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React Native Basic

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April 2020

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GOALS

1. Intro
2. Installing (RN CLI)
3. Components
4. Debugging
5. Styling

1. Intro

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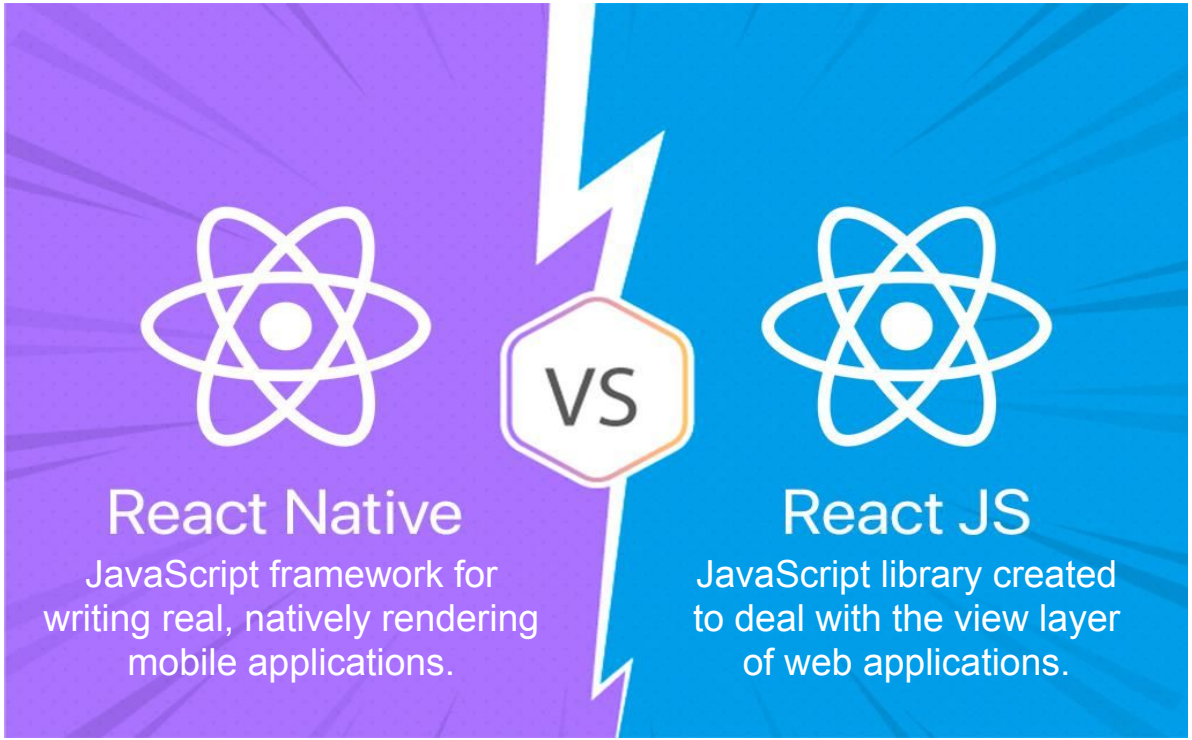
React Native

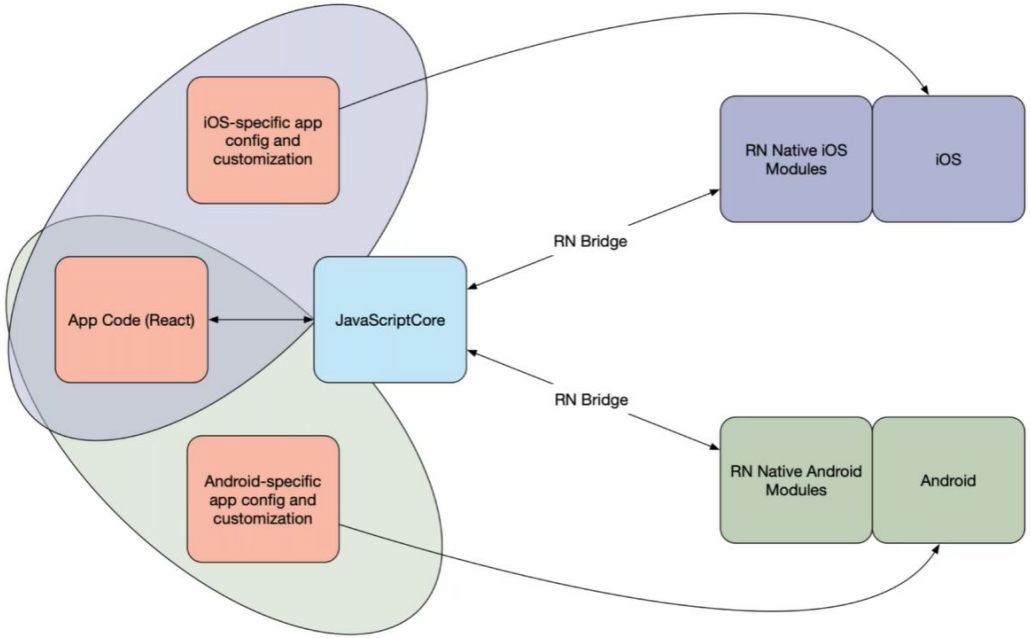
"The biggest mistake we made as a company was betting too much on HTML as opposed to native" (Mark Zuckerberg)

1. Intro

Why?


VS
React Native
JavaScript framework for writing real, natively rendering mobile applications.
React JS
JavaScript library created to deal with the view layer of web applications.

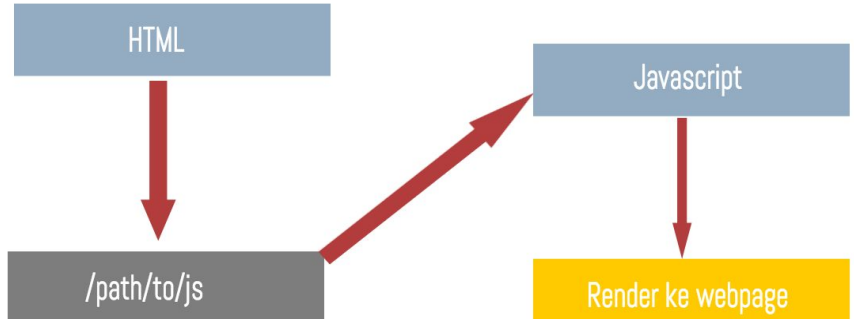
How does RN work?



References:
https://medium.com/under10/react-native-cara-kerjanya-gimana-sih-8e4ab3542cff
https://www.headspin.io/blog/appium/testing-react-native-apps-with-appium/

1. Intro

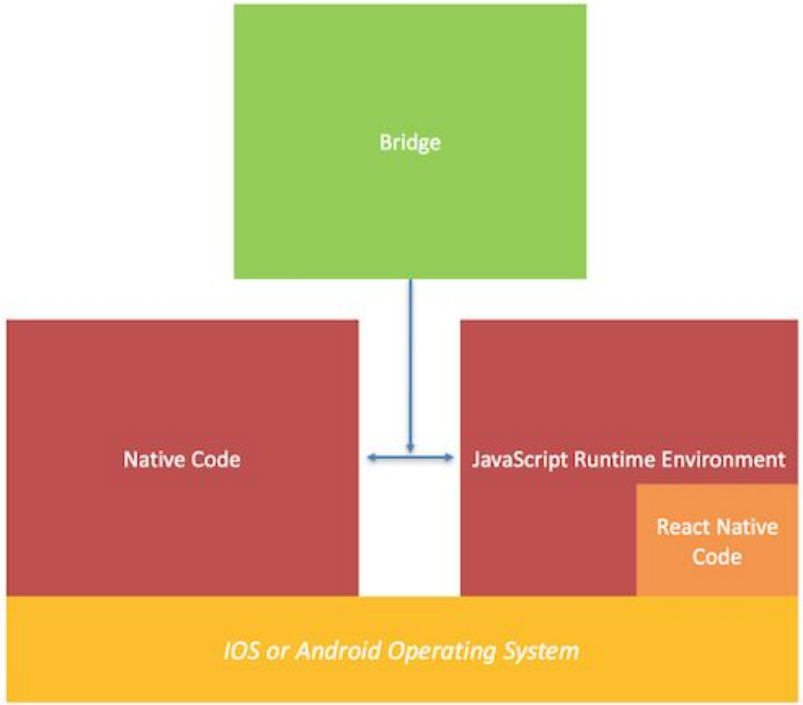
First: JS modern web app work

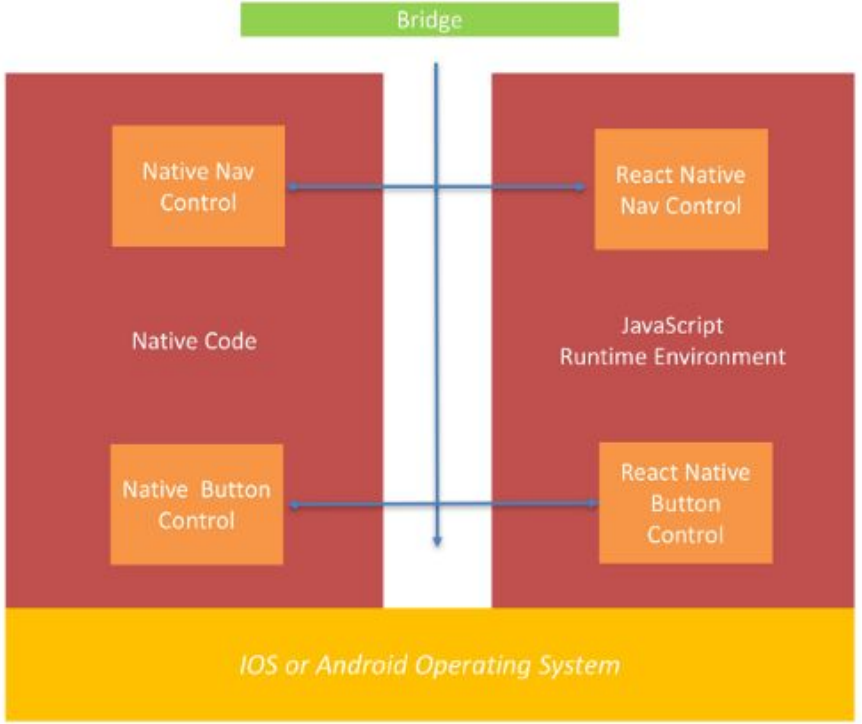



```
<html>
  <script src='/path/to/js/'>
</html>
```

1. Intro

Second: JS executed





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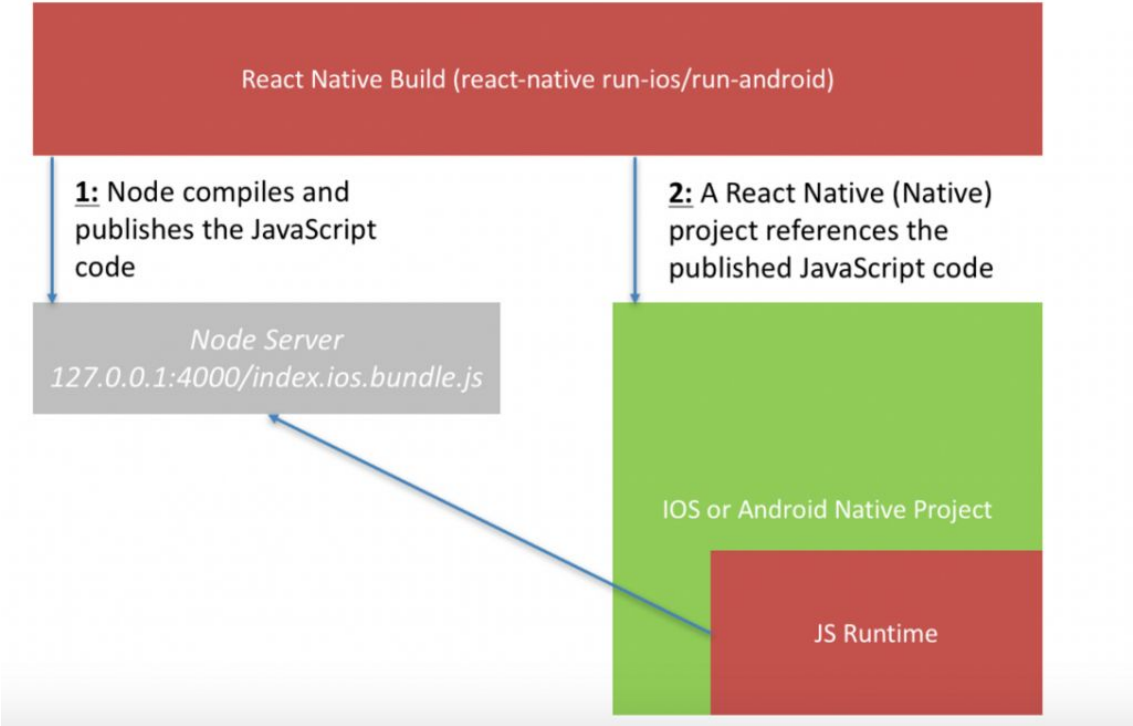
Third: The RN Build Process Architecture



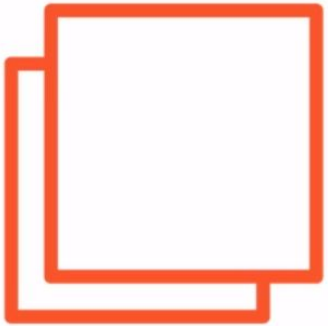
Advantages of React Native

True native app from JavaScript

Performance on par with native

Easy to learn

Advantages of React Native



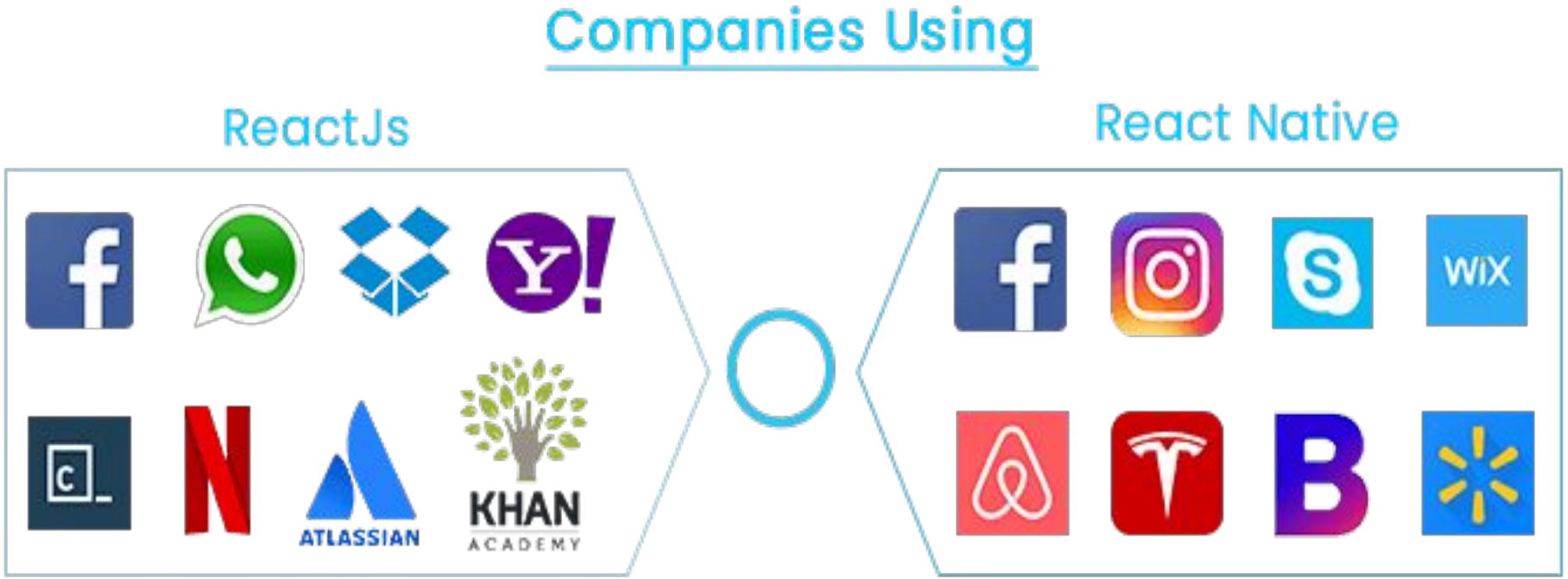
Shared codebase

Same code for iOS or Android

Community

Solid infrastructure of plugins and services

1. Intro



References:
https://www.youtube.com/watch?v=S4oggFrlFIw

1. Intro

Why is RN different?

Web Developers
Use existing skills to build mobile apps

React Native
Generates a true native app

Web view
Other hybrid platforms use a web view

References:
https://www.netguru.com/blog/when-react-native-is-not-a-good-choice-for-a-mobile-application-development

2. Installing (RN CLI)

- Requirements:
- Android: NodeJS, JDK, Android Studio/Emulator/AVD/Physical device
- iOS: NodeJS, JDK, XCode, Physical device
- Installing dependencies:
- Android:
  Install Android SDK, Configure ANDROID_HOME environment
- iOS:

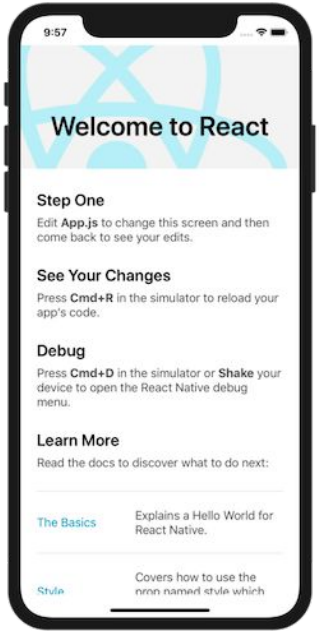
```
brew install node, tap AdoptOpenJDK/openjdk, cask install adoptopenjdk8
```

References:
https://reactnative.dev/docs/environment-setup

- npm install -g react-native-cli
- react-native init AwesomeProject

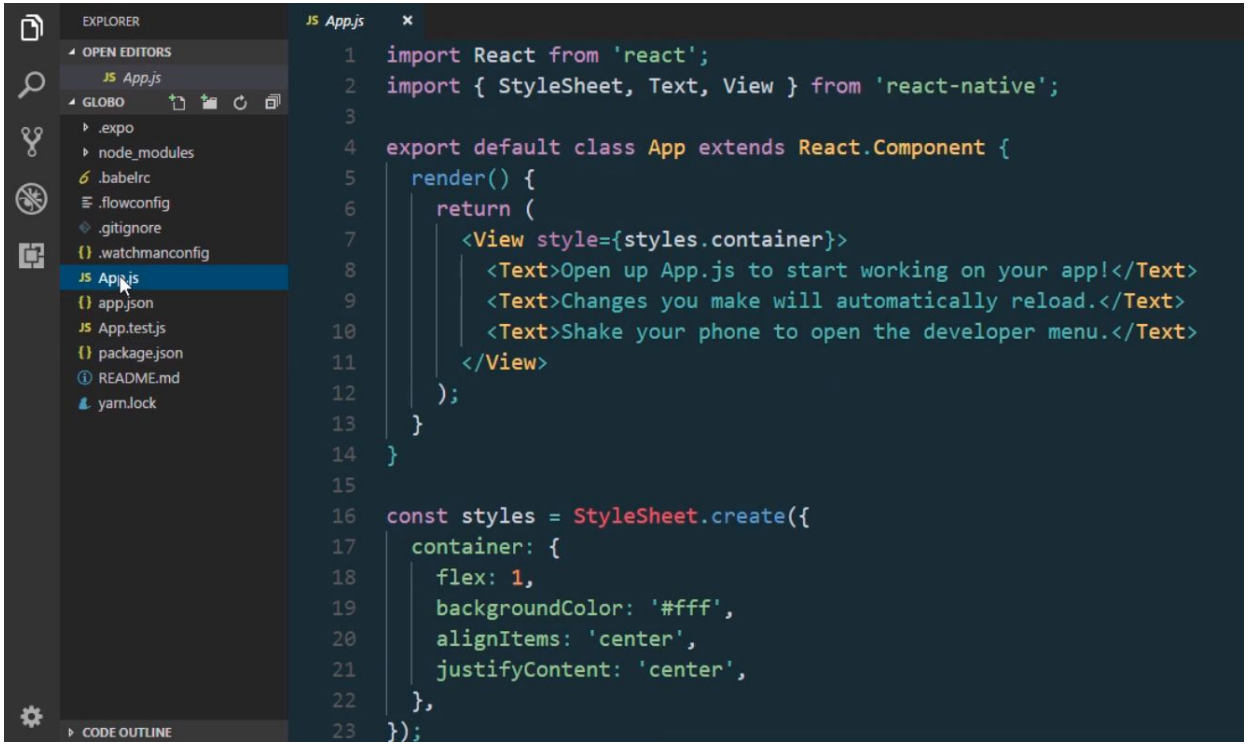
android

cd AwesomeProject
react-native run-android



react-native start

cd AwesomeProject
react-native run-ios

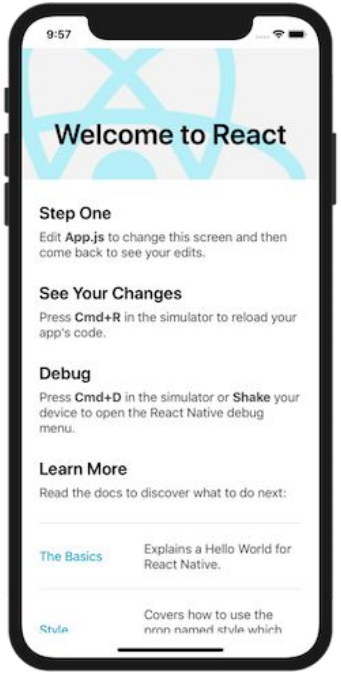

EXPLORER
OPEN EDITORS
App.js
GLOBO
.expo
node_modules
.babelrc
.flowconfig
.gitignore
.watchmanconfig
App.js
app.json
App.test.js
package.json
README.md
yarn.lock
CODE OUTLINE
App.js
1 import React from 'react';
2 import { StyleSheet, Text, View } from 'react-native';
3
4 export default class App extends React.Component {
5 render() {
6 return (
7 <View style={styles.container}>
8 <Text>Open up App.js to start working on your app!</Text>
9 <Text>Changes you make will automatically reload.</Text>
10 <Text>Shake your phone to open the developer menu.</Text>
11 </View>
12);
13 }
14 }
15
16 const styles = StyleSheet.create({
17 container: {
18 flex: 1,
19 backgroundColor: '#fff',
20 alignItems: 'center',
21 justifyContent: 'center',
22 },
23 });

3. Components

React uses components to build apps

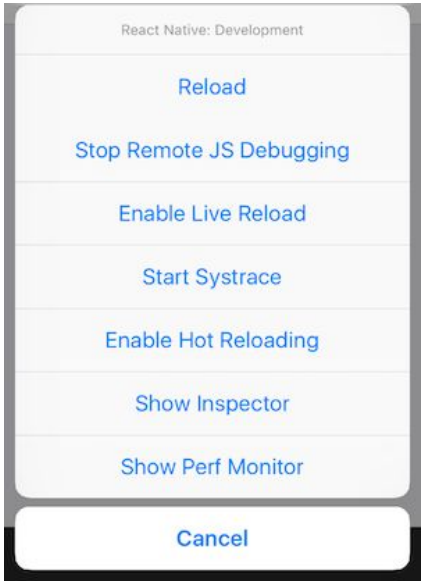
React Native includes many components ready for use

React Native components translate to native features

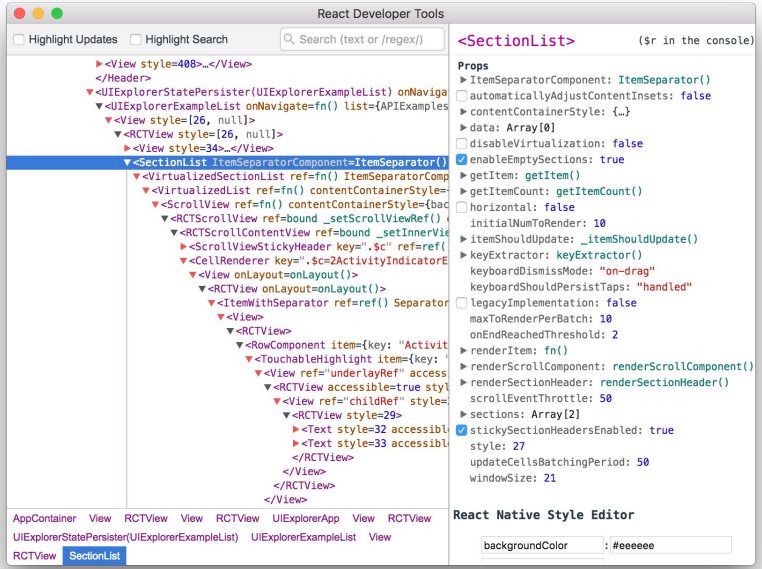


4. Debugging

Use the: ⌘D / ⌘M / Ctrl+M




```
npm install -g react-devtools
react-devtools
```



References:
https://reactnative.dev/docs/debugging

5. Styling

```
      <View style={styles.container}>
        <Text>Open up App.js to start working on your app!</Text>
        <Text>Changes you make will automatically reload.</Text>
        <Text>Shake your phone to open the developer menu.</Text>
      </View>
    );
  }
}

const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: '#fff',
    alignItems: 'center',
    justifyContent: 'center',
  },
});
```

Applying multiple styles to a component

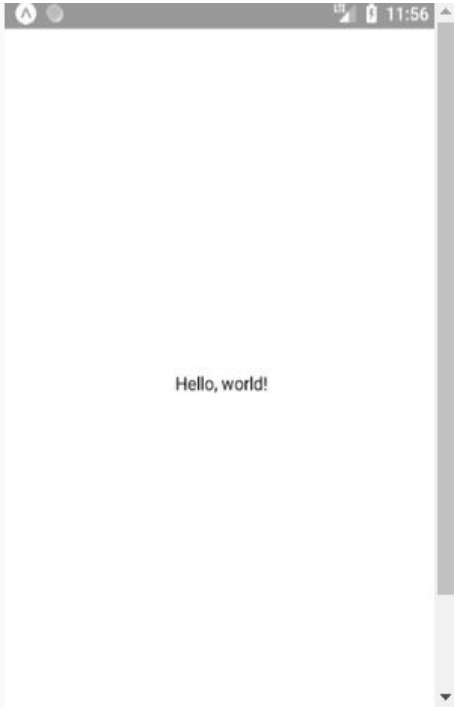
```
<View style={[styles.generic, styles.specific, { color: 'blue' }]} />
```

Explore: Flexbox & React Native UI Library

Let’s practice together!

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

export default class HelloWorldApp extends Component {
  render() {
    return (
      <View style={{ flex: 1, justifyContent: "center", alignItems: "center"
}}>
        <Text>Hello, world!</Text>
      </View>
    );
  }
}
```



QnA

Exercise

Create Form Login Page ;)

1. Text
2. Image (Logo & Background)
3. Button/TouchableOpacity
4. Debugging
5. Styling

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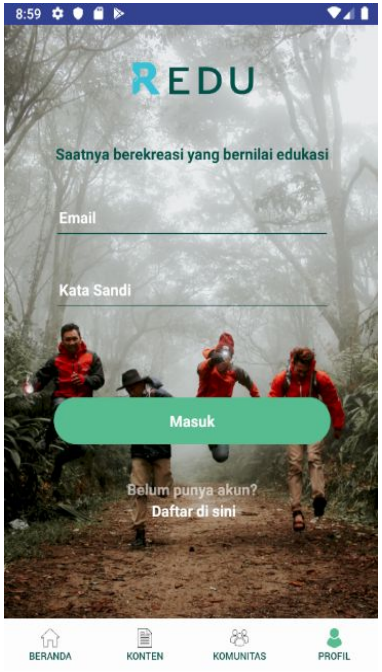
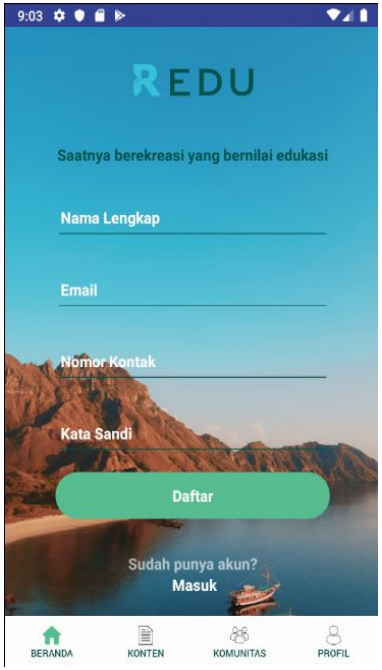
Spoiler Next Session





Managing the presentation of, and transition between, multiple screens is typically handled by what is known as a **navigator**.

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See u again. Stay healthy!
Thank u!