React Native

React Native

1. What Is React Native

2. How Does React Native Work

3.Creating Components in React Native

4. Building Your First Application

What Is React Native

发展历程

2015.1.28: 1st ReactJS大会发布react native for IOS

2015 .9.15: 发布react native for Android

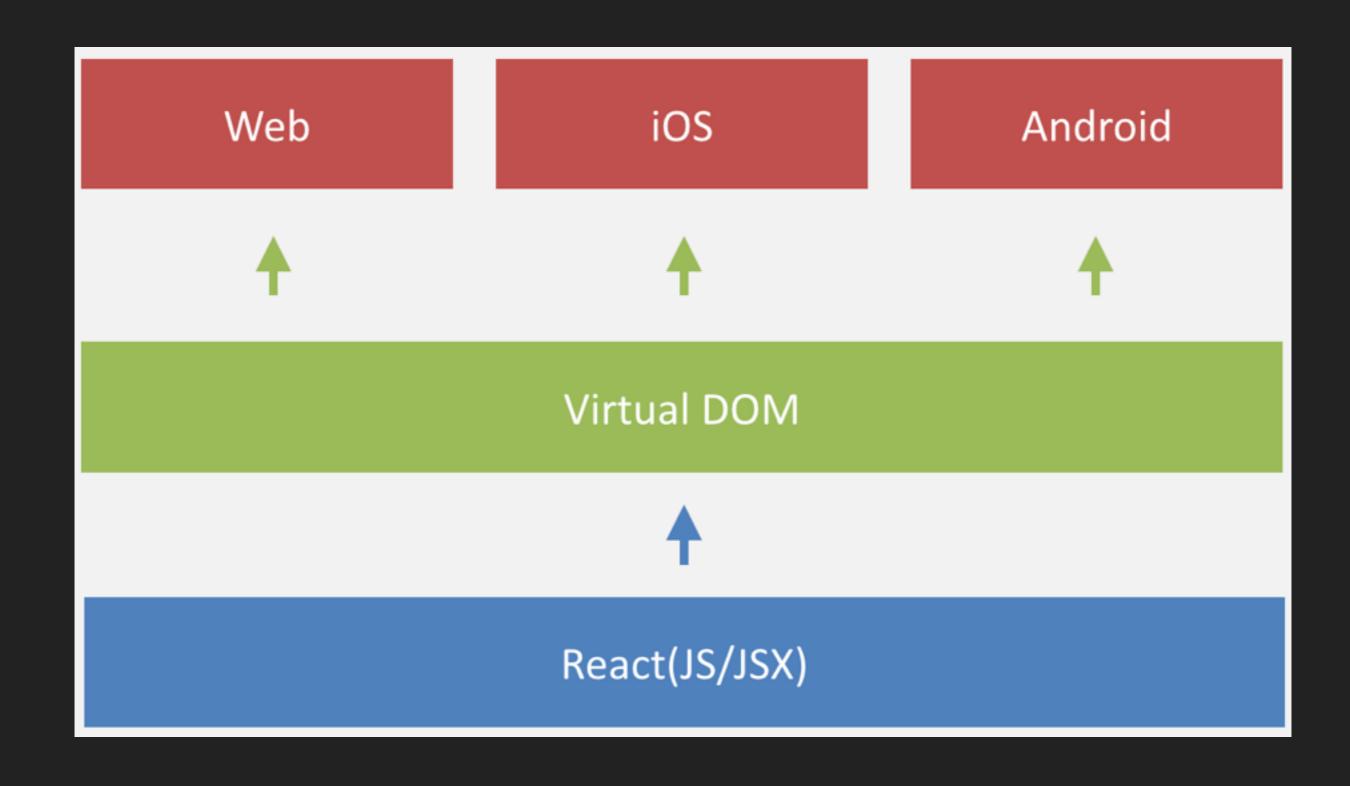
2016 .2.22: 2nd ReactJS大会发布围绕react native的技术生态

2016 .5.05: React Native 0.26 正式版发布

Star: 32297

Fork: 6555

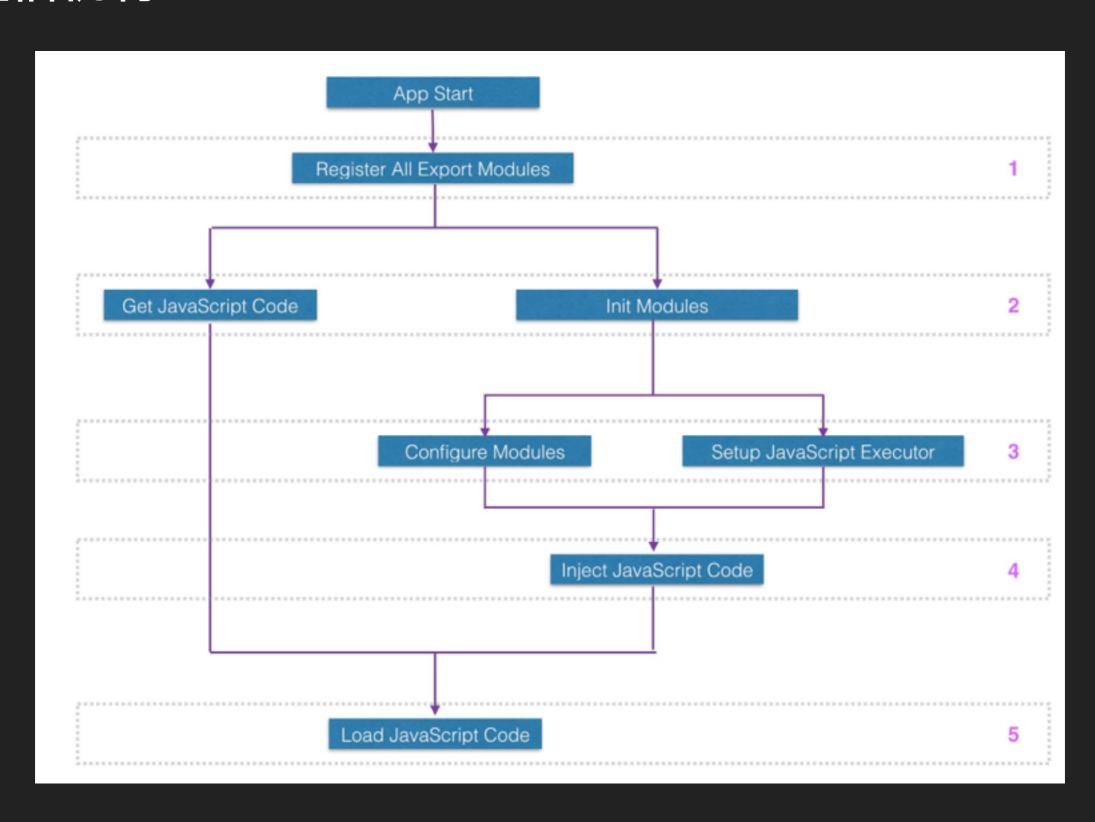
Learn Once, Write Everywhere



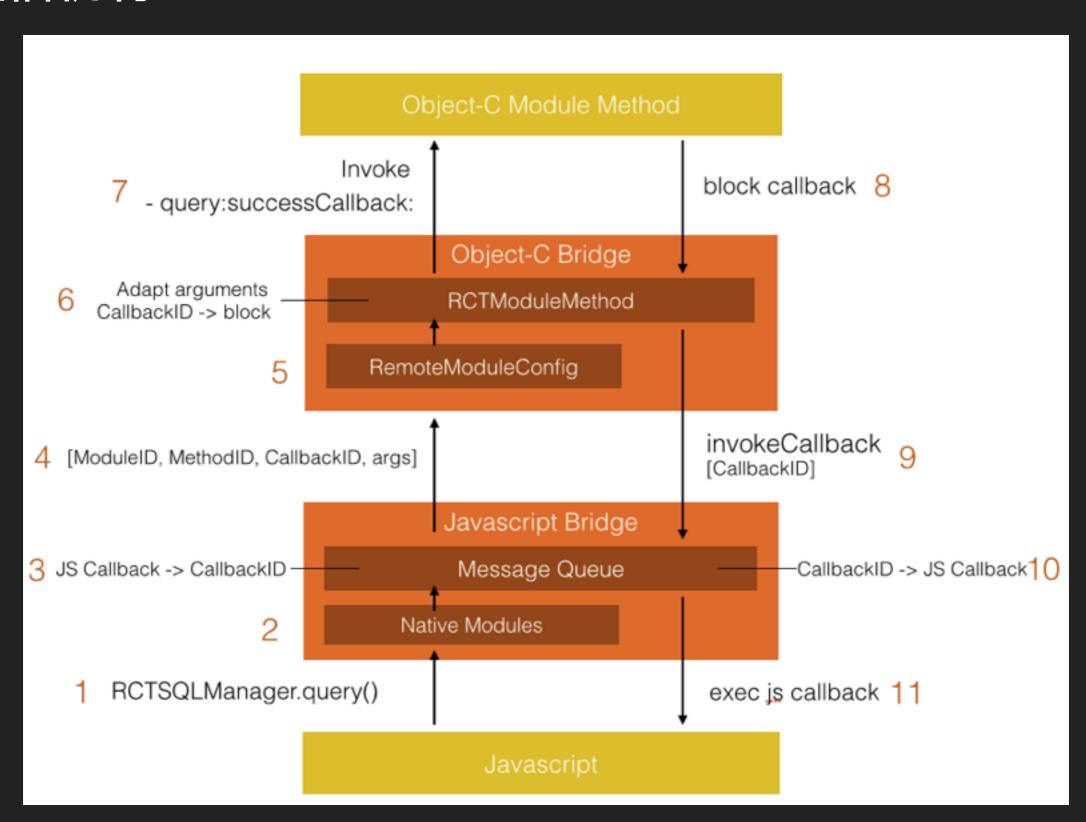
Demo

How Does React Native Work

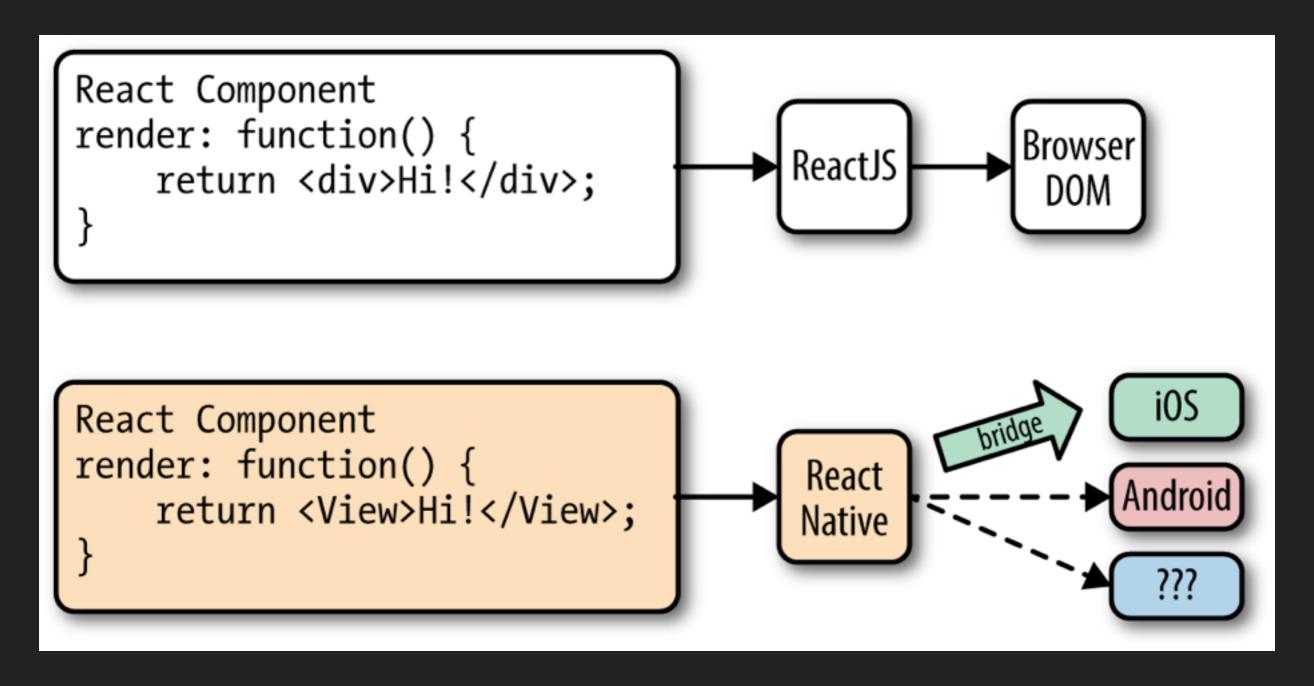
通信机制



通信机制



渲染机制



Creating Components in React Native

Working with Views

React	React Native
<div></div>	<view></view>
	<text></text>
, 	<listview></listview>
	<image/>

Creating Components in RN

Working with Views

```
<View style={styles.container}>
18
            <Text style={styles.welcome}>
              Welcome to React Native!
            </Text>
            <Text style={styles.instructions}>
              To get started, edit index.android.js
            </Text>
            <Text style={styles.instructions}>
              Shake or press menu button for dev menu
            </Text>
          </View>
```

Using JSX

```
import React, {
      AppRegistry,
    Component,
    StyleSheet,
   Text,
     View
    } from 'react-native';
    class xrlibrary extends Component {
      render() {
16 return (
         <View style={styles.container}>
         </View>
        );
    const styles = StyleSheet.create({
    });
    AppRegistry.registerComponent('xrlibrary', () => xrlibrary);
```

Styling Native Components

```
const 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,
},
});
```

Creating Components in RN

Host Plantform APIs

Native Modules for iOS

Including a Third-Party Component

Fetch

```
fetchData() {
  var id = this.props.id;
  var url = Service.bookdetail + '/' + id;
  fetch(url)
    .then((response) => response.json())
    .then((responseData) => {
      console.log(responseData);
      this.setState({
        data: responseData
     });
   })
    .catch((error) => {
      console.warn(error);
   });
}
```

Fetch

```
fetch(path, {
        method: 'POST',
        headers: {
          "Content-Type": "application/x-www-form-urlencoded"
        },
        body: `user_name=${email}&user_pwd=${password}`
      })
        .then((response) => response.json())
        .then((responseText) => {
           console.log(responseText);
        })
        .catch((error) => {
           console.warn(error);
         });
42
      }
```

Fetch

```
fetchData: function (){
        fetch(path, {
          method: 'POST',
          headers: {
             'Accept': 'application/json',
             'Content-Type': 'application/json'
          },
          body: JSON.stringify(data)
        })
           .then((response) => response.json())
           .then((responseText) => {
              console.log(responseText);
          })
           .catch((error) => {
              console.warn(error);
           });
45
```

Setting Up Your Environment

Node.js : brew install node

nvm: nvm install node && nvm alias default node

watchman: brew install watchman

Installing React Native

- \$ nam install -g react-native-cli
- \$ react-native init YourFirstApplication

Creating a New Application

```
android
    app
    build.gradle
    gradle
    gradle.properties
    gradlew
  gradlew.bat
    settings.gradle
index.android.js
index.ios.js
ios
   FirstProject

    FirstProject.xcodeproj

  FirstProjectTests
    main.jsbundle
node_modules
  react-native
package.json
```

Debugging and Developer Tools

