



Getting Started with React & React Native



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⚠ Warning ⚠

This workshop has been made for the purposes of Space Apps and this presentation doesn't reflect the best practices of React or React Native.

What is react?

React is a declarative, efficient, and flexible JavaScript library for building user interfaces.

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React is a declarative, efficient, and flexible JavaScript library for building user interfaces.

It lets you compose complex UIs from small and isolated pieces of code called “components”.

JSX

JSX is basically React's template language

Allow user to write Javascript elements in an elegant way

JSX

Example:

```
class HelloWorld extends React.Component {  
  render() {  
    return (  
      <h1 className='large'>Hello World</h1>  
    );  
  }  
}
```

JSX

As Javascript:

```
class HelloWorld extends React.Component {  
  render() {  
    return (  
      React.createElement(  
        'h1',  
        {className: 'large'},  
        'Hello World'  
      )  
    );  
  }  
}
```

Let's Start!

Requirements:

npm

Comes with node:

<https://nodejs.org/en/download/>

Create React App

The create react app is a quick and easy way to get started with react.

To install:

```
npm install -g create-react-app
```

To create a project:

```
create-react-app project-name
```

Demo React

<https://github.com/mbrooks/spaceapps-epic>

Components

- React makes use of components instead MVC
- React basically has big components and small components
- Same pattern repeats throughout

Props

- Props are a way of passing data into a component

State

- State is an object that determines how that component renders & behaves. In other words, “state” is what allows you to create components that are dynamic and interactive.

Create React Native App

The create react native app is like create react app only for react native.

To install:

```
npm install -g create-react-native-app
```

To create a project:

```
create-react-native-app project-name
```

Demo React Native

<https://github.com/mbrooks/spaceapps-epic-native>

Thanks!

