

#### INTRO TO

## REACT NATIVE

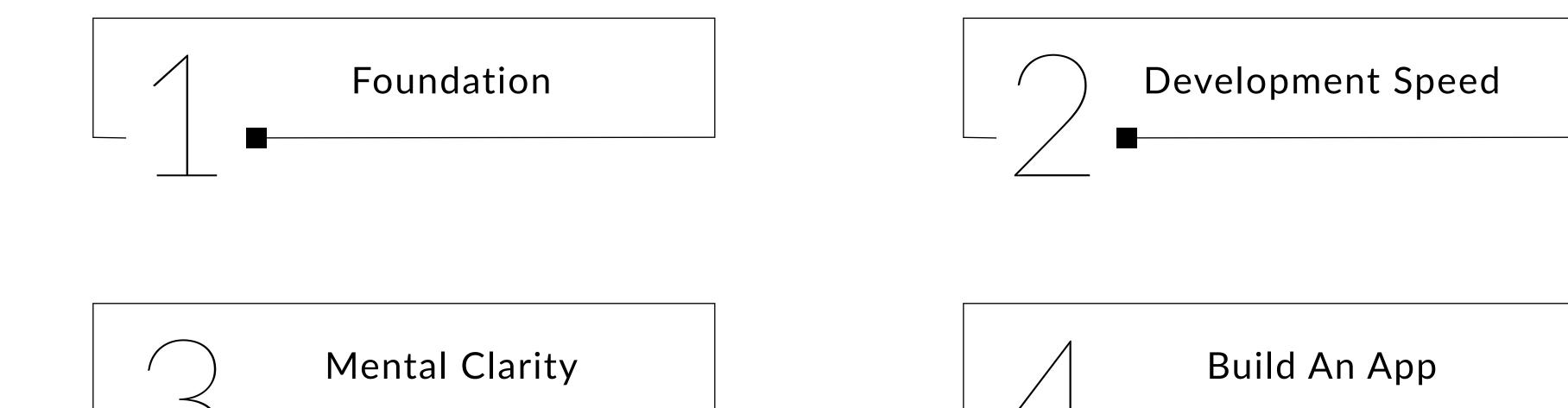
@JOSHGRETZ

HTTPS://GITHUB.COM/JGRETZ/INTROTOREACTNATIVE



BUT IT DOESN'T
WORK BECAUSE
THE CARTOON HAS
NO PUNCHLINE.

#### WHERE ARE WE GOING TO GO?



# BACKSTORY Begin at the beginning and go on till you come to the end; then stop. - Mad Hatter -



## CROSS PLATFORM

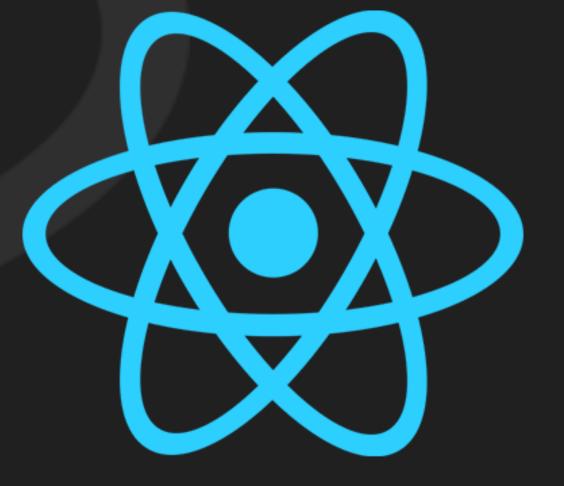
Mobile Development has been broken for a while.

You want to support everyone, but its a nightmare for developers, designers, and business





#### React Native



React Native enables you to build world-class application experiences on native platforms using a consistent developer experience based on JavaScript and React. The focus of React Native is on developer efficiency across all the platforms you care about — learn once, write anywhere. Facebook uses React Native in multiple production apps and will continue investing in React Native.

#### ITS NOT JUST ME









#### MATT ASAY

React May Have Just Ended The Native vs Web Debate

#### ROBBIE MCCORKELL CARY WODEHOUSE

React Native - The Killer Feature That Nobody Talks About

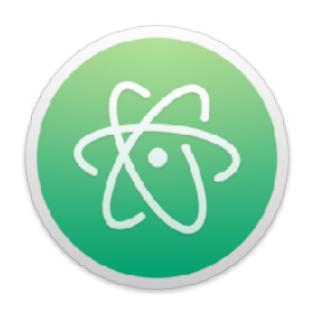
7 Reasons Why React Native Is The Future Of Hybrid App Development

#### JAMES LONGSTER

React Native Is The Right Way To Build Apps

















# PROJECT SETUP

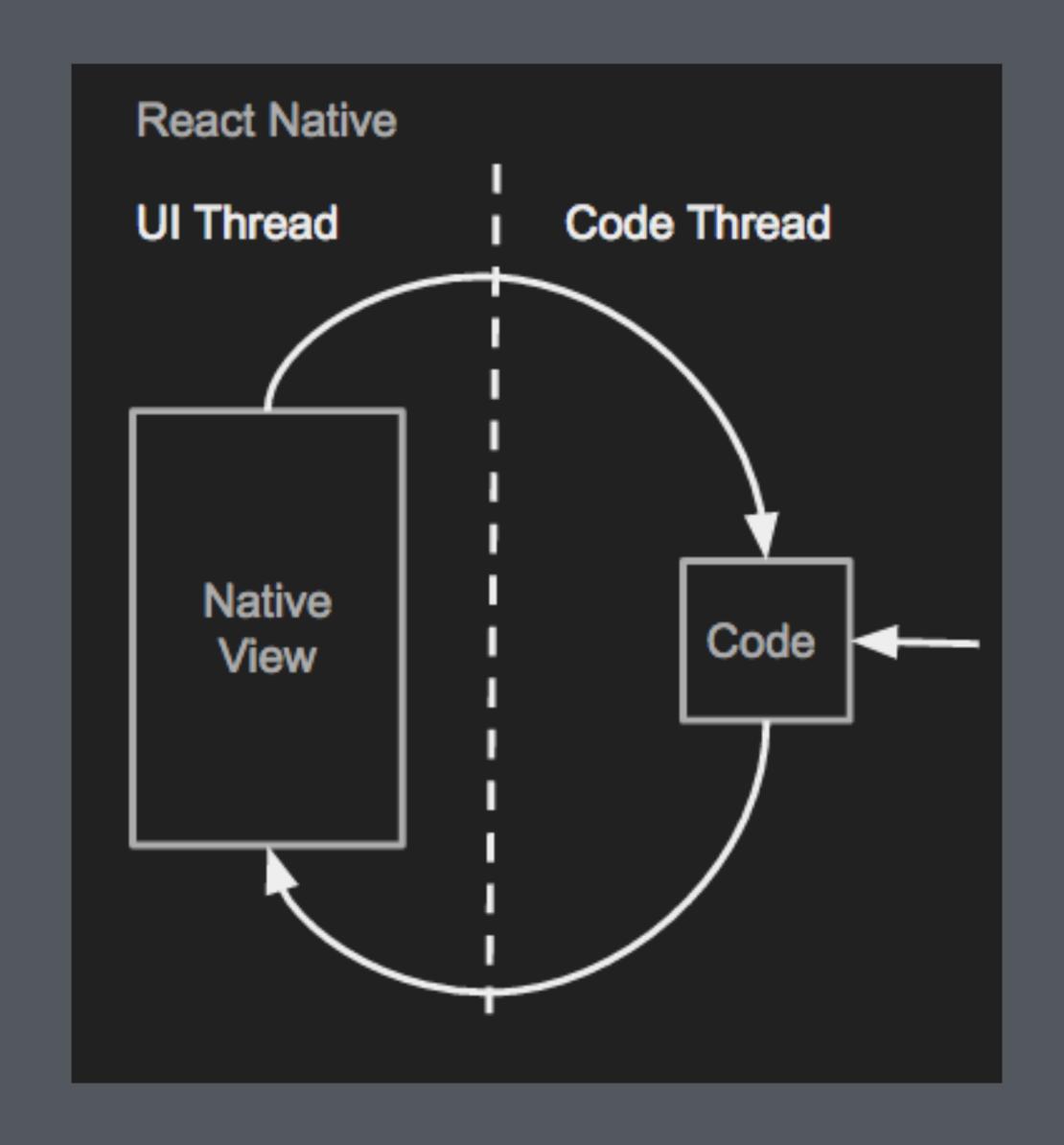
#### LOVE THE CLI

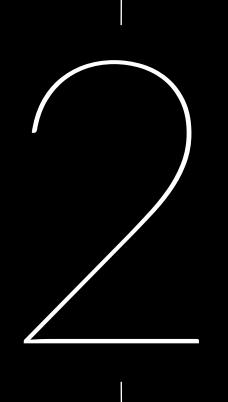
# PROJECT SETUP

#### BUT DON'T FORGET THE IDE



# HOW DOES THE CODE GET THER?





#### DEVELOPMENT SPEED

Faster, Faster, until the thrill of speed overcomes the fear of death

- Hunter S. Thompson -



#### ES6

is a significant update to the language, and the first update to the language since ES5 was standardized in 2009.

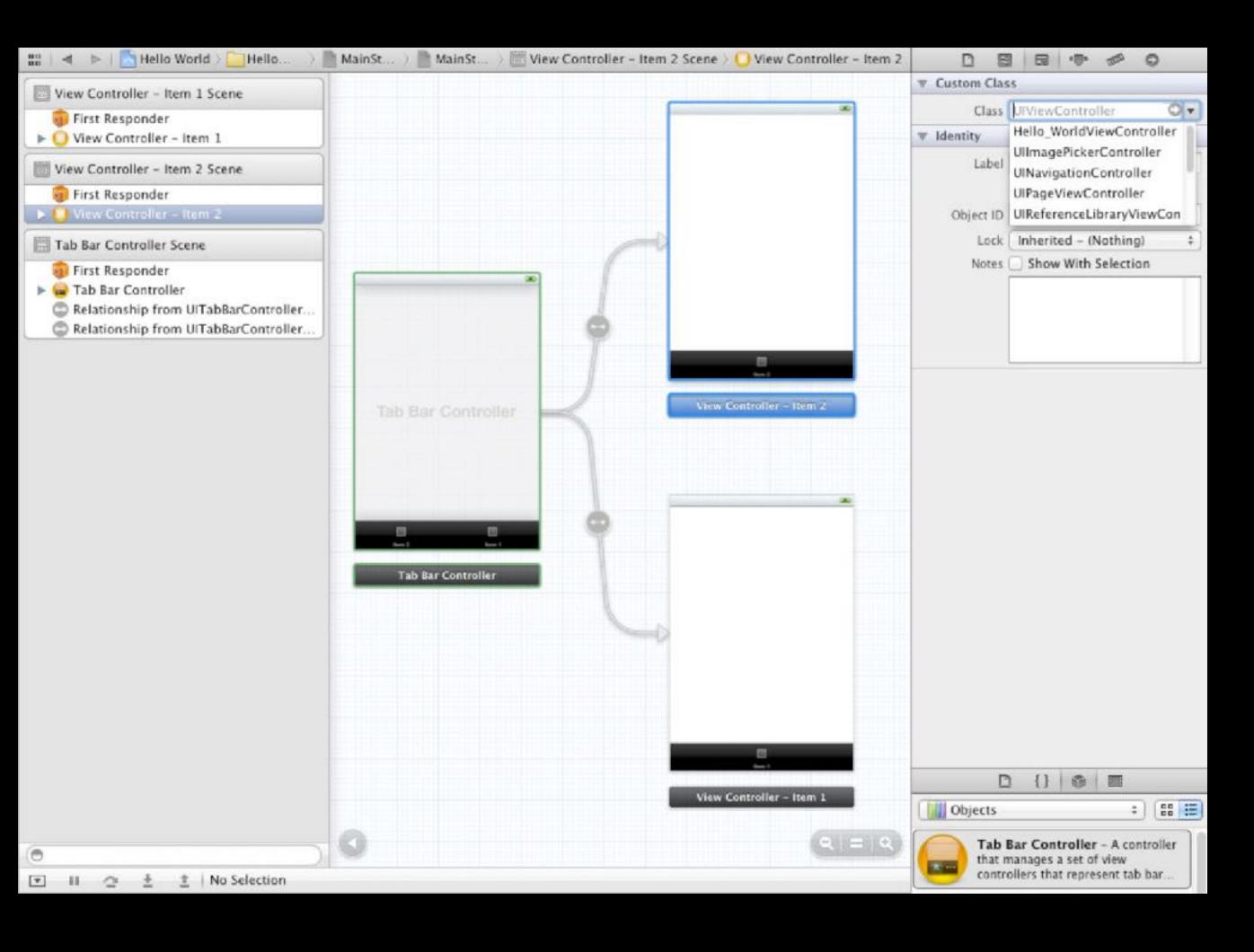
Add both useful features and syntactic sugar.

- const / let
- () => {}
- `\${obj.name} 1`
- {...obj}
- const { prop } = obj
- class Foo extends
- import / export

#### JSX

```
<View style={styles.container}>
    <Text style={styles.welcome}>
    Welcome to React Native!
    </Text>
        <Text style={styles.instructions}>
        {this.renderGetStartedText()}
        </Text>
        <Text style={styles.instructions}>
        Press Cmd+R to reload, {'\n'}
        Cmd+D or shake for dev menu
        </Text>
```

</View>



#### INTERFACE BUILDERS

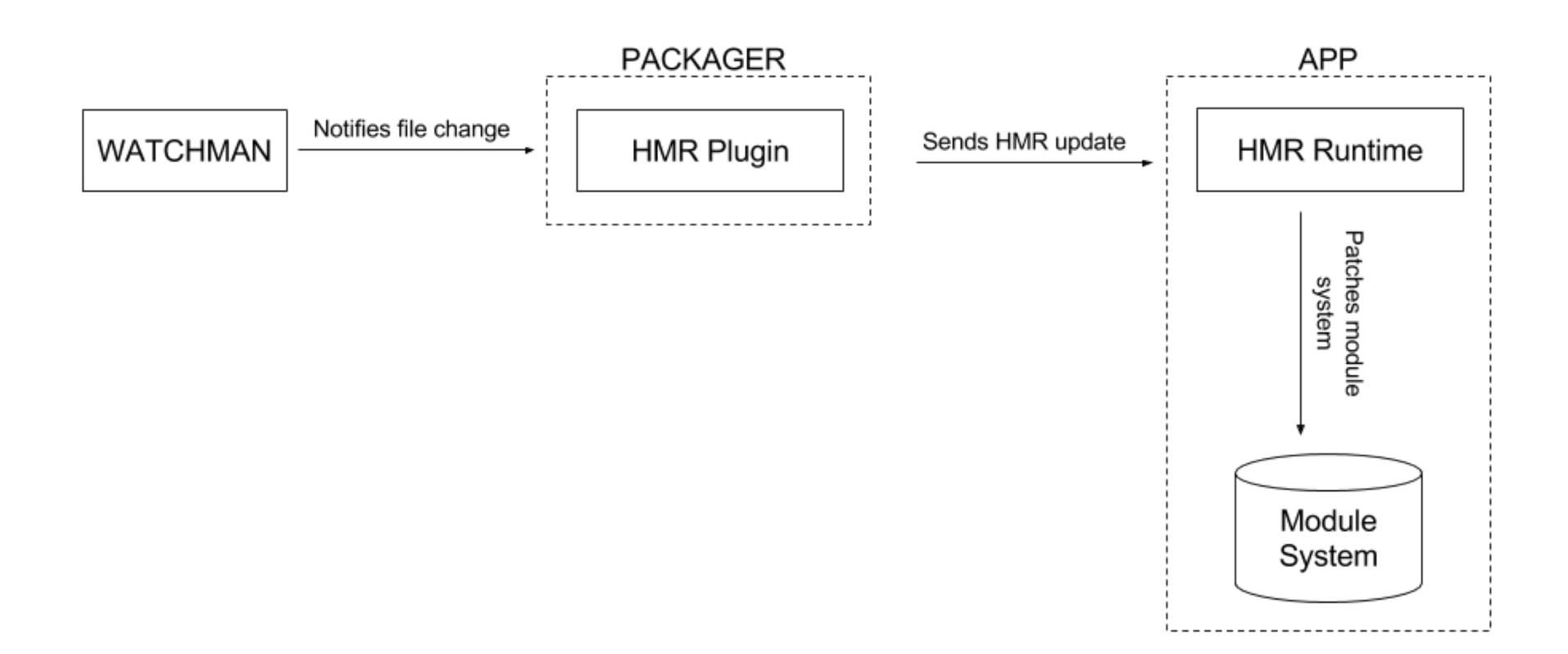
- Hard To Debug
- Works Horribly with Source Control
- Can duplicate code

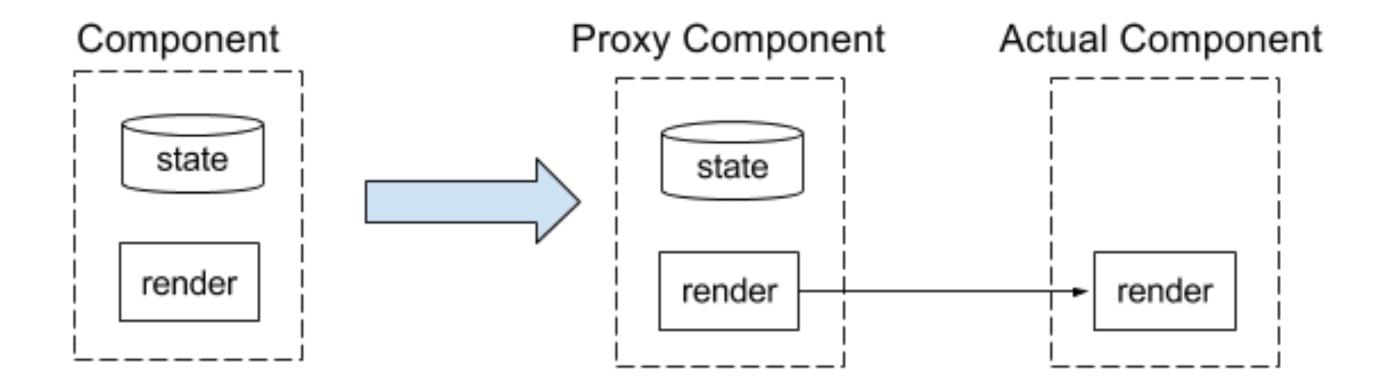
# HOT MODULE REPLACEMENT

(HMR) is a feature to inject updated modules into the active runtime.

IT'S LIKE LIVERELOAD FOR EVERY MODULE.







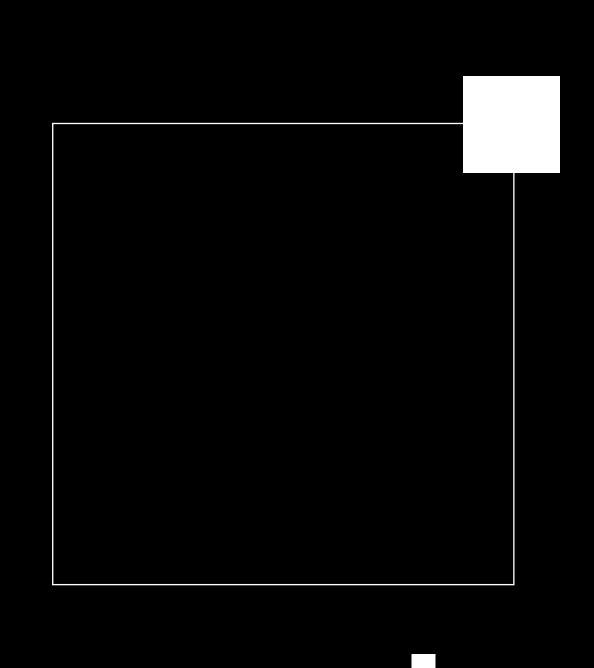


```
candidateNum=4
if candidateNum == "4":
    handleCandidate4()
    return true
else:
    handleCandidate3()
    return true
```

#### WRITE CLEAR CODE, NOT CLEVER CODE

Always code as if the guy who ends up maintaining your code will be a violent psychopath who knows where you live

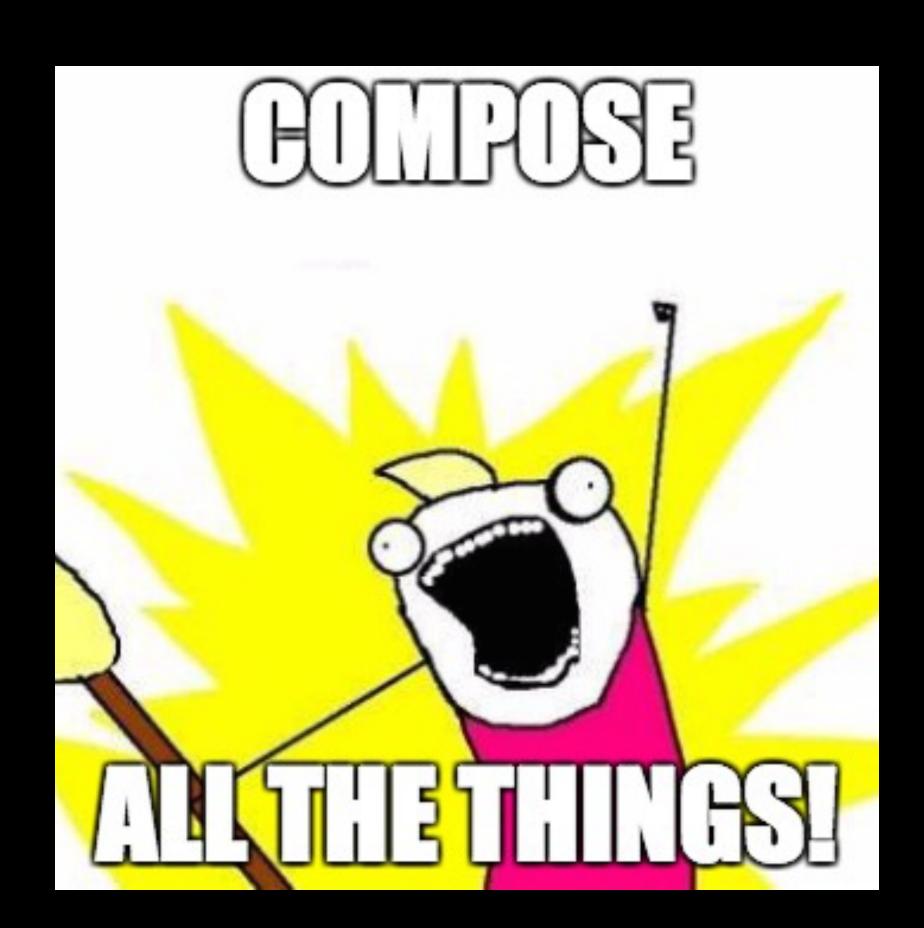
- Martin Golding -



## START SIMPLE

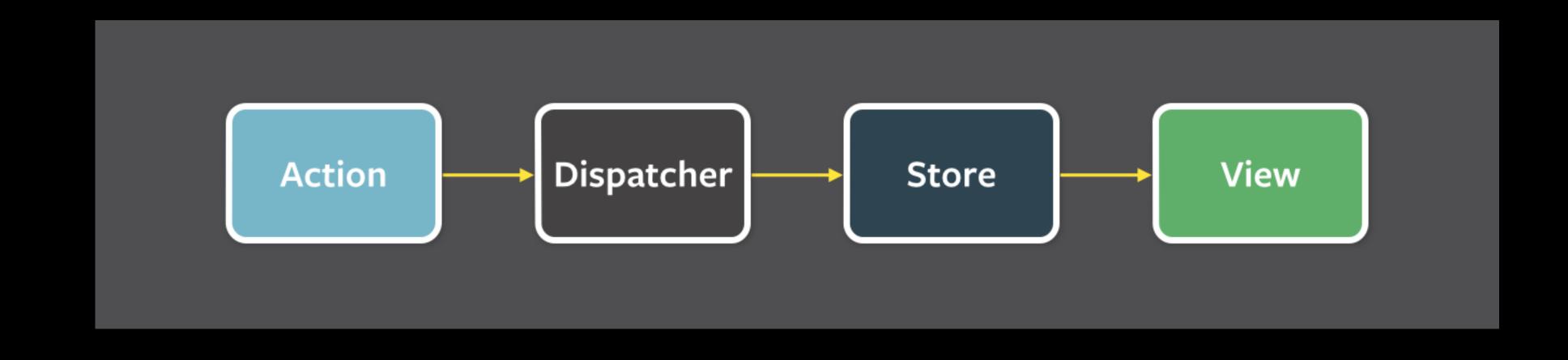
# & ADD COMPLEXITY AS NEEDED

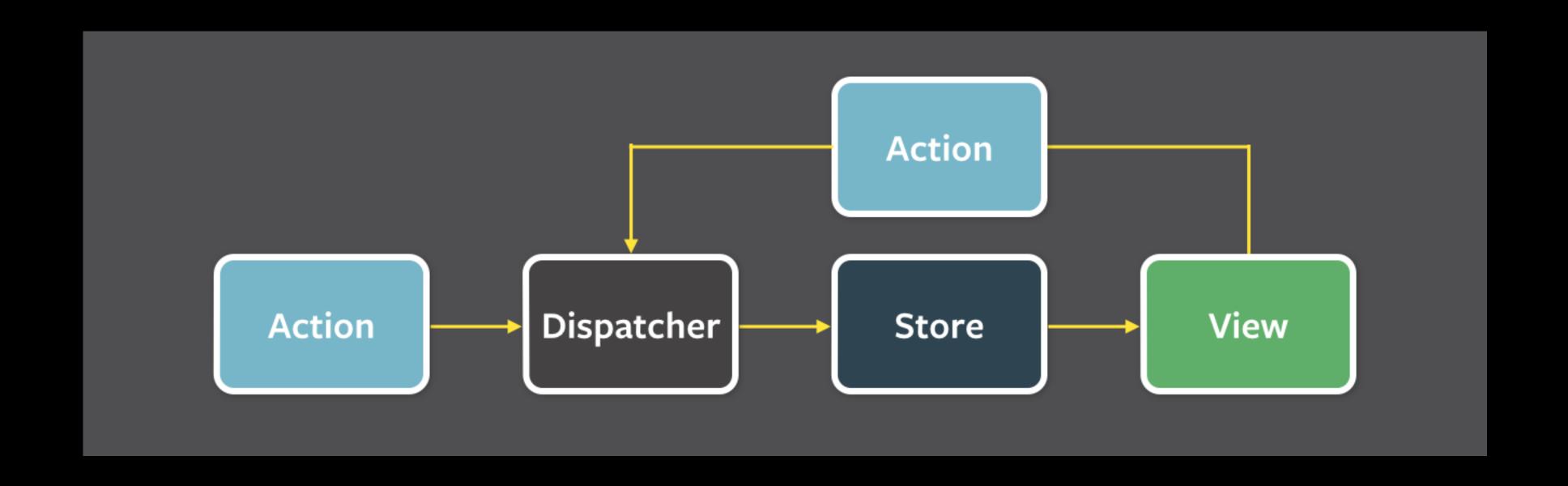
- •Start with pure, stateless functions
- •Start with small components and combine
- Unidirectional Data Flow



#### UNIDIRECTIONAL DATA FLOW

This means that all data in an application follows the same lifecycle pattern, making the logic of your app more predictable and easier to understand. It also encourages data normalization, so that you don't end up with multiple, independent copies of the same data that are unaware of one another.









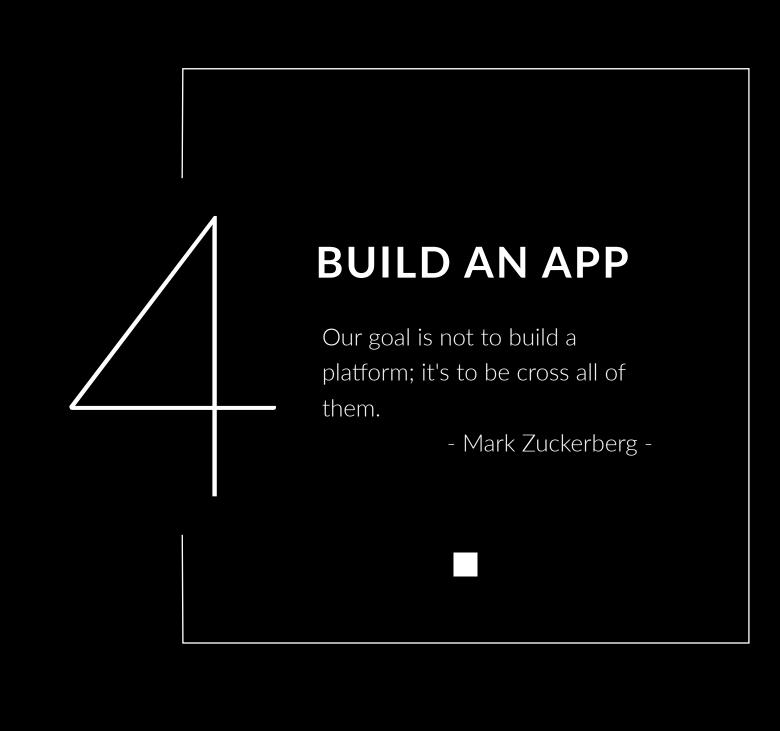


Reselect

# CROSS PLATFORM

# WITHREACT NATIVE YOU CAN

- Share UI and Code
- Splinter out React NativeCode As Needed
- Go To Swift, Obj-C, Java
   as well (Native Modules)

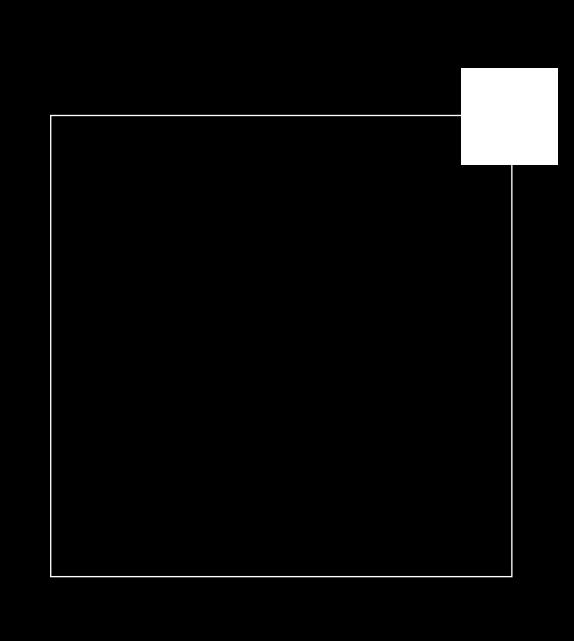




#### STYLING

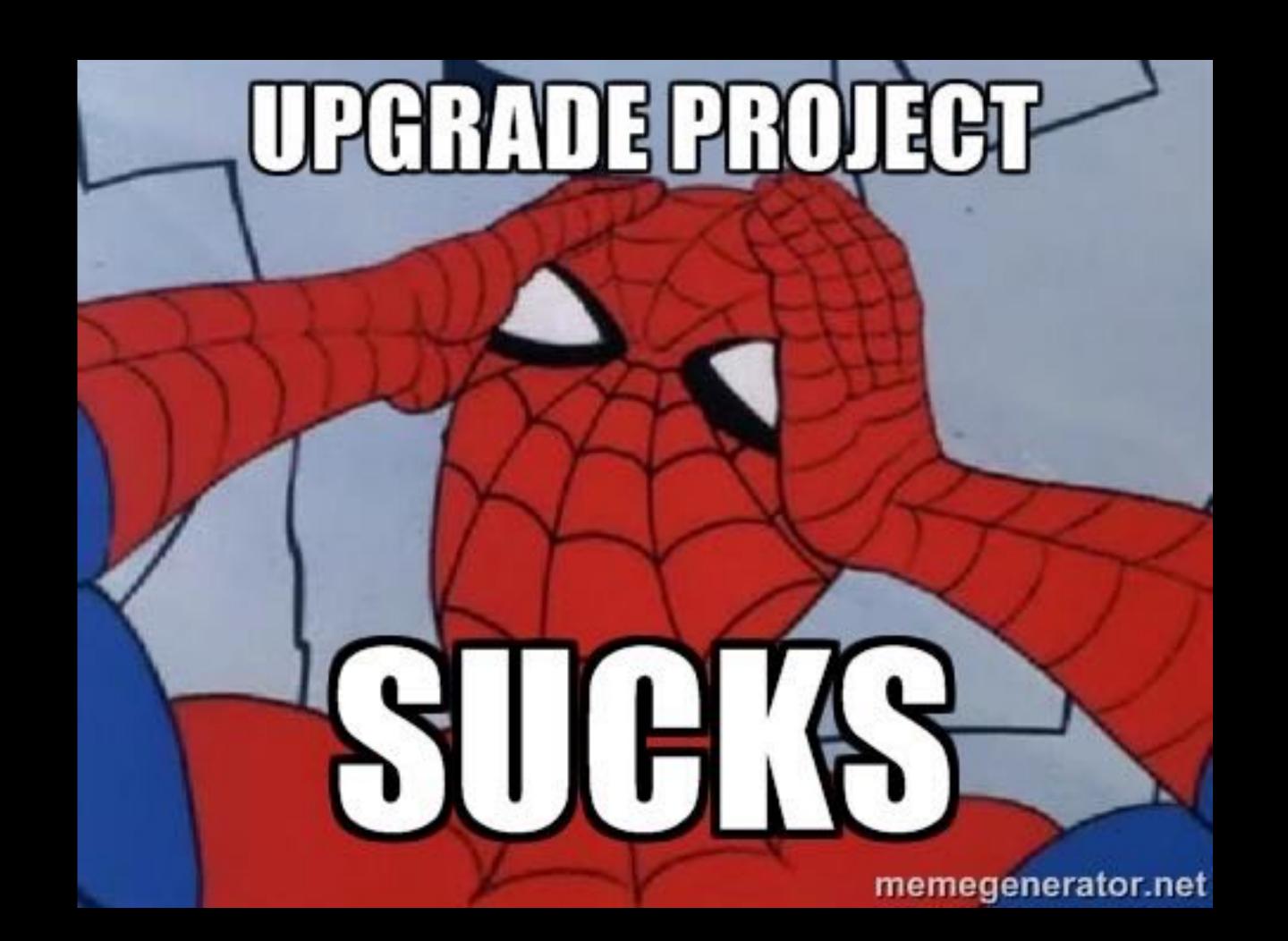
# STYLING IS STILL A WORK IN PROGRESS

- Flexbox
  - Defaults can be non-intuive
  - Difficult at times to learn
- StyleSheet
  - Styles are objects, which is a blessing and a curse
  - Unified shared styles like CSS require 3rd party



### DEVICE SUPPORT

- Official Support is limited (but growing)
  - Network
  - Location
  - Clipboard
  - Camera Roll
  - App Links
  - Accessibility
  - Vibration
  - Push Notifications (iOS ONLY)
- Missing (npm)
  - Audio
  - Video
  - Microphone
  - Bluetooth
  - Permissions
  - Push Notifications (Android)
  - Navigation



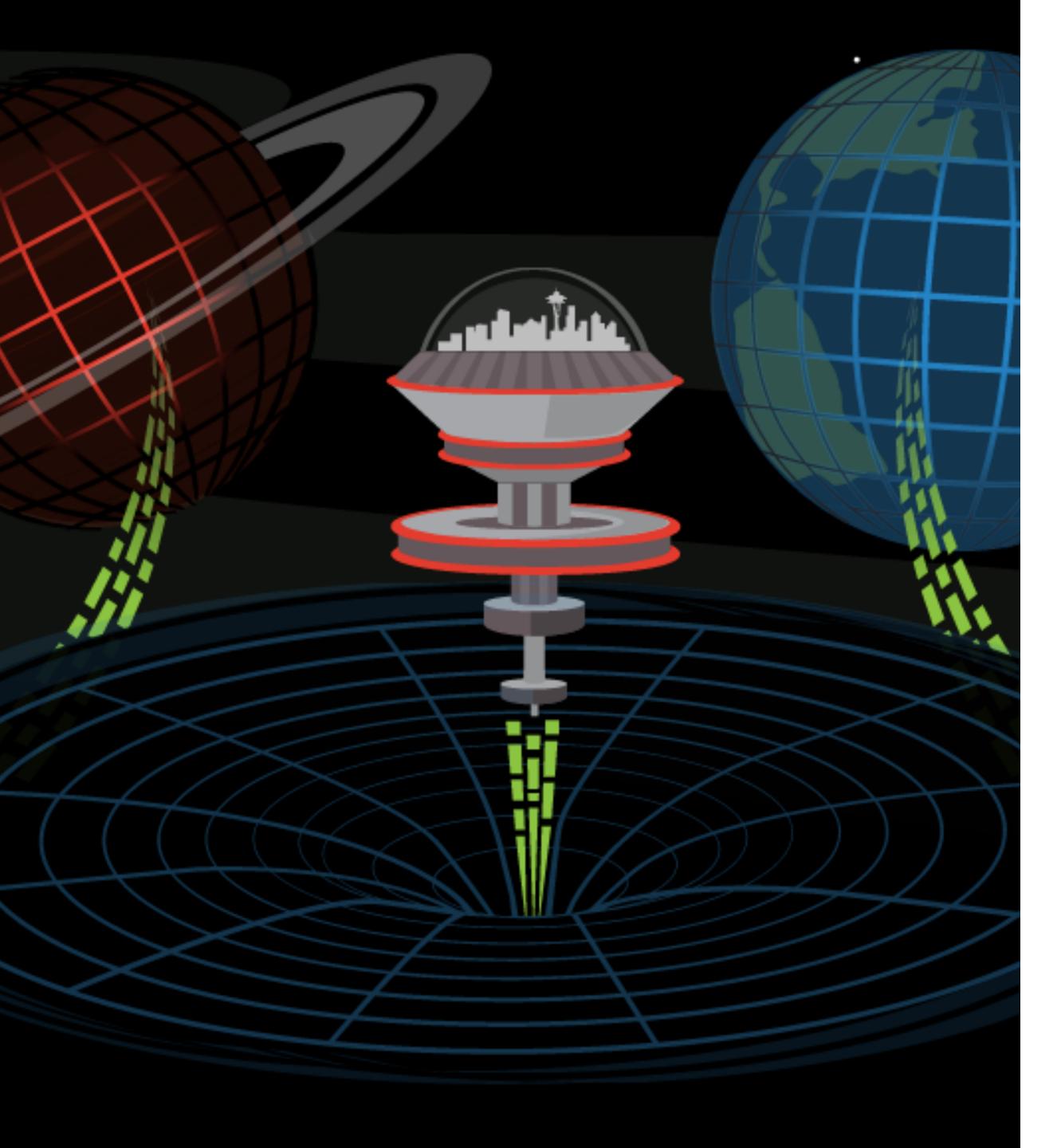
## Back to happiness ...





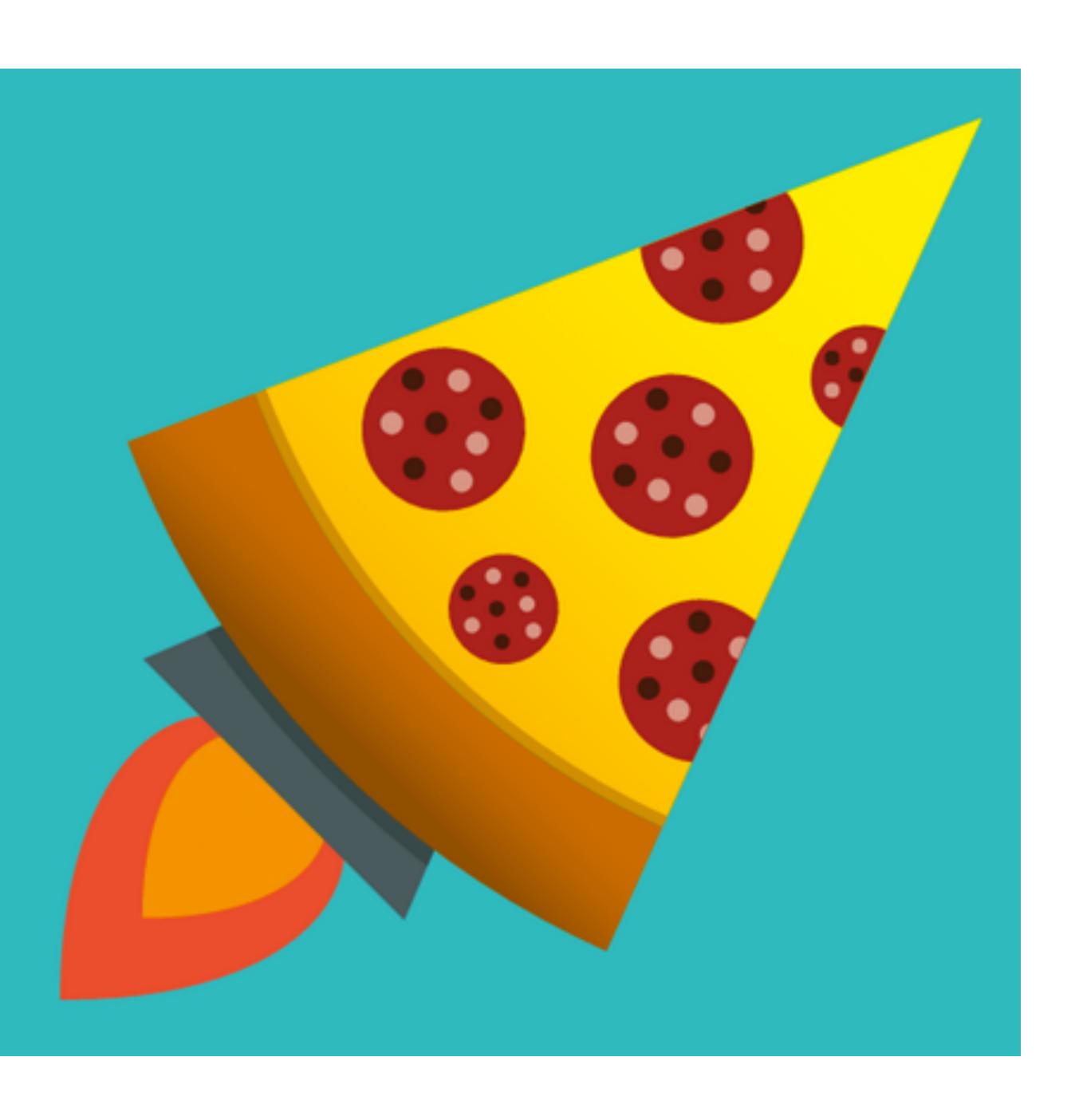
#### BUDDYBUILD

Build, deploy and gather feedback for your iOS and Android apps in one seamless, iterative system.



#### CODEPUSH

CodePush is a cloud service that enables React Native developers to deploy mobile app updates directly to their users' devices. It works by acting as a central repository that developers can publish certain updates to (e.g. JS, HTML, CSS and image changes), and that apps can query for updates from (using our provided client SDKs).



#### PEPPERONI

Pepperoni is a blueprint for building cross-platform mobile experiences rapidly with ready-to-use integrated building blocks for common mobile app features.

## THANKYOU

ANY QUESTIONS?

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