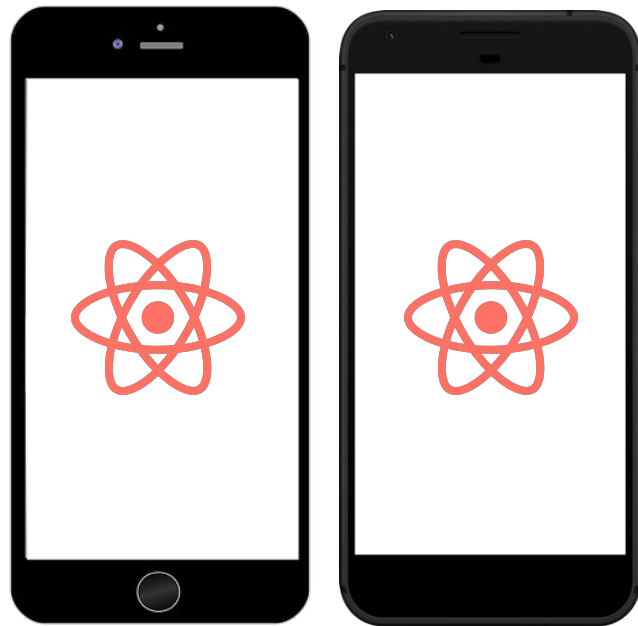


Entrando de vez no mundo do

# React Native



Construa aplicações iOS/Android com JS



# Olá!



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Diogo Dantas  
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# Roteiro

Introdução teórica

Setup

Estrutura Inicial

Ciclo de vida, Componentes, Estilos e Estados

Projeto 1

Redux

Projeto 2

Boas práticas



“

*A framework for building  
native apps with React.*

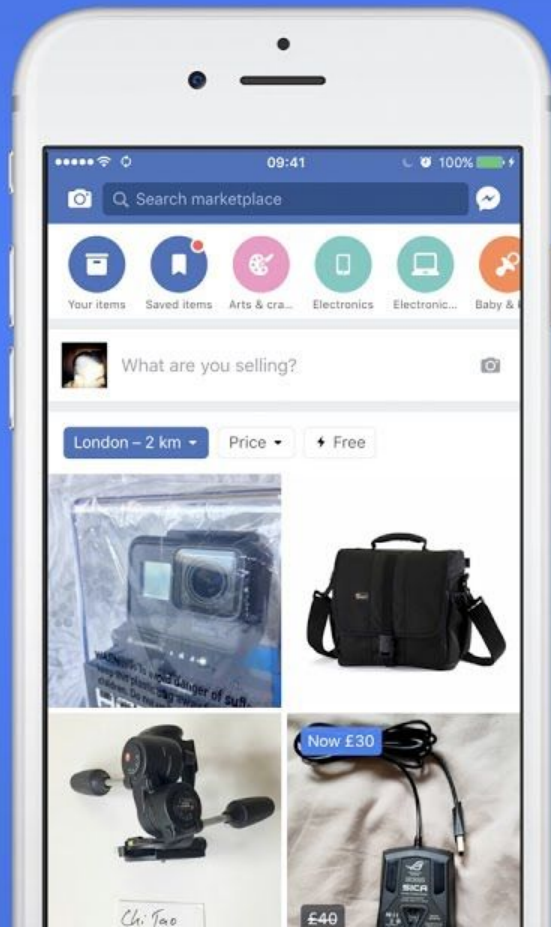








# Facebook Marketplace



# Algumas comparações de implementações





React for the Web

Native Component  
(Android)

Native Component  
(iOS)

React Native

`<div>`

`android.view`

`UIView`

`<View>`

`<input>`

`EditText`

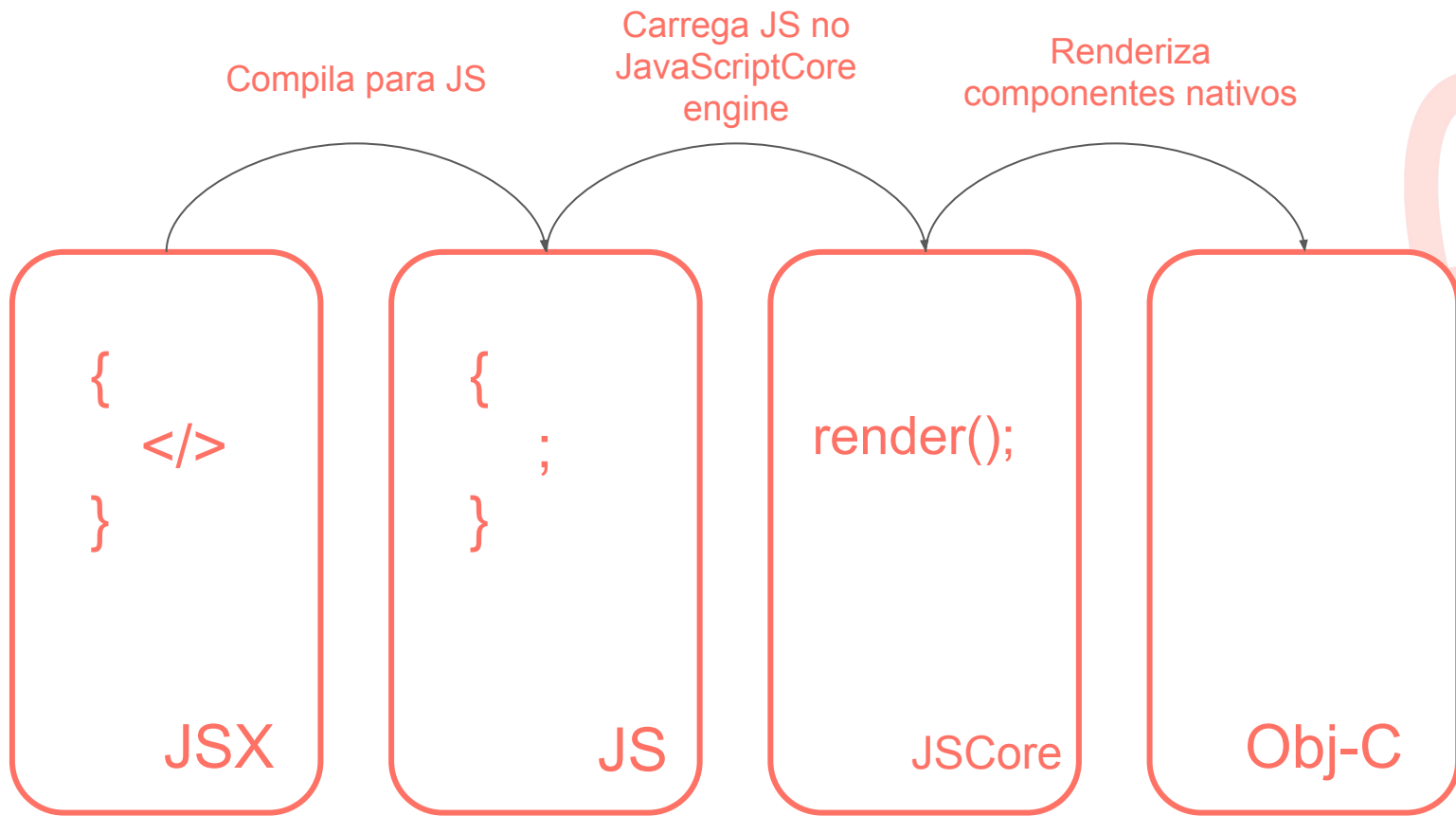
`UITextField`

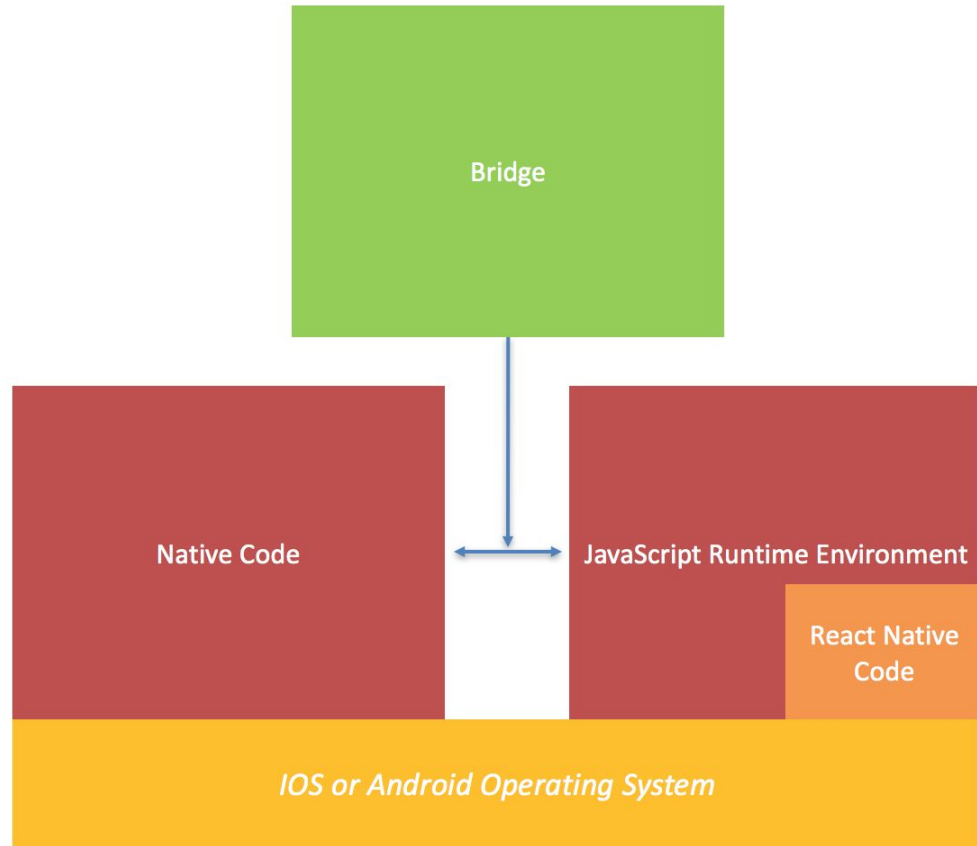
`<TextInput>`

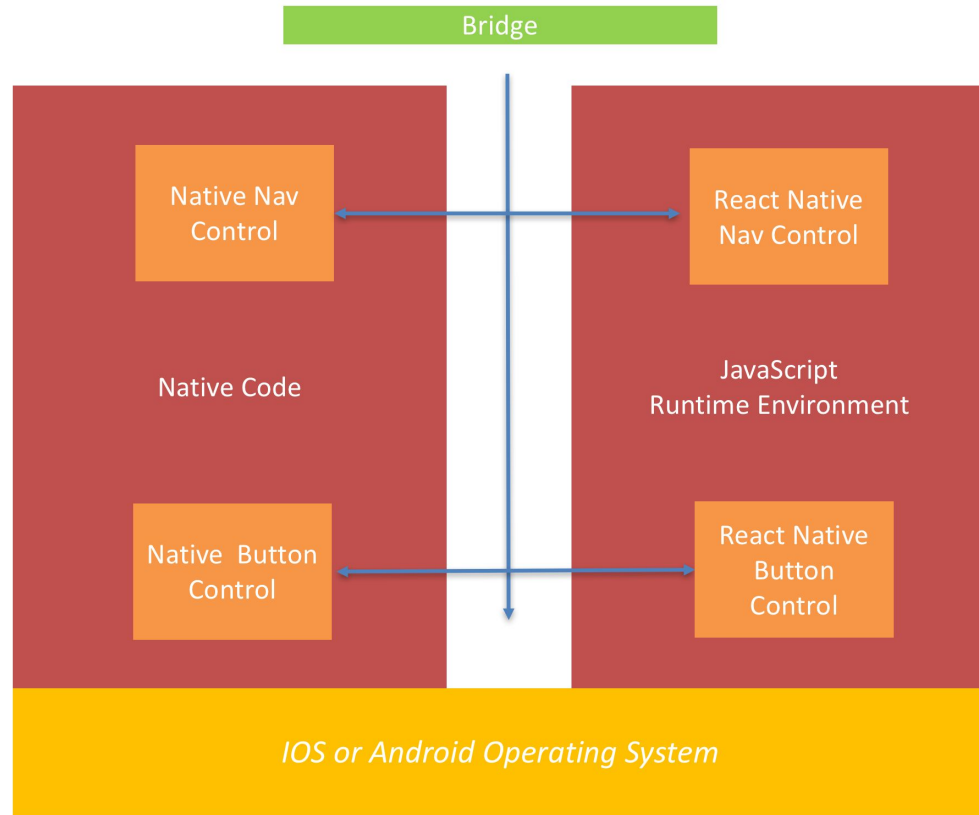


# Funcionamento









*Write JavaScript code and  
run it everywhere?*



# React Native Apps are Hard Work!

~~Write JavaScript code and run it everywhere?~~

“Learn once, write everywhere”

No or very little Cross-Platform Styling of Components



Style Components on your own or use Third-Party Libraries

Only a Basic Set of Pre-Built Components



Build Components on your own or use Third-Party Libraries

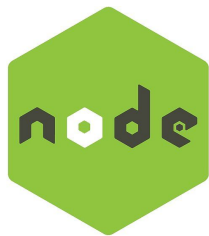
Tools to create Responsive Designs but no Responsiveness out of the Box



Create Responsive Designs on your own (check for Device-Size and OS)



# Setup



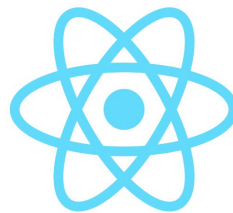
+



ou



+





# Setup



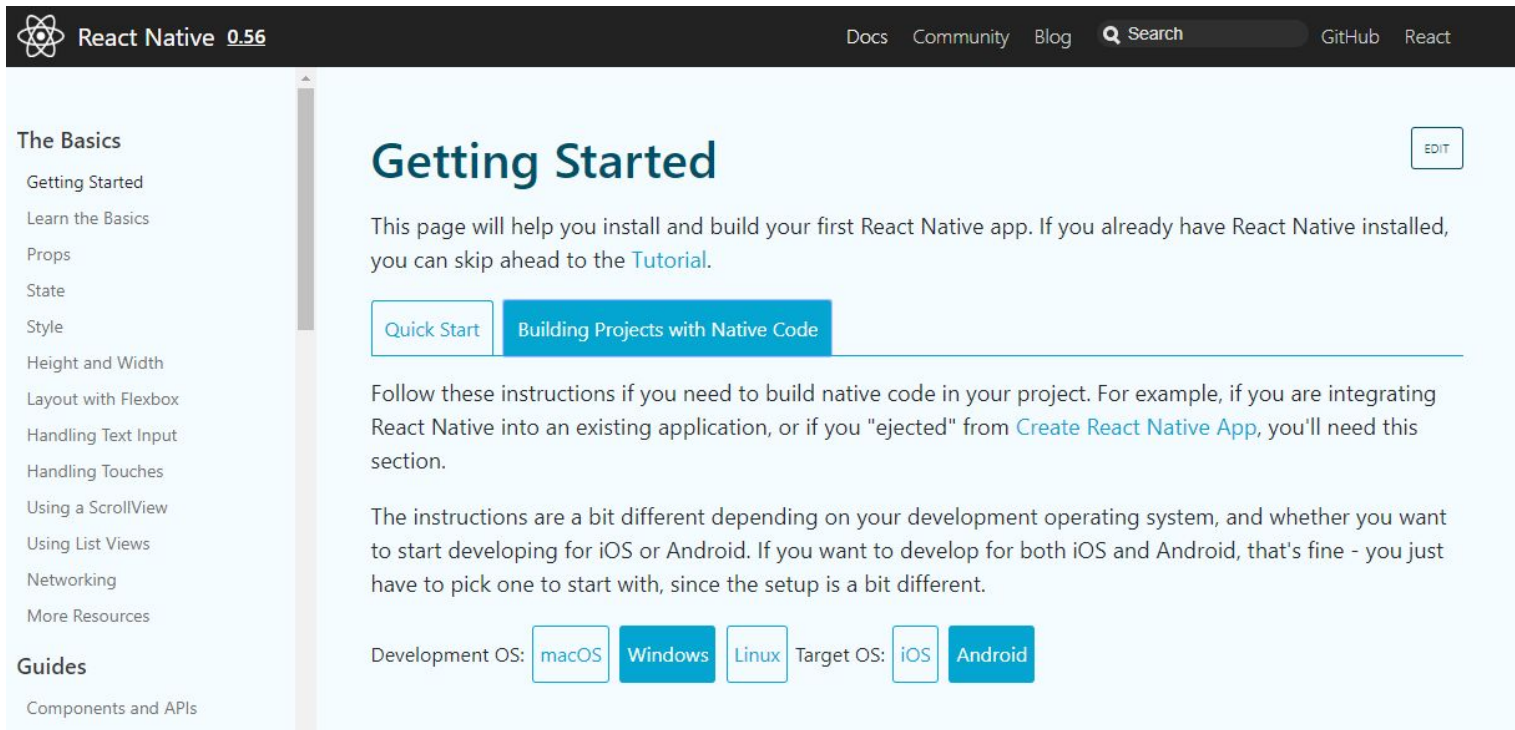
VS Code



ATOM



# Instalação



The screenshot shows the React Native 0.56 documentation page. The header includes the React Native logo, version 0.56, and navigation links for Docs, Community, Blog, Search, GitHub, and React. The left sidebar lists 'The Basics' (Getting Started, Learn the Basics, Props, State, Style, Height and Width, Layout with Flexbox, Handling Text Input, Handling Touches, Using a ScrollView, Using List Views, Networking, More Resources) and 'Guides' (Components and APIs). The main content area is titled 'Getting Started' with an 'EDIT' button. It contains a paragraph about installing and building a first app, a section selector with 'Quick Start' and 'Building Projects with Native Code' (the latter is active), a paragraph about following instructions for integrating or ejecting, another paragraph about development OS and target OS differences, and a configuration bar for Development OS (macOS, Windows, Linux) and Target OS (iOS, Android).

React Native 0.56

Docs Community Blog Search GitHub React

## The Basics

- Getting Started
- Learn the Basics
- Props
- State
- Style
- Height and Width
- Layout with Flexbox
- Handling Text Input
- Handling Touches
- Using a ScrollView
- Using List Views
- Networking
- More Resources

## Guides

- Components and APIs

## Getting Started EDIT

This page will help you install and build your first React Native app. If you already have React Native installed, you can skip ahead to the [Tutorial](#).

[Quick Start](#) **Building Projects with Native Code**

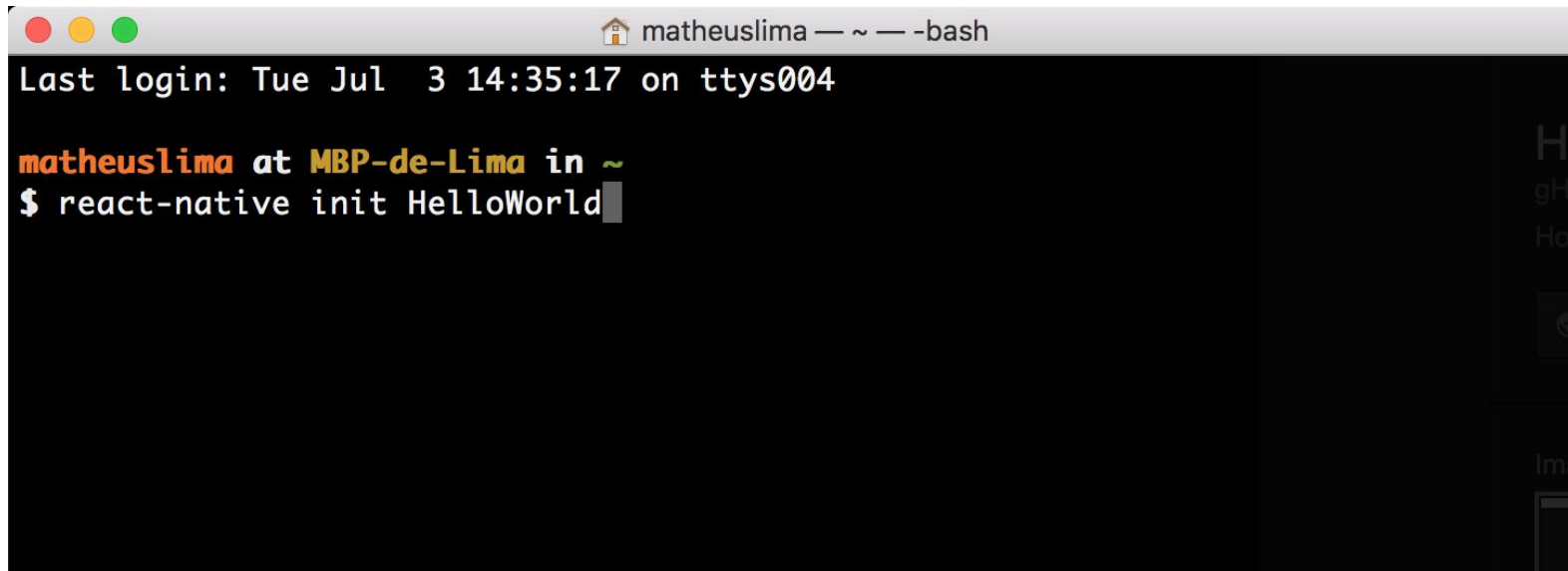
Follow these instructions if you need to build native code in your project. For example, if you are integrating React Native into an existing application, or if you "ejected" from [Create React Native App](#), you'll need this section.

The instructions are a bit different depending on your development operating system, and whether you want to start developing for iOS or Android. If you want to develop for both iOS and Android, that's fine - you just have to pick one to start with, since the setup is a bit different.

Development OS: [macOS](#) **[Windows](#)** [Linux](#) Target OS: [iOS](#) **[Android](#)**



# Estrutura Inicial

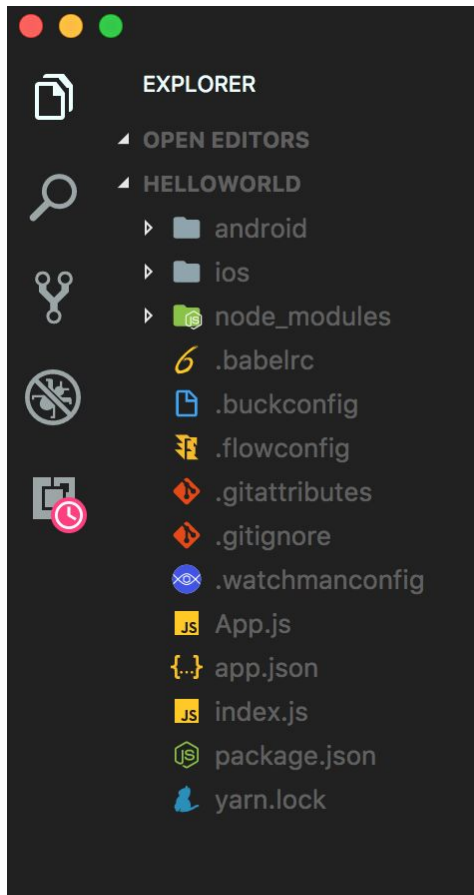


```
matheuslima — ~ — -bash
Last login: Tue Jul  3 14:35:17 on ttys004

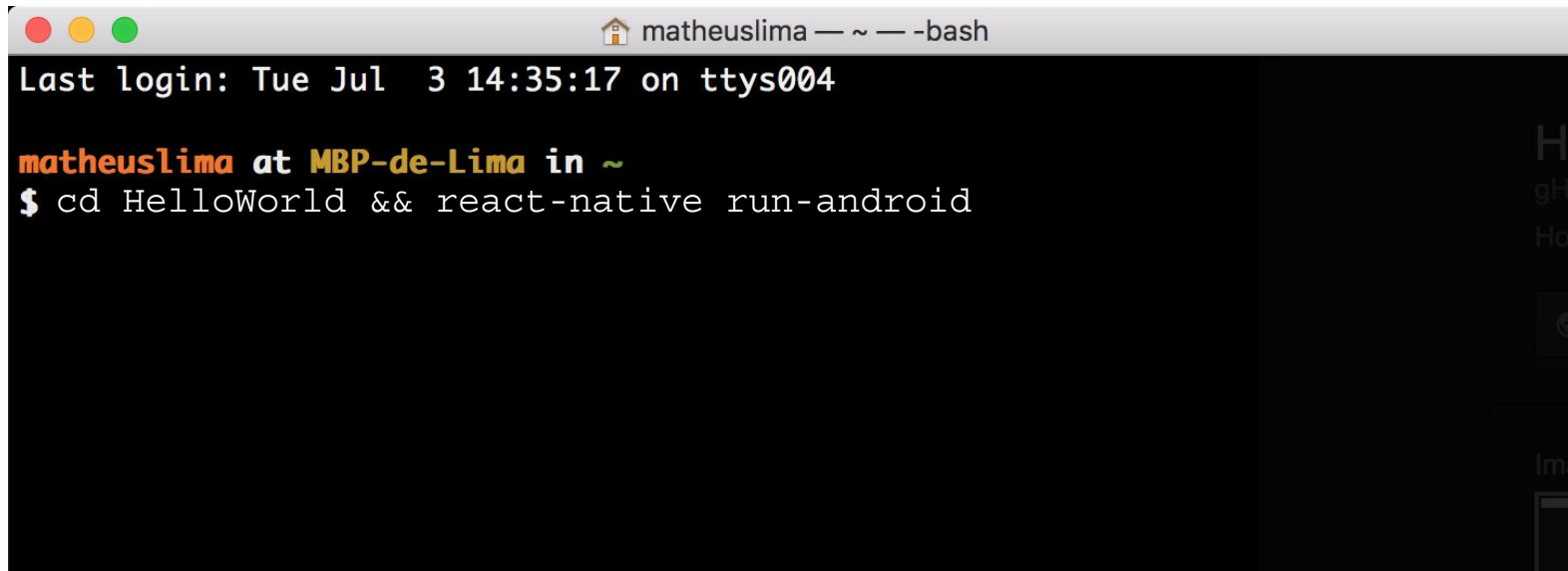
matheuslima at MBP-de-Lima in ~
$ react-native init HelloWorld
```



# Estrutura Inicial



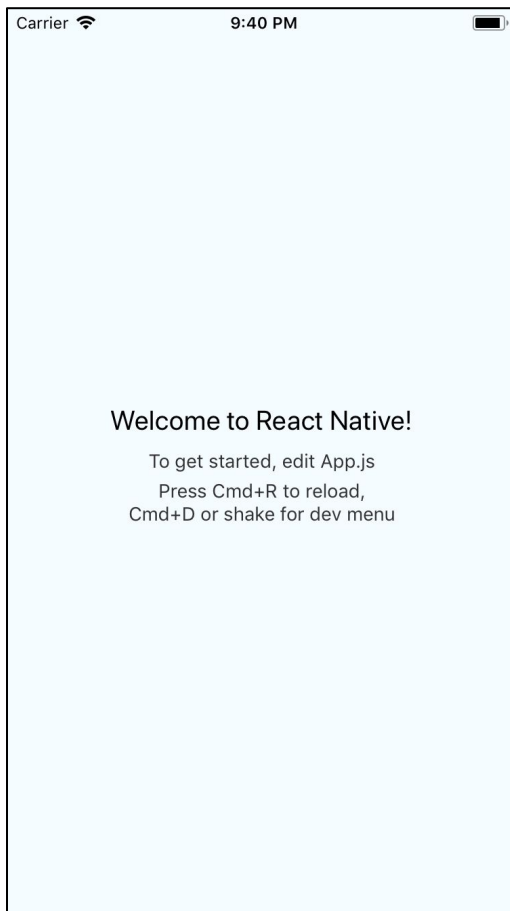
# Estrutura Inicial



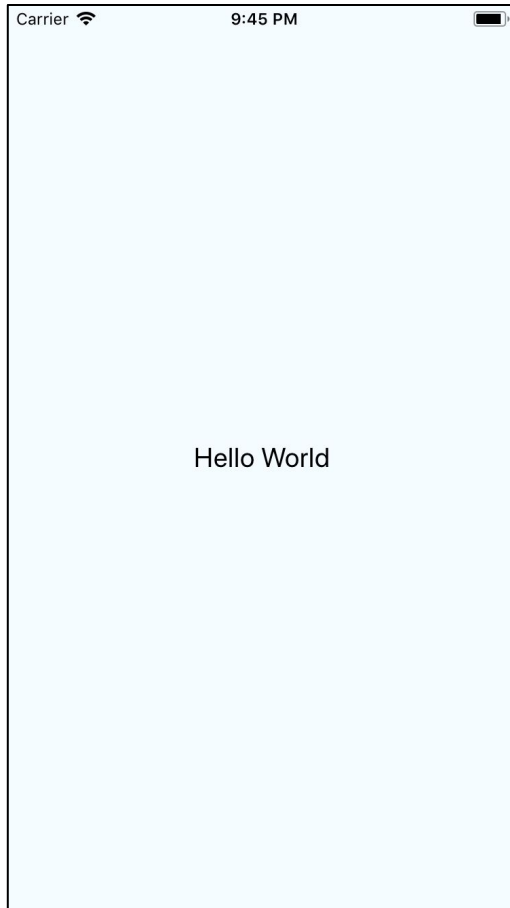
```
matheuslima — ~ — -bash
Last login: Tue Jul  3 14:35:17 on ttys004

matheuslima at MBP-de-Lima in ~
$ cd HelloWorld && react-native run-android
```





```
1 import React, { Component } from 'react';
2 import { StyleSheet, Text, View } from 'react-native';
3
4 export default class App extends Component {
5   render() {
6     return (
7       <View style={styles.container}>
8         <Text style={styles.hello}>Hello World</Text>
9       </View>
10     );
11   }
12 }
13
14 const styles = StyleSheet.create({
15   container: {
16     flex: 1,
17     justifyContent: 'center',
18     alignItems: 'center',
19     backgroundColor: '#F5FCFF',
20   },
21   hello: {
22     fontSize: 20,
23     textAlign: 'center',
24     margin: 10,
25   },
26 });
```



# EcmaScript 2015 ou ES6

Component

JSX

Prop

```
4 export default class App extends Component {  
5   render() {  
6     return (  
7       <View style={styles.container}>  
8         <Text style={styles.hello}>Hello World</Text>  
9       </View>  
10    );  
11  }  
12 }
```





# Components, props e state



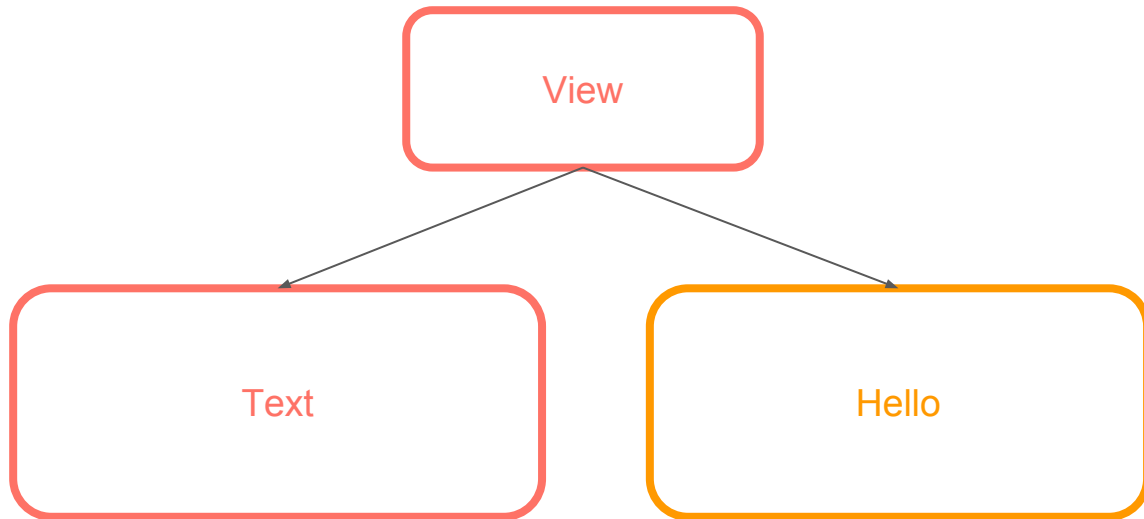
```
class Hello extends Component {  
  state = { greeting: 'Olá' };  
  render() {  
    return (  
      <Text>{this.state.greeting} {this.props.name}!</Text>  
    );  
  }  
}  
  
export default class App extends Component {  
  state = { name: 'World' };  
  render() {  
    return (  
      <View style={styles.container}>  
        <Text style={styles.hello}>Hello {this.state.name}</Text>  
        <Hello style={styles.hello} name='Rexxar' />  
      </View>  
    );  
  }  
}
```

Hello World

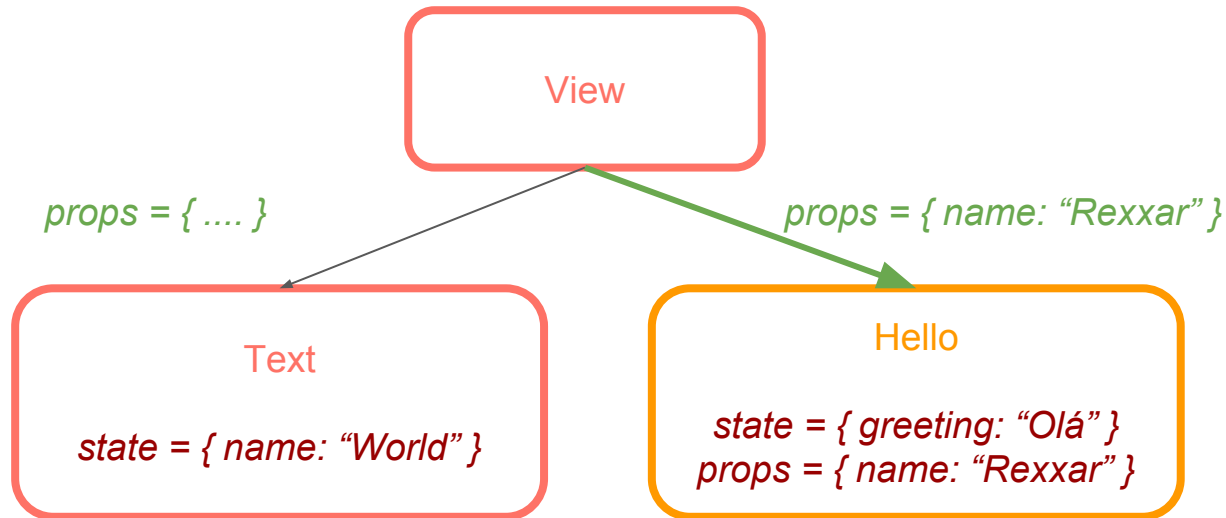
Olá Rexxar!



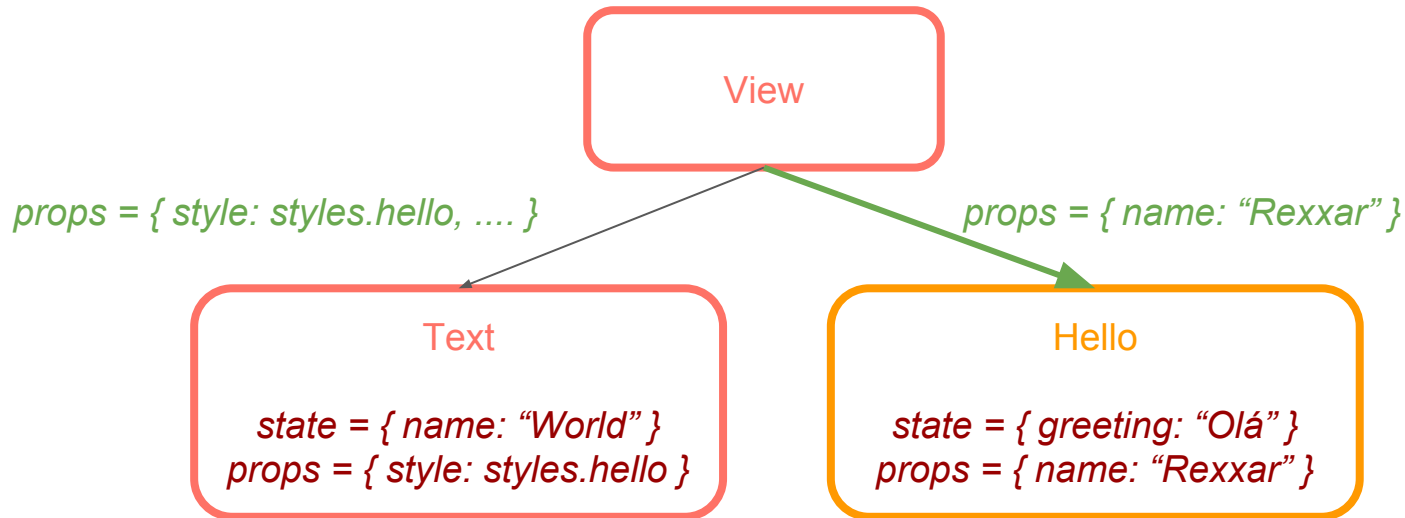
# Component App



# Component App



# Component App



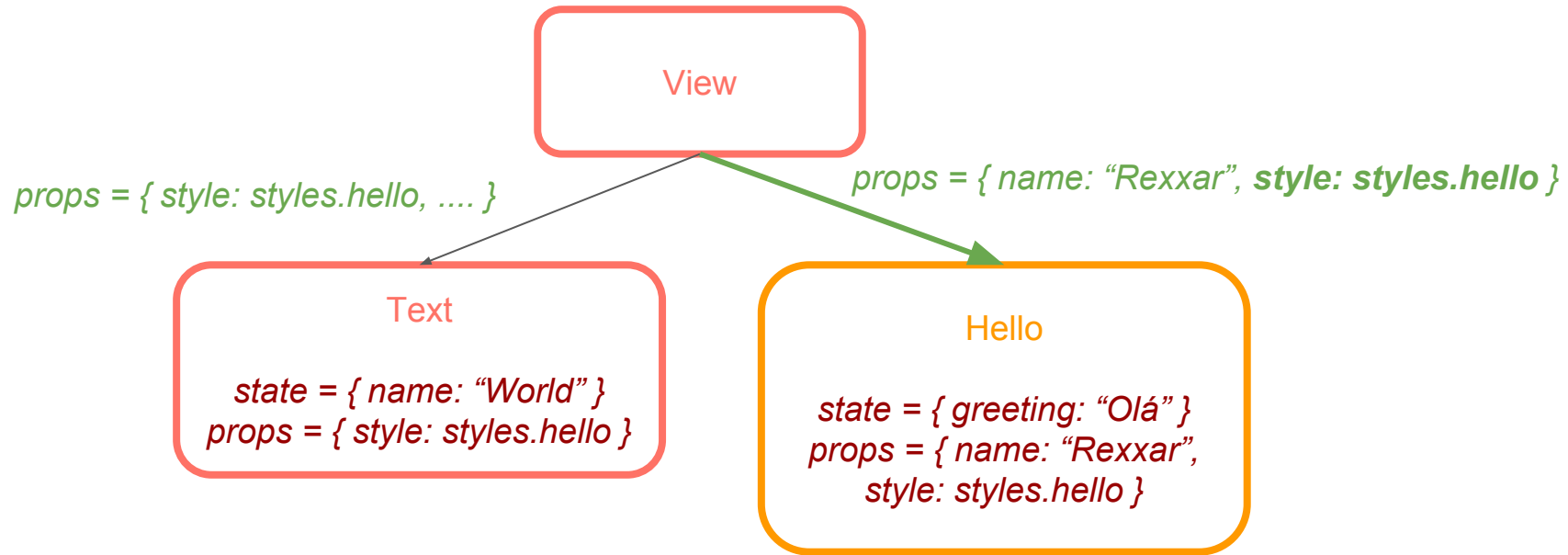
```
class Hello extends Component {  
  state = { greeting: 'Olá' };  
  render() {  
    return (  
      <Text style={this.props.style}>  
        {this.state.greeting} {this.props.name}!  
      </Text>  
    );  
  }  
}  
  
export default class App extends Component {  
  state = { name: 'World' };  
  render() {  
    return (  
      <View style={styles.container}>  
        <Text style={styles.hello}>Hello {this.state.name}</Text>  
        <Hello style={styles.hello} name='Rexxar' />  
      </View>  
    );  
  }  
}
```

Hello World

Olá Rexxar!



# Component App



# Props

!==

# State

São setadas pelo *parent*

Não podem ser alteradas  
pelo próprio componente

São setadas próprio  
componente

Não podem ser alteradas  
pelo parente





## Alterando *state*

```
this.state = { name: 'Lima' };
```

...

```
this.setState ({ name: 'Alves' }); // Correto
```

```
this.state.name = 'Alves'; // Errado!
```

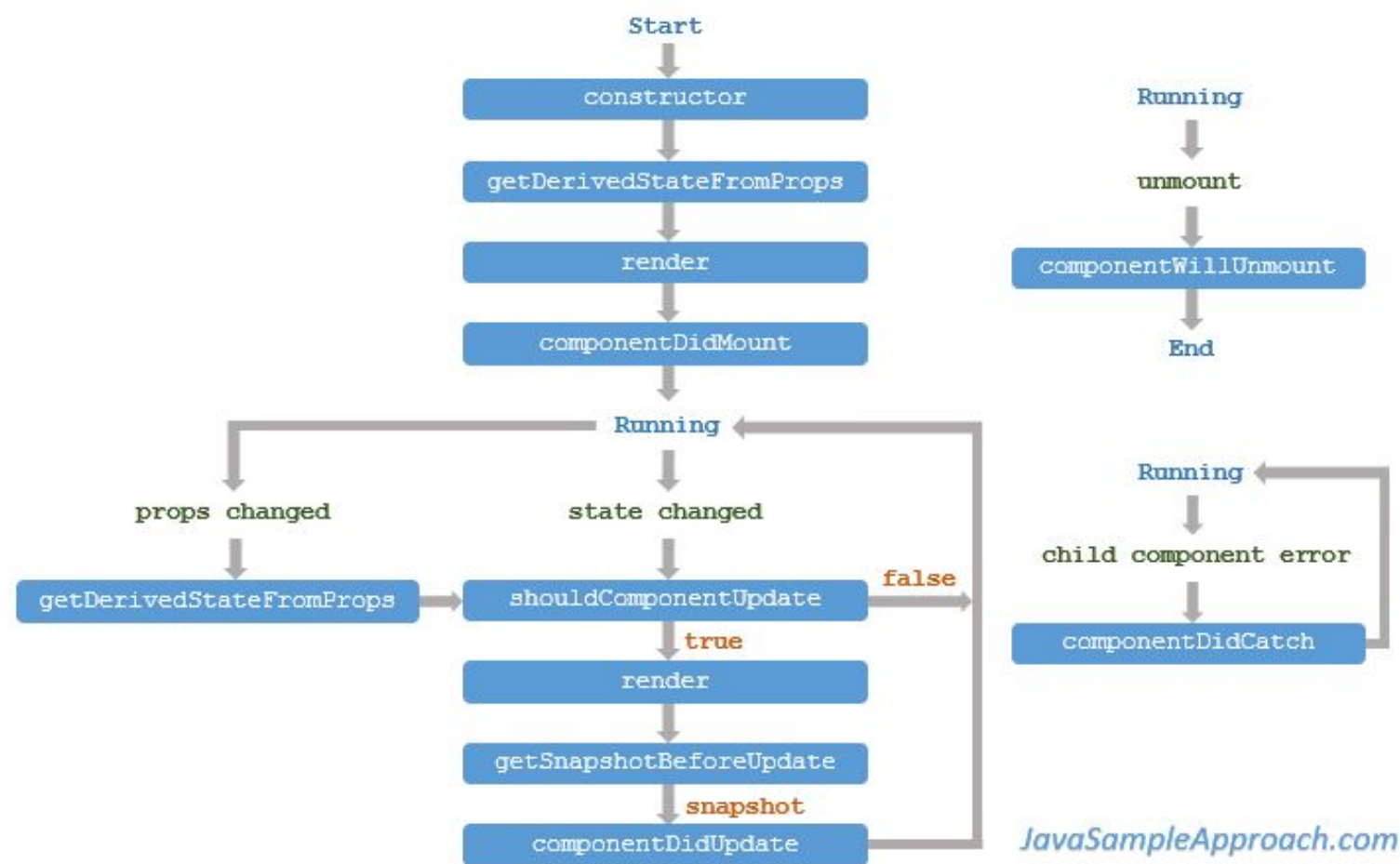


```
class Blink extends Component {  
  constructor(props) {  
    super(props);  
    this.state = {isShowingText: true};  
  
    // Toggle the state every second  
    setInterval(() => {  
      this.setState(previousState => {  
        return { isShowingText: !previousState.isShowingText };  
      });  
    }, 1000);  
  }  
  
  render() {  
    let display = this.state.isShowingText ? this.props.text : ' ';  
    return (  
      <Text>{display}</Text>  
    );  
  }  
}
```



# Ciclo de Vida





*JavaSampleApproach.com*



# Flexbox



# Projeto 1

[github.com/limatheusm/projeto1-imc](https://github.com/limatheusm/projeto1-imc)



Carrier 11:40 PM

# Cálculo do IMC

Descubra seu índice de massa corporal

Peso (kg) Altura (m)

Ex.: 75 Ex.: 1.75

Calcular

Carrier 1:16 AM

# Cálculo do IMC

Descubra seu índice de massa corporal

Peso (kg) Altura (m)

75 1.75

Calcular

Seu índice de massa corporal é

**24**  
**Peso ideal**



Carrier 1:16 AM

# Cálculo do IMC

Descubra seu índice de massa corporal

Peso (kg) Altura (m)

85 1.75

Calcular

Seu índice de massa corporal é

**27**  
**Sobrepeso**



[bit.ly/imc-assets](https://bit.ly/imc-assets)

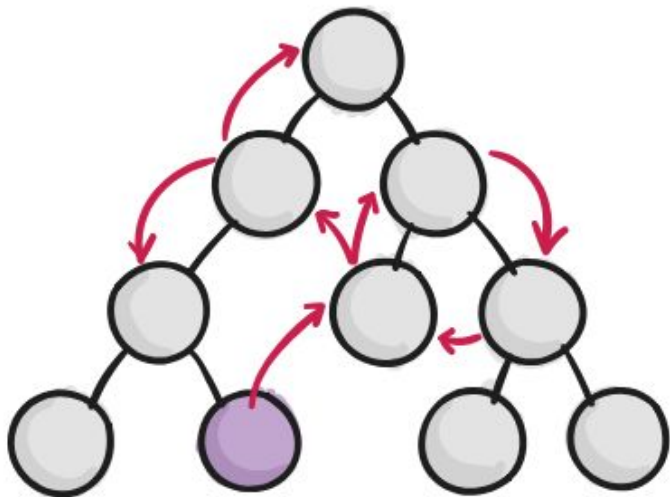




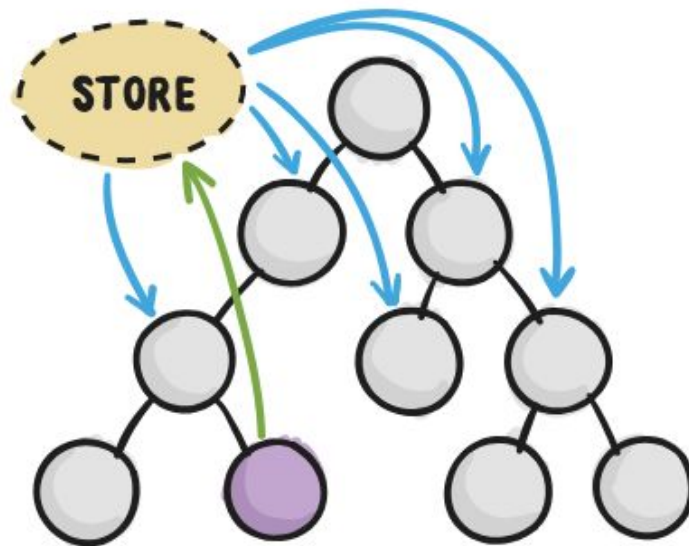
# Redux



## WITHOUT REDUX

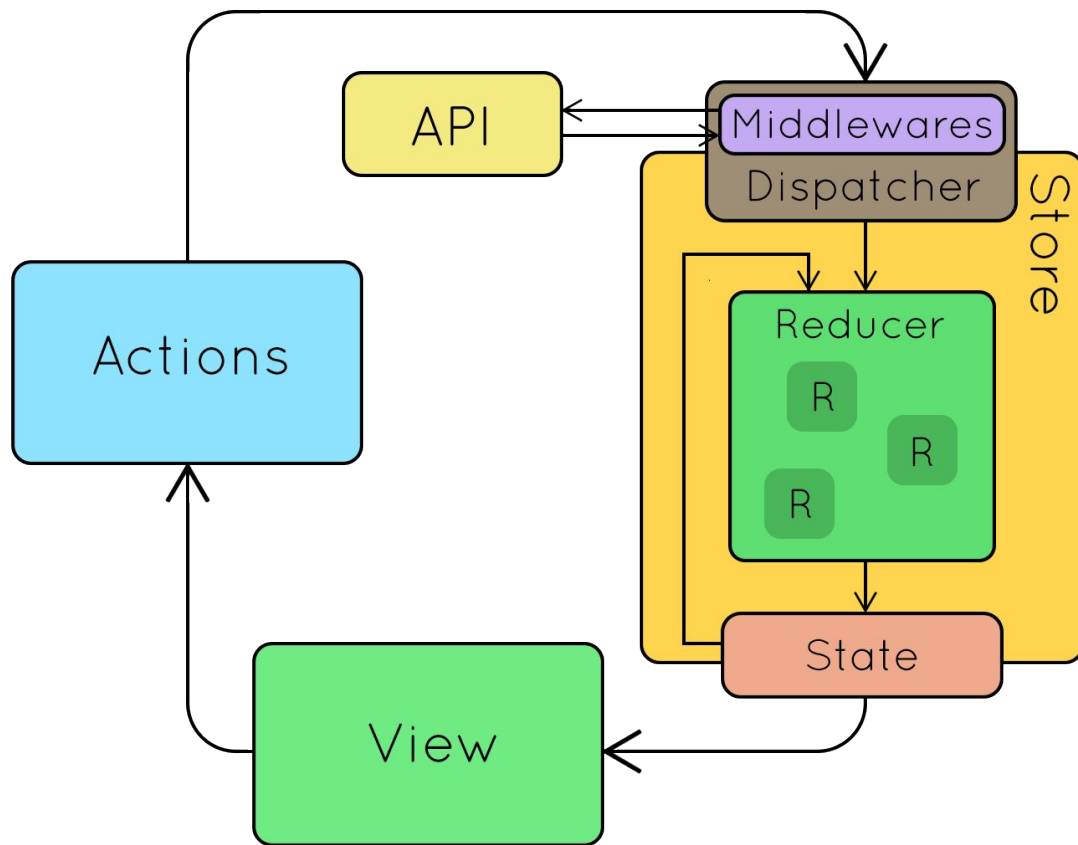


## WITH REDUX



 COMPONENT INITIATING CHANGE





# Projeto 2



# Obrigado!



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