

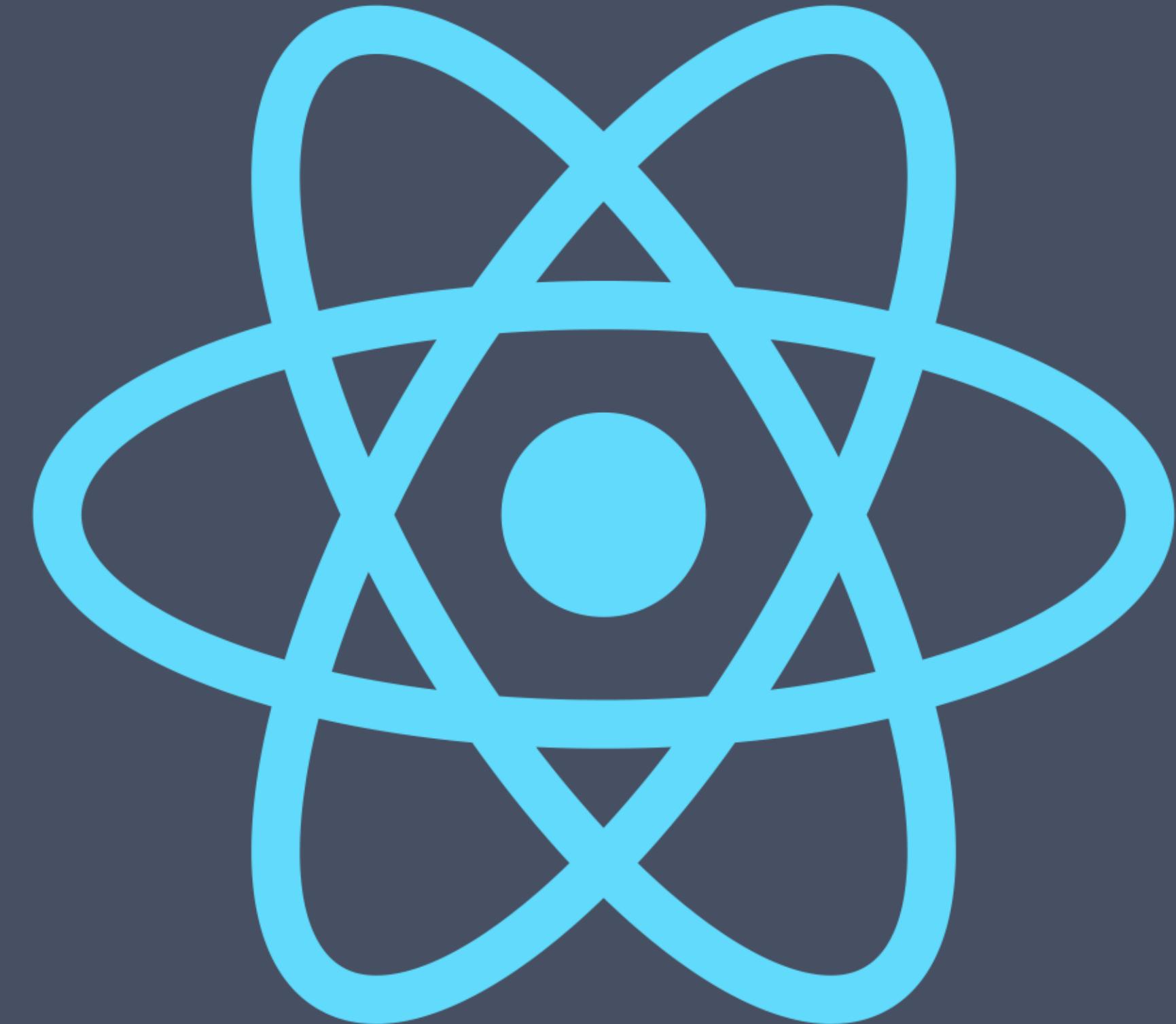
# REACT NATIVE

LEARN ONCE. WRITE ANYWHERE:  
BUILD MOBILE APPS WITH REACT

# WHAT IS REACT NATIVE?

- › NATIVE MOBILE APPLICATION DEVELOPMENT
- › IOS (APP STORE DEPLOYABLE)
- › ANDROID (GOOGLE PLAY STORE DEPLOYABLE)
- › NOT QUITE BARE METAL, BUT COMPILES TO NATIVE CODE
- › EVERYTHING IS JAVASCRIPT (ES6)
- › SOMETHING THAT KIND OF LOOKS LIKE CSS<sup>1</sup>)

<sup>1</sup> IF YOU LOVE CAMELCASE INSTEAD OF KEBAB-CASE.



# FREQUENTLY ASKED QUESTIONS

1. IS THIS REALLY JUST A WEBVIEW?

> NO.

2. DO I HAVE TO LIVE IN XCODE/ANDROID STUDIO?

> NO. ONLY TO CREATE DEPLOYABLE VERSIONS OF THE APP.

3. IS THIS JUST A BOX OF MAGIC?

> YES AND NO.

# GETTING STARTED

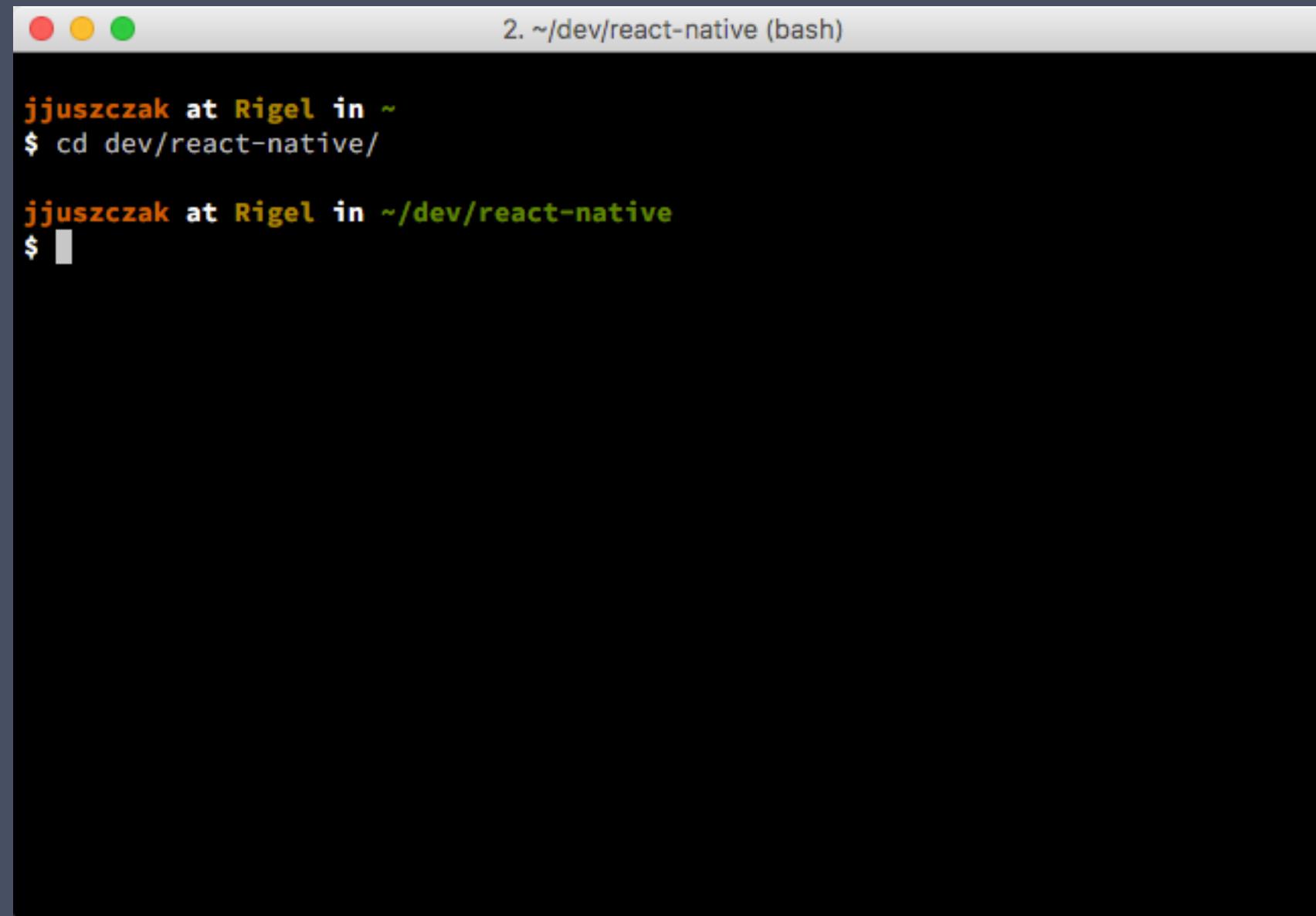
- > MACOS (IOS AND ANDROID) OR WINDOWS (ANDROID ONLY)
  - > XCODE AND/OR ANDROID STUDIO

## MACOS WITH XCODE:

```
brew install node  
brew install watchman  
npm install -g react-native-cli
```

```
react-native init AwesomeProject  
cd AwesomeProject  
react-native run-ios
```

# MAKE IT HAPPEN



A screenshot of a Mac OS X terminal window titled "2. ~/dev/react-native (bash)". The window has three colored title bar buttons (red, yellow, green) on the left. The terminal itself is black with white text. It shows the following command sequence:

```
jjuszczak at Rigel in ~
$ cd dev/react-native/
jjuszczak at Rigel in ~/dev/react-native
$ █
```

# WHAT'S IN THE BOX?

HEY, WE ALL (MOSTLY) UNDERSTAND JAVASCRIPT

```
! ["React" isEqualToString:@"Objective-C"]
```

```
! "React".equals("Java")
```

```
"React" === "JavaScript";
```

# WHAT'S IN THE BOX?

TINY LIBRARY & API

- > 34 COMPONENT TYPES (LIKE `<Text>`, `<Button>`, AND `<Image>`)
- > 38 API METHODS (LIKE `Alert`, `Clipboard`, AND `Geolocation`)

# WHAT'S IN THE BOX?

## INTERWEBS

- › DESIGNED FROM THE GROUND UP FOR PULLING DATA FROM APIs
- › GRACEFULLY DEAL WITH ASYNCHRONOUS REQUEST/RESPONSE CYCLE

```
axios.get('https://rallycoding.herokuapp.com/api/music_albums')
  .then(response => this.setState({ albums: response.data }));
```

# WHAT'S IN THE BOX?

## FLEXBOX

2 Items



3 Items



4 Items



5 Items



# WHAT'S IN THE BOX?

REDUX

...BECAUSE REDUX



# ADVANTAGES?

## REACT NATIVE VS. NATIVE NATIVE

- > "IT'S HARD"
- > GOOD LUCK BUILDING TWO (IOS. ANDROID) VERSIONS OF EVERYTHING

# ADVANTAGES?

## REACT NATIVE VS. XAMARIN

- > C#
- > STEEP LEARNING CURVE
- > VISUALSTUDIO (YEAH. I KNOW)

# ADVANTAGES?

## REACT NATIVE VS. CORDOVA (PHONEGAP)

- > NOT NATIVE (WEBVIEW ALL THE THINGS)
- > NOT VERY PERFORMANT (BECAUSE OF ABOVE)
- > NO BACKGROUND PROCESSING

# ADVANTAGES?

## REACT NATIVE VS. RUBY MOTION

- > PROPRIETARY (NOT OPEN SOURCE)
- > MOSTLY JUST SYNTAX WRAPPERS. YOU STILL NEED TO KNOW WHAT'S GOING ON UNDER THE HOOD

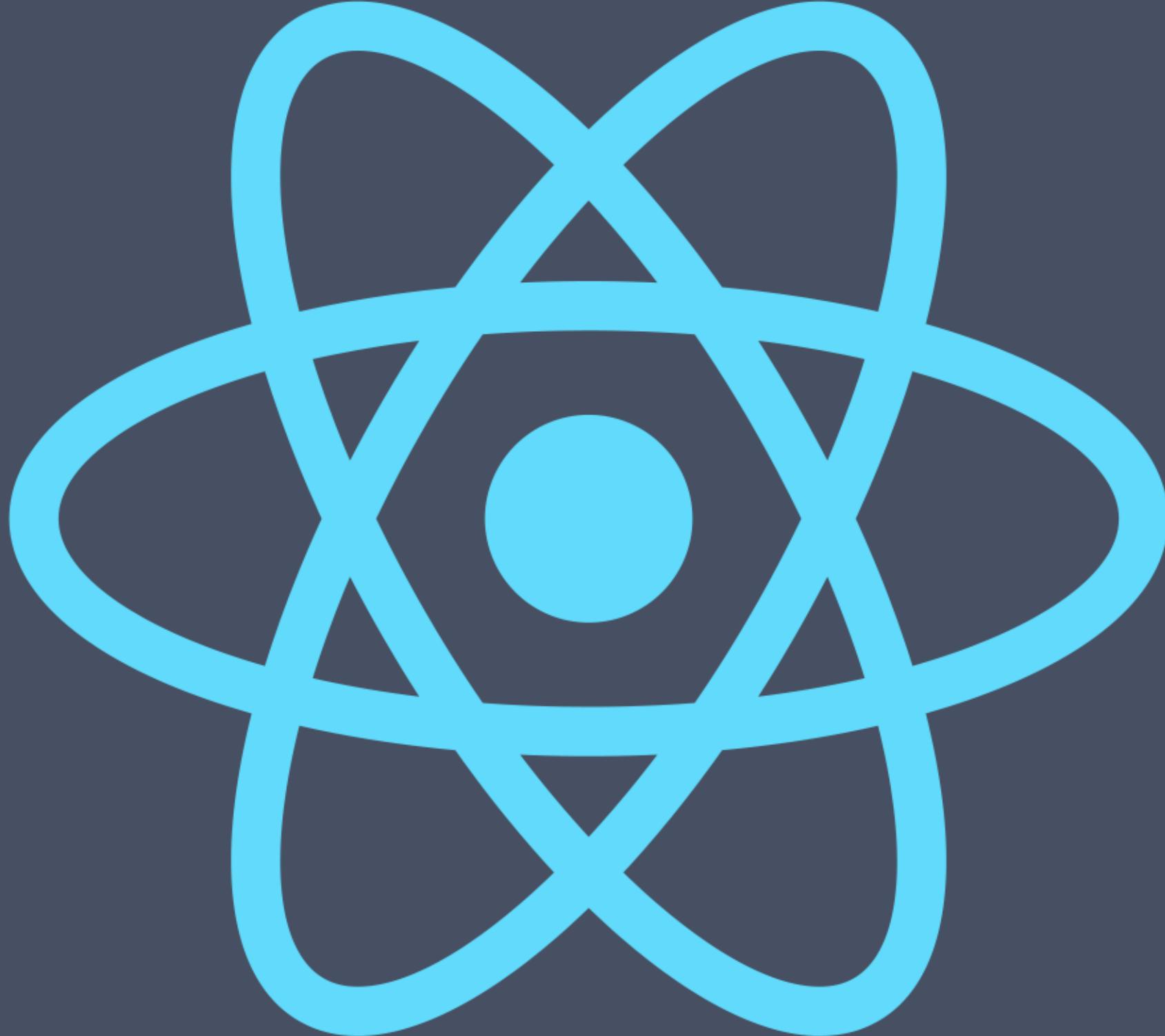
# DISADVANTAGES?

- › COMPLEX STUFF IS STILL HARD, ESPECIALLY IF THERE IS NO NATIVE REACT NATIVE COMPONENT<sup>2</sup>
- › API IS PRETTY STABLE, BUT NEW ENOUGH THAT SOMETHING MAY BREAK THE ECOSYSTEM
- › COMPILER IS PRETTY BLACK BOX: IF SOMETHING DOESN'T WORK, GOOD LUCK FINDING OUT WHY

<sup>2</sup> YOU CAN STILL WRITE NATIVE MODULES IN XCODE OR ANDROID STUDIO IF REACT NATIVE CAN'T DO WHAT YOU WANT. I WOULDN'T TRY WRITING ANY OPENGL GAMES IN REACT.

# TAYLOR [NOT] SWIFT





MORE PLEASE...

WHERE CAN I GET MORE OF THIS SWEET.  
SWEET REACT NATIVE?

- › REACT NATIVE WEBSITE: OBVIOUSLY
- › JS.COACH: KIND OF LIKE RUBY TOOLBOX  
FOR REACT AND REACT NATIVE  
COMPONENTS
- › THE COMPLETE REACT NATIVE AND REDUX  
COURSE (FROM UDEMY): VERY GOOD (IF A  
BIT OVERLY DETAILED) COURSE



# THANKS!