

An introduction to...

# React Native

(RN)



# Agenda

What is React Native?

How is it different from React?

What is Expo? And how is it used?

When and why should I use Expo?

Code walk through from my first ever experience...



# What is React Native?

- A framework that builds a hierarchy of UI components to build JS code
- Has set of components for both iOS and Android platforms to build a mobile app which has a native look and feel to it
- Been around for about 2 years
- Developed by Facebook
- UI focused which make the app load quickly and give smoother experience
- One set of JS code allowing you to make use of native mobile apps therefore can work faster not having to learn a platform specific Java



# How is React Native different from React?

## -Setup/Bundling:

No need to choose a bundler (like webpack) or work out what bundling modules you need as - React Native comes with everything you need and most likely won't require anything further. Setup is one line in your terminal and you're good to go

## -DOM/Styling:

Does not use HTML to render App.jsx instead provides components that work in a similar way. RN components map real native UI components which get rendered on the app. Has similar tags to HTML like View = div tag and Text = p tag



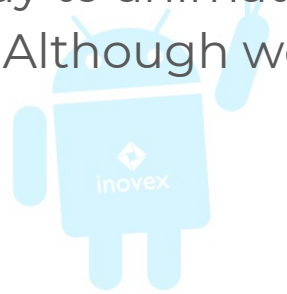
# How is React Native different from React?

## -Animation/Gestures:

Can not use CSS animations and will need to learn a new way to animate different components by using the provided Animated API. Although we have not learnt much about animation yet at this stage

## -Navigating Pages:

Does not use react-router but uses Navigator component provided by RN



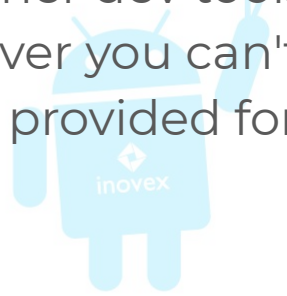
# How is React Native different from React?

## -Dev tools:

You get dev tool out of the box but have the ability to use other dev tools from react like Chrome Dev Tools or Redux Dev Tools. However you can't inspect the DOM like you would normally and the Dev tools provided for native may not be as good

## -Publishing:

Will need to learn how Xcode(iOS) and Android Studio work in order to ensure all is set up correctly before deploying



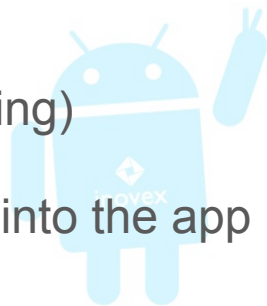
# What is Expo? (open source)

- Framework that is used to build React Native apps. Contains a bundle of tools and services making it easier to build an app
- Does not have to be used, you can use plain React Native



# Why should I use Expo? (open source)

- Allows you to build and deploy to both iOS and Android
- With Expo no need to know native mobile coding
- Means you don't need to use Xcode or Android Studio (for publishing)
- Publish OTA (over the air) updates instantly without needing to go into the app store
- In-build access to native API's





# Code Walkthrough Setup

Development Environment

File Setup

Starting Expo Server to Serve our App

Starting iOS Simulator or Use your phone

View, Text, Image, Button walkthrough

