React Native Explore

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Background-React

- ◆ React
 - JvaScript library for building user interfaces.
 - First Release 2013.5.30
 - Github stars 30835
 - Features
 - Just the UI
 - Component Combination
 - Virtual Dom
 - Data Flow

Background-React

React Example

```
var HelloMessage = React.createClass({
  render: function() {
    return <div>Hello (this.props.name)</div>;
  }
));

ReactDOM.render(
  <HelloMessage name="John" />,
    document.getElementById('container')
);
```

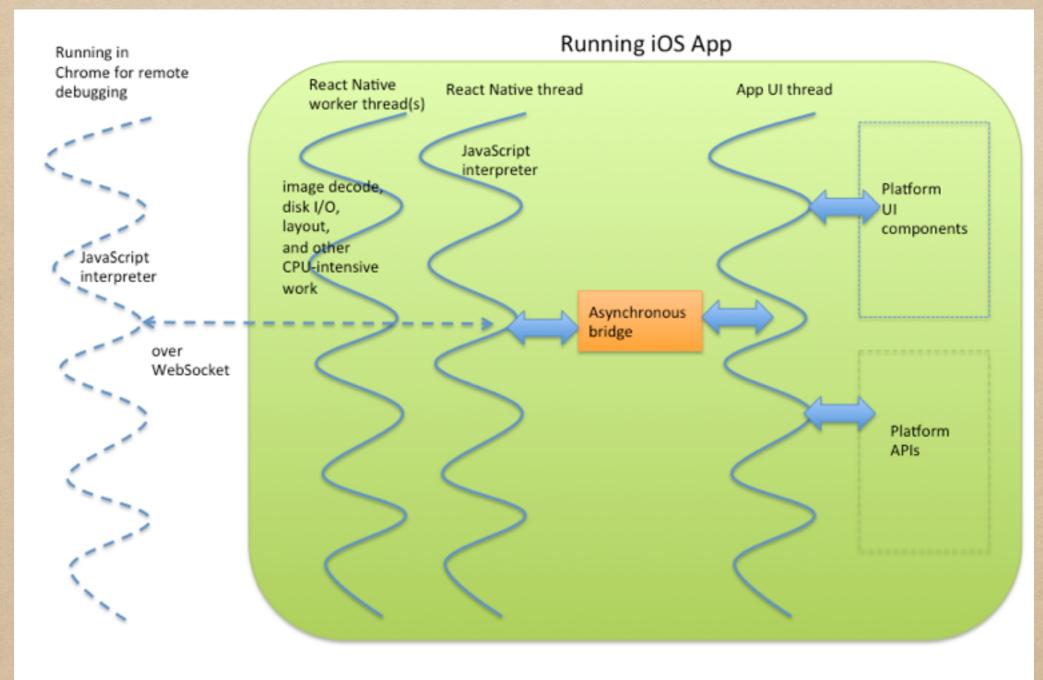
Background-React Native

- React Native
 - Use is build native mobile app
 - First Relase 2015.3.27 iOS support
 - 2015.10 android support
 - Github starts 22012
 - Features
 - based on React
 - map to native UI
 - learn once, write anywhere

Framework Comparison

	Native App	React Native	PhoneGap/ Ionic
performance	very fast	fast	slow
dev efficiency	very slow	fast	very fast
Ul experience	natíve	natíve	not native

React Native Runtime Architecture



React Native-Components

- ActivityIndicatorIOS
- DatePickerIOS
- DrawerLayoutAndroid
- Image
- ListView
- MapView
- Navigator
- Modal
- NavigatorIOS
- PickerIOS
- ProgressBarAndroid
- ◆ ProgressViewIOS
- ScrollView

- ◆ SegmentedControllOS
- SliderIOS
- · SwitchAndroid
- SwitchIOS
- TabBarlOS
- TabBarlOS.Item
- ◆ Text
- TextInput
- ToolbarAndroid
- TouchableHighlight
- ◆ TouchableNativeFeedback
- TouchableOpacity
- TouchableWithoutFeedback

React Native-API

- ActionSheetIOS
- AlertIOS
- Animated
- AppRegistry
- AppStatelOS
- AsyncStorage
- BackAndroid
- ◆ CameraRoll
- Dimensions
- InteractionManager
- LayoutAnimation

- LinkinglOS
- NativeMethodsMixin
- NetInfo
- PanResponder
- PixelRatio
- PushNotificationIOS
- StatusBarlOS
- StyleSheet
- ToastAndroid
- VibrationIOS

React Native-Polyfills

- Flexbox
- Geolocation
- Network
- Timers

Risks

- android lack WebView
 - in dev plan
- extend ui components && native modules
 - · should be easy according to doc
 - need more research

Live Example

- Demonstrate
 - tabBarlOS component
 - flexbox layout
 - WebView component
 - d3.js and highstock.js in WebView

TO Be Done

- how to pass data back and forth between
 WebView and js environment
- ◆ how to use socket.io in React Native

Resources

- React
 - React on Github
 - React home page
- React Native
 - React Native on Github
 - React Native home page
 - React Native: Into a new world of rapid iOS development

Q&A?