# **React Native**

Kyeongwon Lee WEBD3000 - Gap Analysis

# What Is React Native?

## Concept

- JavaScript framework
- For writing real, natively rendering mobile applications
- For iOS and Android
- Based on React, Facebook's JS library

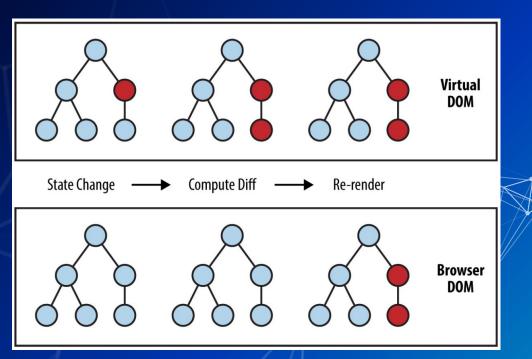
Native rendering APIs in Objective-C (for iOS) or Java (for Android)

## Advantages

- Renders using its host platform's standard rendering APIs
- Existing methods using JS, HTML, CSS
  - Performance drawbacks
  - Usually don't have access to the host platform's native UI elements
- React Native translates the markup to real, native UI elements
  - Rather than using HTML/CSS markup

# 2. Working with React Native

# Virtual DOM, revisited



# Rendering to different targets

```
React Component
render: function() {
                                                  Browser
                                      ReactJS
    return <div>Hi!</div>;
                                                   DOM
React Component
render: function() {
                                      React
    return <View>Hi!</View>;
                                      Native
```

# **Working with Views**

React	React Native	
<div></div>	<view></view>	
<span></span>	<text></text>	
<li>, <ul></ul></li>	<listview></listview>	
<img/>	<image/>	

```
<DatePickerIOS
  date={this.state.date}
  mode="date"
  timeZoneOffsetInMinutes={this.state.timeZoneOffsetInHours * 60}
/>
```

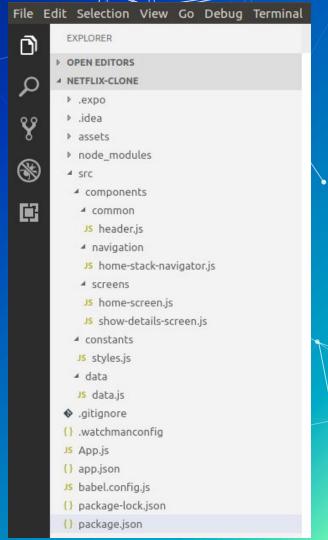
January	15	2012	
February	16	2013	
March	17	2014	
April	18	2015	
May	19	2016	
June	20	2017	
July	21	2018	



### **Setting Up**

- http://expo.io/tools
- \$ npm install expo-cli --global
- \$ expo init my-project
- \$ cd my-project
- \$ expo start

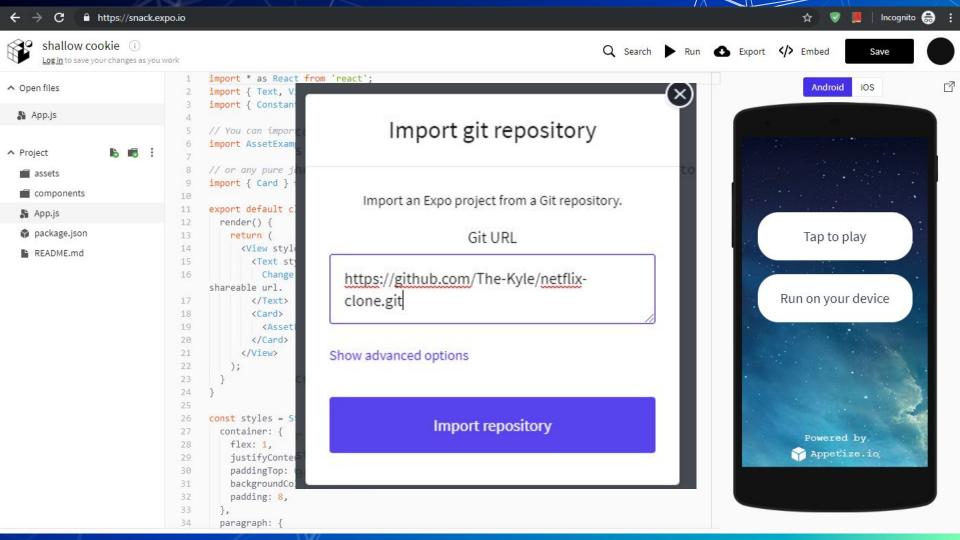
Alternatively, http://snack.expo.io



#### Import { ... } from 'react-native';

- ScrollView
- StatusBar

- TouchableWithoutFeedback
- TouchableOpacity



#### **Expo Snack**

Powered by appetize.io



# Demo

snack.expo.io

https://github.com/The-Kyle/netflix-clone.git

#### References

- Learning React Native, Bonnie Eisenmann, O'Reilly Media, 2016.
- Getting Started with Expo React Native and Styled Components using a Netflix Clone example, JM Myers