

# Hello React Native

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

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# React Native

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

## Prerequisites

- `node -v`
- `expo --version`

## Tools of the Trade

# Javascript

- High level, interpreted 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