# Hello React Native

https://facebook.github.io/react-native/

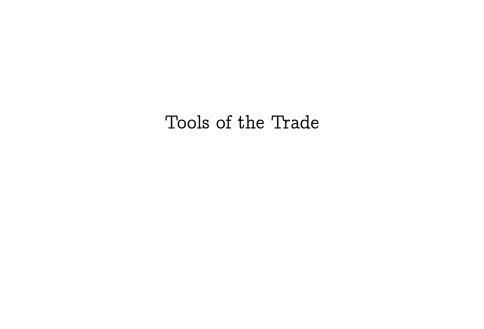
Aswin Mohan

#### React Native

Build native mobile apps using JavaScript and React, using a single codebase.

# Prerequisites

- node -v
- expo --version



### Javascript

- High level, intrepeted programming language
- Cross Platform to the core
- Powers the modern and antique web
- Pretty dumb though, so we add more features on top of the language

#### Node

- JS could only run in the browser once, node changed that.
- Gives access to a whole lot of packages created by the community.

#### React

- Facebook needed thier website to be fast
- React is fast
- Virtual Dom!

#### React Native

- React on Mobile
- Growing ecosystem
- Way simpler than Native development
- Access to entire JS ecosystem

### Expo

- Built on top of React Native
- Makes RN development so much simpler

#### Hello React Native

• Build a RN app to display Hello React Native

#### Exercise

• Modify the RN app to display Hello Your Name

# Color Changing Christmas

• Build a React Native App to change the color of the square box when tapped

#### **JSX**

- Like HTML but compiles down to JS
- Syntax sugar for easier development

#### Style

- Each element has it's own styles
- RN uses units not pixels
- Layout with Flexbox (will explain later)

#### Exercise

- Add a button to change the color
- Get the color from the user input
- Increase the font size (ask google for help)

### Calculate like a Calculator

• Build an RN Calculator

### Layout with Flexbox

- Easiest layout paradigm on the planet
- External stylesheet example
- Layout Exercises
- Create a three box layout and play around with it on screen

# Composition and Code Splitting

- Split code into modules for reuse
- Class based components and Functional components

### Props

- Pass data to those components
- Component Exercises
  - Refactor both codebases to use Components

# Stateful and Stateless Widgets

- Update on state change
- Core of React