

APPDEV SIG PRESENTS

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**REACT JS + ES6**

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# ES6

- ▶ ES6 is a significant update to the language used by JavaScript
- ▶ Lots of new goodies like arrow functions, default function params, and OOP-style classes
- ▶ Supported in all the latest browsers, but only the latest (IE 11 and iOS9 Safari have poor support, for example)
- ▶ Many build tools like BabelJS can automatically compile your ES6 code into ES5.

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# REACT

- ▶ React is a JavaScript library for building fast user interfaces
- ▶ Uses simple declarative views which react to state changes
- ▶ Can actually run react in the browser, on your server (nodeJS) or even in native apps (reactNative).
- ▶ Today we'll mostly talk about React for browser clients

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# REACT "HELLO WORLD" EXAMPLE

```
class App extends React.Component {  
  render() {  
    return (  
      <div>  
        <p> Hello AppDev! </p>  
      </div>  
    );  
  }  
}
```

```
render(<App />, document.getElementById('app'));
```

---

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      <div>  
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    );  
  }  
}
```

THERE'S HTML IN MY JAVASCRIPT!

```
render(<App />, document.getElementById('app'));
```

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# JSX COMBINES HTML AND JAVASCRIPT

```
render() {  
  const message = condition ?  
    <p>Yes</p> :  
    <h3>False</h3>;  
  return (  
    <div>  
      {message}  
    </div>  
  );  
}
```

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# JSX IS JUST JAVASCRIPT UNDER THE HOOD

```
render() {  
  var message = condition ? _react2.default.createElement(  
    'p',  
    null,  
    'Yes'  
  ) : _react2.default.createElement(  
    'h3',  
    null,  
    'False'  
  );  
  return _react2.default.createElement(  
    'div',  
    null,  
    message  
  );  
}
```

# DEMO: COMPONENTS



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# STATE: THE BEATING HEART OF REACT

- ▶ A component can maintain internal state data (accessed via `this.state`).
- ▶ When a component's state data changes, the rendered markup will be updated by re-invoking `render()`.
- ▶ Changes will cascade appropriately to all sub-components.

**DEMO:  
STATE**

# DEMO: EVENTS

NOW YOU KNOW

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**REACT JS**

**BUT...**

LET'S CHECK OUT

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**REACT NATIVE**

ANY QUESTIONS ABOUT:

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**REACT JS + ES6**

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# INFO AND LINKS

- ▶ All ReactJS code available open source at
  - ▶ <https://github.com/srkirkland/reactjs-training>
- ▶ Learn more about React from
  - ▶ <https://facebook.github.io/react/>
- ▶ Tools
  - ▶ Babel: compile ES6 and React into plain JS
  - ▶ Webpack: task runner, here it runs Babel