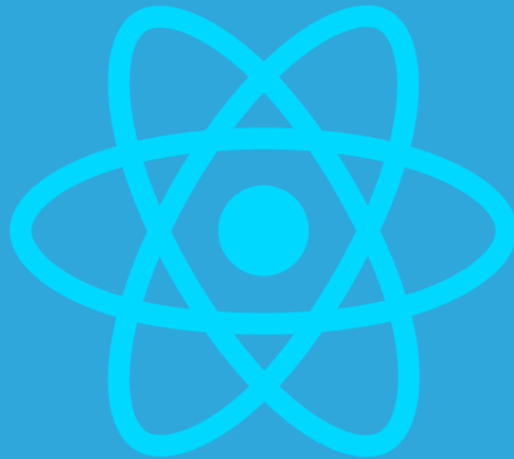# React to React Native: *How Hard Could It Be?*

Kylie Stewart
Software Engineer at Formidable

What is React?

But why use it?

JSX
virtual DOM
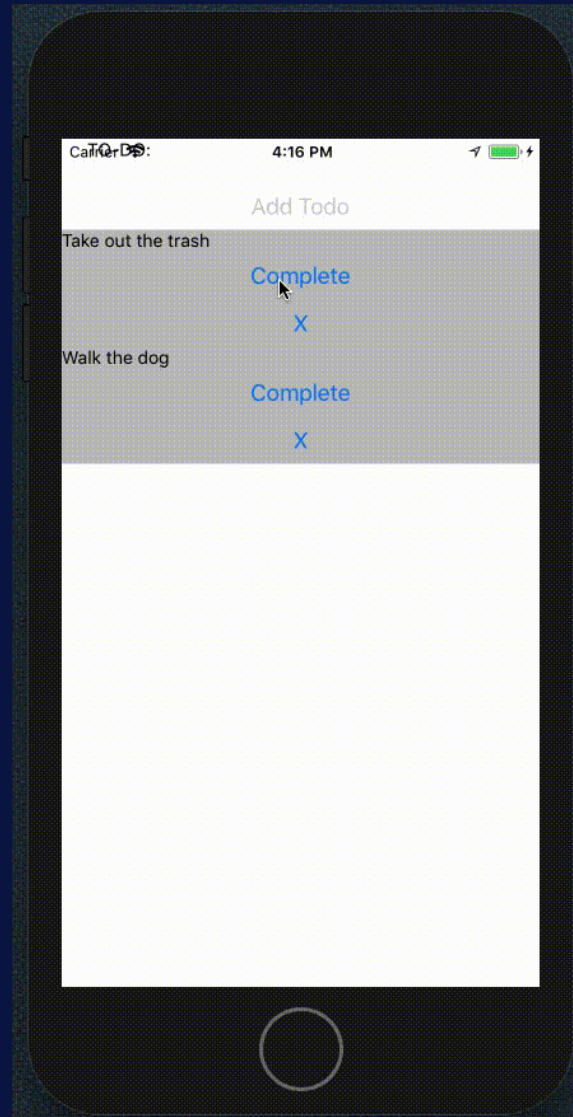component interfaces

What is React Native?

Our Starting Point

"Can I just copy and paste the code?"

Challenge #1: API 🔨

```jsx
import React from 'react';

class App extends React.Component {
  render() {
    return (
      <div className="app">
        <header className="header">
          <h1 className="title">Welcome to React</h1>
        </header>
        <p className="body">Here's a bunch of text.</p>
      </div>
    );
  }
}
```

```jsx
import React from 'react';
import { View, Text, ScrollView } from 'react-native';

class App extends React.Component {
  render() {
    return (
      <View>
        <View>
          <Text>Welcome to React</Text>
        </View>
        <ScrollView>
          <Text>Here's a bunch of text.</Text>
        </ScrollView>
      </View>
    )
  }
}
```
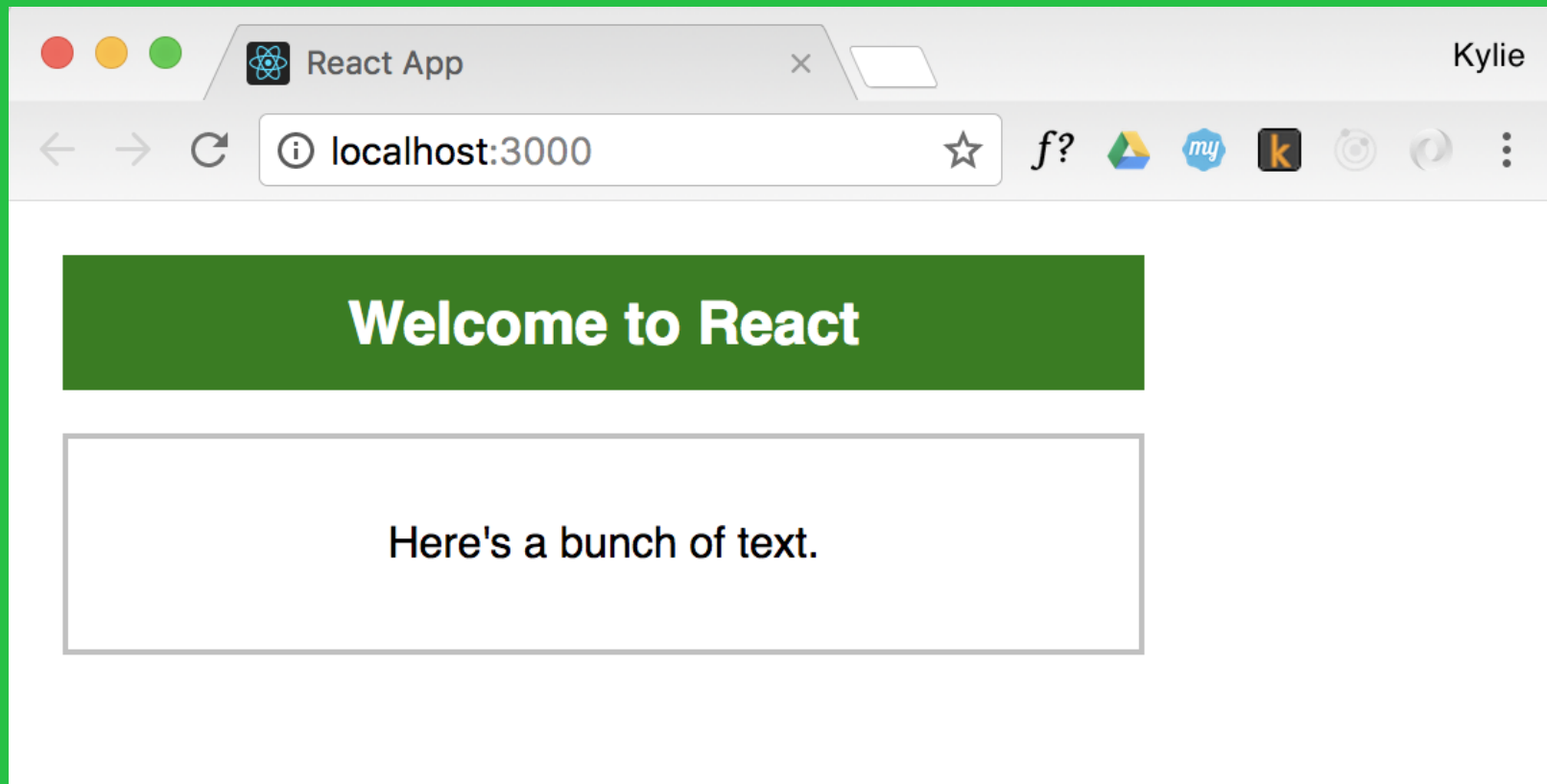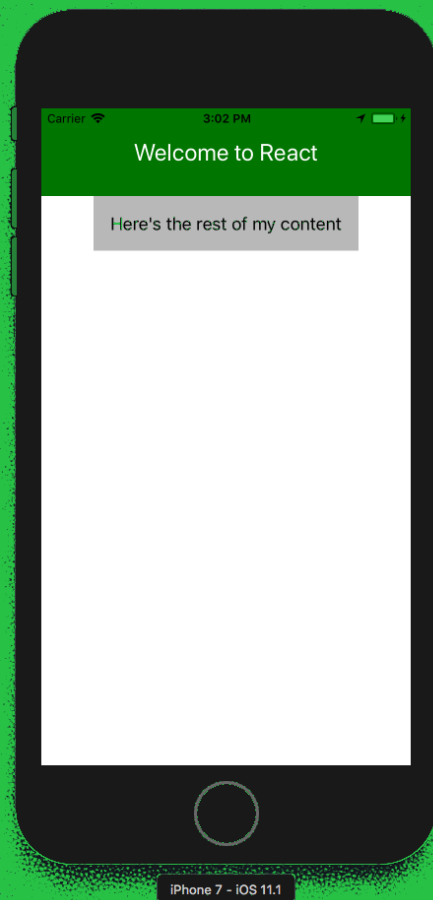
Challenge #2: Styling 💅

Before

Before

```
// snippet from App.js

return (
  <div className="app">
    <header className="header">
      <h1 className="title">Welcome to React</h1>
    </header>
    <p className="body">
      Here's a bunch of text.
    </p>
  </div>
);
```

```
// App.css

.app {
  display: flex;
  flex-direction: column;
  justify-content: center;
  width: 400px;
  padding: 20px;
}

.header {
  background-color: green;
  color: white;
  height: 30px;
  display: flex;
  justify-content: center;
  padding: 10px;
}

.title {
  font-size: 22px;
  align-self: center;
}

.body {
  display: flex;
  justify-content: center;
  border: 2px solid silver;
  padding: 30px;
}
```

After


```
const App = () => {
  const { headerStyle, titleStyle, bodyStyle, textStyle } =
styles;
  return (
    <View>
      <ScrollView>
        <View style={headerStyle}>
          <Text style={titleStyle}>Welcome to React</Text>
        </View>
        <View style={bodyStyle}>
          <Text style={textStyle}>Here's the rest of my
content</Text>
        </View>
      </ScrollView>
    </View>
  )
}

const styles = {
  headerStyle: {
    flex: 1,
    backgroundColor: 'green'
  },

  titleStyle: {
    padding: 30,
    fontSize: 24,
    alignSelf: 'center',
    color: 'white'
  },

  bodyStyle: {
    alignSelf: 'center',
    backgroundColor: 'silver'
  },

  textStyle: {
```
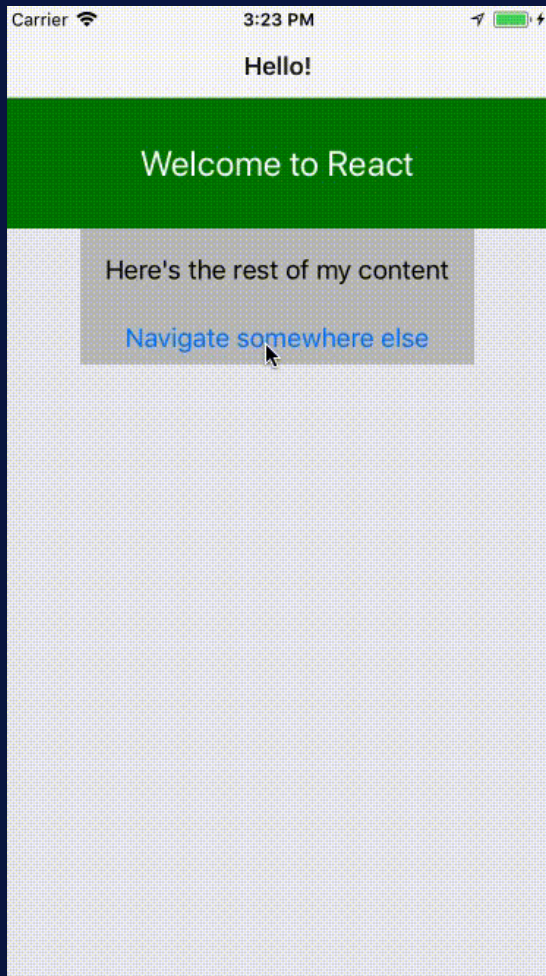
Challenge #3: Navigation 📍

Tab Navigator

```
const SimpleApp = TabNavigator({
  Home: { screen: HomeScreen },
  Notifications: { screen: NotificationsScreen }
}, {
  tabBarPosition: 'bottom',
  animationEnabled: true,
  tabBarOptions: {
    activeTintColor: 'green',
  },
});

export default SimpleApp;
```

Stack Navigator

```
const SimpleApp = StackNavigator({
  Home: { screen: HomeScreen },
  List: { screen: ListScreen }
});

class App extends React.Component {
  render() {
      return <SimpleApp ↗;
  }
};

export default App;
```

Challenge #4: Environment 🏠

Before

```
require('dotenv').config();

var db = require('db');
db.connect({
  host: process.env.DB_HOST,
  username: process.env.DB_USER,
  password: process.env.DB_PASS
});
```

After

```
import Config from 'react-native-config';

var db = require('db');
db.connect({
  host: Config.DB_HOST,
  username: Config.DB_USER,
  password: Config.DB_PASS
});
```

✨ The Future ✨

Our vision for React Native is...

- **A healthy GitHub repository.** Issues and pull requests get handled within a reasonable period of time.
  - Increased test coverage.
  - Commits that sync out from the Facebook code repository should not break open source tests.
  - A higher scale of meaningful community contributions.
- **Stable APIs,** making it easier to interface with open source dependencies.
  - Facebook uses the same public API as open source
  - React Native releases that follow semantic versioning.
- **A vibrant eco-system.** High quality ViewManagers, native modules, and multiple platform support maintained by the community.
- **Excellent documentation.** Focus on helping users create high quality experiences, and up-to-date API reference docs.

https://github.com/facebook/react-native/wiki/Roadmap

THANK YOU!

@KYLIESTEW ON TWITTER

`github.com/kale-stew/ts-in-react`