# React Native介绍

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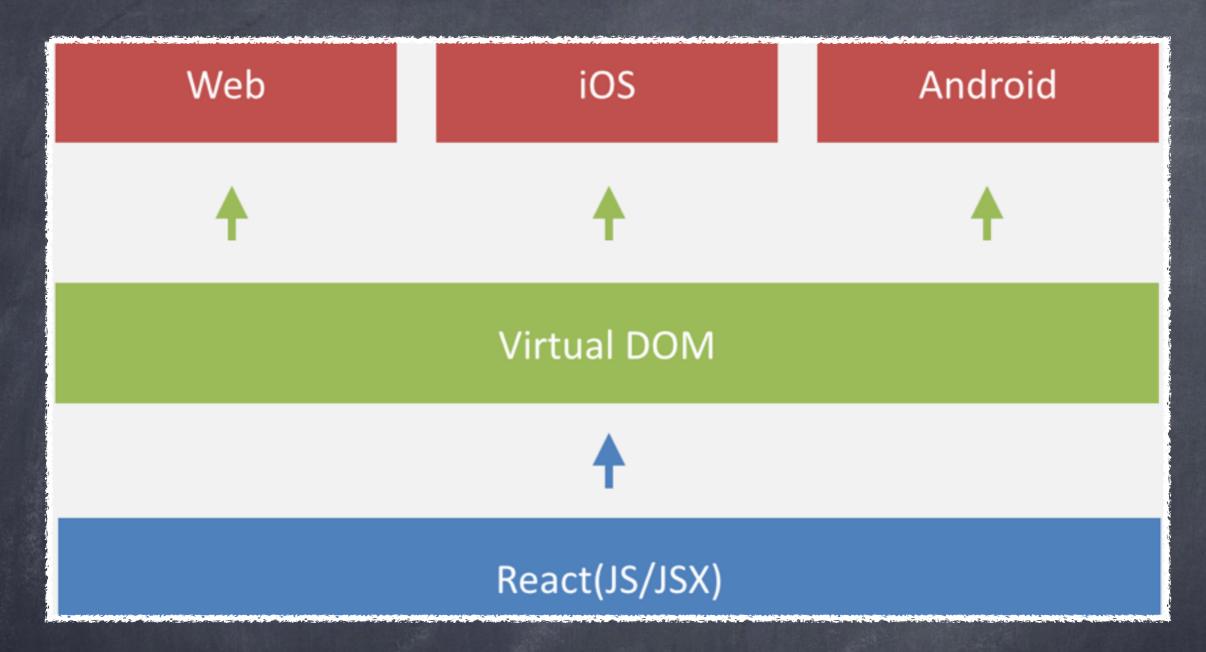
#### React

- 1. FB & Instagram 针对UI的一个JavaScript库(不是框架)
- 2. 专注View(MVC -> View)
- 3. UI: 模块化、可维护性、复用性
- 4. 虚拟DOM(Virtual DOM): 高效、状态局部更新
- 5. 同构(isomorphic): SEO、 复用组件、Client & Server
- 6. JSX(模版语言)
- 7. 活跃社区
- 8. <a href="https://github.com/facebook/react">https://github.com/facebook/react</a>

#### React Native

- 1. JavaScript + React => Hybrid App
- 2. 开发效率与运行效率兼顾
- 3. 基于本地UI控件,无违和感
- 4. 对于Web开发人员具有亲和力
- 5. <a href="https://github.com/facebook/react">https://github.com/facebook/react</a> native

"Learn once, write anywhere"



JSX -> JavaScript -> JavaScriptCore(iOS) -> Objective-C"

安装Xcode (iOS)

mac平台安装xcode 7.0或以上



#### 安装Homebrew (iOS)

安装Homebrew(http://brew.sh/)

```
djh:~ mac$ brew install watchman flow
```

Warning: watchman-3.3.0 already installed

Warning: flow-0.13.1 already installed

#### 安装Node (iOS)

- \$ nvm install 5.0
- \$ nvm use default 5.0
- \$ sudo chown -R \$USER ~/.npm

#### 安裝React Native (iOS)

\$ npm install -g react-native

### 创建TapTime工程

```
$ react-native init TapTime
$ cd TapTime && npm start
$ open ios/TapTime.xcodeproj
```

Build运行项目

运营商 夺

下午5:04



第12	次:	862
第22	次:	601
第32	次:	602
第42	次:	890
第5》	欠:	1076
第6》	欠:	1047
第7》	欠:	1035
第82	次:	831
第9》	欠:	1396

```
djh:TapTime mac$ npm start
> TapTime@0.0.1 start /Users/mac/React/workspace/react-native/TapTime
> react-native start
Looks like you installed react-native globally, maybe you meant react-native-cli?
To fix the issue, run:
npm uninstall -g react-native
npm install -g react-native-cli
djh:TapTime mac$ react-native start
 Running packager on port 8081.
 | Keep this packager running while developing on any JS projects. Feel
 | free to close this tab and run your own packager instance if you
   prefer.
  https://github.com/facebook/react-native
Looking for JS files in
   /Users/mac/React/workspace/react-native/TapTime
[11:26:16] <START> Building Dependency Graph
[11:26:16] <START> Crawling File System
```



Carrier 중

4:33 PM

#### Welcome to React Native!

To get started, edit index.ios.js Press Cmd+R to reload, Cmd+Control+Z for dev menu

```
'use strict';
var React = require('react-native');
var {
 AppRegistry,
 StyleSheet,
  Text,
  View,
} = React;
var TapTime = React.createClass({
  render: function() {
    return (
      <View style={styles.container}>
        <Text style={styles.welcome}>
          Welcome to React Native!
        </Text>
        <Text style={styles.instructions}>
          To get started, edit index.ios.js
        </Text>
        <Text style={styles.instructions}>
          Press Cmd+R to reload,{'\n'}
          Cmd+D or shake for dev menu
        </Text>
      </View>
    );
});
```

```
var styles = StyleSheet.create({
  container: {
    flex: 1,
    justifyContent: 'center',
    alignItems: 'center',
    backgroundColor: '#F5FCFF',
  },
  welcome: {
    fontSize: 20,
    textAlign: 'center',
    margin: 10,
  },
  instructions: {
    textAlign: 'center',
    color: '#333333',
    marginBottom: 5,
 },
AppRegistry.registerComponent('TapTime', () => TapTime);
```

### 引入需要的库(包含第三方npm)

```
/**

* TapTime App

*/

'use strict';

//引入需要的库

import React from 'react-native';

//import parseMs from 'parse-ms';

import {TimeList} from './time_list';
```

#### 定义需要用到的变量

```
//定义使用到的变量或者常量
let {
    AppRegistry,
    StyleSheet,
    View,
    Component,
    TouchableHighlight,
    Text,
} = React;
// => 等价
//let AppRegistry = React.AppRegistry;
//...
```

### 定义样式

```
let styles = StyleSheet.create({
   container: {
      flex: 1
   },
   topView: {
      flex: 1,
      justifyContent: 'center',
      alignItems: 'center'
   },
   bottomView: {
      flex: 1
   },
   timeTxt: {
      justifyContent: 'center',
      alignItems: 'center',
      fontSize: 20
    },
   touchBtn: {
      borderWidth: 1,
     height: 100,
     width: 100,
      borderRadius: 50,
     justifyContent: 'center',
      alignItems: 'center'
```

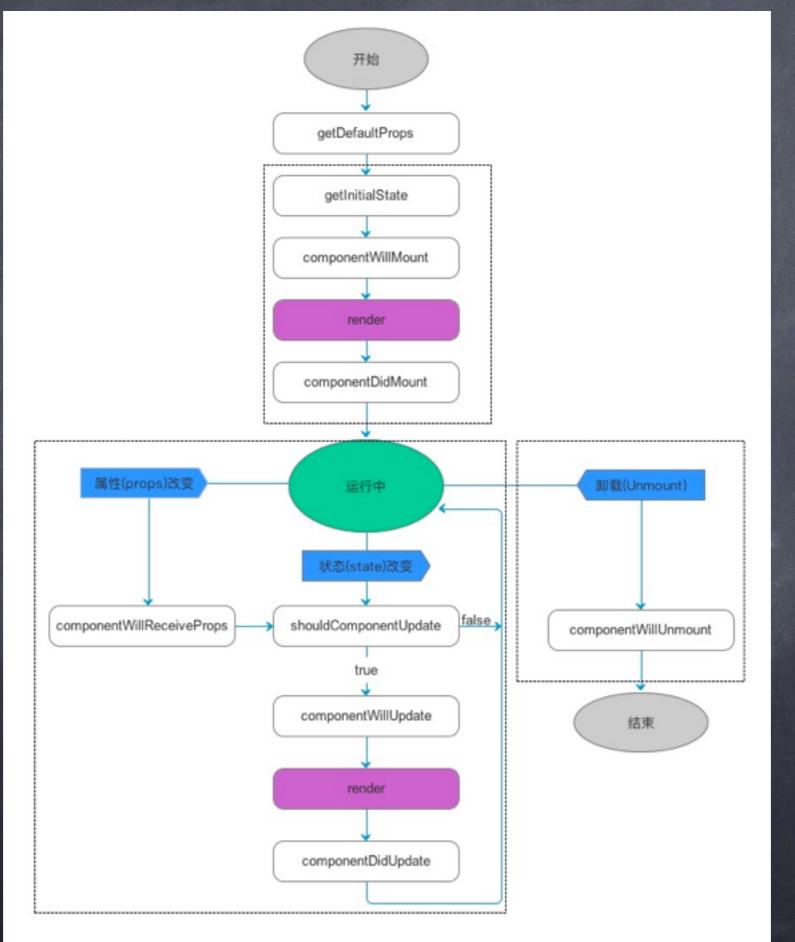
#### 定义组件类

```
//定义组件类
let TapTime = React.createClass({
    getInitialState: function() {
        return {
          running: false,
          currTime: null,
          timeRecords: [],
          tapTimes: 0
        };
    },
    render: function() {
      return (
          <View style={styles.container}>
              <View style={styles.topView}>
                  <View>
                      <Text style={styles.timeTxt}>{this.state.currTime}</Text>
                  </View>
                  <View>
                      <TouchableHighlight onPress={this.handleTouchBtn.bind(this)} underlayColor='#51b351' s1
                          <Text style={styles.btnTxt}>{this.getBtnTxt()}</Text>
                      </TouchableHighlight>
                  </View>
              </View>
              <View style={styles.bottomView}>
                  <TimeList timeRecords={this.state.timeRecords}/>
              </View>
          </View>
      ١.
```

## 导出组件类

export {TapTime};

# 组件生命周期



#### Flex布局

控制子节点,使其根据设备, 设置布局方向最大化 填充可用空间 https://css-tricks.com/snippets/css/aguide-to-flexbox/ flex
flexDirection
flexWrap
justifyContent
alignItems -> Container
alignSelf -> Children

React Native flexbox与CSS flexbox有差异



#### Iwansbrough commented on 13 Apr

It appears flex: 1 offers a very different behaviour than what's offered by flexDirection: 'row' + flexWrap: 'wrap' . This bug has already been resolved upstream in https://github.com/facebook/css-layout/blob/master/src/Layout.js -- the React Native team just has to pull down those changes.

- [3] Iwansbrough referenced this issue from a commit in Iwansbrough/react-native-markdown on 13 Apr
  - -- 🔝 Actually resolves facebook/react-native#824 however still waiting on ... …

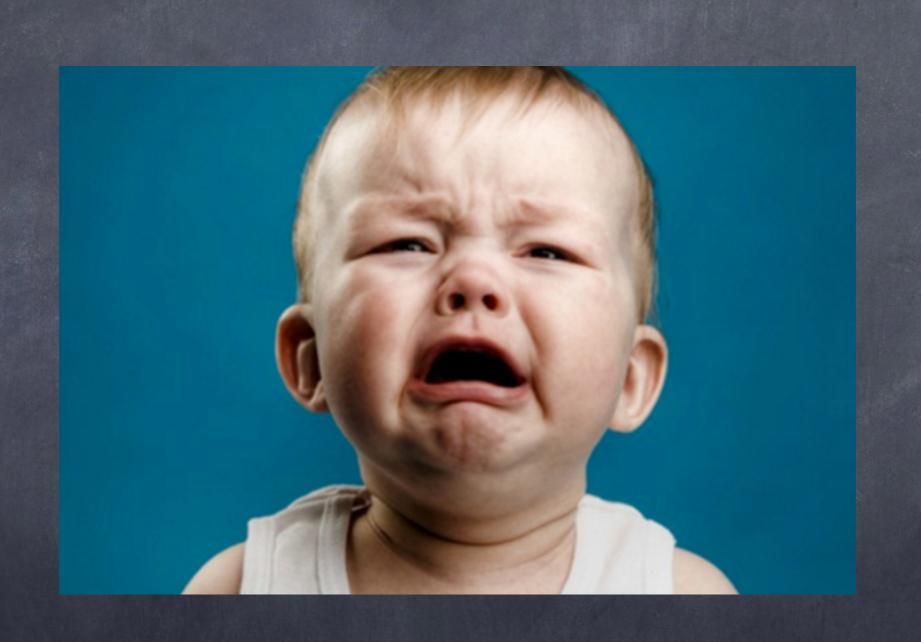
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### React Native CSS Layout 比Web CSS样式少

https://github.com/facebook/css-layout

Animation

padding -> px -> No! -> number(pt)



# Thank U

https://github.com/ele828/react-native-guide