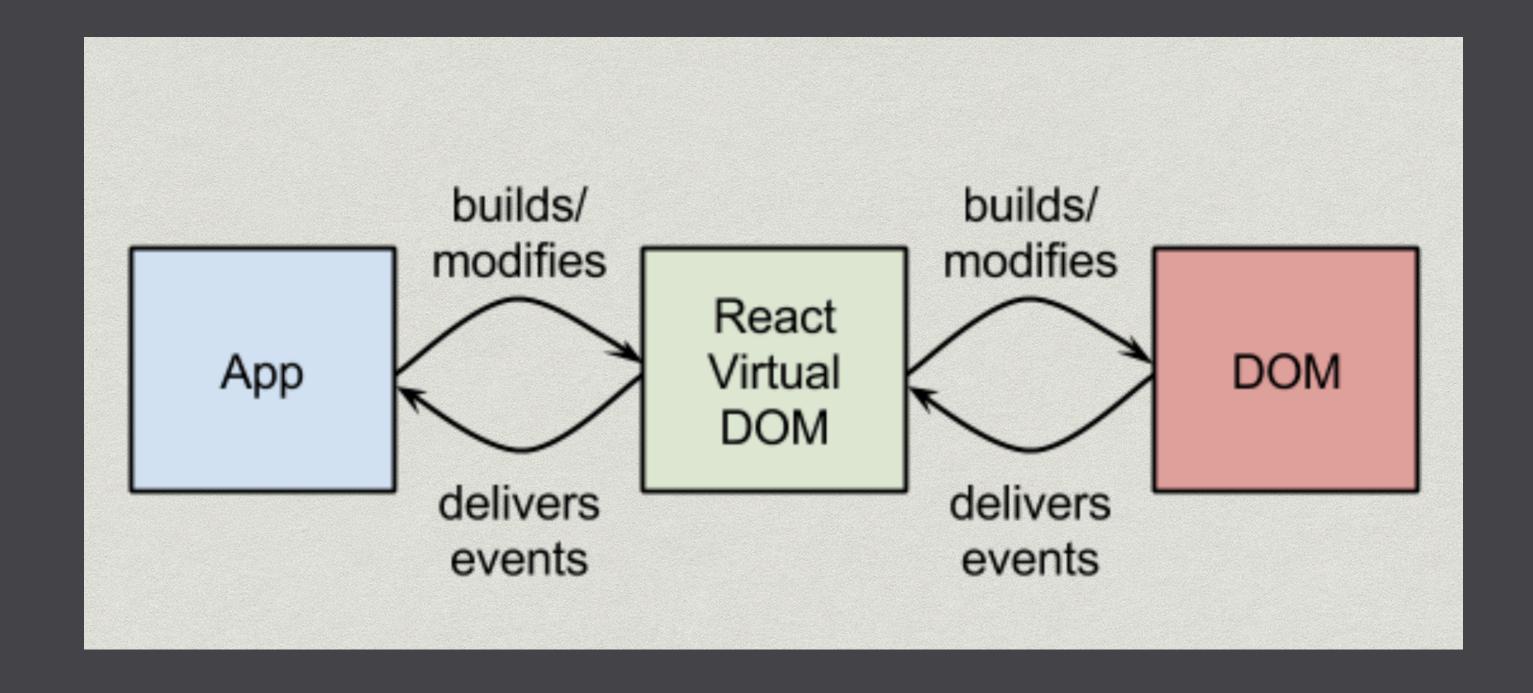
- >> Customize components with
 parameters = props
- Can use destructuring to get prop name off props

```
class Greeting extends Component {
  render() {
    return (
      <Text>Hello {this.props.name}!</Text>
   );
export default class LotsOfGreetings extends Component {
  render() {
    return (
      <View style={{alignItems: 'center'}}>
        <Greeting name='Rexxar' />
        <Greeting name='Jaina' />
        <Greeting name='Valeera' />
      </View>
```

JSX

```
<div className="row">
  <div className="col s12">
    >
      The message is:
    <blook<br/>quote>
      {text}
    </blockquote>
  </div>
</div>
```

Virtual DOM



Understanding State

- >> constructor
- >> state
- >> setState()
- >> render

```
class Board extends React.Component {
  constructor(props) {
   super(props);
   this.state = {
      squares: Array(9).fill(null),
   };
  render() {
   const status = 'Next player: X';
   return (
     <div>
        <div className="status">{status}</div>
        <div className="board-row">
          {this.renderSquare(0)}
          {this.renderSquare(1)}
          {this.renderSquare(2)}
        </div>
      </div>
```

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