



React Native

TONG ZHOU

React Native

# What Is React Native

- ▶ React Native is a platform for us to build native mobile apps(Android, IOS) using only **JavaScript** that allows us to use **React** to build components.
- ▶ Real Mobile Application: native mobile UI



# Why React Native

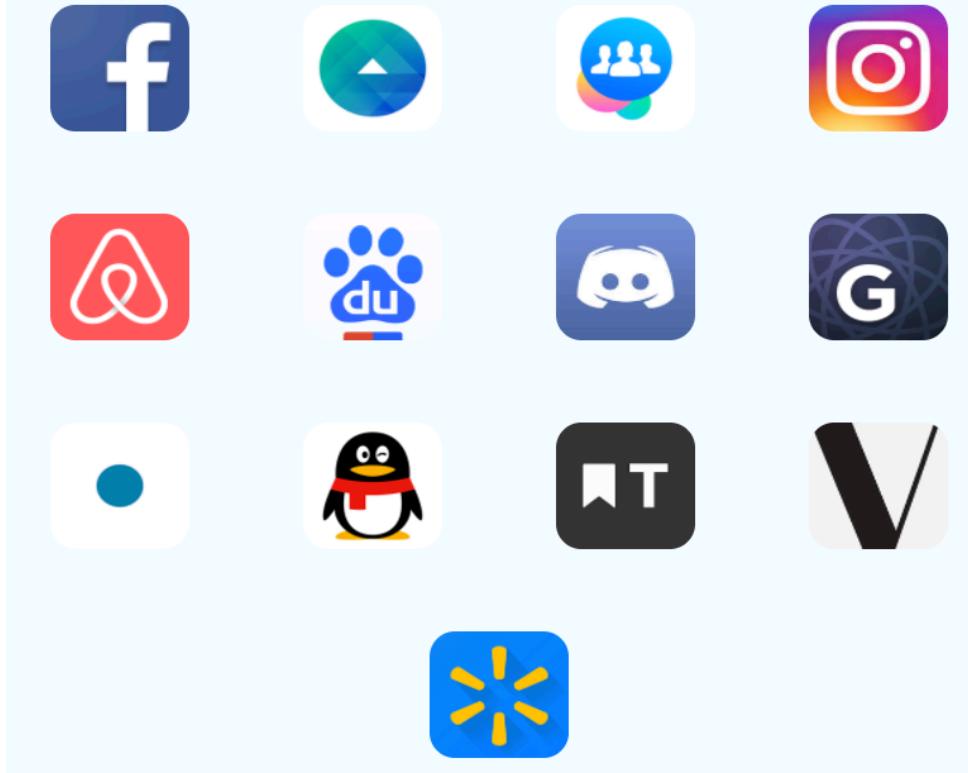
## Approach of Mobile App Dev.

Approach	Platform	Logic	UI	UX	Dev Time*
Native	Object C, Swift (iOS), Java (Android)	Native	Native	Smooth	6-24 weeks
HTML5 Hybrid	PhoneGap, Cordova, Ionic	JS	HTML, CSS	Laggy	2-8 weeks
Native Hybrid	React Native, NativeScript	JS	Native	Smooth	2-8 weeks

\* 20-30 screens mobile apps approximated based on instructor experiences

- ▶ Native Experience
- ▶ One language rules them all
- ▶ Fast & Great Development Experience
- ▶ Bridge with Native Code

Goal: Learn once, write anywhere



Who's using  
React  
Native

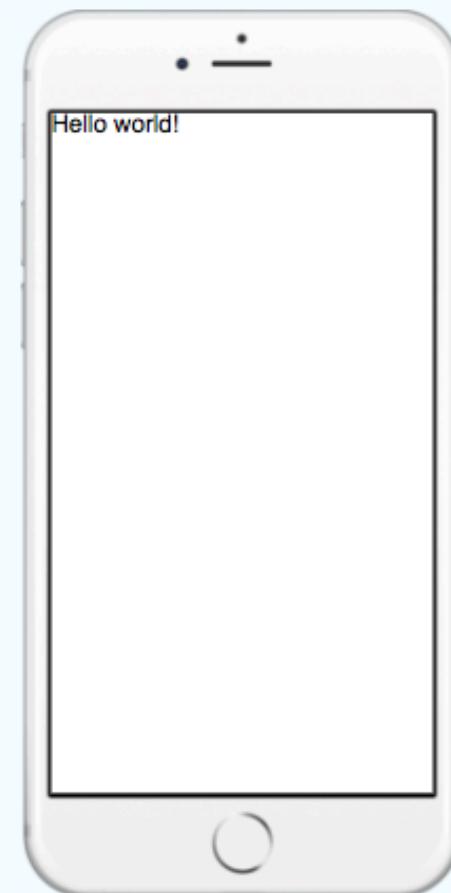
# How Does React-Native Work

- ▶ We know about React
- ▶ JSX, components, state and props

```
1 import React, { Component } from 'react';
2 import { AppRegistry, Text } from 'react-native';
3
4 class HelloWorldApp extends Component {
5   render() {
6     return (
7       <Text>Hello world!</Text>
8     );
9   }
10 }
11
12 AppRegistry.registerComponent('HelloWorldApp', () => HelloWorldApp);
```

No Errors

Show Details



# Style

- ▶ in Web, we have CSS
- ▶ In React Native, we use Flexbox Layout Model.
- ▶ Use JS to define a style prop.

```
4 class LotsOfStyles extends Component {  
5   render() {  
6     return (  
7       <View>  
8         <Text style={styles.red}>just red</Text>  
9         <Text style={styles.bigblue}>just bigblue</Text>  
10        <Text style={[styles.bigblue, styles.red]}>bigblue, then red</Text>  
11        <Text style={[styles.red, styles.bigblue]}>red, then bigblue</Text>  
12      </View>  
13    );  
14  }  
15}  
16  
17 const styles = StyleSheet.create({  
18   bigblue: {  
19     color: 'blue',  
20     fontWeight: 'bold',  
21     fontSize: 30,  
22   },
```

No Errors

Show Details



# Summary

- ▶ What's is React
- ▶ Why React
- ▶ The basics of React