React

Criar uma app do zero

Creating an app from scratch

Gonçalo Baltazar

Web Developer (Full Stack) @ Xpand IT



Xpand IT Products

Atlassian Apps for Jira (add-ons)



Webinar Files

git clone https://github.com/goncalomb/talk-intro-nodejs-react.git

React

JavaScript Library for User Interfaces

- Originally created by Facebook
- Declarative
- Reusable Components

React

Using Node.js and the HTML DOM.

• Node.js: JS Runtime

• Babel: transpiler

• Webpack: file bundler







AngularJS

React Components

ECMAScript 2015 (ES6)

React Elements

```
const el = document.createElement('a');
el.setAttribute('href', 'https://www.google.com/');
el.style.fontSize = '2em';
el.innerText = 'Google';
document.body.appendChild(el);

const el = React.createElement('a', {
    href: 'https://www.google.com/',
    style: {
        fontSize: '2em'
    }
}, 'Google');
ReactDOM.render(el, document.body);
```

JSX

Components And Props

JSX is NOT valid JavaScript

Browsers and other JS engines don't run JSX directly.

We use **Node.js** the **Babel Compiler**, to compile the JSX and create valid JS code.

Demo

scripts/08-components.jsx
scripts/08-components.html

State

```
class MyComponent extends React.Component {
    constructor(props) {
       super(props);
       this.state = { text: "Hello" };
    render() {
        return (
            <div>
                {this.state.text}
            </div>
        );
};
ReactDOM.render(<MyComponent />, document.body);
        this.setState({ text: "Bye" });
```

Reactivity

Changes to properties & state cause the component to re-render.

this.props

JSX, <SomeComponent prop1="hi" />

this.state

this.setState({ state1: "bye" })

Events

Demo

scripts/08-components.jsx
scripts/08-components.html

TODO Application

What's Next?

- Lifecycle Hooks
- Context
- **Hooks**: a "new" way of creating components
- **Redux**: separate library to manage a global state
- **React Outside the Browser**: server side rendering, react-native, react-blessed, etc.

• ...

Q & A

Can React run on the Server?

ReactDOMServer (server-side rendering)

What about routing?

Next.js and friends...

And other platforms?

React Native (IOS, Android, UWP), Electron (Desktop)

Webinar Files

https://github.com/goncalomb/talk-intro-nodejs-react With more examples and more slides.

Gonçalo Baltazar

goncalo.baltazar@xpand-it.com | hello@goncalomb.com goncalomb.com | github.com/goncalomb

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