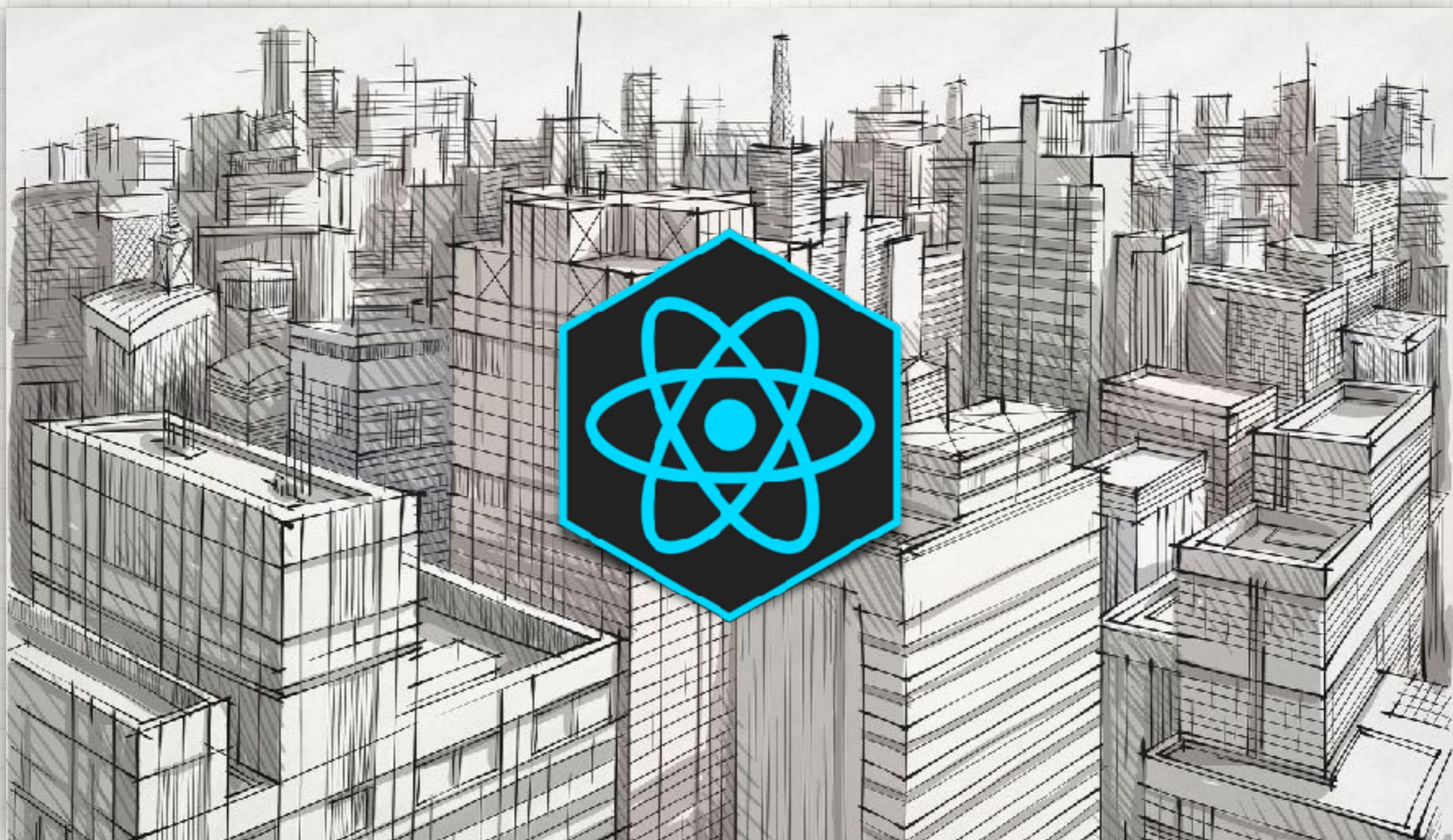


HANDS ON REACT-NATIVE

REACT

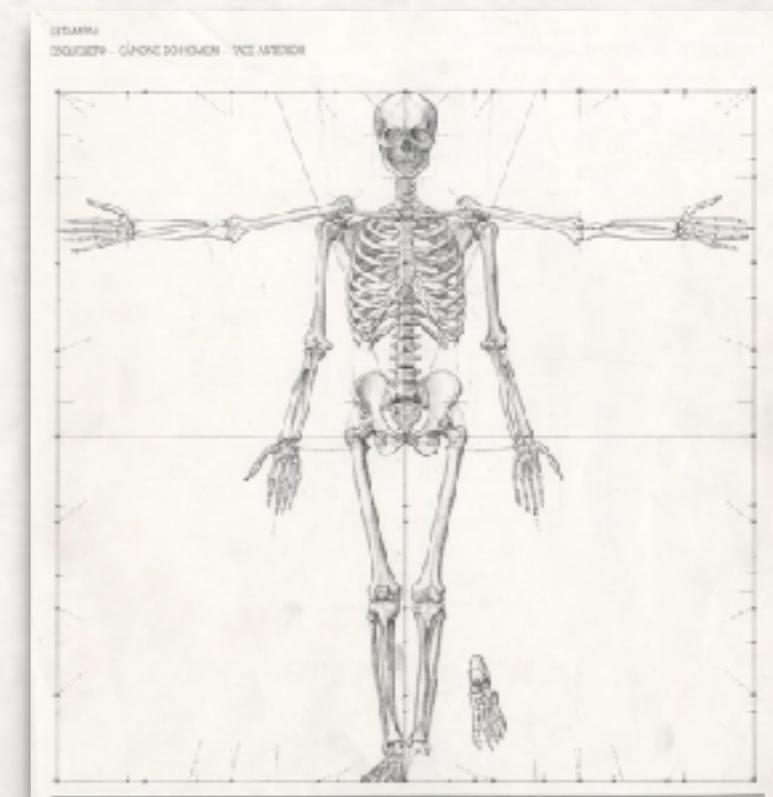
O CORE DE TUDO



ENTENDENDO REACT

ESTRUTURA BÁSICA

```
1 import React from 'react';
2
3 class App extends React.Component {
4     render() {
5         return (
6             <div>
7                 <h2>Welcome to React</h2>
8             </div>
9         );
10    }
11 }
12
13 export default App;
14
```

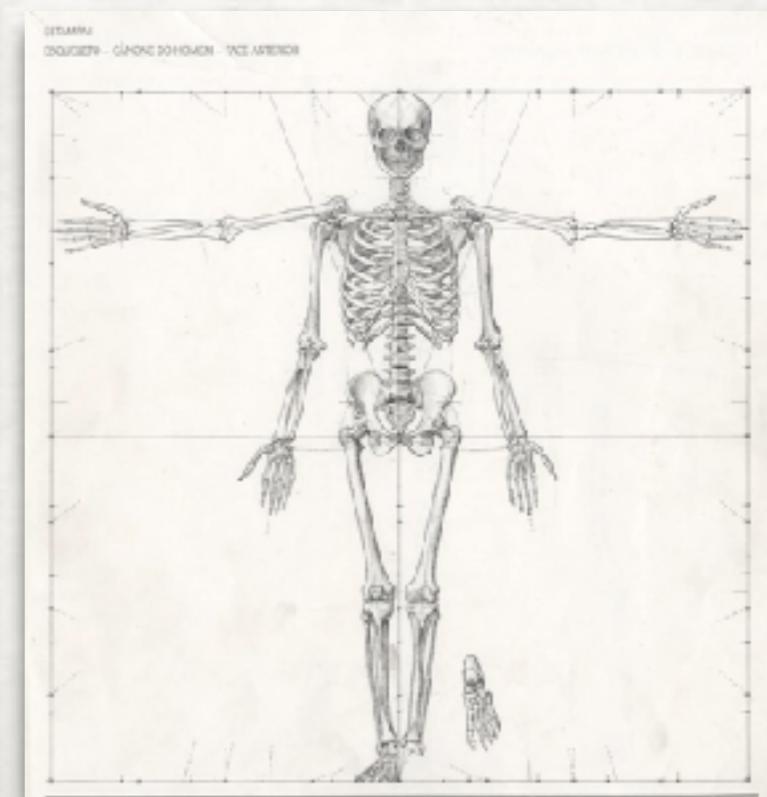


ENTENDENDO REACT

ESTRUTURA BÁSICA

```
1 import React from 'react'  
2  
3 class MyTitle extends React.Component {  
4     render() {  
5         return (  
6             <h2>Welcome to React</h2>  
7         )  
8     }  
9 }  
10  
11 export default MyTitle
```

```
1 import React from 'react';  
2  
3 import MyTitle from './Title'  
4  
5 class App extends React.Component {  
6     render() {  
7         return (  
8             <div>  
9                 <MyTitle />  
10            </div>  
11        );  
12    }  
13 }  
14  
15 export default App;
```

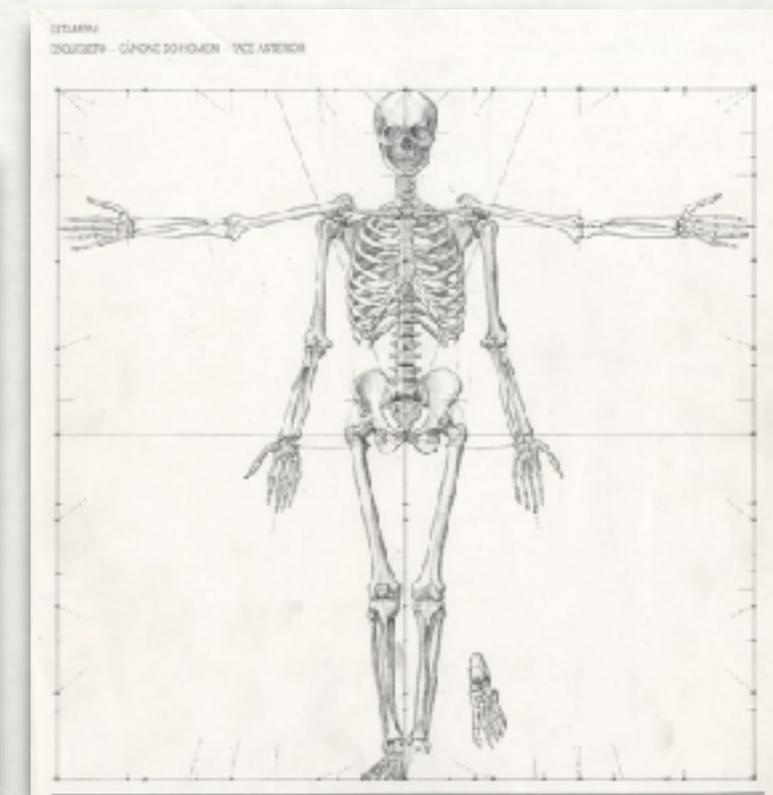


ENTENDENDO REACT

PROPS

```
1 import React from 'react'
2
3 import MyTitle from './Title'
4
5 class App extends React.Component {
6   render() {
7     return (
8       <div>
9         <MyTitle text={'My new title'} />
10      </div>
11    )
12  }
13}
14
15 export default App
```

```
1 import React from 'react'
2
3 class MyTitle extends React.Component {
4   render() {
5     return (
6       <h2>{this.props.text}</h2>
7     )
8   }
9 }
10
11 export default MyTitle
```

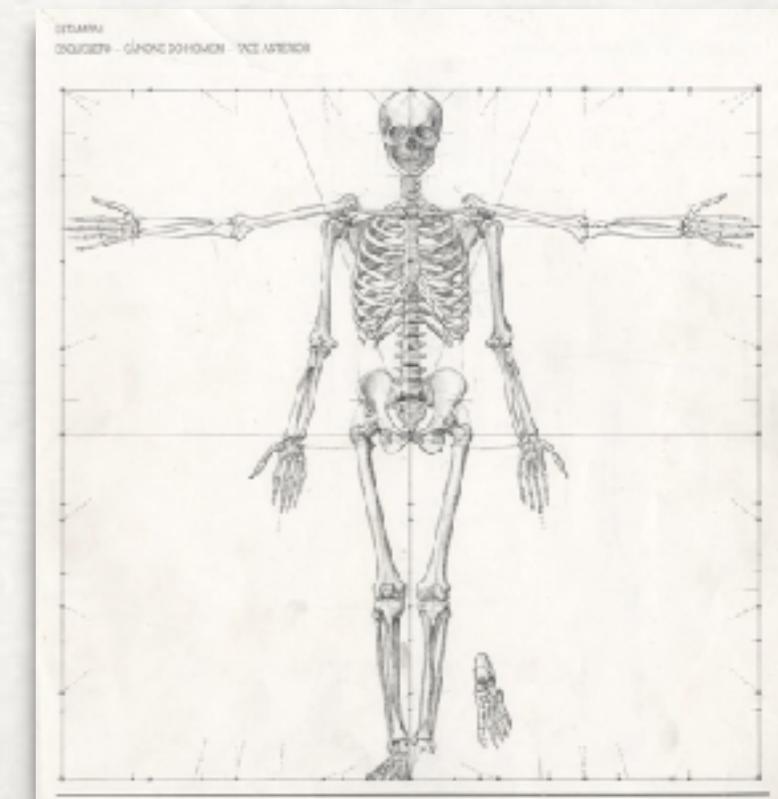


ENTENDENDO REACT

PROPS

```
1 import React from 'react'  
2  
3 class MyTitle extends React.Component {  
4     render() {  
5         return (  
6             <h2>{this.props.text}</h2>  
7         )  
8     }  
9 }  
10  
11 export default MyTitle
```

```
1 import React from 'react'  
2  
3 export default (props) => {  
4     return (  
5         <h2>{props.text}</h2>  
6     )  
7 }
```



ENTENDENDO REACT

QUEST: LISTA DE GAMES

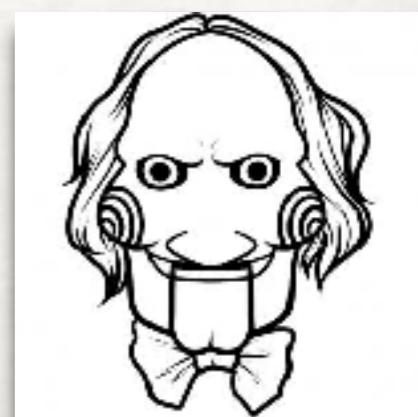
<https://gist.github.com/benhurott/7622346b576238a60e81d9fdb8d6a9e5>

```
1 import React from 'react'
2
3 import MyTitle from './Title'
4 import GameList from './GameList'
5
6 import games from './games.json'
7
8 class App extends React.Component {
9   render() {
10     return (
11       <div>
12         <MyTitle text={'Quest: Game List'} />
13         <GameList games={games}/>
14       </div>
15     )
16   }
17 }
18
19 export default App
```



Quest: Game List

- Prince of Persia
- Mario Kart
- Zelda: A link to the past
- Goof Troop
- Killer Instinct
- Mortal Kombat 2
- Super Mario World
- Megaman X



15 min

ENTENDENDO REACT

STATE

ENTENDENDO REACT

STATE

```
1 import React from 'react'
2
3 class NewGameForm extends React.Component {
4     render() {
5         return (
6             <form>
7                 <label>
8                     Name:
9                     <input type="text" name="name" />
10                </label>
11                <input type="submit" value="Save" />
12            </form>
13        )
14    }
15 }
16
17 export default NewGameForm
```

ENTENDENDO REACT

STATE

```
1 import React from 'react'
2
3 class NewGameForm extends React.Component {
4     render() {
5         return (
6             <form>
7                 <label>
8                     Name:
9                     <input type="text" name="name" />
10                </label>
11                <input type="submit" value="Save" />
12            </form>
13        )
14    }
15 }
16
17 export default NewGameForm
```

```
1 import React from 'react'
2
3 import MyTitle from './Title'
4 import GameList from './GameList'
5 import NewGameForm from './NewGameForm'
6
7 import games from './games.json'
8
9 class App extends React.Component {
10     render() {
11         return (
12             <div>
13                 <MyTitle text={'Quest: Game List'} />
14                 <NewGameForm />
15                 <GameList games={games}/>
16             </div>
17         )
18     }
19 }
20
```

Quest: Game List

Name: Save

- Prince of Persia
- Mario Kart
- Zelda: A link to the past
- Goof Troop
- Killer Instinct
- Mortal Kombat 2
- Super Mario World
- Megaman X

ENTENDENDO REACT

STATE

```
1 import React from 'react'
2
3 class NewGameForm extends React.Component {
4     constructor(props) {
5         super(props)
6
7         this.state = {
8             name: ''
9         }
10    }
11
12    render() {
13        return (
14            <form>
```

ENTENDENDO REACT

STATE

```
1 import React from 'react'  
2  
3 class NewGameForm extends React.Component {  
4     constructor(props) {  
5         super(props)  
6  
7         this.state = {  
8             name: ''  
9         }  
10    }  
11  
12    render() {  
13        return (  
14            <form>
```

```
<form>  
  <label>  
    Name:  
    <input type="text" name="name" value={this.state.name} />  
  </label>  
  <input type="submit" value="Save" />  
</form>
```



ENTENDENDO REACT

STATE

```
render() {
  return (
    <form>
      <label>
        Name:
        <input
          type="text"
          name="name"
          value={this.state.name}
          onChange={e => this.setState({ name: e.target.value })} />
      </label>
      <input type="submit" value="Save" />
    </form>
  )
}
```

ENTENDENDO REACT

STATE

```
_handleSubmit(event) {  
  event.preventDefault()  
  console.log(this.state.name)  
}  
  
render() {  
  return (  
    <form onSubmit={this._handleSubmit}>  
      <label>  
        Name:  
        <input
```

ENTENDENDO REACT

STATE

TypeError: Cannot read property 'state' of null

_handleSubmit
src/NewGameForm.js:16

```
13 |
14 | _handleSubmit(event) {
15 |   event.preventDefault()
> 16 |   console.log(this.state.name)
17 | }
18 |
19 | render() {
```

ENTENDENDO REACT

STATE

```
class NewGameForm extends React.Component {
  constructor(props) {
    super(props)

    this.state = {
      name: ''
    }

    this._handleSubmit = this._handleSubmit.bind(this)
  }

  _handleSubmit(event) {
    event.preventDefault()
    console.log(this.state.name)
  }
}
```

ENTENDENDO REACT

STATE

```
_handleSubmit(event) {  
  event.preventDefault()  
  this.props.onSave({ name: this.state.name })  
}
```

ENTENDENDO REACT

STATE

```
_handleSubmit(event) {  
  event.preventDefault()  
  this.props.onSave({ name: this.state.name })  
}
```

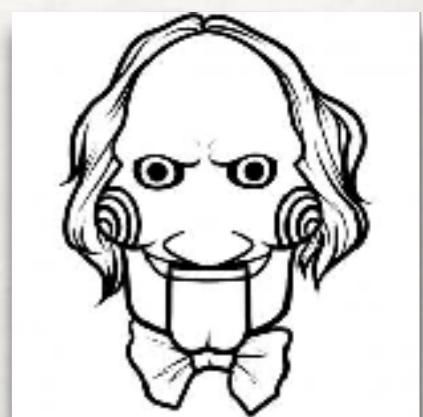
```
class App extends React.Component {  
  constructor(props) {  
    super(props)  
  
    this._onSaveNewGame = this._onSaveNewGame.bind(this)  
  }  
  
  _onSaveNewGame(game) {  
    alert(game.name)  
  }  
  
  render() {  
    return (  
      <div>  
        <MyTitle text={'Quest: Game List'} />  
        <NewGameForm onSave={this._onSaveNewGame} />  
        <GameList games={games}/>  
      </div>  
    )  
  }  
}
```



ENTENDENDO REACT

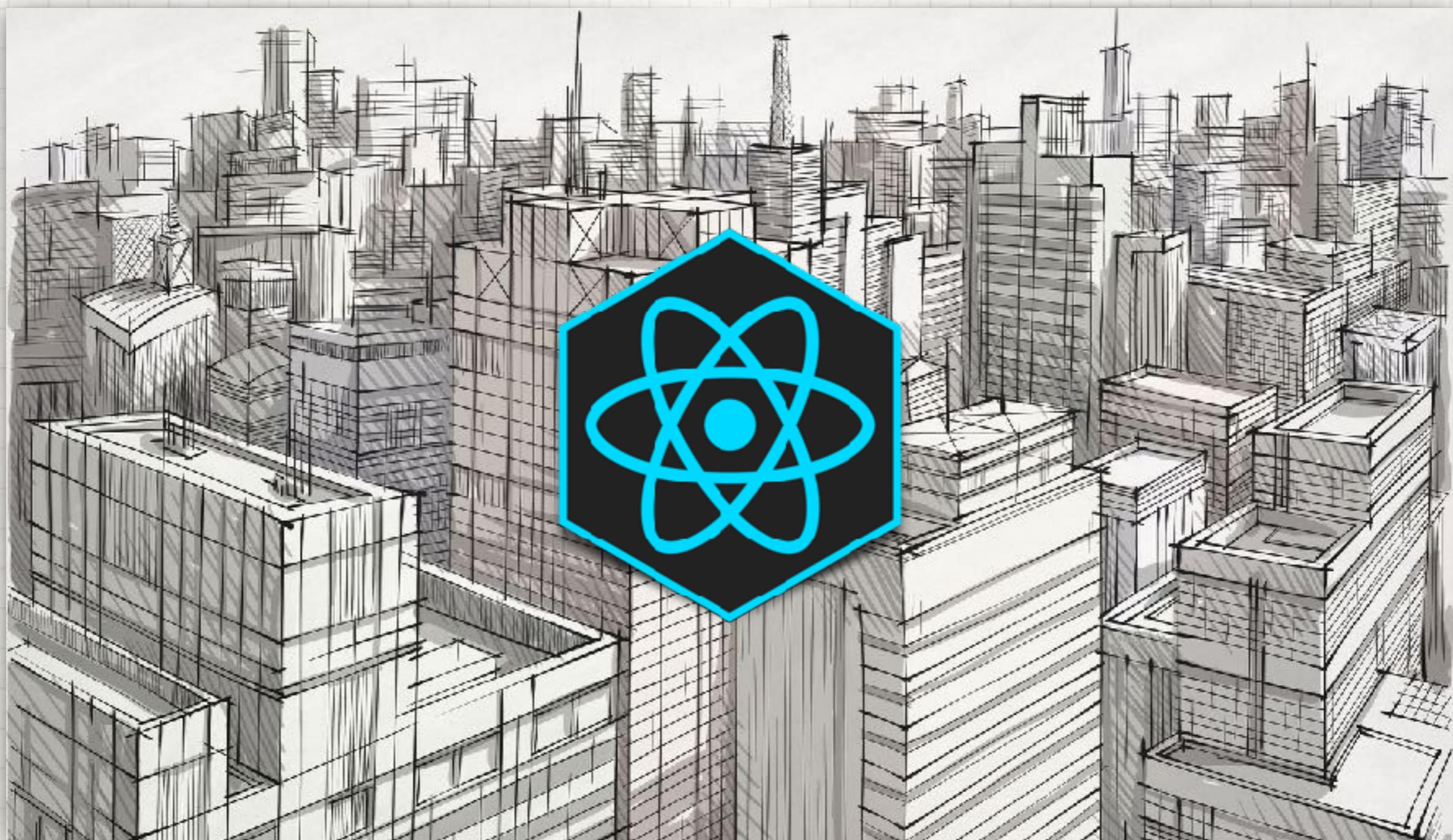
QUEST: SAVE NEW GAMES

Faça com que o botão Save do formulário adicione na lista de jogos.



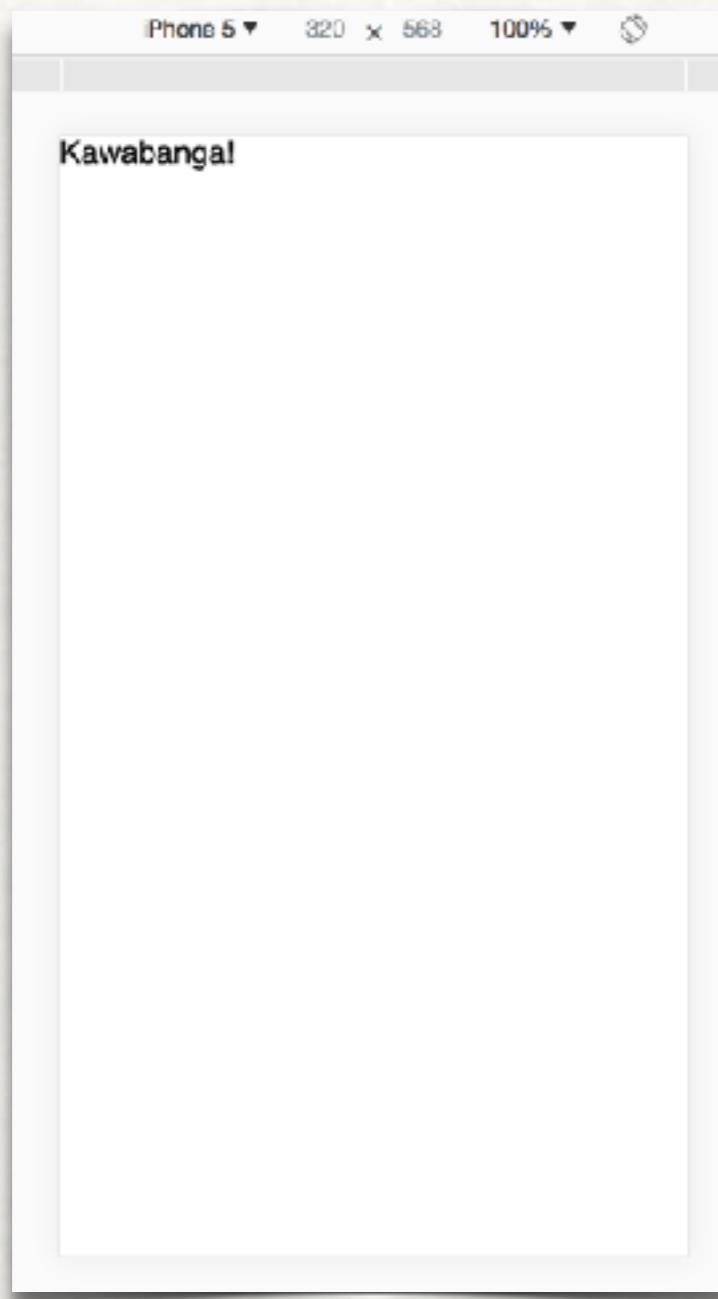
REACT-NATIVE

REACT PARA MOBILE APPS



REACT-NATIVE

COMPARAÇÃO RÁPIDA



WEB



NATIVE

REACT-NATIVE

COMPARAÇÃO RÁPIDA

```
1 import React from 'react'  
2  
3 class App extends React.Component {  
4   render() {  
5     return (  
6       <div>  
7         <span>Kawabanga!</span>  
8       </div>  
9     )  
10  }  
11 }  
12  
13 export default App
```

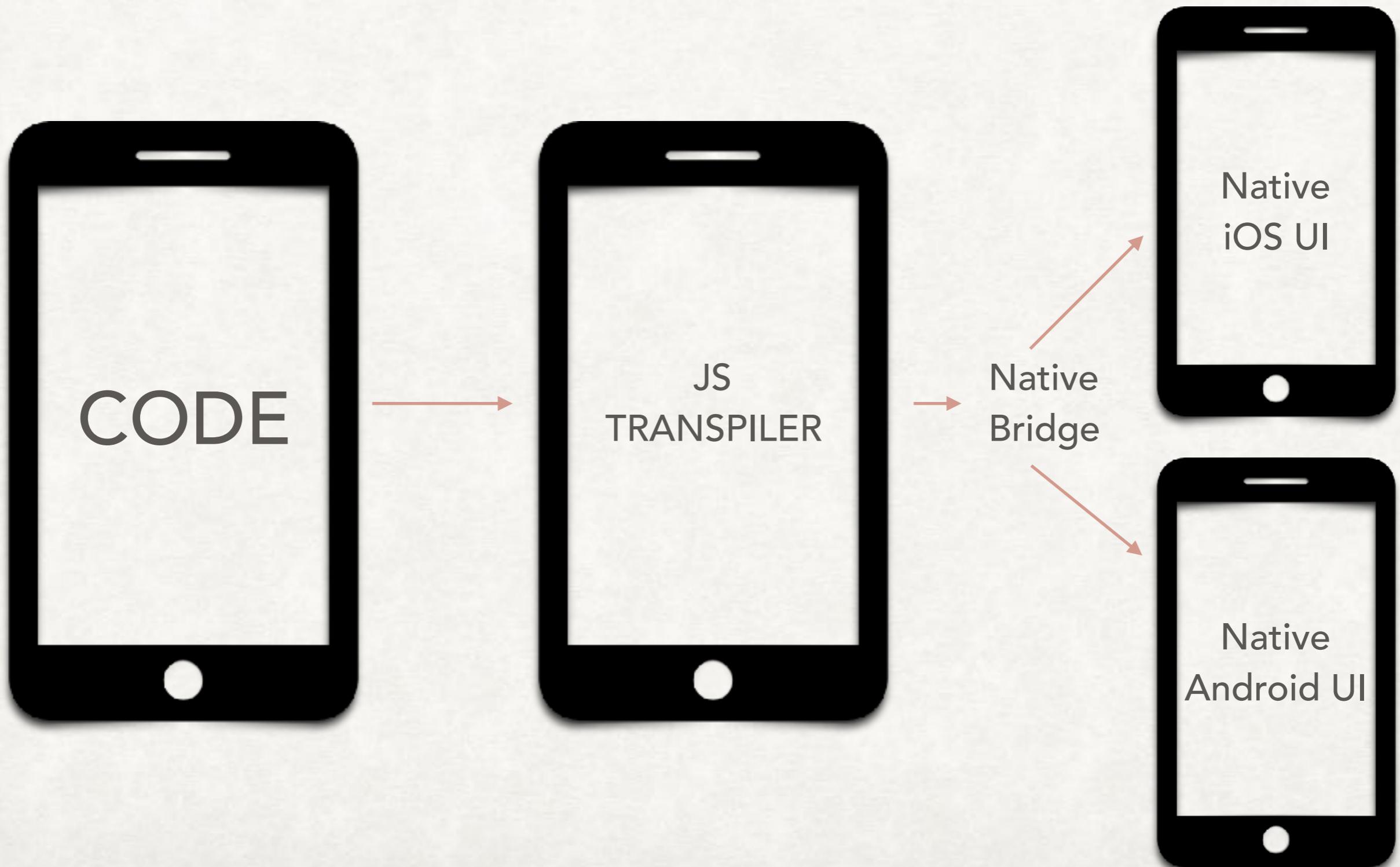
WEB

```
1 import React from 'react'  
2 import { View, Text, StatusBar } from 'react-native'  
3  
4 class App extends React.Component {  
5   constructor(props) {  
6     super(props)  
7     StatusBar.setHidden(true)  
8   }  
9  
10  render() {  
11    return (  
12      <View>  
13        <Text>Kawabanga!</Text>  
14      </View>  
15    )  
16  }  
17}  
18  
19 export default App
```

NATIVE

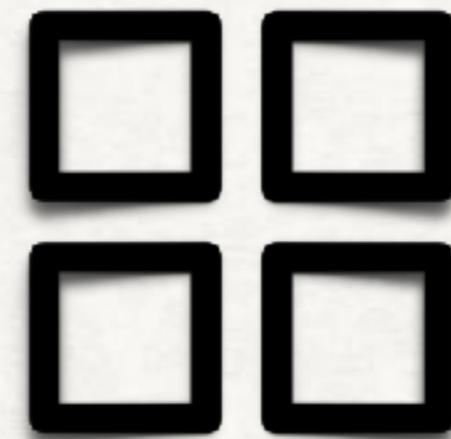
REACT-NATIVE

COMO FUNCIONA?



REACT-NATIVE

INICIANDO

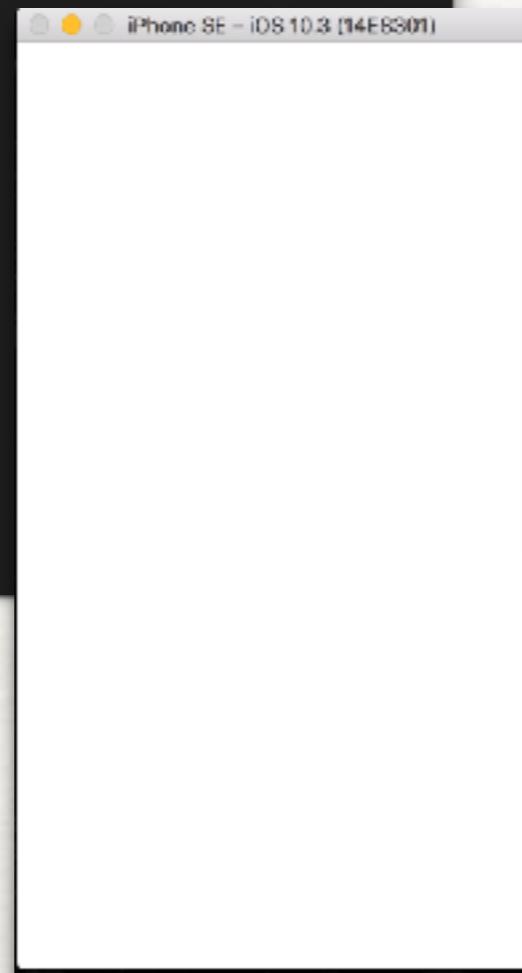


View

REACT-NATIVE

BASICS: VIEW

```
1 import React from 'react'
2 import { View, Text, StatusBar } from 'react-native'
3
4 class App extends React.Component {
5   constructor(props) {
6     super(props)
7     StatusBar.setHidden(true)
8   }
9
10  render() {
11    return (
12      <View>
13        <View></View>
14        <View></View>
15        <View></View>
16      </View>
17    )
18  }
19}
20
21 export default App
```



REACT-NATIVE
INICIANDO



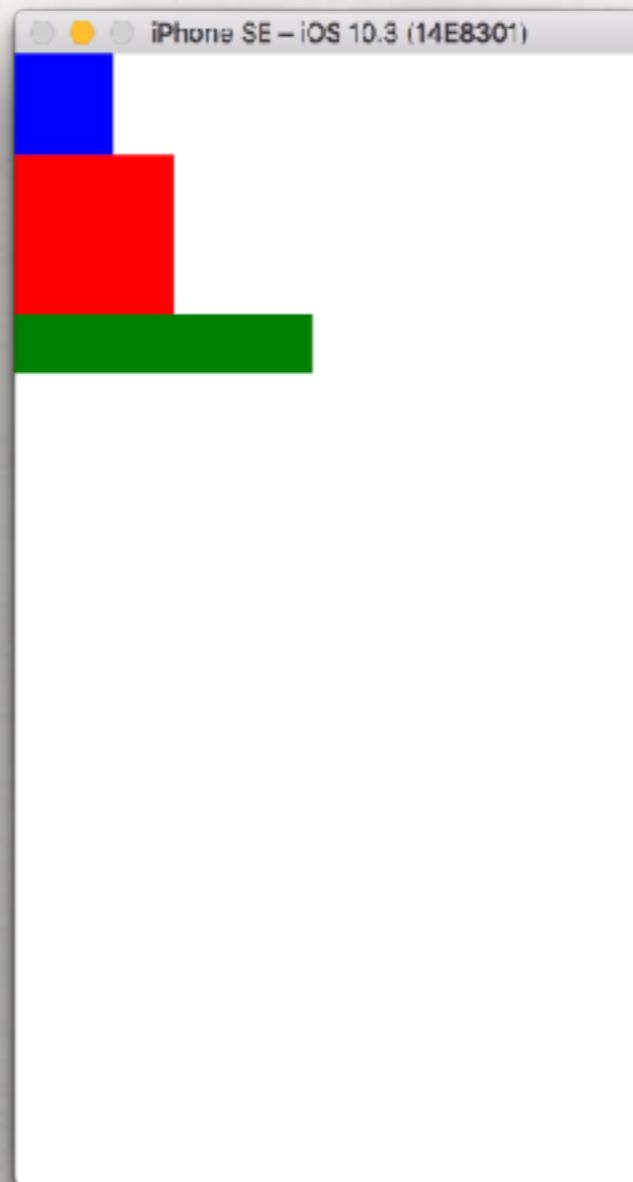
StyleSheet

REACT-NATIVE

BASICS: STYLESHEET

```
render() {
  return (
    <View>
      <View style={styles.view1}></View>
      <View style={styles.view2}></View>
      <View style={styles.view3}></View>
    </View>
  )
}

const styles = StyleSheet.create({
  view1: {
    height: 50,
    width: 50,
    backgroundColor: 'blue'
  },
  view2: {
    height: 80,
    width: 80,
    backgroundColor: 'red'
  },
  view3: {
    height: 30,
    width: 150,
    backgroundColor: 'green'
  }
})
```

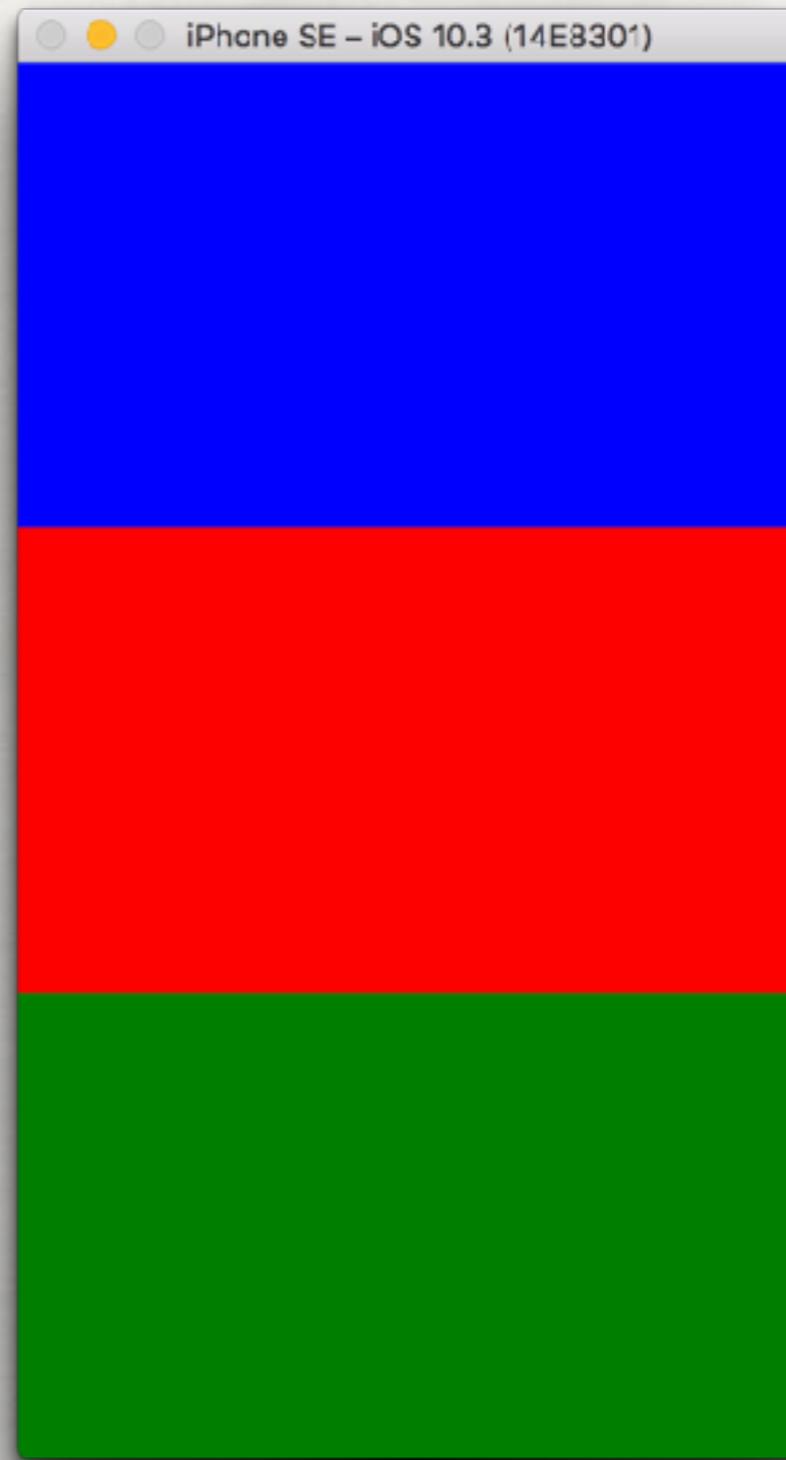


- backgroundColor
- width
- height
- borderWidth
- borderColor
- borderBottomWidth
- position (relative, absolute)
- E muito mais...

REACT-NATIVE

BASICS: STYLESHEET - FLEX BOX

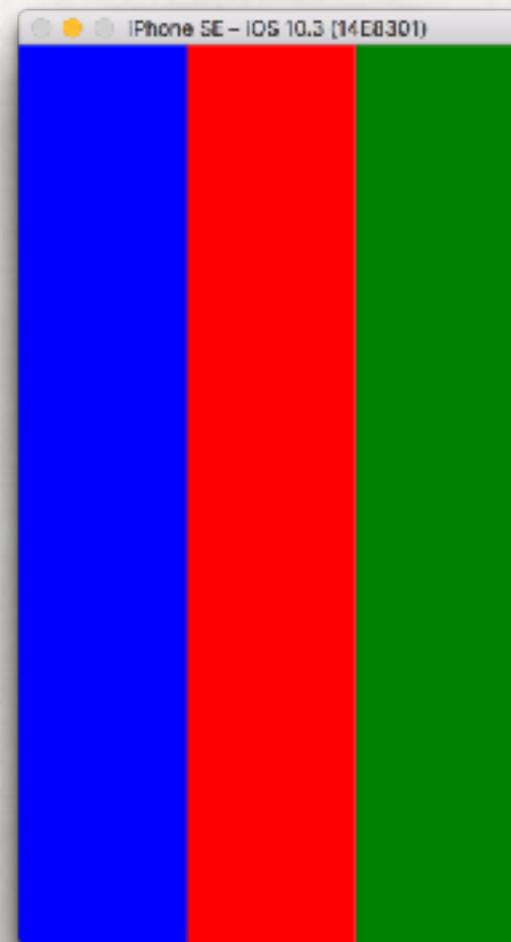
```
10  render() {
11    return (
12      <View style={styles.container}>
13        <View style={styles.view1}></View>
14        <View style={styles.view2}></View>
15        <View style={styles.view3}></View>
16      </View>
17    )
18  }
19}
20
21 const styles = StyleSheet.create({
22   container: {
23     flex: 1
24   },
25   view1: {
26     flex: 1,
27     backgroundColor: 'blue'
28   },
29   view2: {
30     flex: 1,
31     backgroundColor: 'red'
32   },
33   view3: {
34     flex: 1,
35     backgroundColor: 'green'
36   }
37 })
```



REACT-NATIVE

BASICS: STYLESHEET - FLEX BOX

```
const styles = StyleSheet.create({
  container: {
    flex: 1,
    flexDirection: 'row'
  },
  view1: {
    flex: 1.
```



```
const styles = StyleSheet.create({
  container: {
    flex: 1,
    flexDirection: 'column'
  },
  view1: {
    flex: 1
```



REACT-NATIVE

BASICS: STYLESHEET - FLEX BOX

```
const styles = StyleSheet.create({
  container: {
    flex: 1,
    flexDirection: 'row',
    justifyContent: 'space-around'
  },
  view1: {
    height: 50,
    width: 50,
    backgroundColor: 'blue'
```

```
const styles = StyleSheet.create({
  container: {
    flex: 1,
    flexDirection: 'column',
    justifyContent: 'space-around'
  },
  view1: {
    height: 50,
    width: 50,
    backgroundColor: 'blue'
```



REACT-NATIVE

BASICS: STYLESHEET - FLEX BOX

```
10  render() {
11    return (
12      <View style={styles.container}>
13        <View style={styles.view1}></View>
14        <View style={styles.view2}></View>
15      </View>
16    )
17  }
18}

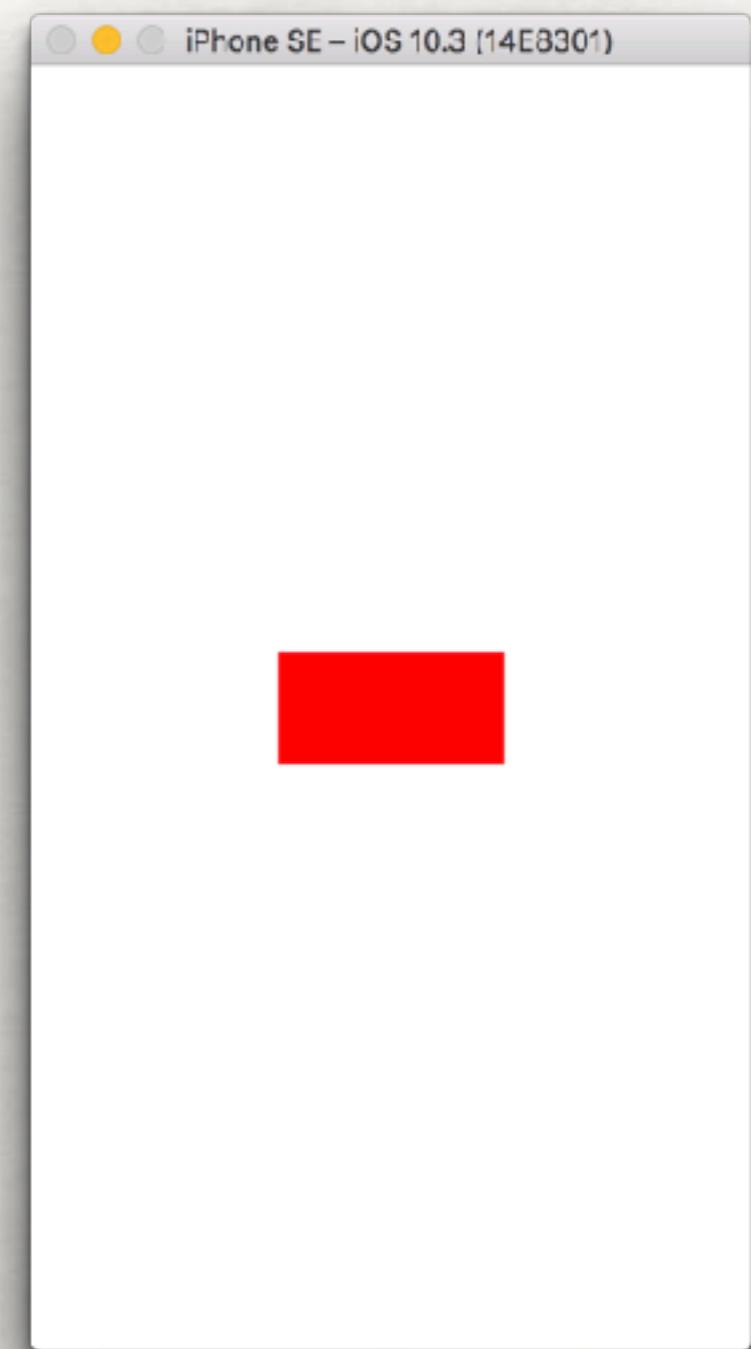
19
20 const styles = StyleSheet.create({
21   container: {
22     flex: 1,
23   },
24   view1: {
25     height: 70,
26     width: '100%',
27     backgroundColor: 'blue'
28   },
29   view2: {
30     flex: 1,
31     backgroundColor: 'red'
32   }
33 })
```



REACT-NATIVE

BASICS: STYLESHEET - FLEX BOX

```
10 render() {
11   return (
12     <View style={style.container}>
13       <View style={[style.view1, style.view2]}></View>
14     </View>
15   )
16 }
17 }
18
19 const style = StyleSheet.create({
20   container: {
21     flex: 1,
22     alignItems: 'center',
23     justifyContent: 'center'
24   },
25   view1: {
26     height: 50,
27     width: 50
28   },
29   view2: {
30     backgroundColor: 'red',
31     width: 100
32   }
33 })
```



ENTENDENDO REACT

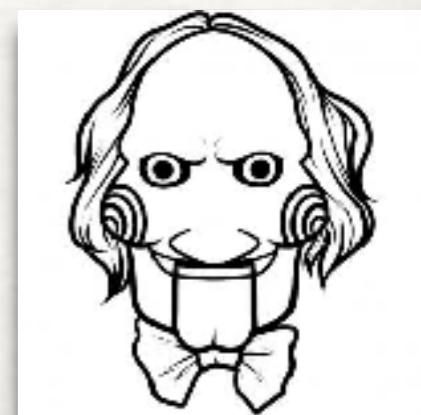
QUEST: PRIMEIRO LAYOUT



Header: fixo no top

Body: responsivo

Footer: fixo no bottom;
Items divididos igualmente



20 min

ENTENDENDO REACT

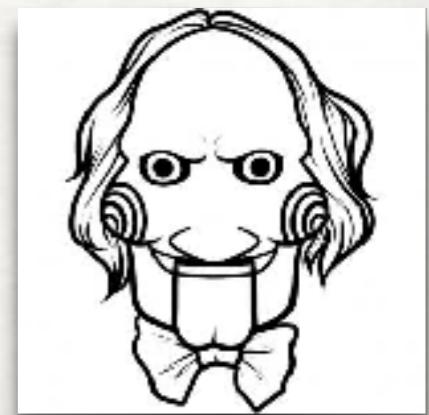
QUEST: PRIMEIRO LAYOUT



Header: fixo no top

Body: responsivo

Footer: fixo no bottom;
Items divididos igualmente



20 min

REACT-NATIVE

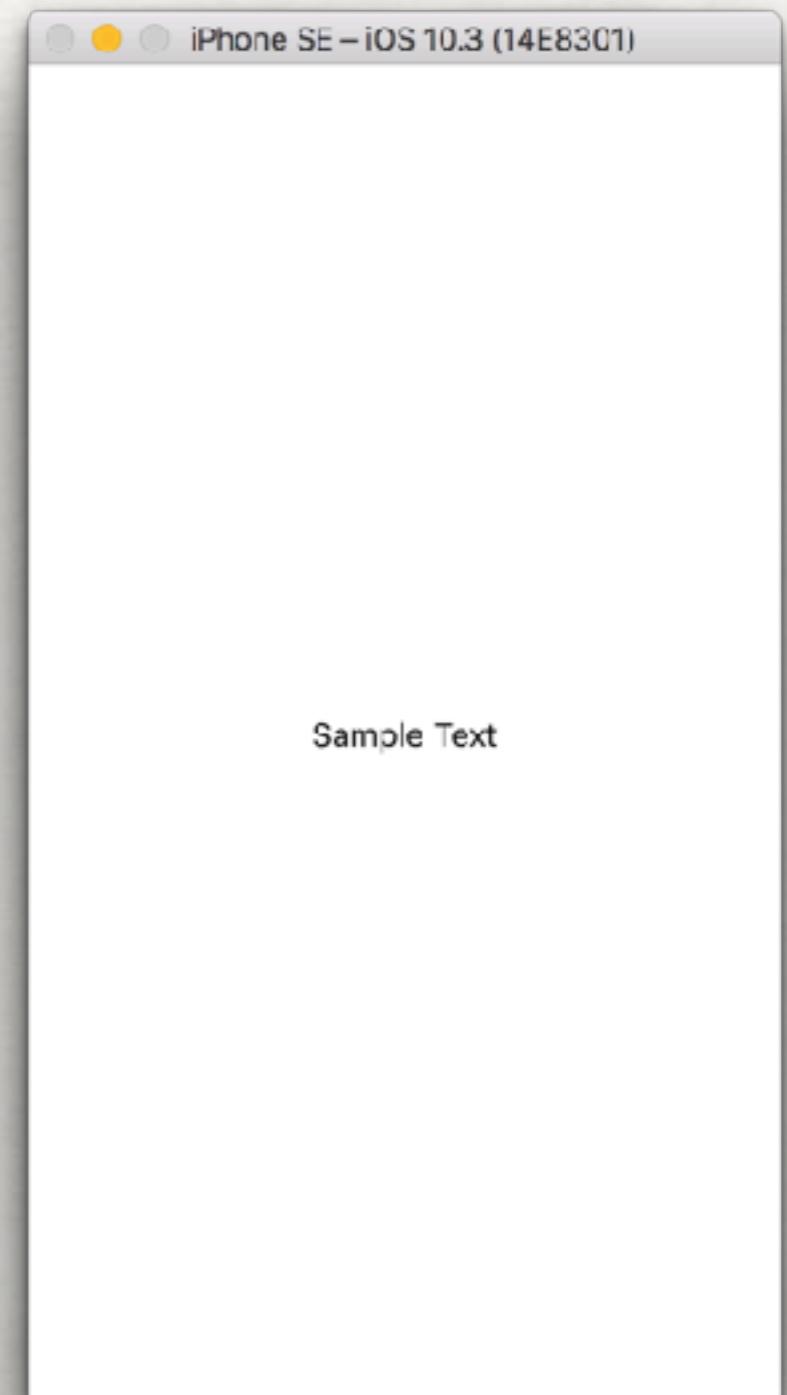
INICIANDO

Aa[Text

REACT-NATIVE

BASICS: TEXT

```
1 import React from 'react'
2 import { StyleSheet, View, Text, StatusBar } from 'react-native'
3
4 class App extends React.Component {
5   constructor(props) {
6     super(props)
7     StatusBar.setHidden(true)
8   }
9
10  render() {
11    return (
12      <View style={style.container}>
13        <Text>Sample Text</Text>
14      </View>
15    )
16  }
17}
18
19 const style = StyleSheet.create({
20   container: {
21     flex: 1,
22     alignItems: 'center',
23     justifyContent: 'center'
24   }
25 })
26
27 export default App
```



REACT-NATIVE

BASICS: TEXT

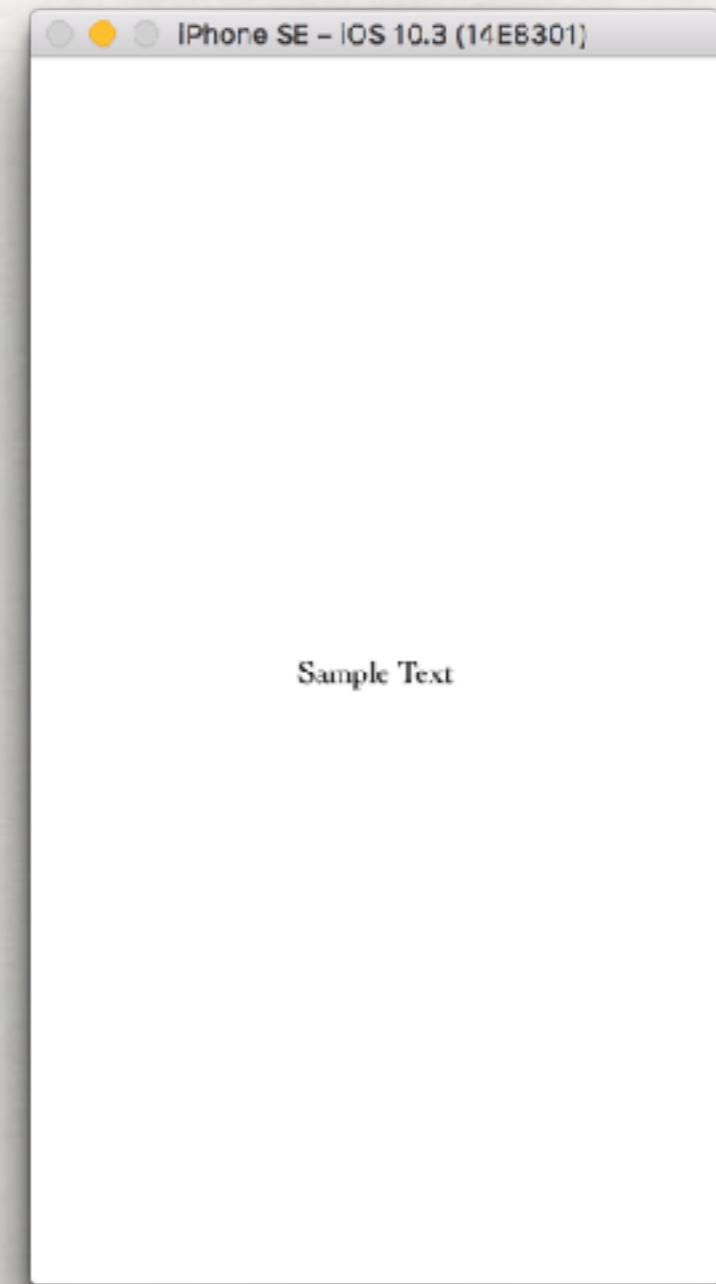
```
10  render() {
11    return (
12      <View style={style.container}>
13        <Text style={style.text}>Sample Text</Text>
14      </View>
15    )
16  }
17}
18
19const style = StyleSheet.create({
20  container: {
21    flex: 1,
22    alignItems: 'center',
23    justifyContent: 'center'
24  },
25  text: {
26    fontFamily: 'Cochin'
27  }
28})
29
30export default App
```



REACT-NATIVE

BASICS: TEXT

```
10  render() {
11    return (
12      <View style={style.container}>
13        <Text style={style.text}>Sample Text</Text>
14      </View>
15    )
16  }
17}
18
19const style = StyleSheet.create({
20  container: {
21    flex: 1,
22    alignItems: 'center',
23    justifyContent: 'center'
24  },
25  text: {
26    fontFamily: 'Cochin'
27  }
28})
29
30export default App
```



REACT-NATIVE

BASICS: TEXT

```
1 import React from 'react'
2 import { Text, StyleSheet } from 'react-native'
3
4 export default (props) => {
5   return (
6     <Text style={style.text}>
7       {props.text}
8     </Text>
9   )
10 }
11
12 const style = StyleSheet.create({
13   text: {
14     fontFamily: 'Cochin'
15   }
16 })
```

```
6   class App extends React.Component {
7     constructor(props) {
8       super(props)
9       StatusBar.setHidden(true)
10    }
11
12    render() {
13      return (
14        <View style={style.container}>
15          <MyText text={'Sample for MyText'} />
16        </View>
17      )
18    }
19  }
```

Sample for MyText

REACT-NATIVE

BASICS: TEXT

```
render() {
  return (
    <View style={style.container}>
      <MyText>Sample for MyText</MyText>
    </View>
  )
}
```

REACT-NATIVE

BASICS: TEXT

```
render() {
  return (
    <View style={style.container}>
      <MyText>Sample for MyText</MyText>
    </View>
  )
}
```

```
1 import React from 'react'
2 import { Text, StyleSheet } from 'react-native'
3
4 export default (props) => {
5   return (
6     <Text style={style.text}>
7       {props.children}
8     </Text>
9   )
10 }
11
12 const style = StyleSheet.create({
13   text: {
14     fontFamily: 'Cochin'
15   }
16 })
```



REACT-NATIVE

BASICS: TEXT

```
12  render() {
13    return (
14      <View style={style.container}>
15        <MyText style={style.text}>
16          | Sample for MyText
17        </MyText>
18      </View>
19    )
20  }
21}
22
23 const style = StyleSheet.create({
24   container: {
25     flex: 1,
26     alignItems: 'center',
27     justifyContent: 'center'
28   },
29   text: {
30     color: 'red'
31   }
32 })
```

REACT-NATIVE

BASICS: TEXT

```
12 render() {
13   return (
14     <View style={style.container}>
15       <MyText style={style.text}>
16         Sample for MyText
17       </MyText>
18     </View>
19   )
20 }
21
22 const style = StyleSheet.create({
23   container: {
24     flex: 1,
25     alignItems: 'center',
26     justifyContent: 'center'
27   },
28   text: {
29     color: 'red'
30   }
31 })
32 }
```

```
1 import React from 'react'
2 import { Text, StyleSheet } from 'react-native'
3
4 export default (props) => {
5   return (
6     <Text
7       {...props}
8       style={[style.text, props.style]}
9     >
10       {props.children}
11     </Text>
12   )
13 }
14
15 const style = StyleSheet.create({
16   text: {
17     fontFamily: 'Cochin'
18   }
19 })
```



REACT-NATIVE

INICIANDO



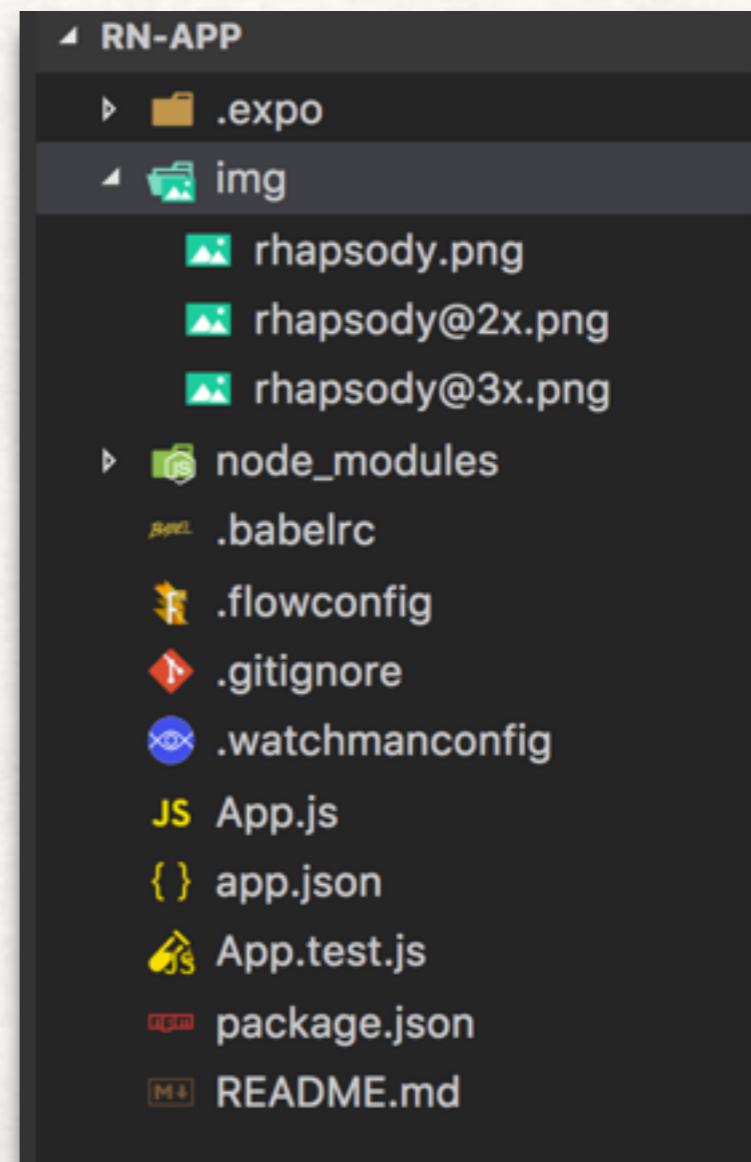
Image

REACT-NATIVE

BASICS: IMAGE

```
2 import { StyleSheet, View, Image, StatusBar } from 'react-native'
```

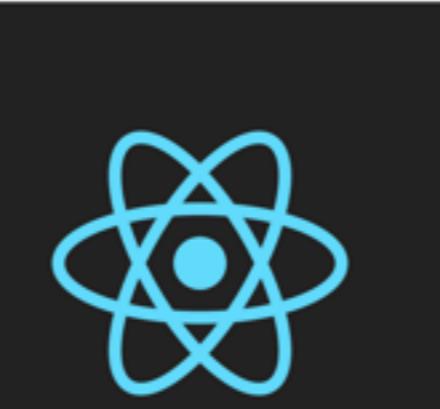
```
10 render() {
11   return (
12     <View style={style.container}>
13       <Image
14         source={require('./img/rhapsody.png')}
15         style={style.image}/>
16     </View>
17   )
18 }
19 }
20
21 const style = StyleSheet.create({
22   container: {
23     flex: 1,
24     alignItems: 'center',
25     justifyContent: 'center'
26   },
27   image: {
28     height: 200,
29     width: 200
30   }
31 })
```



REACT-NATIVE

BASICS: IMAGE

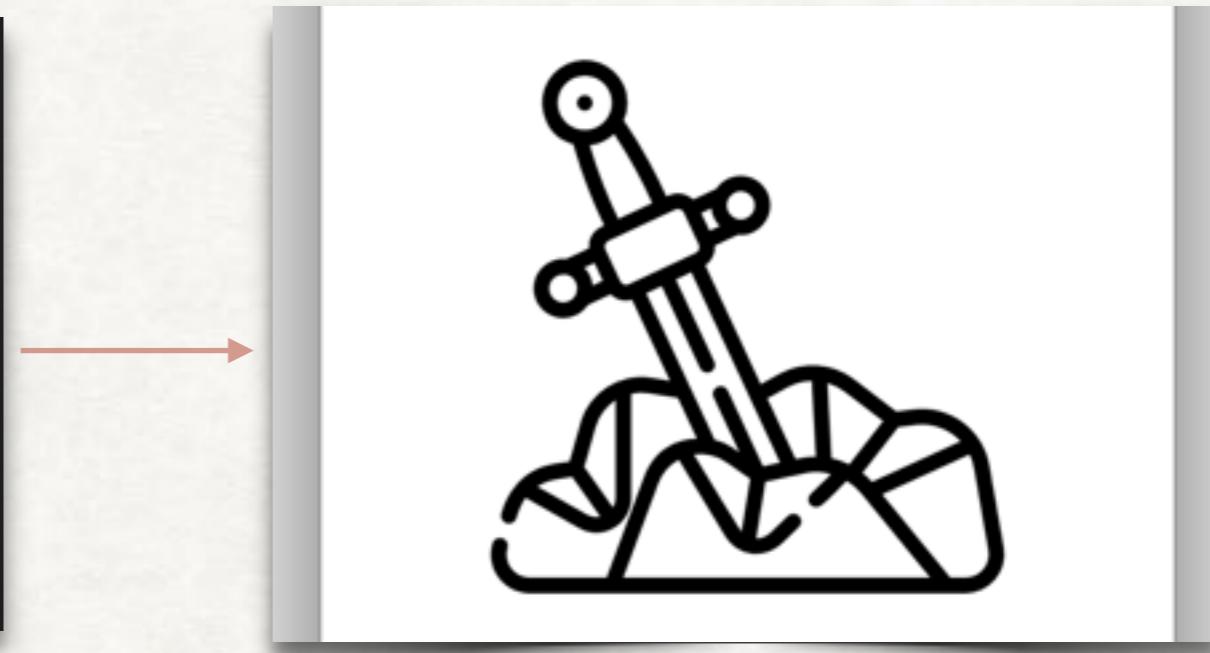
```
10  render() {
11    return (
12      <View style={style.container}>
13        <Image
14          source={{uri: 'https://facebook.github.io/react/img/logo_og.png'}}
15          style={style.image}/>
16        </View>
17    )
18  }
```



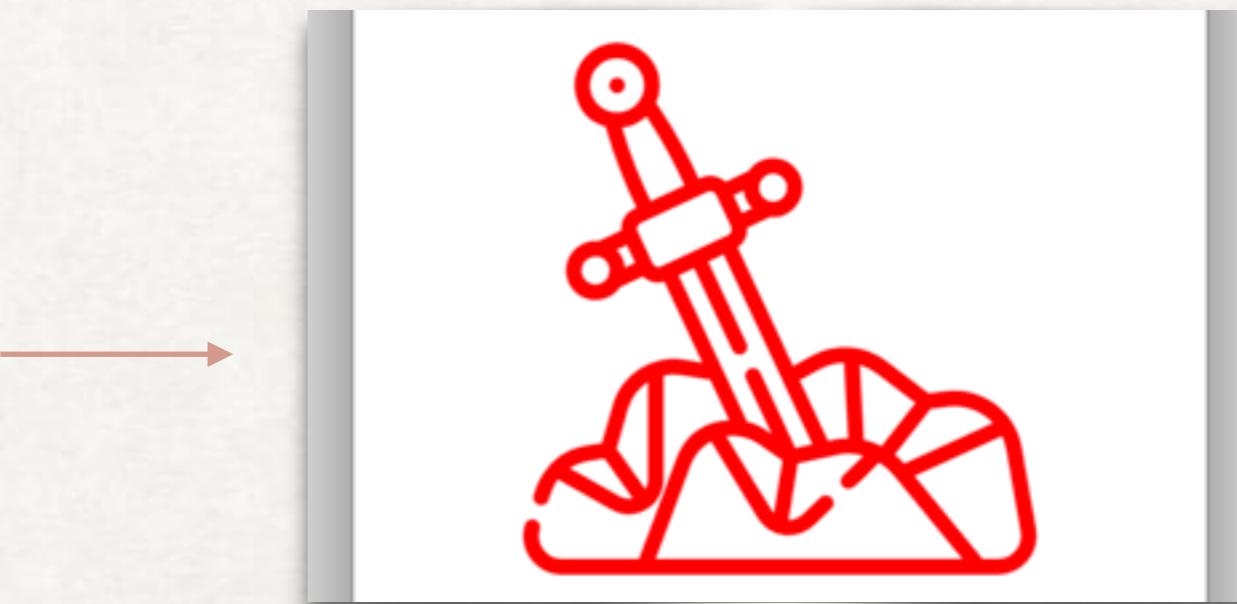
REACT-NATIVE

BASICS: IMAGE

```
10  render() {  
11    return (  
12      <View style={style.container}>  
13        <Image  
14          source={require('./img/sword.png')}  
15          style={style.image}/>  
16      </View>  
17    )  
18  }  
19 }  
20 }
```



```
21  const style = StyleSheet.create({  
22    container: {  
23      flex: 1,  
24      alignItems: 'center',  
25      justifyContent: 'center'  
26    },  
27    image: {  
28      height: 200,  
29      width: 200,  
30      tintColor: 'red'  
31    }  
32  })
```



REACT-NATIVE

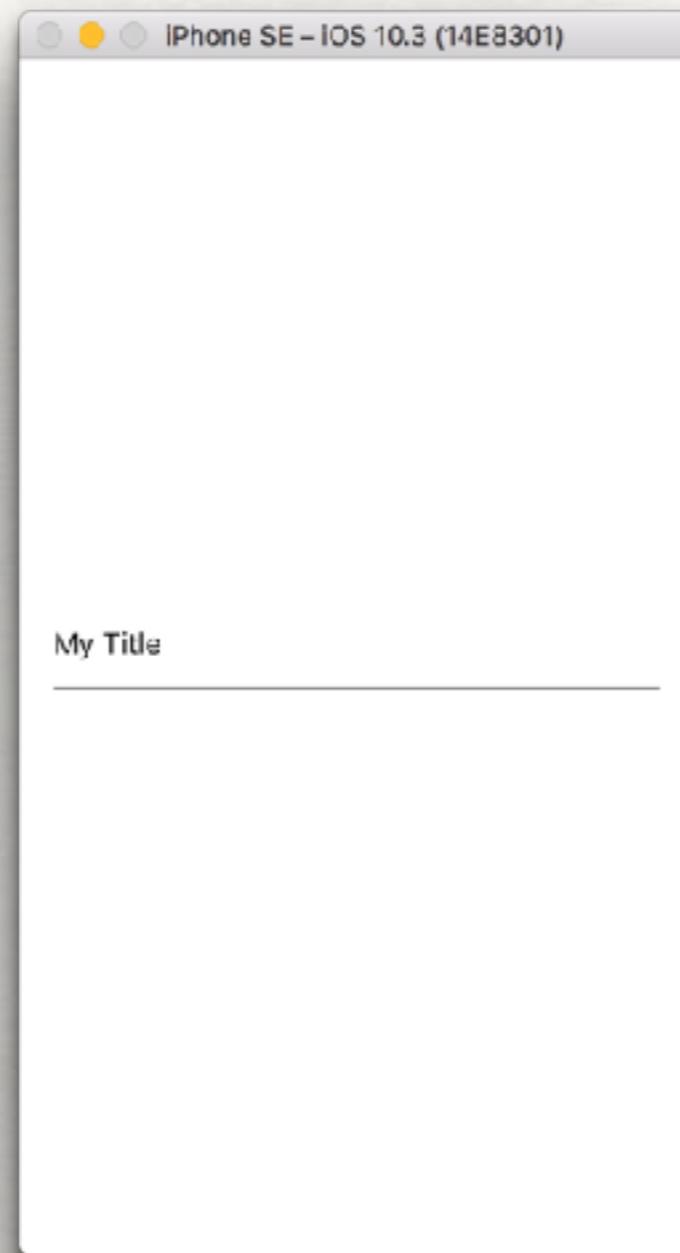
INICIANDO



Layout Metamórfico

REACT-NATIVE

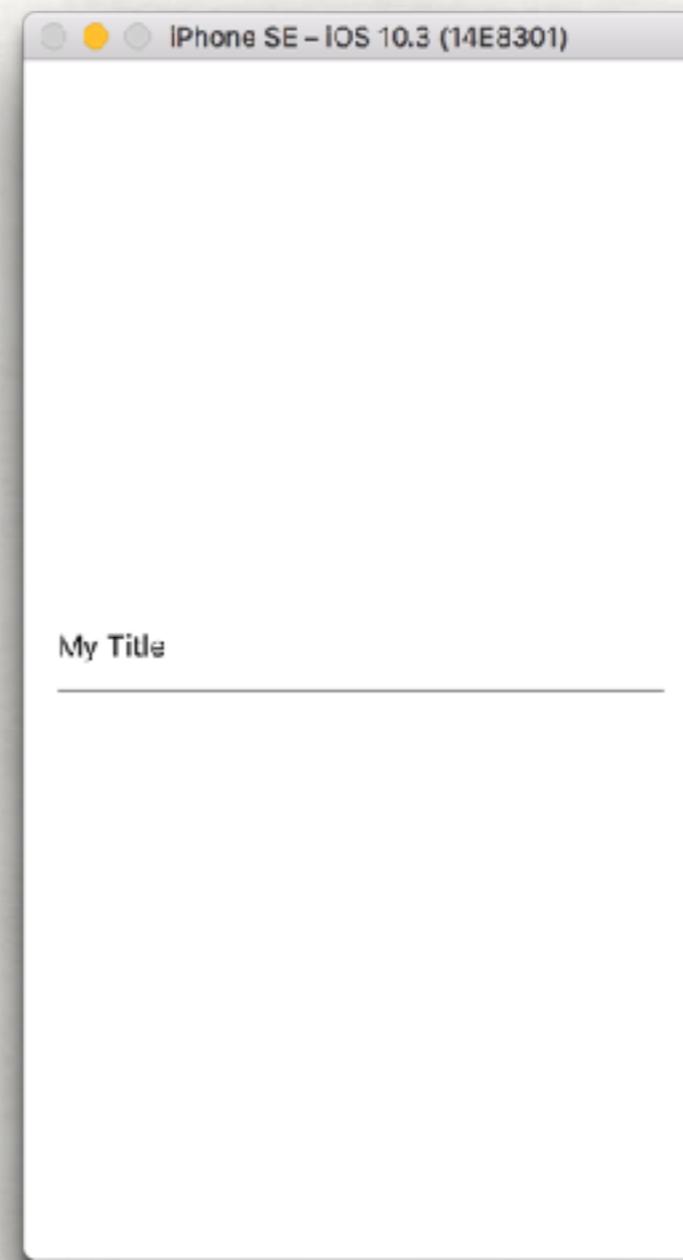
NOT SO BASIC =P: LAYOUT METAMÓRFICO



REACT-NATIVE

NOT SO BASIC =P: LAYOUT METAMÓRFICO

```
4 import MyTitle from './MyTitle'  
5  
6 class App extends React.Component {  
7   constructor(props) {  
8     super(props)  
9     StatusBar.setHidden(true)  
10  }  
11  
12  render() {  
13    return (  
14      <View style={style.container}>  
15        <MyTitle  
16          height={30}  
17          textComponent={(props) => {  
18            return (<Text>My Title</Text>)  
19          }}/>  
20        </View>  
21    )  
22  }  
23}
```



REACT-NATIVE

NOT SO BASIC =P: LAYOUT METAMÓRFICO

```
4 import MyTitle from './MyTitle'  
5  
6 class App extends React.Component {  
7   constructor(props) {  
8     super(props)  
9     StatusBar.setHidden(true)  
10  }  
11  
12  render() {  
13    return (  
14      <View style={style.container}>  
15        <MyTitle  
16          height={30}  
17          textComponent={(props) => {  
18            return (<Text>My Title</Text>)  
19          }}/>  
20        </View>  
21    )  
22  }  
23}
```

```
1  import React from 'react'  
2  import { View, StyleSheet } from 'react-native'  
3  
4  export default (props) => {  
5    const TextComponent = props.textComponent  
6  
7    return (  
8      <View  
9        style={[  
10          style.container,  
11          { height: props.height }  
12        ]}>  
13        <TextComponent />  
14      </View>  
15    )  
16  }  
17  
18  const style = StyleSheet.create({  
19    container: {  
20      width: '90%',  
21      borderColor: 'gray',  
22      borderBottomWidth: 1  
23    }  
24  })
```

REACT-NATIVE

QUEST: MY NAV BAR



25 min

REACT-NATIVE

INICIANDO

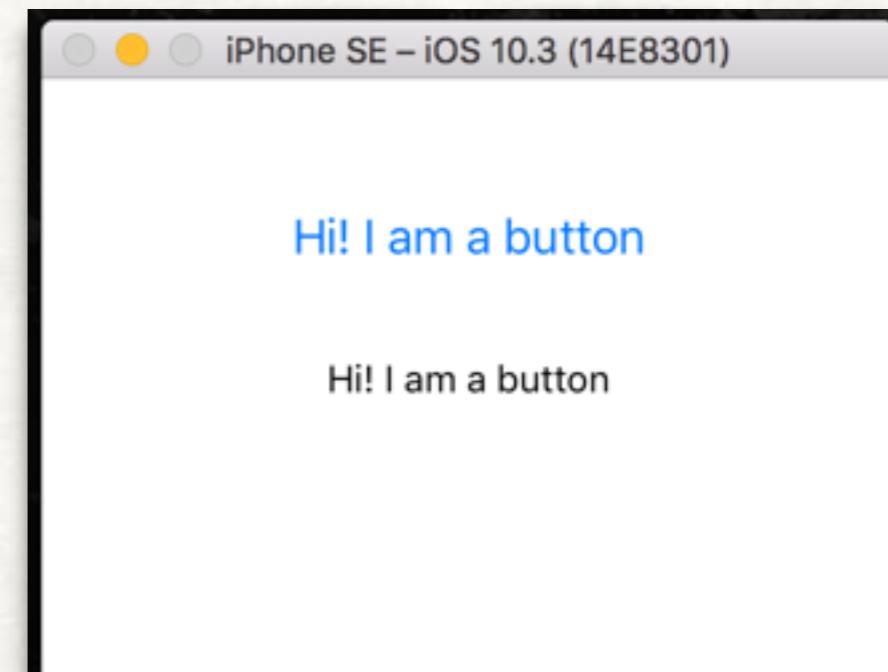


Buttons

REACT-NATIVE

BASICS: BUTTONS

```
render() {
  return (
    <View style={style.container}>
      <Button
        style={style.button}
        title={'Hi! I am a button'}
        onPress={this.onButtonPressed}>
      </Button>
      <TouchableOpacity
        style={style.button}
        onPress={this.onButtonPressed}>
        <Text>Hi! I am a button</Text>
      </TouchableOpacity>
    </View>
  )
}
```



REACT-NATIVE

INICIANDO



TextInput

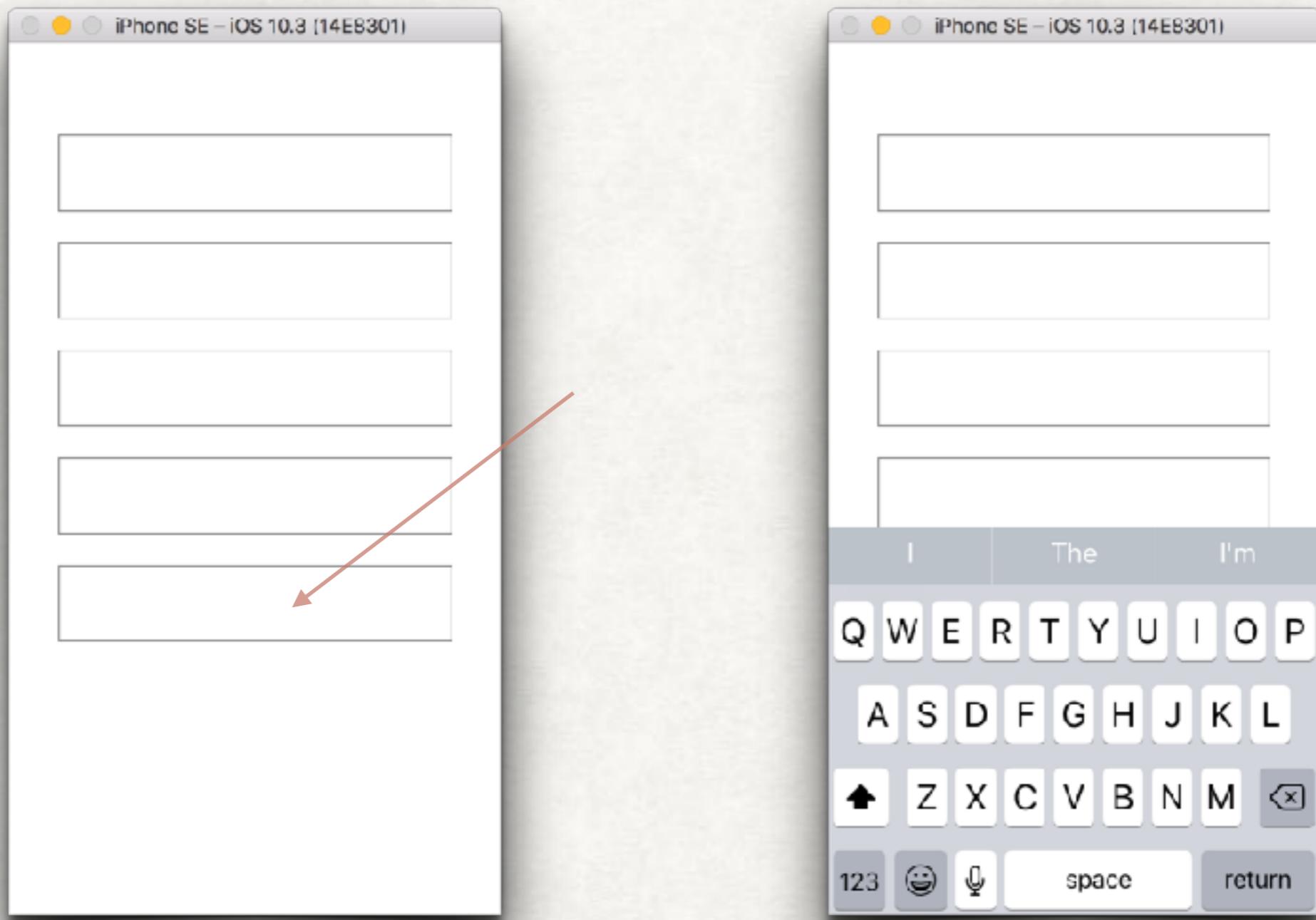
REACT-NATIVE

BASICS: TEXTINPUT

```
1 import React from 'react'
2 import { StyleSheet, View, StatusBar, TextInput } from 'react-native'
3
4 class App extends React.Component {
5   constructor(props) {
6     super(props)
7     StatusBar.setHidden(true)
8
9     this.state = {
10       text: ''
11     }
12   }
13
14   render() {
15     return (
16       <View style={style.container}>
17         <TextInput
18           style={style.input}
19           value={this.state.text}
20           onChangeText={text => this.setState({ text })}/>
21         </View>
22       )
23     }
24   }
}
```

REACT-NATIVE

BASICS: TEXTINPUT



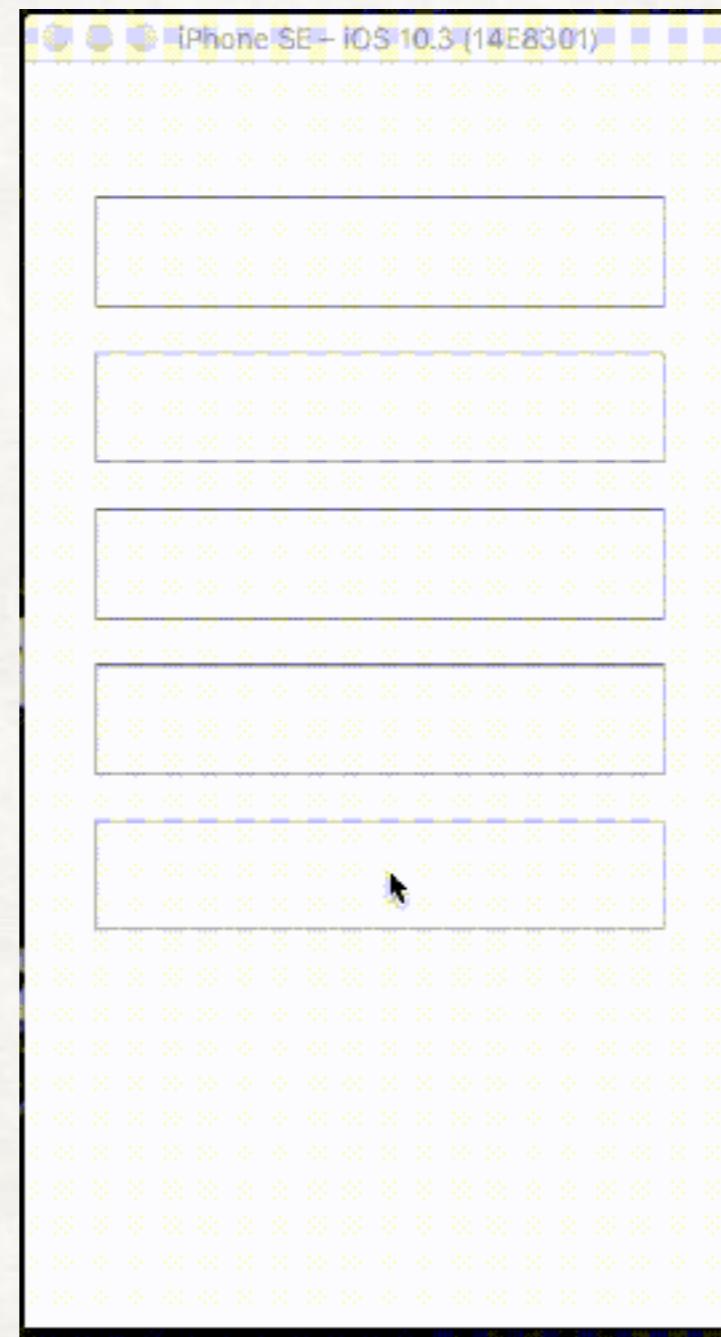
REACT-NATIVE

BASICS: TEXTINPUT

```
3 import { KeyboardAwareScrollView } from 'react-native-keyboard-aware-scroll-view'
4
5 class App extends React.Component {
6   constructor(props) {
7     super(props)
8     StatusBar.setHidden(true)
9
10    this.state = {
11      text: ''
12    }
13  }
14
15  render() {
16    return (
17      <View style={style.container}>
18        <KeyboardAwareScrollView
19          style={style.keyboardView}
20          contentContainerStyle={style.keyboardViewContent}>
21          <TextInput
22            style={style.input}
```

```
54   keyboardView: {
55     flex: 1,
56     width: '100%'
57   },
58   keyboardViewContent: {
59     flex: 1,
60     alignItems: 'center',
61     justifyContent: 'flex-start'
62 },
```

REACT-NATIVE BASICS: TEXTINPUT



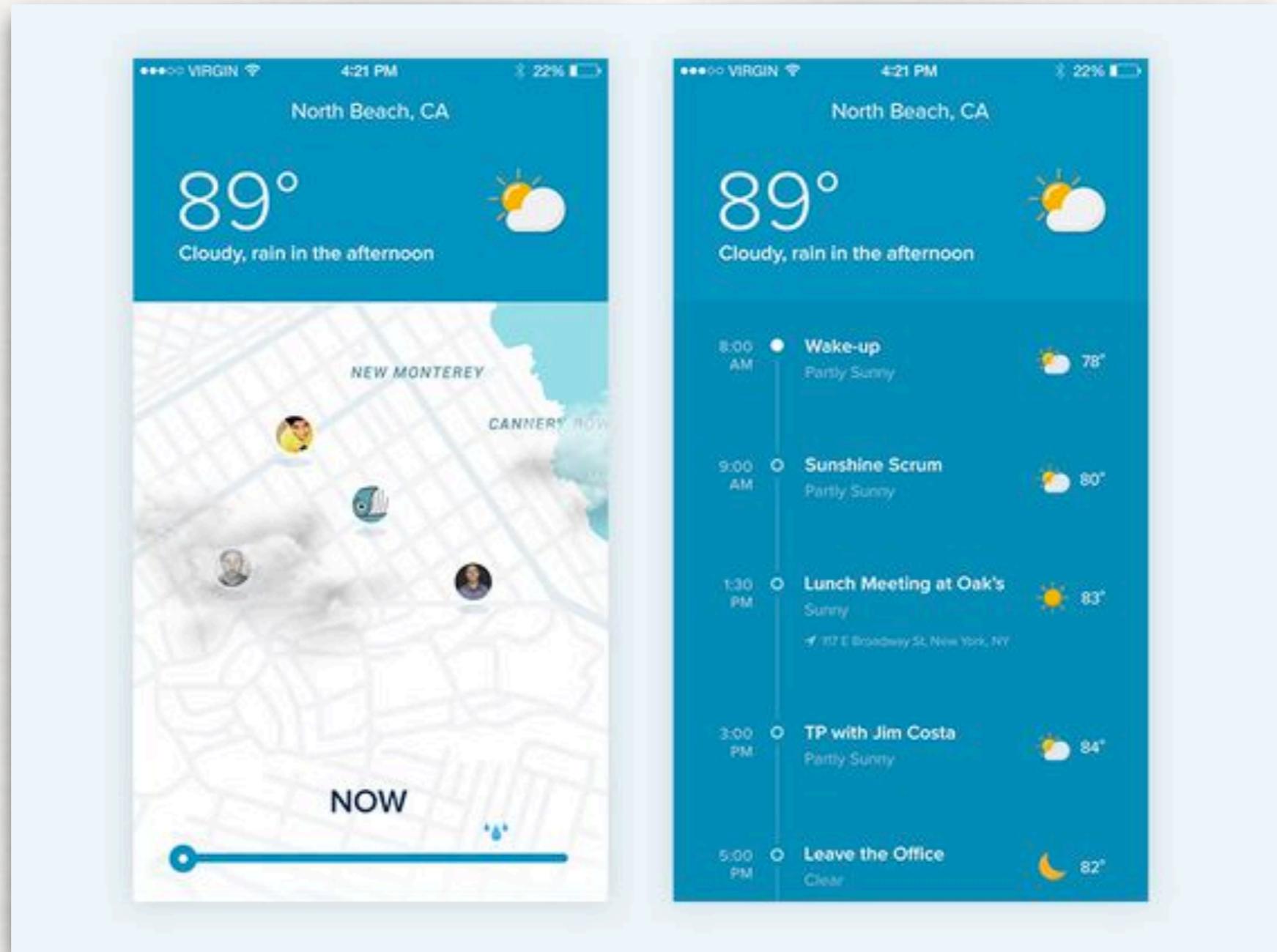
<https://github.com/APSL/react-native-keyboard-aware-scroll-view>



HOME QUEST
CREATE AN AWESOME SCREEN

REACT-NATIVE

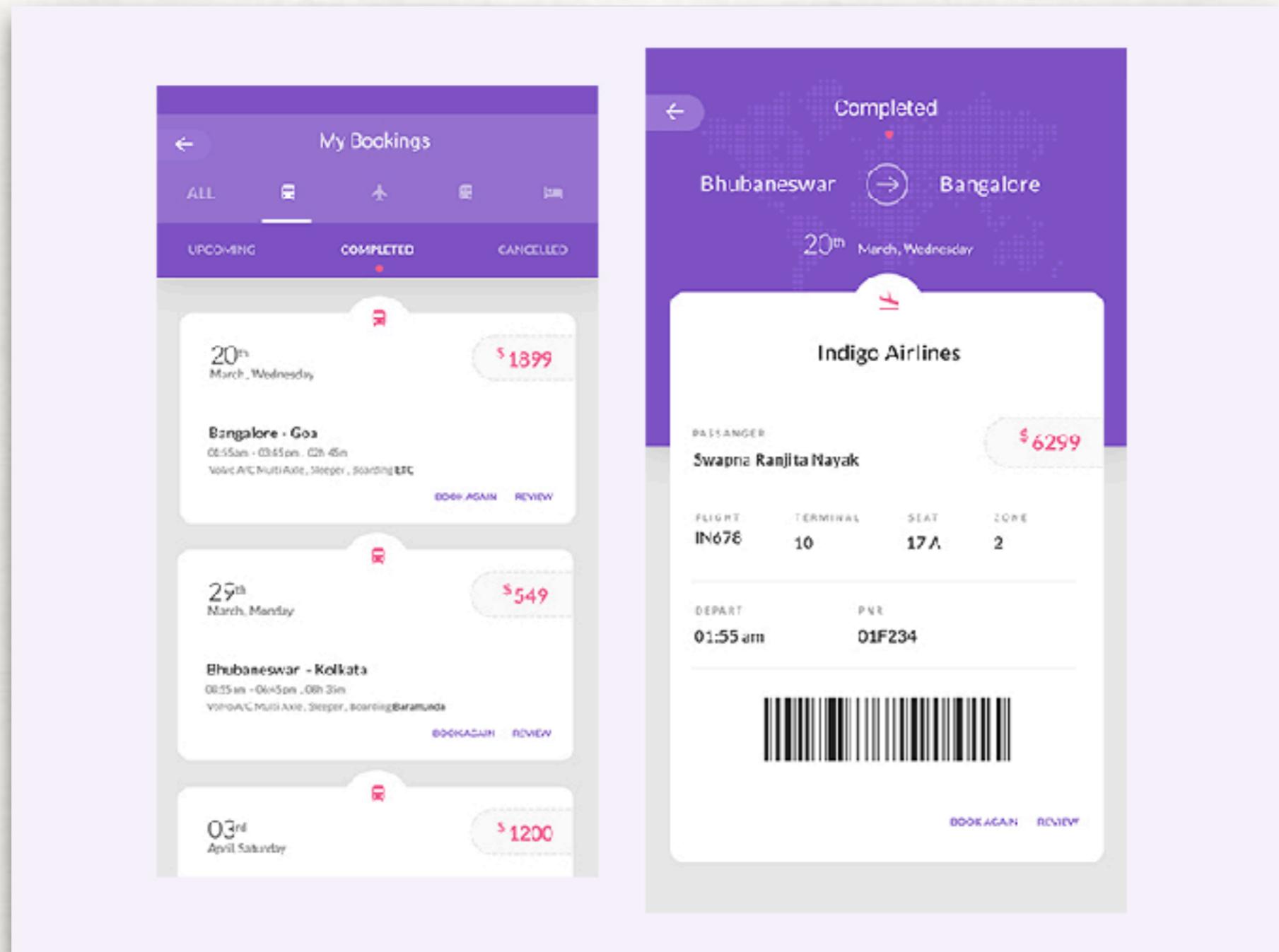
HOME QUEST: DESIGN A AWESOME SCREEN



<https://i.pinimg.com/564x/1c/a0/c3/1ca0c3d3c9e71575de311d173efdeab1.jpg>

REACT-NATIVE

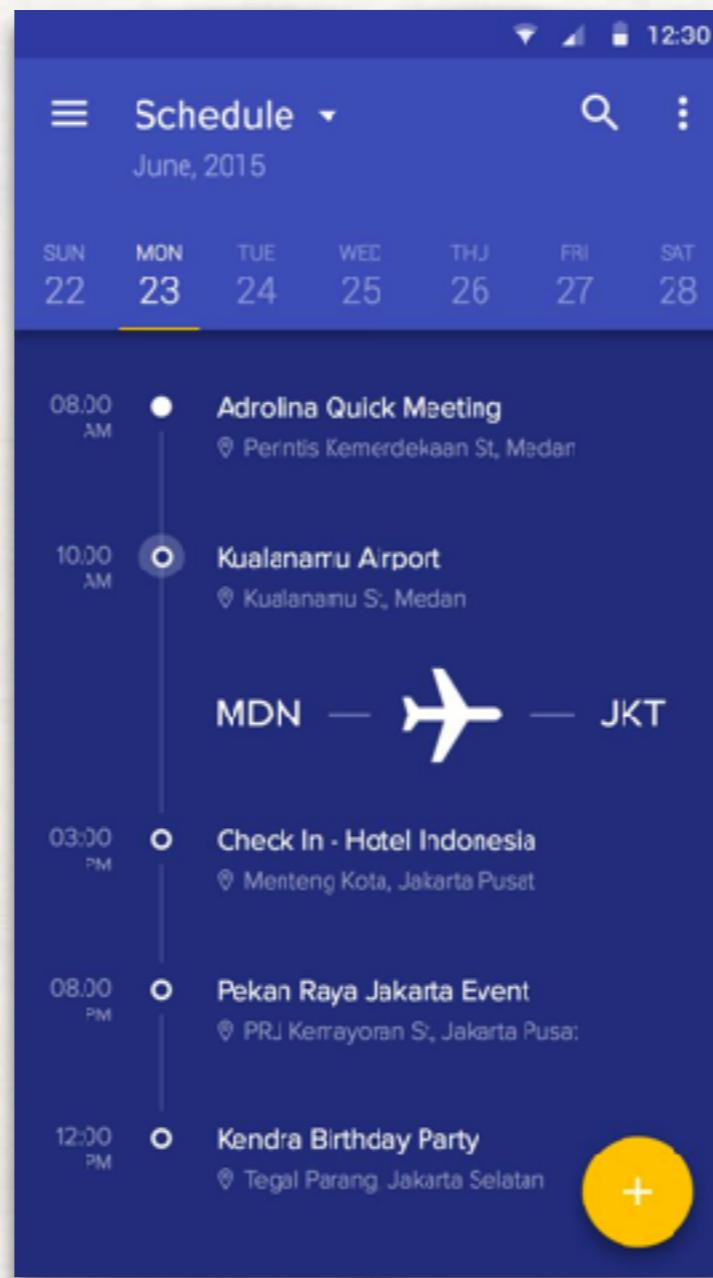
HOME QUEST: DESIGN A AWESOME SCREEN



<https://assets.materialup.com/uploads/4089abf6-f721-48aa-bc78-ec3675f37240/preview.jpg>

REACT-NATIVE

HOME QUEST: DESIGN A AWESOME SCREEN



<https://i.pinimg.com/564x/cd/8b/55/cd8b55a22ec2a950a0ebdbe9660e24ad.jpg>