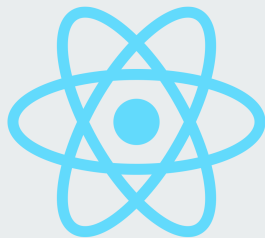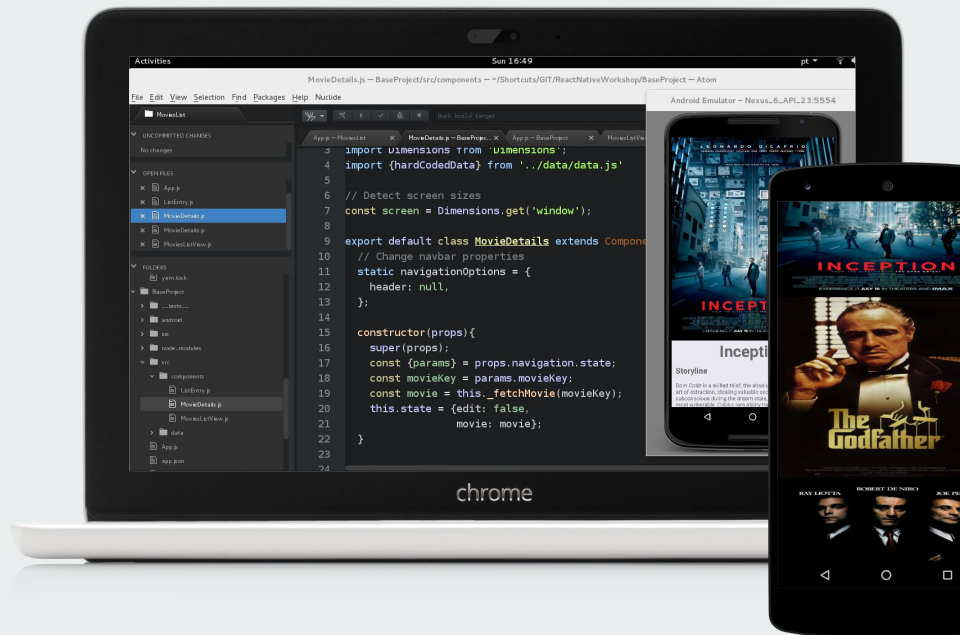# React Native

Learn once, write anywhere

Outline

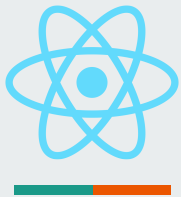**What** → React native overview

Why → Advantages of using react native

How → A look inside react native and a simple project where you can experiment
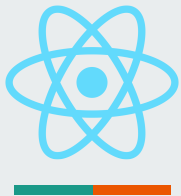
What is
React Native?

01

→ **A framework for building mobile apps using javascript and react**

→ **Build cross platforms (Android / iOS)**

→ **Uses almost all react concepts such has:**

◆ **Components**

◆ **State**

◆ **Props**

◆ **etc...**

Note: react native is used for the Facebook mobile app.

Why
React Native?
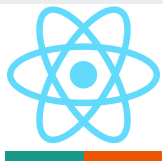
02

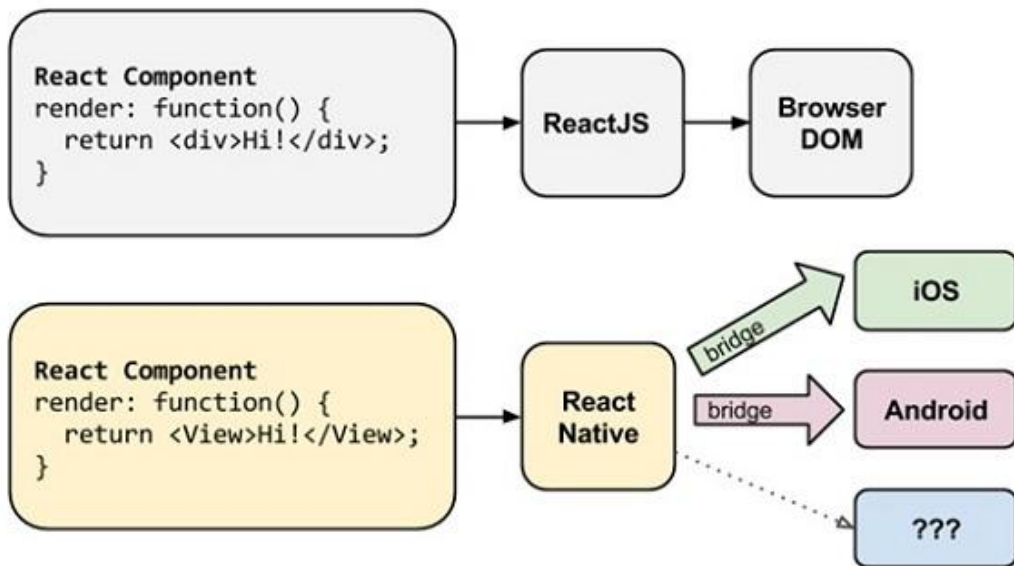Main advantage points of this technology

→ Free and open source - BSD license

→ No time wasted recompiling

→ Use native code when you need to

→ Learn once, write anywhere

→ No hybrid apps i.e doesn't run in a webview

→ Easier to code compared to java

This is all very interesting, but <u>how</u> does it work?

JavaScript bridge


```
React Component
render: function() {
  return <div>Hi!</div>;
}
```

ReactJS → Browser DOM

```
React Component
render: function() {
  return <View>Hi!</View>;
}
```
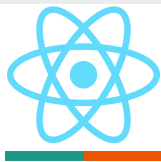
React Native → iOS (bridge), Android (bridge), ???
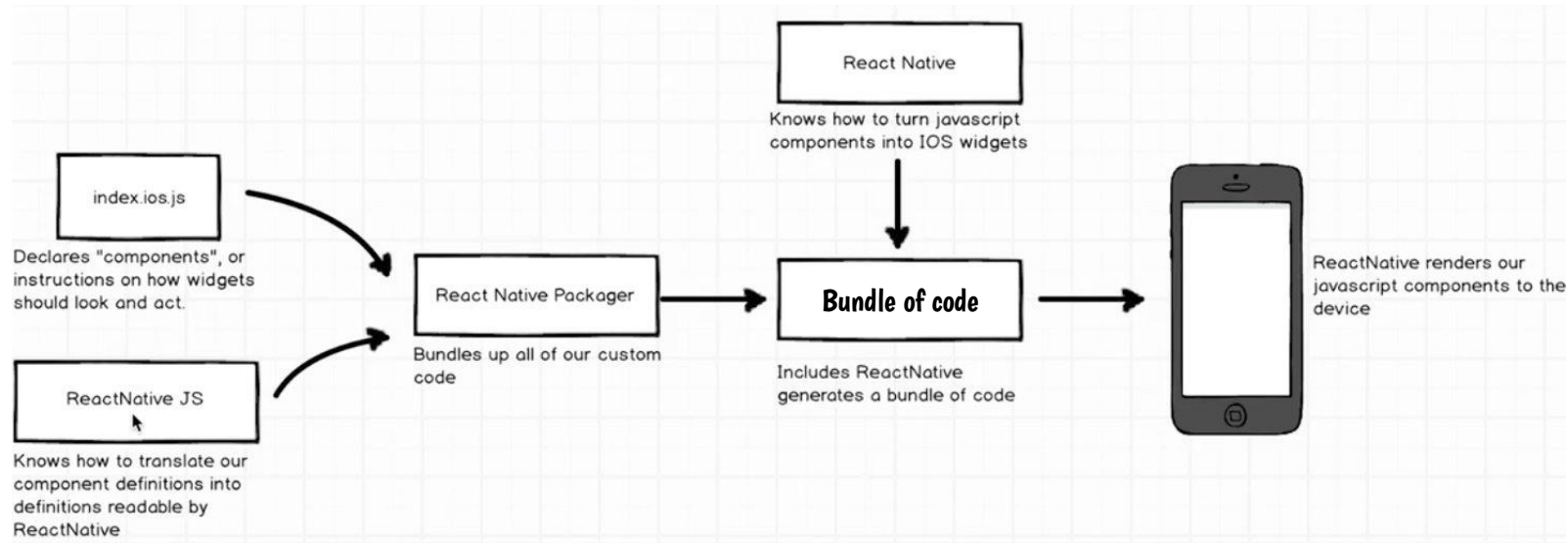
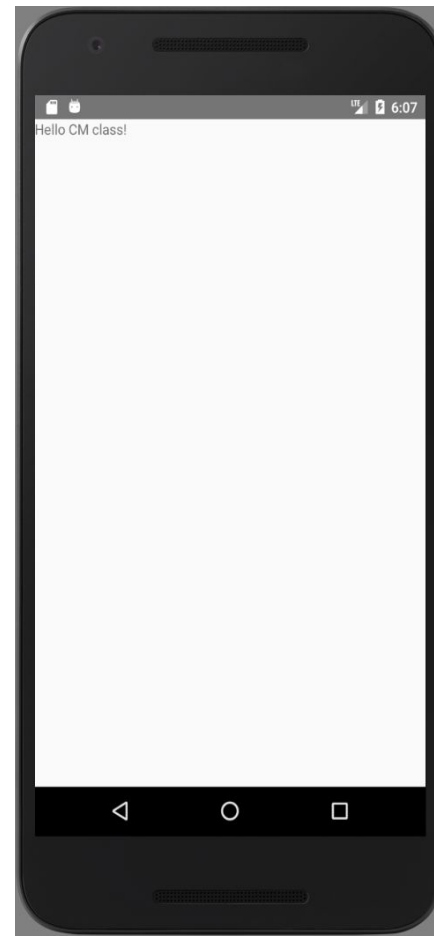React JavaScript

Android Native

React Native Packager
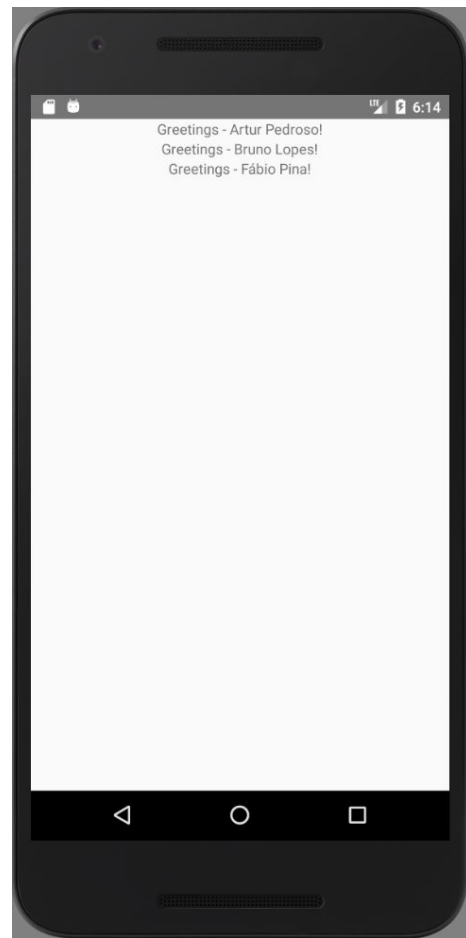
React concepts

```
1  import React, { Component } from 'react';
2  import { Text } from 'react-native';
3
4  export default class App extends Component<{}> {
5    render() {
6      return (
7        <Text>Hello CM class!</Text>
8      );
9    }
10 }
```


Hello CM class!

```jsx
import React, { Component } from 'react';
import { AppRegistry, Text, View } from 'react-native';

class Greeting extends Component {
  render() {
    return (
      <Text>Greetings - {this.props.name}!</Text>
    );
  }
}

export default class App extends Component<{}> {
  render() {
    return (
      <View style={{alignItems: 'center'}}>
        <Greeting name='Artur Pedroso' />
        <Greeting name='Bruno Lopes' />
        <Greeting name='Fábio Pina' />
      </View>
    );
  }
}
```


Props

```javascript
import React, { Component } from 'react';
import { AppRegistry, Text, View } from 'react-native';

class Blink extends Component {
  constructor(props) {
    super(props);
    this.state = {showText: true};

    // Toggle the state every moment
    setInterval(() => {
      this.setState(previousState => {
        return { showText: !previousState.showText };
      });
    }, Math.floor((Math.random() * 1700) + 700));
  }

  render() {
    let display = this.state.showText ? this.props.text : ' ';
    return (
      <Text>{display}</Text>
    );
  }
}
export default class App extends Component<{}> {
  render() {
    return (
      <View>
        <Blink text='I love to blink' />
        <Blink text='Yes blinking is so great' />
        <Blink text='What sorcery is this?' />
        <Blink text='The upside down' />
      </View>
    );
  }
}
```
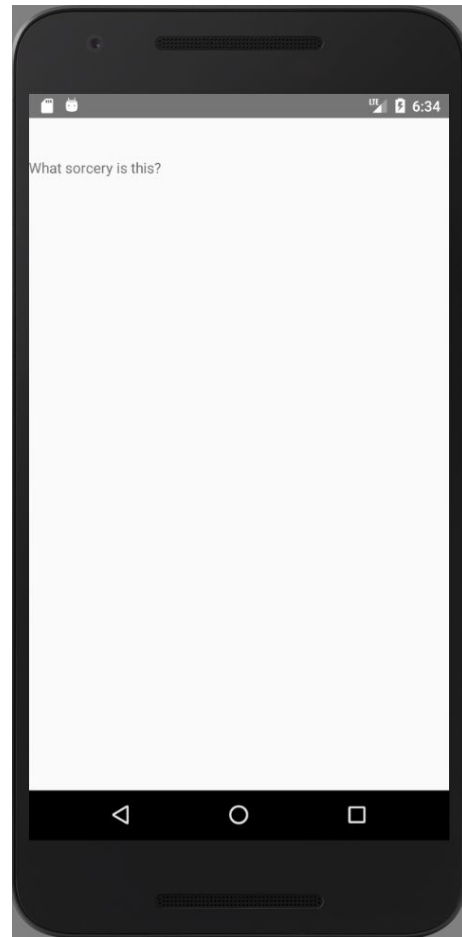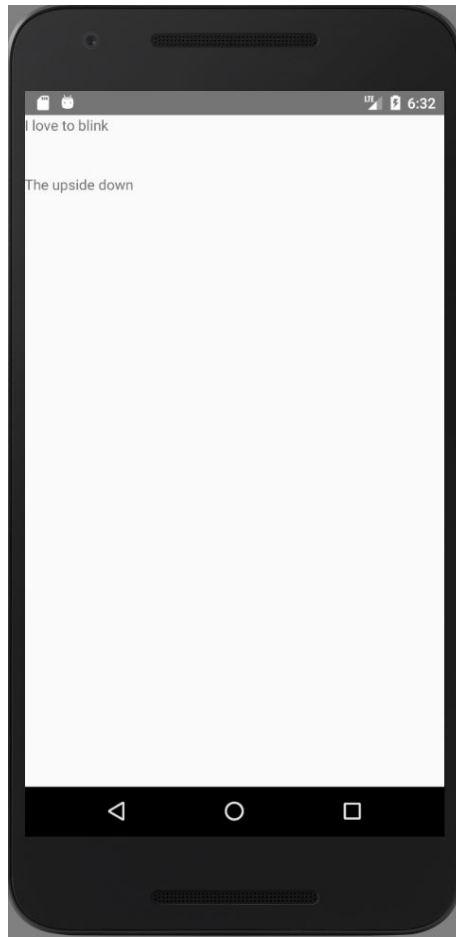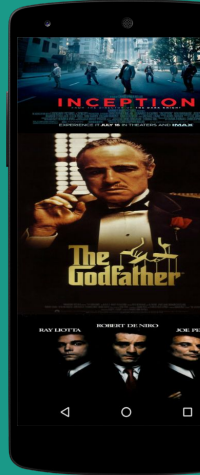

State

React native Components

- https://facebook.github.io/react-native/docs/

Questions?

Movies list project

- • https://github.com/artpdr/ReactNativeWorkshop.git

References

[React native introduction](#)

[React native training](#)

[React native getting started](#)