

Introduction

1. What is React Native?

React.js

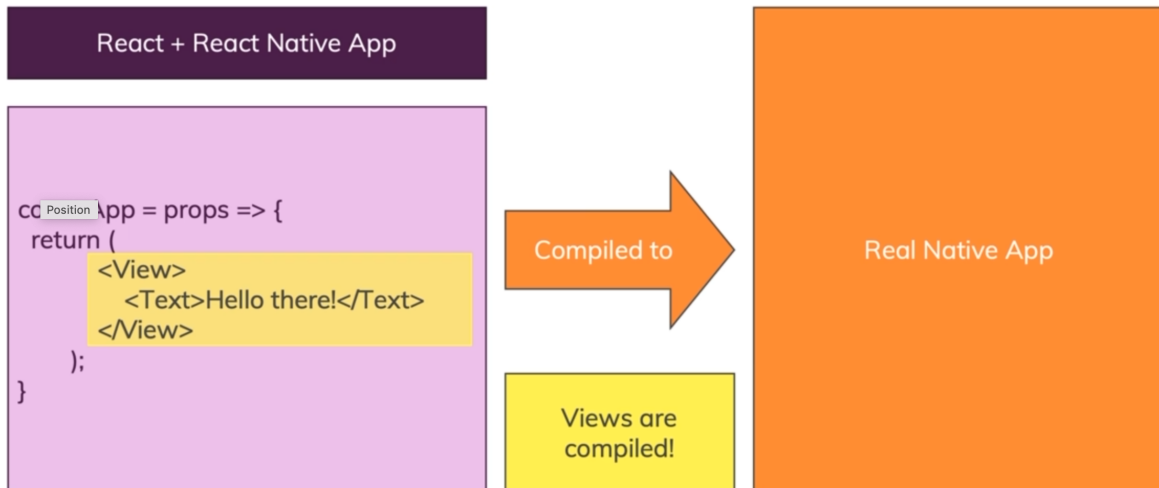
- A JavaScript Library for building User Interface
- Typically used for web development
- ReactDOM.render() adds the web support
- React itself is Platform agnostic

React Native

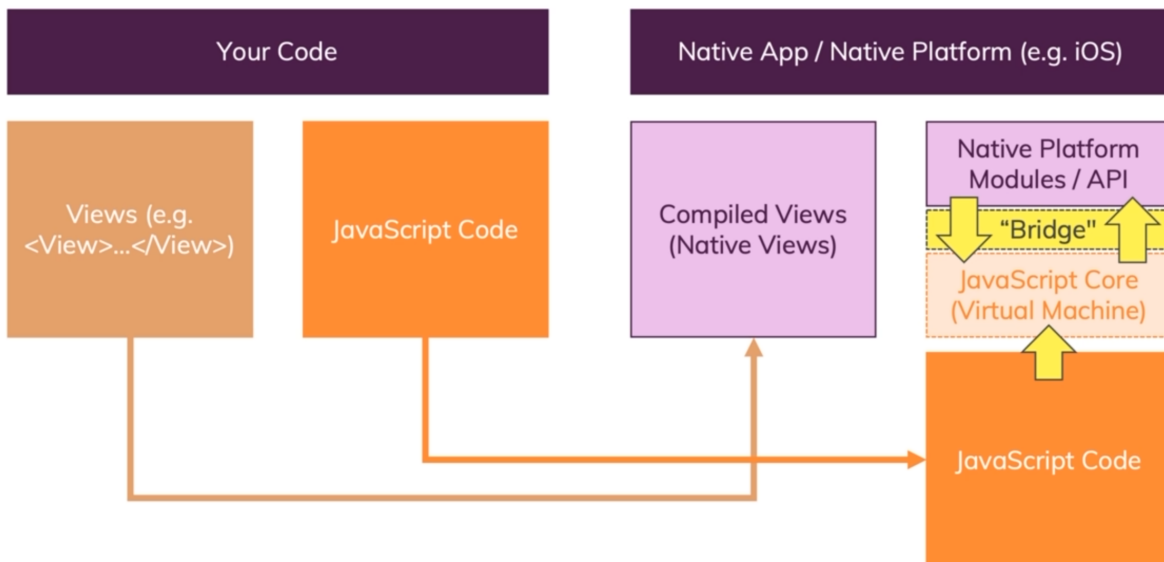
- A collection of "special" React components
- Components compiled to Native Widgets
- Native Platform APIs exposed to JavaScript
- Connects JavaScript and Native Platform



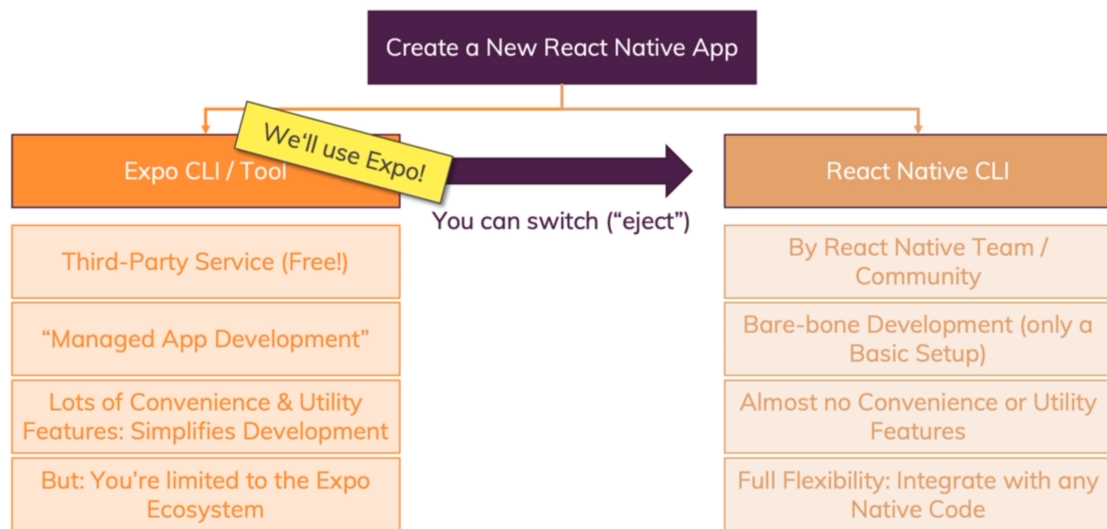
2. How react native work?



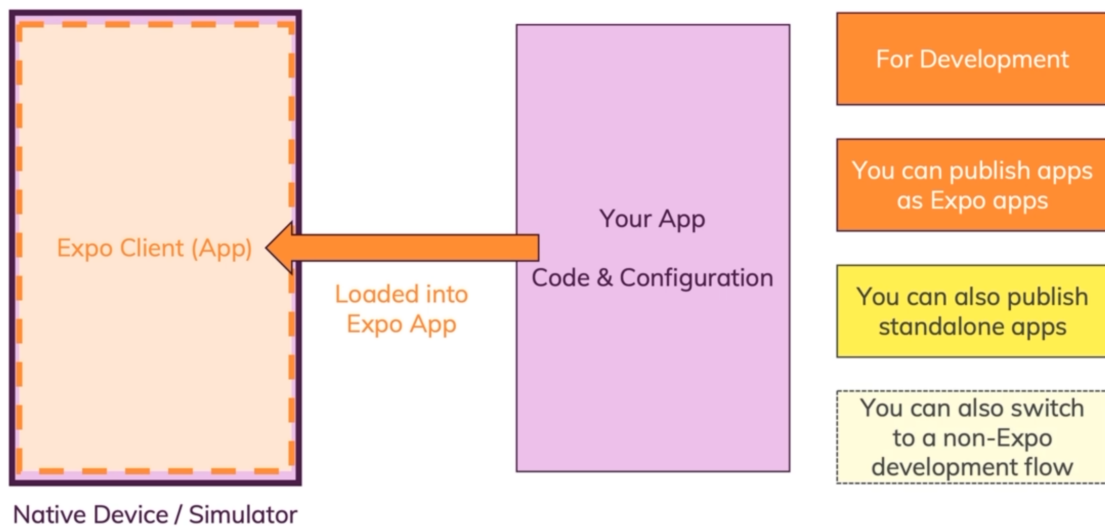
React for the Web	Native Component (Android)	Native Component (iOS)	React Native
<div>	android.view	UIView	<View>
<input>	EditText	UITextField	<TextInput>
...



3. Expo VS React Native CLI



4. How to Expo Work



5. Creating Our First React Native App

a. Install Node.js

<https://nodejs.org/en/>

b. Install the Expo CLI

```
sudo npm install expo-cli --global
```

For window, we don't need **sudo**

```

> fsevents@0.12.13 install /usr/local/lib/node_modules/expo-cli/node_modules/webpack-dev-server/node_modules/fsevents
> node install.js

gyp WARN EACCES current user ("nobody") does not have permission to access the dev dir "/Users/arkarhtetmyint/Library/Caches/node-gyp/14.17.4"
gyp WARN EACCES attempting to reinstall using temporary dev dir "/usr/local/lib/node_modules/expo-cli/node_modules/webpack-dev-server/node_modules/fsevents/.node-gyp"
gyp WARN install got an error, rolling back install
gyp WARN install got an error, rolling back install
gyp ERR! configure error
gyp ERR! stack Error: EACCES: permission denied, mkdir '/usr/local/lib/node_modules/expo-cli/node_modules/webpack-dev-server/node_modules/fsevents/.node-gyp'
gyp ERR! System Darwin 20.1.0
gyp ERR! command "/usr/local/bin/node" "/usr/local/lib/node_modules/npm/node_modules/node-gyp/bin/node-gyp.js" "rebuild"
gyp ERR! cwd /usr/local/lib/node_modules/expo-cli/node_modules/webpack-dev-server/node_modules/fsevents
gyp ERR! node -v v14.17.4
gyp ERR! node-gyp -v v5.1.0
gyp ERR! not ok

> core-js@3.16.4 postinstall /usr/local/lib/node_modules/expo-cli/node_modules/core-js
> node -e "try(require('./postinstall'))catch(e){}"

Thank you for using core-js ( https://github.com/zloirock/core-js ) for polyfilling JavaScript standard library!

The project needs your help! Please consider supporting of core-js:
> https://opencollective.com/core-js
> https://patreon.com/zloirock
> https://paypal.me/zloirock
> bitcoin: bc1qlea7544qtsmj2rayg0lthvza9fau63ux0fstcz

**the author of core-js ( https://github.com/zloirock ) is looking for a good job ->

+ expo-cli@4.11.0
added 1709 packages from 814 contributors in 278.454s
arkarhtetmyint@ars-macbook-pro ~ %
arkarhtetmyint@ars-macbook-pro ~ %

```

c. Create your first App

```
expo init rn-first app
```

d. Run with expo CLI

```
npm run web
```

e. Working with our first app

1. Install the visualstudio code

<https://code.visualstudio.com/download>

2. Install Extension

- Material Icon Theme

```

import { StatusBar } from 'expo-status-bar';
import React, {useState} from 'react';
import { StyleSheet, Text, View ,Button} from 'react-native';

export default function App() {
  const [outputText,setOutputText] = useState('Open up App.js to start working on your app!')
  return (
    <View style={styles.container}>
      <Text>{outputText}</Text>
      <Button title="Change Text" onPress={() => setOutputText('The Text Change')}></Button>
      <StatusBar style="auto" />
    </View>
  );
}

const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: 'white',
    alignItems: 'center',
    justifyContent: 'center',
  },
});

```

