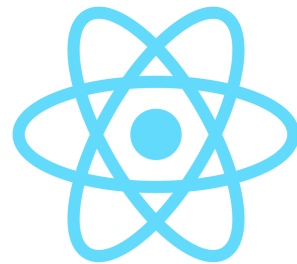


Style in React.js

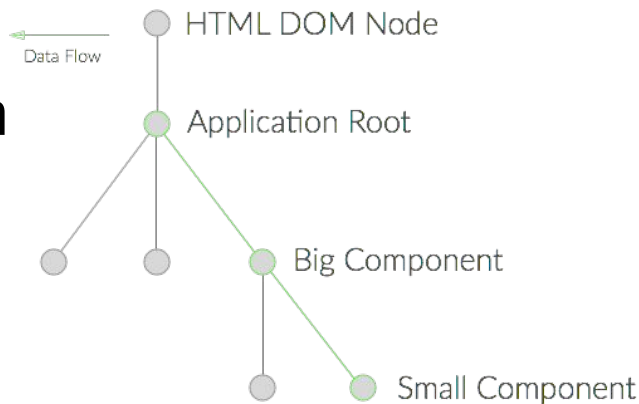
aka React in Style

Clark Nelson
@chidevdesign



What is React?

- Created and used by Facebook
- Powerful state management system
- One way data flow
- Uses Virtual Dom, Lightweight
- Only re-renders when needed



“We built React to solve one problem:
**building large applications with data that
changes over time.**”

- Global Namespace
- Dead Code
- Large unorganized files

- Global Namespace
- Dead Code
- Large unorganized files

>600 globals

Yet, we still use global variables everywhere in CSS-land. For example Bootstrap introduces a whopping 600 global variables :(

<https://speakerdeck.com/vjeux/react-css-in-js>

Style in React.js

- React uses JavaScript objects to inject inline styles into elements.
- Styles are then specific to the component, no more dense css files.
- You can also use JavaScript to compute values

```
var Paragraph = React.createClass({  
  render: function() {  
    var styles = {  
      color: this.props.color, // React.js  
      fontSize: 36, // Number  
      fontFamily: "Roboto, sans-serif", // String  
    };  
    return <p style={styles}>Hello Open Source Open Mic</p>;  
  }  
});
```

<http://jailbot.github.io/jsx-demo/>

Only one DOM node

```
<body>
  <div id="container"></div>
  <script src="shared/thirdparty/es5-shim.min.js"></script>
  <script src="shared/thirdparty/es5-sham.min.js"></script>
  <script src="shared/thirdparty/console-polyfill.js"></script>
  <script src="build/react.js"></script>
  <script src="build/JSXTransformer.js"></script>
  <script type="text/jsx">
```

Component re-rendered on state change

```
changeColor: function(e){
  this.setState({
    color: this.genColor()
  });
},
technoMode: function(){
  if (this.state.techno){
    clearInterval(this.state.techno);
    this.setState({techno: false});
  } else {
    this.setState({techno: setInterval(this.changeColor, 100)});
  }
},
},
```

Create initial state, color helper function

```
var Example = React.createClass({
  getInitialState: function(){
    return {
      color: "red",
      techno: false
    }
  },
  genColor: function(){
    var r = Math.round(Math.random()*16).toString(16);
    var g = Math.round(Math.random()*16).toString(16);
    var b = Math.round(Math.random()*16).toString(16);
    return "#" + r + g + b;
  },
});
```

Paragraph accepts color from state

```
render: function() {
  return (
    <div>
      <Paragraph color={this.state.color}/>
      <button onClick={this.changeColor}>Change Color</button>
      <button onClick={this.technoMode}>Techno Mode</button>
    </div>);
}

React.render(
  <Example />,
  document.getElementById('container')
);
```