



# React Native

## Platform Overview

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# What is React Native?

- An open source platform for developing native mobile apps using Javascript (React)
- It is NOT a hybrid platform such as Ionic and PhoneGap
- Code is NOT transpiled like in Xamarin
- Maintained by Facebook Inc. (originated from Instagram)

# COMPARATIVO FERRAMENTAS MOBILE

## FACILIDADE DE CRIAÇÃO

Curva de aprendizado, tempo para masterizar

## CUSTO DE PRODUÇÃO

Valor agregado aos projetos

## LINGUAGENS

Facilidade de dominar as linguagens

## COMPATIBILIDADE

Compatibilidade com todos dispositivos

## INTERFACE

É possível obter interface nativa? Ou parecida?

## API'S NATIVAS

Integração com câmera, acelerômetro, etc

## APP STORE (PAY/PUSH)

Conseguimos colocar o app na store?

## PERFORMANCE

Não tem descrição, é performance mesmo



### WEB APPS

Apps contruídas para rodar no navegador



### NATIVO

Utilizam linguagem nativa em forma de app.



### HÍBRIDO

WebView renderizada em um app nativo.



### REACT NATIVE

JavaScript controlando interface nativa.





# Project Structure

- JavaScript code (React components, JSX)
- Android Project + native code (Java)
- iOS (XCode) project + native code (Objective C)



# Environment

- Open Source on Github, maintained by Facebook
- Many individual developers contribute with patches and packages
- Companies such as Microsoft, Wix and AirBNB also contribute



# Tools

- React Native CLI + Packager
  - `npm i -g react-native-cli`
  - `react-native init AwesomeProject`
  - `cd AwesomeProject && react-native run-android`
- CodePush by Microsoft
- Expo
- Ignite by Infinite Red
- Native Base



# Testing

- Unit/Component: Jest + Enzyme
- End-to-end:
  - Calabash + Cucumber
  - Detox by Wix (iOS only, Android under development)





## Pros/Cons



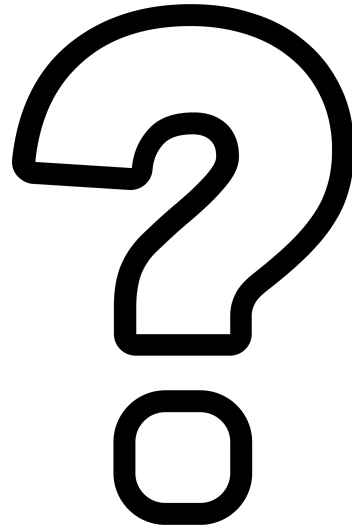
- Community support
- Developer productivity
- Short TTM
- Native performance



- Maintaining tests
- Platform updates
- Breaking changes
- Hiring



**Questions?**





# Links

<https://facebook.github.io/react-native/>

<https://facebook.github.io/react-native/showcase.html>

<https://expo.io/>

<https://microsoft.github.io/code-push/>

<https://nativebase.io/>

<https://github.com/infinitered/ignite>