

React Native移动开发技术

# React Native基础

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# 本节内容

- React Native简介
- React Native基本概念
- 更多资源

# React Native简介

- 什么是React Native？
  - [Hello World example](#)

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

class HelloWorldApp extends Component {
  render() {
    return (
      <Text>Hello world!</Text>
    );
  }
}

AppRegistry.registerComponent('HelloWorldApp', () => HelloWorldApp);
```

# React Native简介

- 什么是React Native？
  - Learn once, write anywhere.
  - Build Mobile Apps using JavaScript and React.
  - A React Native App is a Real Native Mobile App.
  - Don't Waste Time Recompiling.
  - Use Native Code When You Need To.

# React Native简介

- 为什么选择React Native？

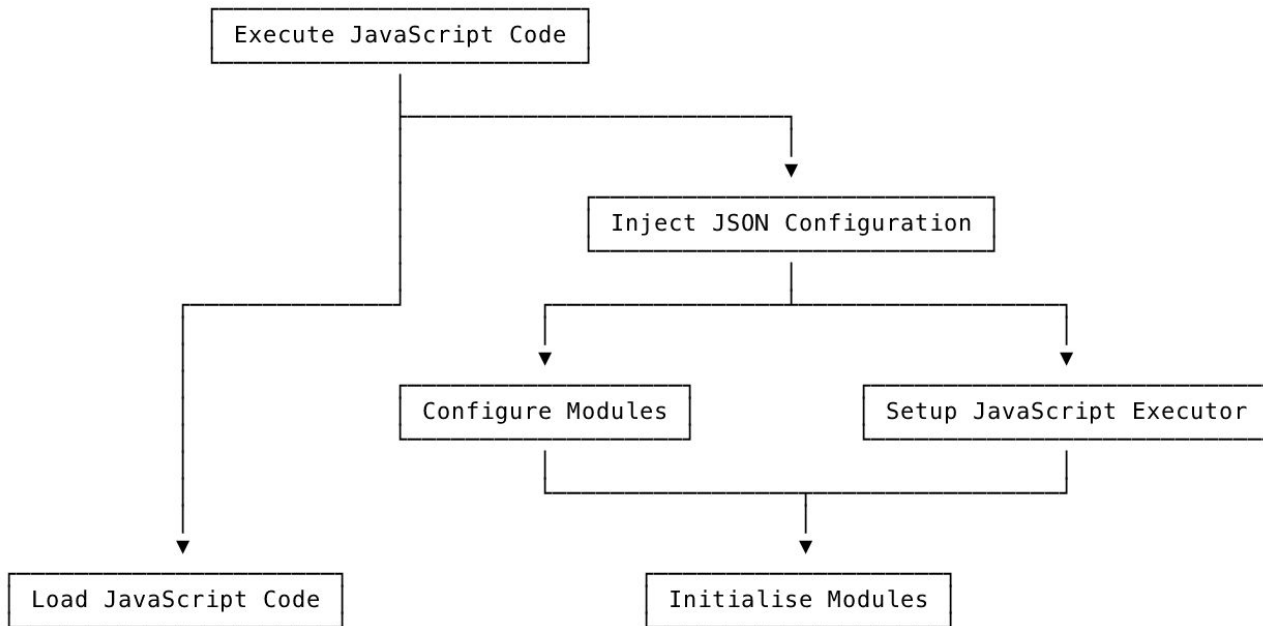
		跨平台性	用户体验	性能	易于开发	开源支持	更新
原生应用		弱	强	强	弱	弱	弱
移动Web		强	弱	弱	强	强	强
混合式应用	Cordova	居中	居中-	居中-	居中+	强	居中
	React Native	居中	居中+	居中+	居中-	强	居中

# React Native简介

- [Showcase](#)

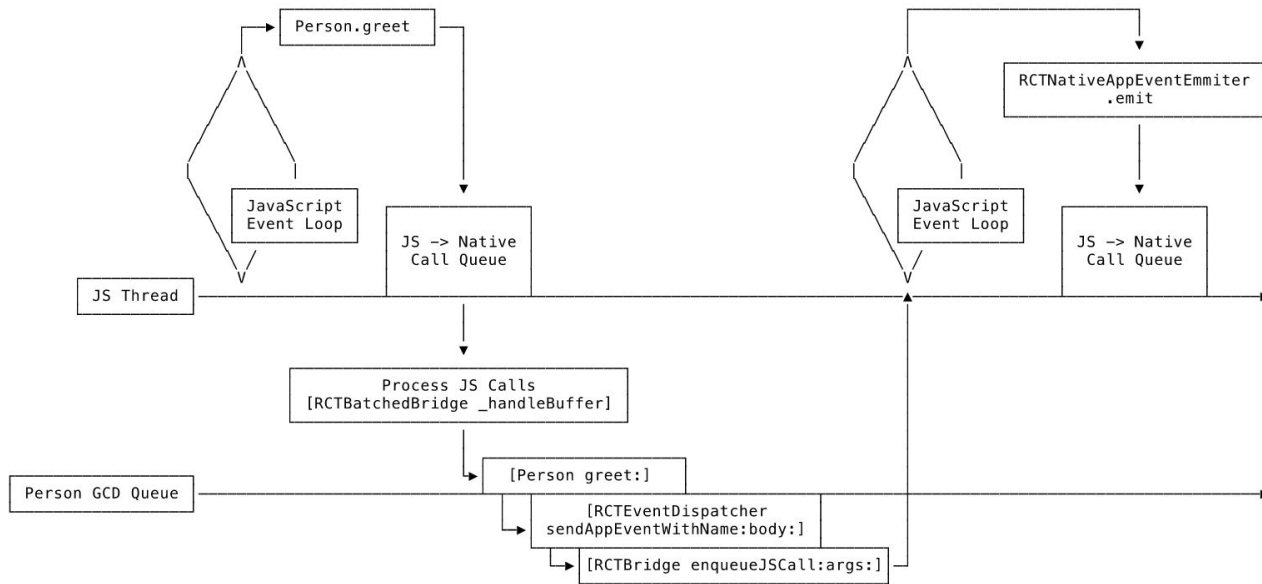
# React Native基本概念

- Bridge
  - Setup



# React Native基本概念

- Bridge
  - Call Cycle





# React Native基本概念

- Performance
  - 60FPS and 16.67ms
  - JavaScript frame rate
  - Main thread (aka UI thread) frame rate
  - [How to improve](#)

# React Native基本概念

- Prop与State
  - [Prop](#)
    - Most components can be customized when they are created, with different parameters. These **creation parameters** are called props.
  - [State](#)
    - For data that is going to **change**, we have to use state. In general, you should initialize state in the constructor, and then call `setState` when you want to change it.

# React Native基本概念

- Style与Flexbox

- [Style](#)

- With React Native, you don't use a special language or syntax for defining styles. You just style your application using JavaScript.

- [Flexbox](#)

- A component can specify the layout of its children using the flexbox algorithm.

# React Native基本概念

- Platform Specific Code

- Learn once, write anywhere
- DrawerLayoutAndroid, DatePickerIOS, TabBarIOS...
  - Not support, hardware back button in Android
  - Not the same
- Organize code for platform
  - Using the Platform module
  - Platform-specific extensions

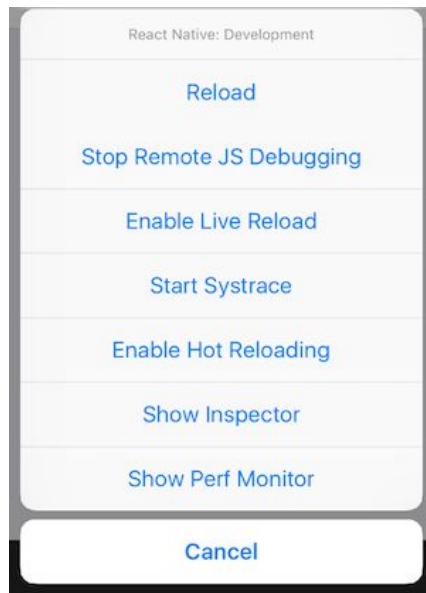
# React Native基本概念

- Debug

- [Debug in React Native](#)
  - Chrome Developer Tools
  - Inspector
  - Performance Monitor
  - Load & Live Reload & Hot Reloading
- [Debug in Android](#)
- [Debug in iOS](#)

- Test

- [Jest](#)
  - Jest is a JavaScript testing framework, used by Facebook to test all JavaScript code including React applications.
  - Unit Test
  - UI Test



# 更多资源

- [React Native Github](#)
  - 源代码学习研究、贡献
  - [问题、bug的社区讨论](#)
  - [PR](#)
- [Release Notes](#)
- [F8 App](#)
- [React Native Playaround](#)
- [StackOverflow](#)
- [UIExplorer](#)

# 相关引用

1. [React Native](#)
2. [React Native中文网](#)
3. [Testing your app with Jest](#)
4. [F8 App](#)
5. [React Native Playaround](#)
6. [StackOverflow](#)
7. [React Native: Bringing modern web techniques to mobile](#)
8. [Bridging In React Native](#)
9. [Dive into React Native Performance](#)