Code Fellows

Class 30
React Native, Drag and Drop and DSA Review

seattle-javascript-401n14

Career Coaching

Monday JAN 27 2020 CCW #1	Tuesday JAN 28 2020 Class 29	Wednesday JAN 29 2020 Optional Virtual Lab 29	Thursday JAN 30 2020 CCW #1	Friday JAN 31 2020	Saturday FEB 01 2020 Class 30 + Interview Prep	Sunday FEB 02 2020
Monday FEB 03 2020 Co-working	Tuesday FEB 04 2020 Virtual Class 31	Wednesday FEB 05 2020 CCW#2	Thursday FEB 06 2020 CCW #2 (Con't)	Friday FEB 07 2020	Saturday FEB 08 2020 Class 32 + Interview Prep + CCW #3	Sunday FEB 09 2020
Monday FEB 10 2020 Co-working	Tuesday FEB 11 2020 Finals	Wednesday FEB 12 2020 Finals	Thursday FEB 13 2020 Co-working	Friday FEB 14 2020	Saturday FEB 15 2020 Finals	Sunday FEB 16 2020
Monday FEB 17 2020 Co-working	Tuesday FEB 18 2020 Finals	Wednesday FEB 19 2020 Finals	Thursday FEB 20 2020 Co-working	Friday FEB 21 2020	Saturday FEB 22 2020 Final Presentation	Sunday FEB 23 2020

ToDo Application

- We've made a (mostly-complete) ToDo application for web
- Let's now learn React Native
    - Get our web app to be a phone app
    - Add phone-specific features
    - Implement drag-and-drop

Why Change Things?

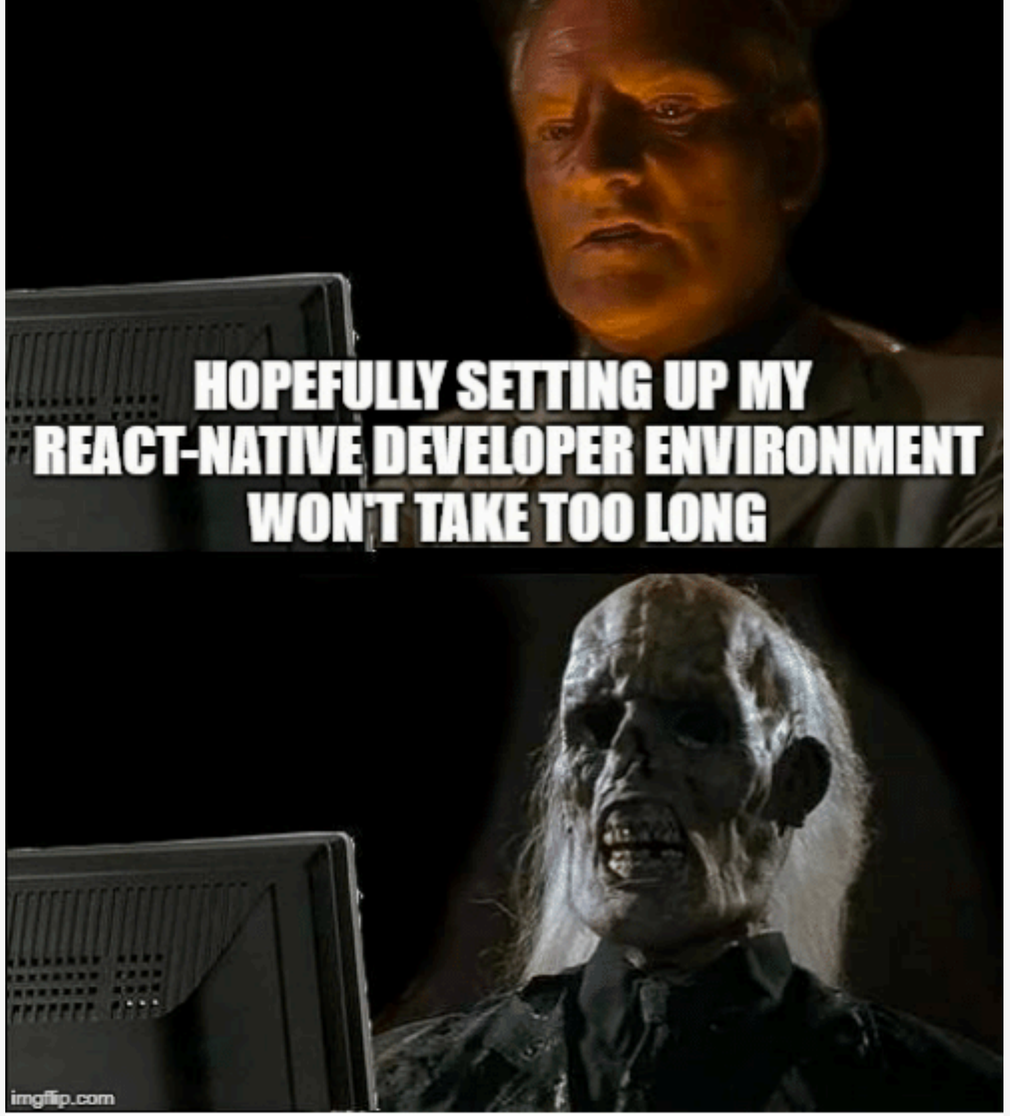
- React is great, but it’s built around HTML
- Phones don’t use HTML in their applications
    - They use a custom UI API
    - A “div” in HTML might equal a “box” in some other UI API
- Developers don’t want to learn two different frameworks
- React Native is the answer

What is React Native?

- A way to convert React code into application code that is tailored to the device it’s running on
- React Native will compile into
  - An iOS application using iOS UI
  - An Android application using Andriod UI
  - A web application using HTML

What Do We Need?

- Xcode or Android Studio
  - Something that lets us emulate a phone on our laptop
- Expo CLI
  - Gives us everything we need to set up a dev environment
  - Similar to webpack, react-scripts
- expo.io - Makes it easy to deploy an application to your phone
- snack.io - Lets you run your application in a browser



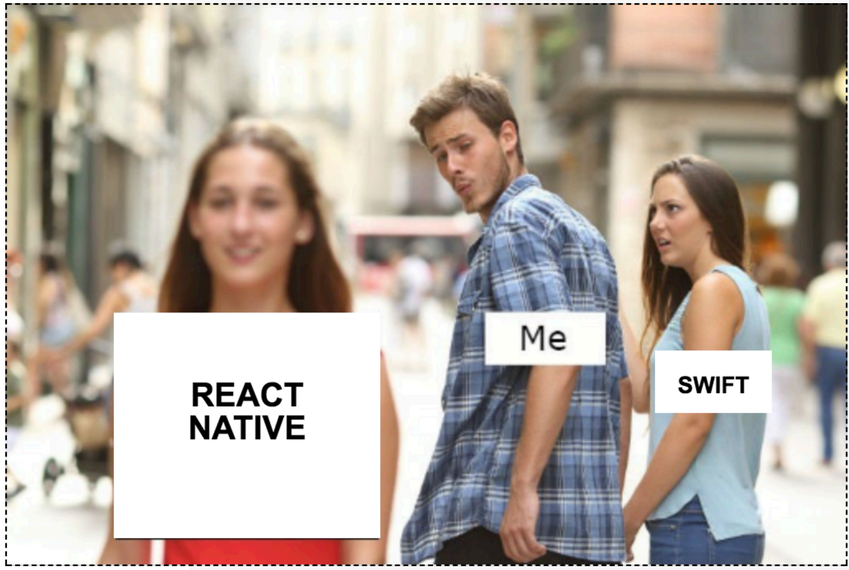
An eternity later....

Demo

Making Hello World in React Native.

ReactJS vs. React Native

- React Native does not create HTML, so we have to think a little differently about our components
- Styling
  - We’re not using CSS
  - Styles defined in JavaScript that looks like CSS
  - No Mixins or Sass niceties
- Routing
  - React-router doesn’t work
  - Navigator React Native component



The Major Differences - Tags

ReactJS	React Native
	<View>
<p>	<Text>
<input>	<TextInput>
<img>	<Image>
<button>	<Button>
<input type='checkbox'>	<Switch>
<select>	<Picker>
<input type='range'>	<Slider>
,	<FlatList> <SectionList>

React Native Tag	Use
<Alert>	Alert dialog box
<Modal>	Creates a modal window
<Linking>	Lets you create app links
<ImagePickerIOS>	Lets you choose an image on phone
<DatePickerIOS>	Lets you pick a date
<ScrollView>	Lets you create a scrollable container

The Major Differences - Style

- We’re not doing HTML + CSS anymore!
- Use JavaScript to make CSS-Like styles
- Dimensions are not pixel based, so they have no unit
  - `width=100`, `height=100`
- We don’t have flexbox, we have `flex`
  - `flex`, `flexDirection`, `alignItems`, `justifyContent`

Questions?