HOW REACT NATIVE AND NATIVESCRIPT CHANGE YOUR MOBILE STRATEGY

SEBASTIAN WITALEC

@SEBAWITA



WHY DO I EVEN HAVE TO CHOOSE?

How React Native and NativeScript Change Your Mobile Strategy

Progress

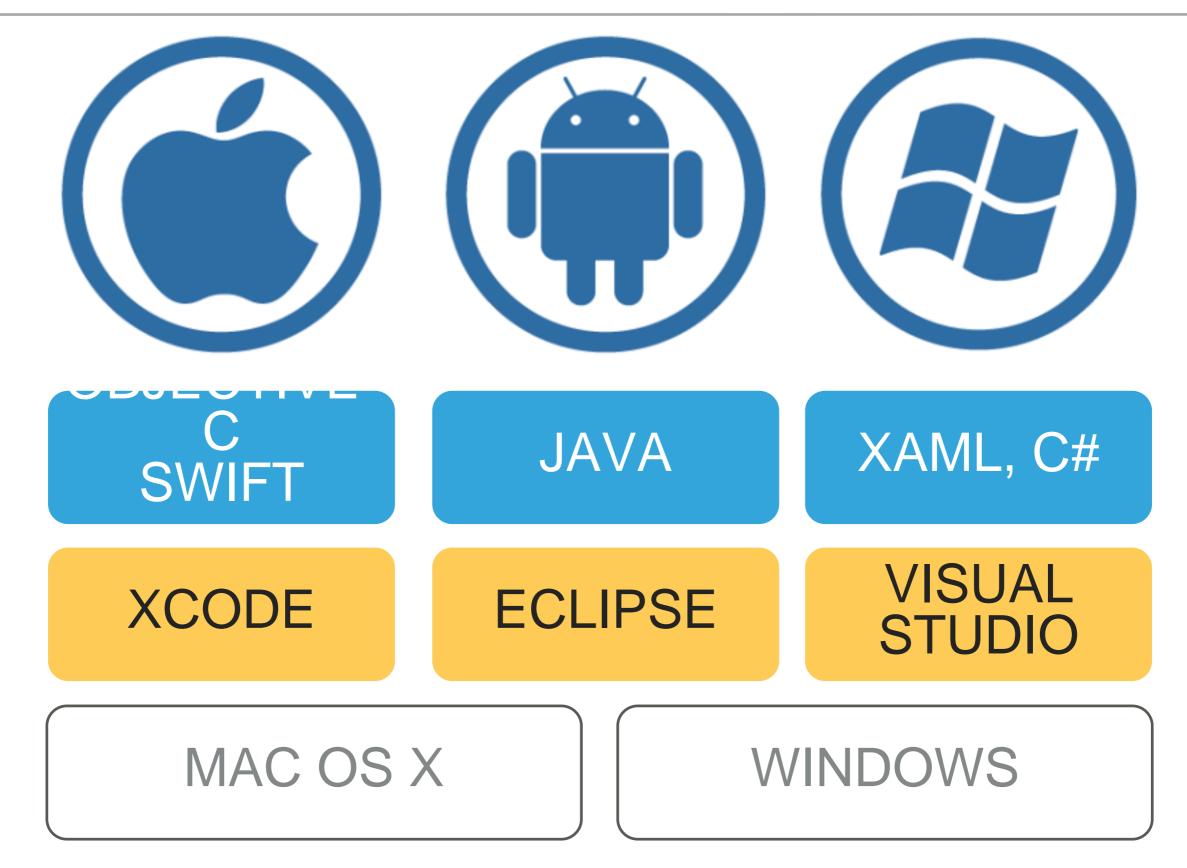
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WHAT WE WANT

REALITY







ASSEMBLING THE TEAM











WINDOWS PHON

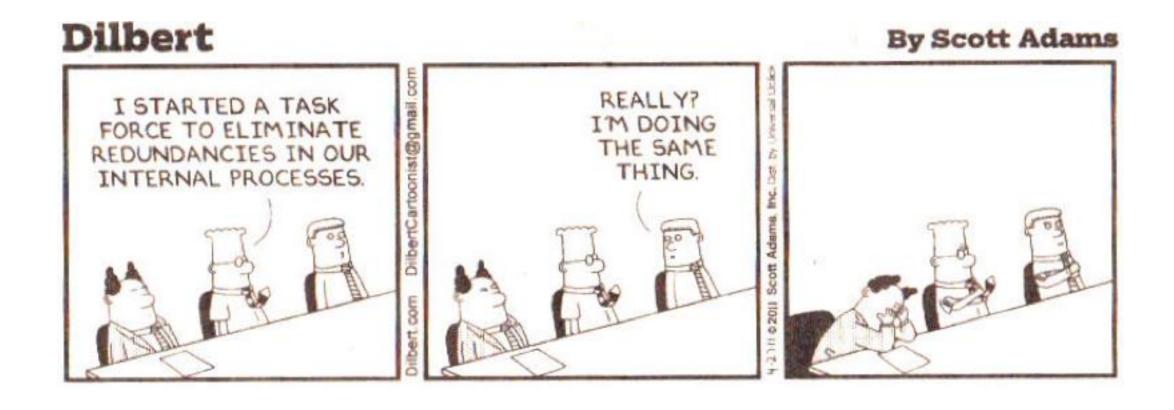
DIFFERING PACE



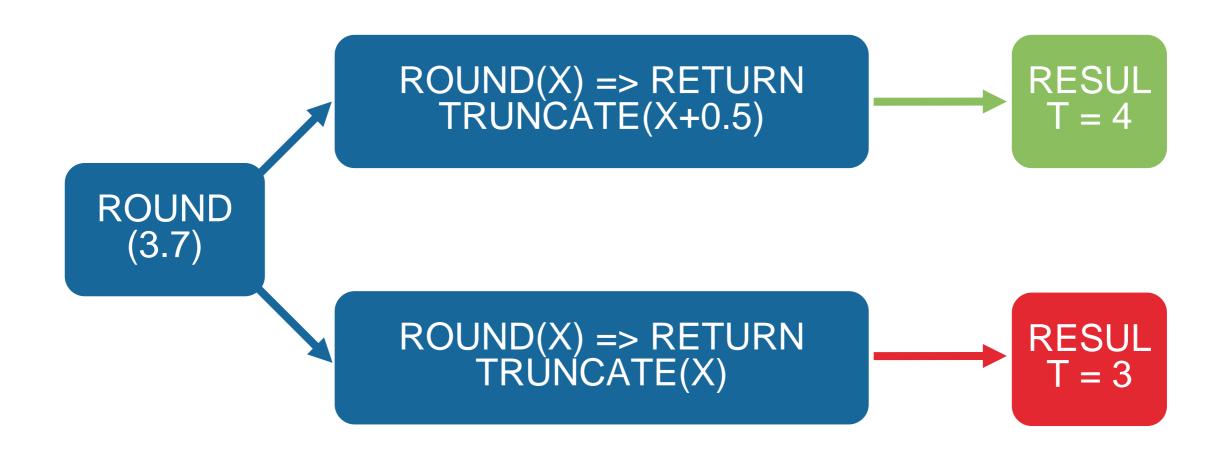
HARD TO SYNC RELEASES



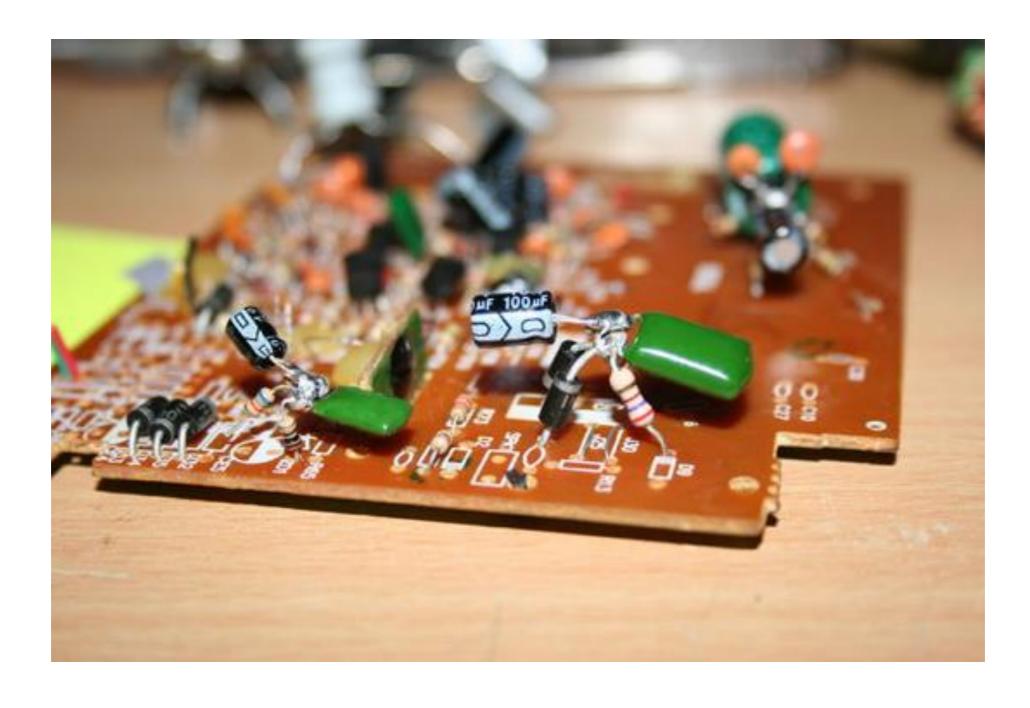
DUPLICATE WORK



INCONSISTENT RESULTS



BUGS FRAGMENTATION



EXPENSIVE



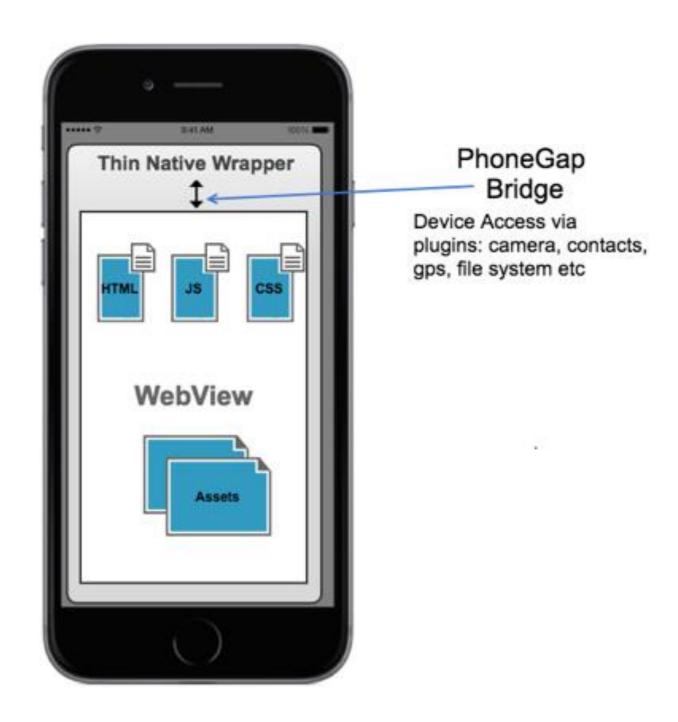
WHAT ARE MY ALTERNATIVES?

How React Native and NativeScript Change Your Mobile Strategy

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ALTERNATIVES





ALTERNATIVES

JAVASCRIPT

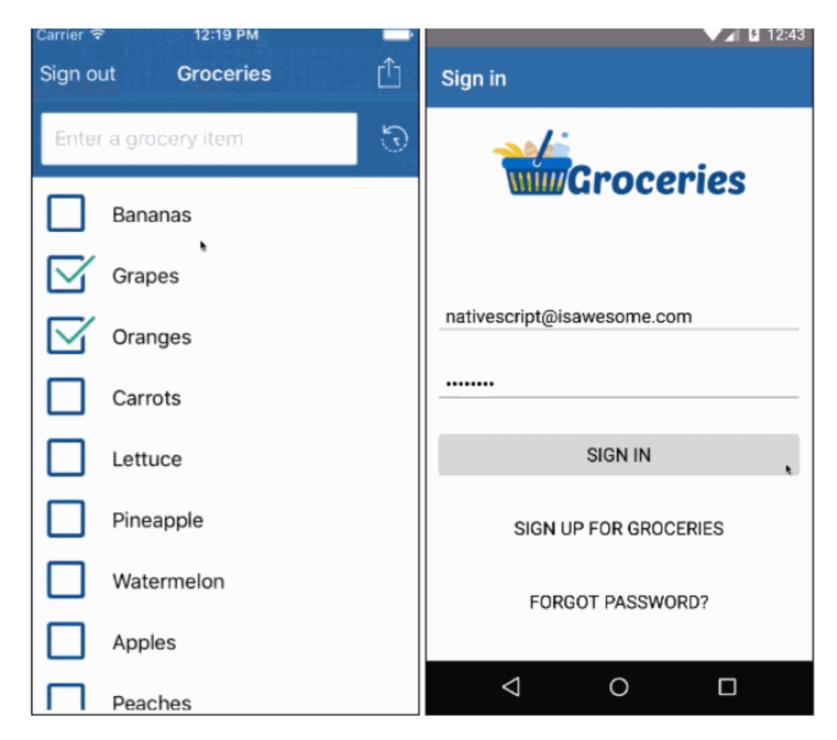
POPULAR FRAMEWORKS







NATIVE UI FOR BOTH ANDROID AND IOS



UI ABSTRACTION





SegmentedBar

Native Component

Android iOS

android.widget.TabHost UISegmentedControl

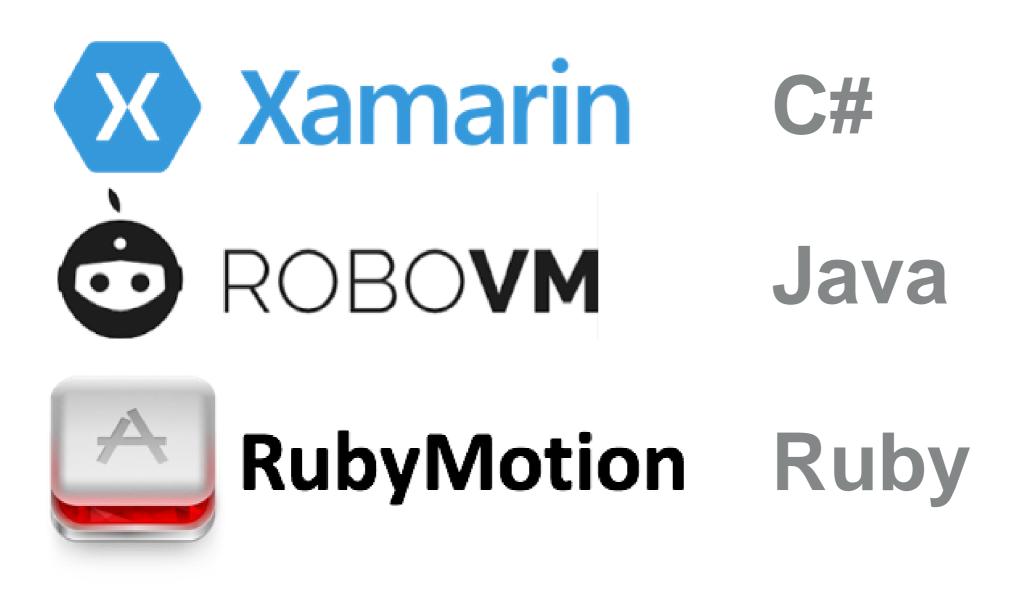
EXECUTION AT RUNTIME



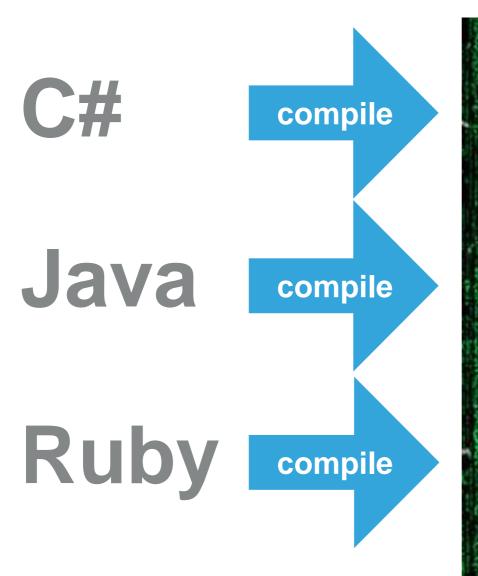
ALTERNATIVES

CROSS-

POPULAR FRAMEWORKS



COMPILE TO BINARY





PROS AND CONS How React Native and NativeScript Change Your Mobile Strategy

Progress

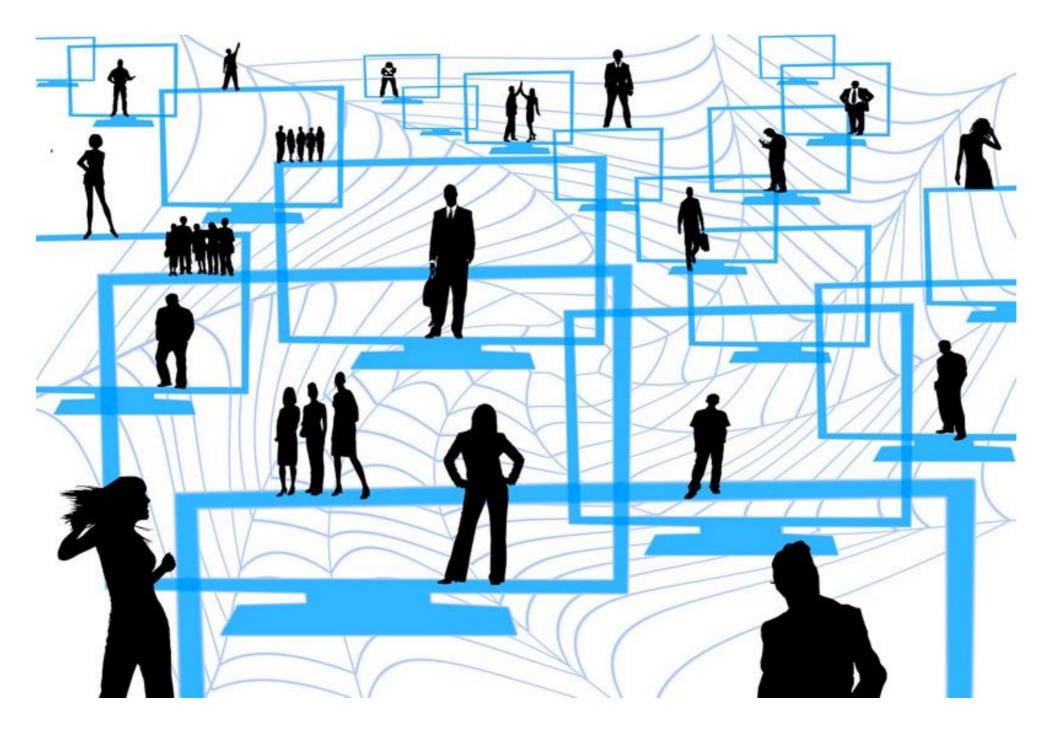
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PROS AND CONS

PERFORMANCE



USER EXPERIENCE



PROS AND CONS

WIDE REACH

AMAZON FIRE OS

BLACKBE RRY 10 FIREFOX OS

IOS

UBUNTU

ANDROID

WINDOWS PHONE

TIZEN

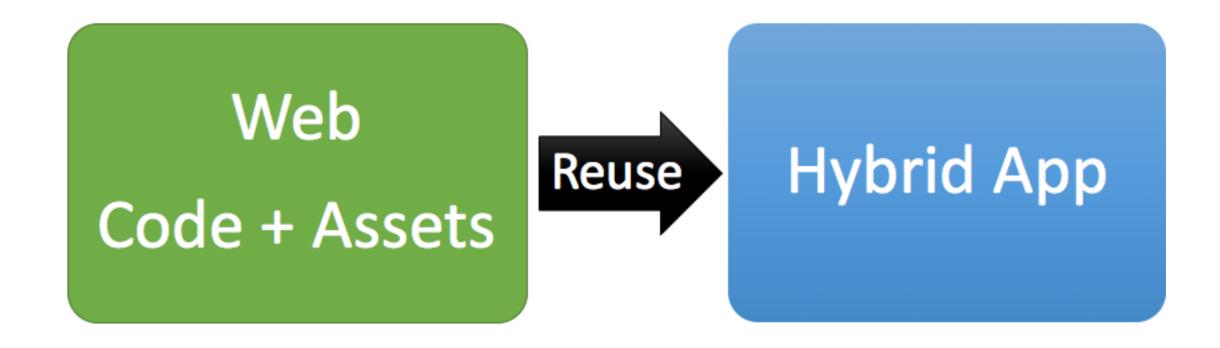
MATURE FRAMEWORKS







WEB CODE REUSE





WEB UI != NATIVE UI



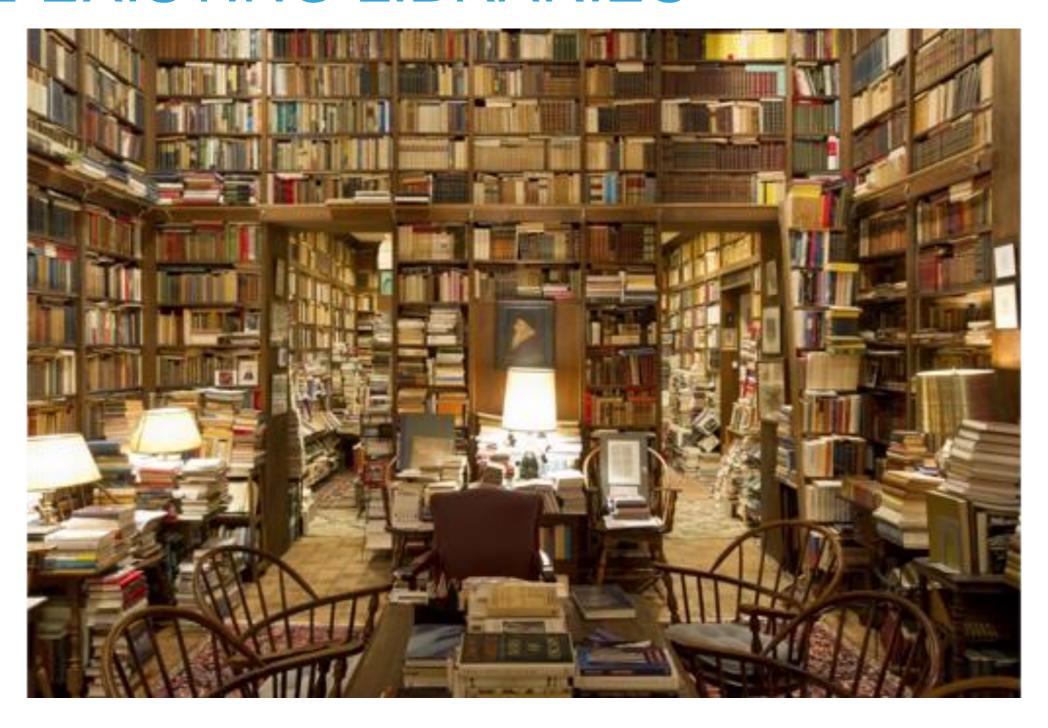
PROS AND CONS

CROSS-

PICK YOUR LANGUAGE



USE EXISTING LIBRARIES



COMPILE

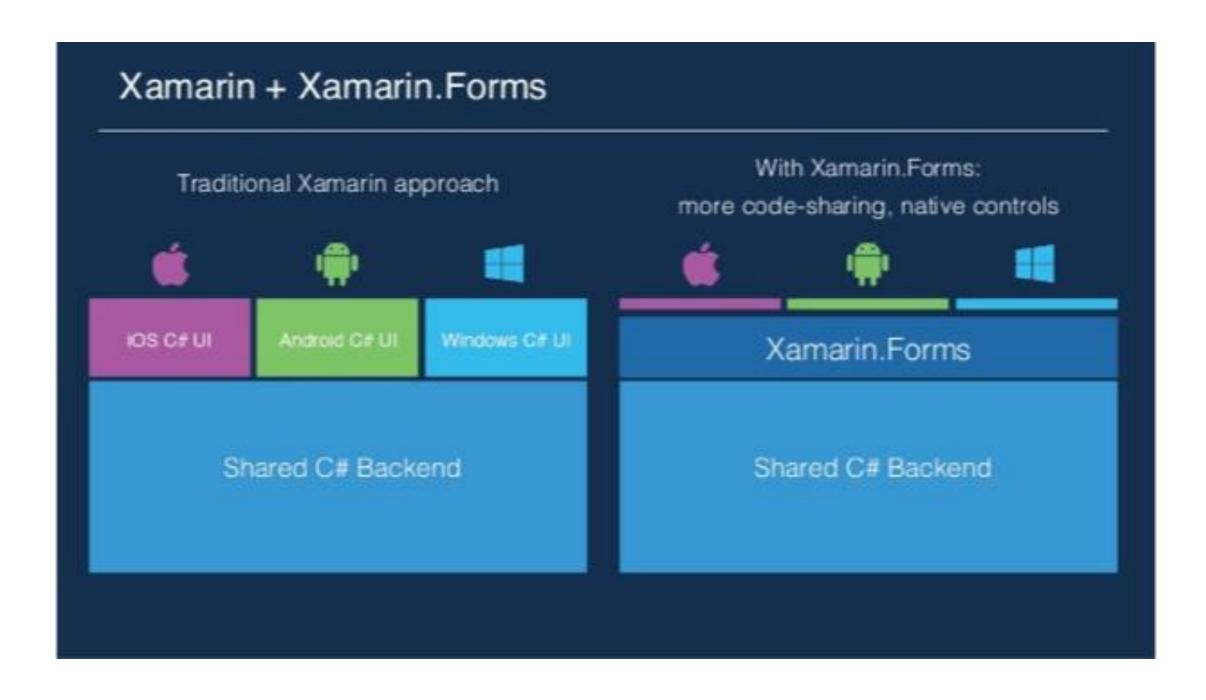


N700 Shinkansen

Max speed: 270 km/h

Time to reach max speed: 3 minutes

LIMITED CODE SHARING



PROS AND CONS

JAVASCRIPT

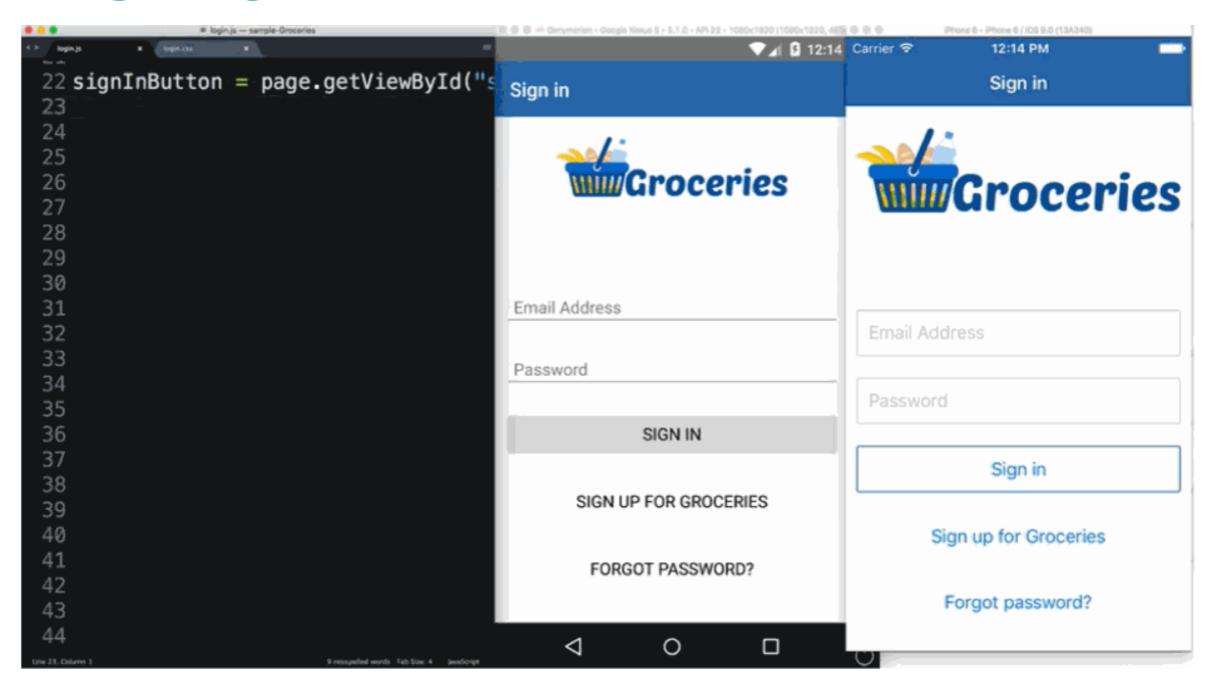
THE OLD GUIDELINES

Guideline	Native	Hybrid	JS Martive
Best performance + Native UI	*		
Web skill reuse + Fast development cycle		*	

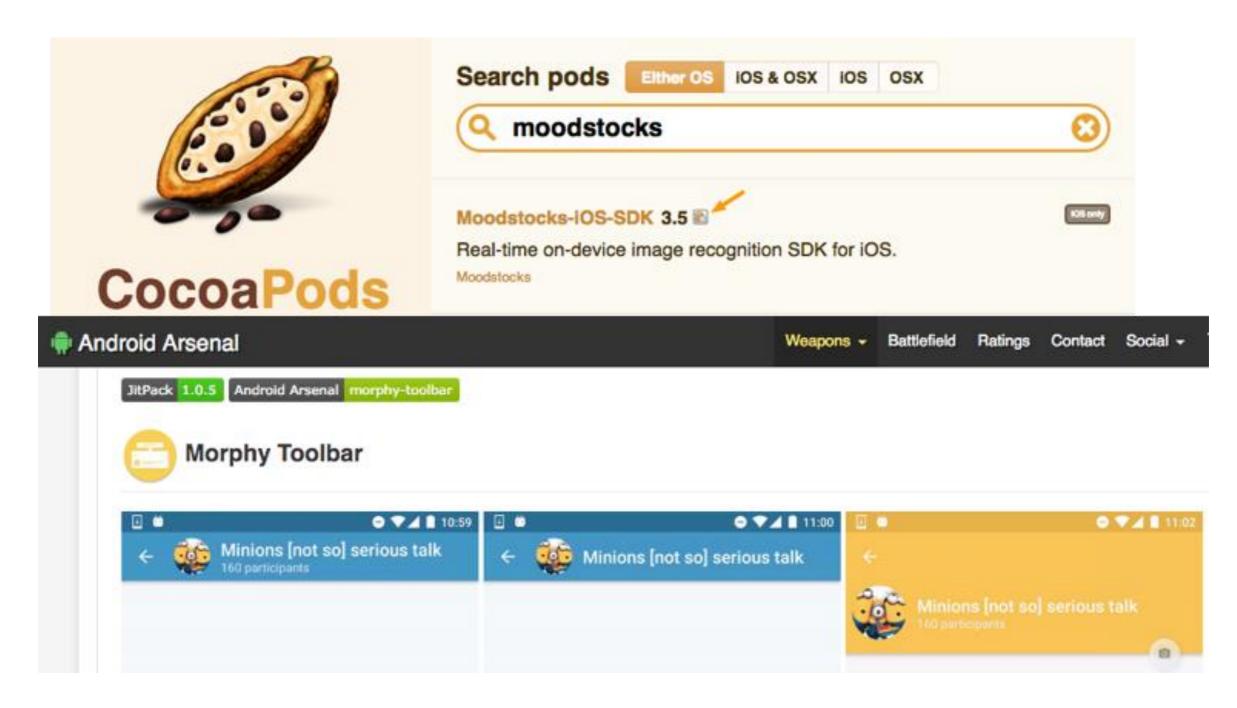
INTRODUCING THE NEW GUIDELINES

Guideline	Native	Hybrid	JS Native
Best performance + Native UI	*		*
Web skill reuse + Fast development cycle		*	*

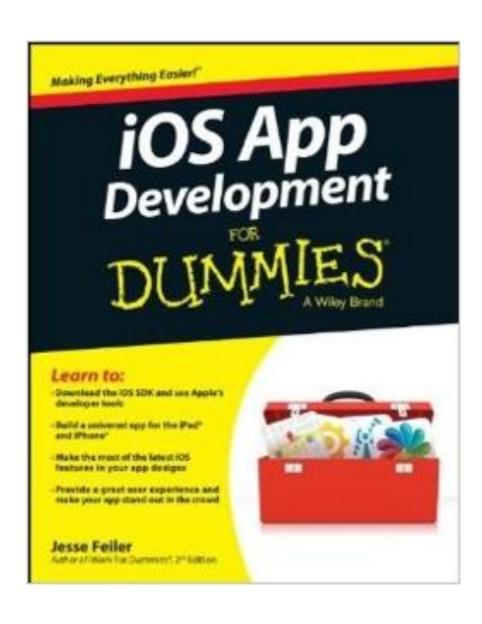
LIVESYNC

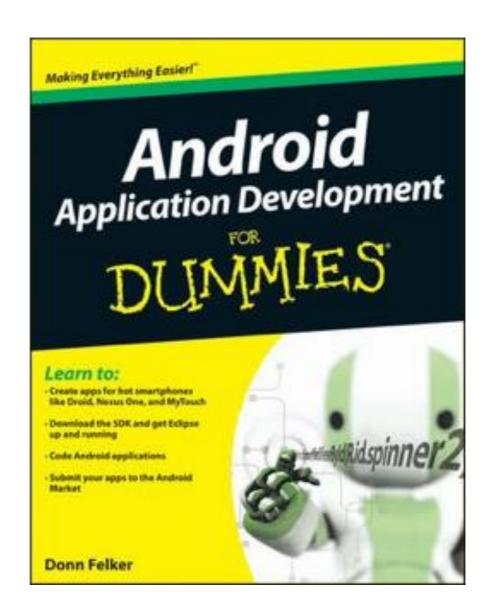


3RD PARTY LIBRARIES



PLATFORM SPECIFIC KNOWLEDGE





CSS TO STYLE YOUR APP

Supported Properties

This is the list of the properties that can be set in CSS or through the style property of each View:

CSS Property	JavaScript Property	Description
color	color	Sets a solid-color value to the matched view's foreground.
background-color	backgroundColor	Sets a solid-color value to the matched view's background.
font-size	fontSize	Sets the font size of the matched view (only supports device-independent units).

PROS AND CONS

OVERWIEW

HYBRID

QUICK DEV CYCLE

WEB CODE REUSE

LIVESYNC

NON NATIVE UI

PERFORMAN CE **NATIVE**

PERFORMAN CE

> NATIVE UI AND UX

MULTI PLATFORM CHALLENGE

> NO SKILL REUSE

PT NATIVE

PERFORMAN CE

WEB SKILL REUSE

NATIVE UI AND UX

> CODE REUSE

LIVESYNC

PLATFORM SPECIFIC COMPILE D

PERFORMAN CE

> NATIVE UI AND UX

YOUR OWN LANGUAGE

SKILL REUSE

PLATFORM SPECIFIC UI

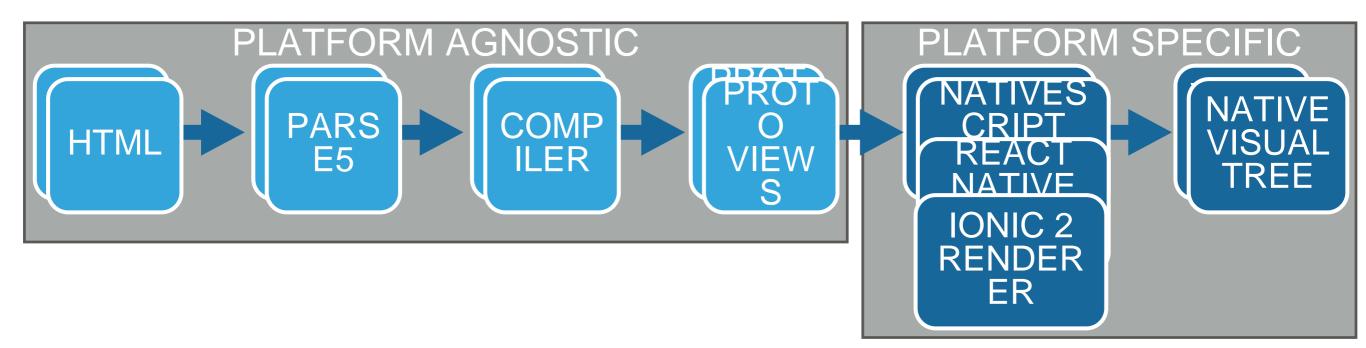
TRICKY DEBUGGING

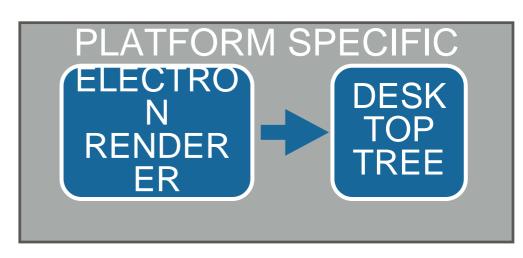


DESKTOP / WEB / MOBILE

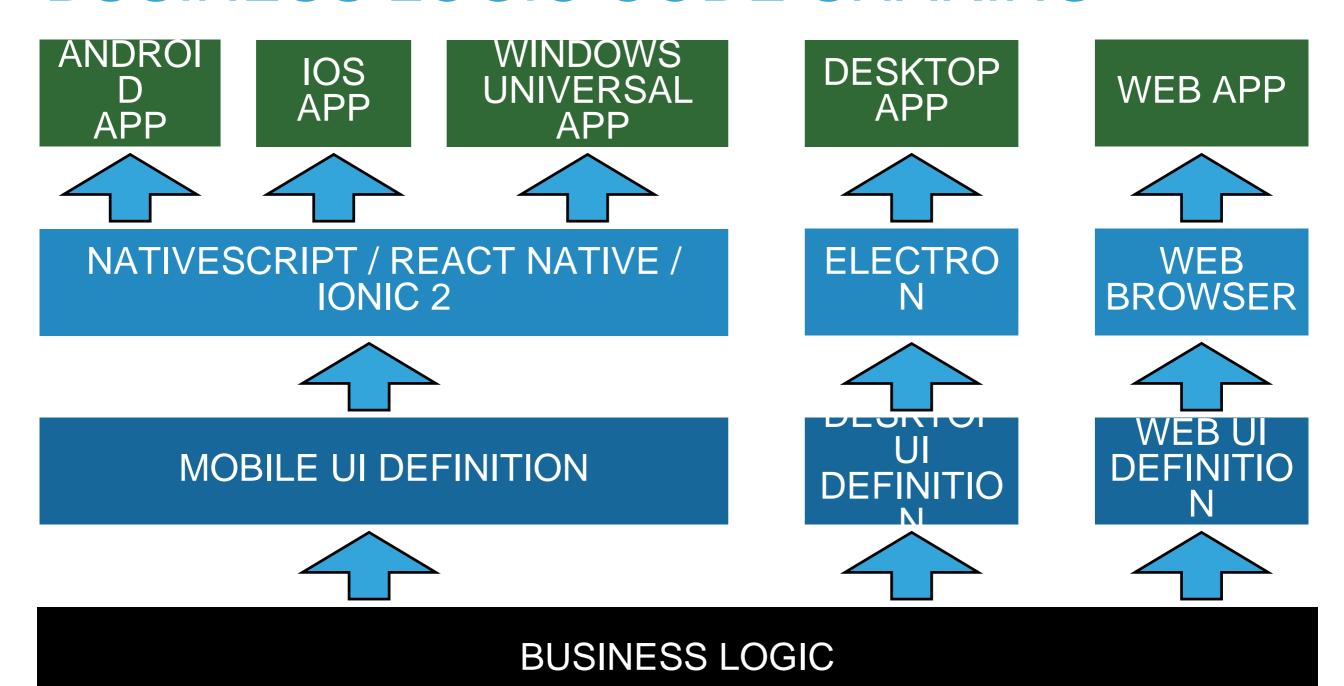


ANGULAR 2 - PLATFORM AGNOSTIC ARCHITECURE





BUSINESS LOGIC CODE SHARING

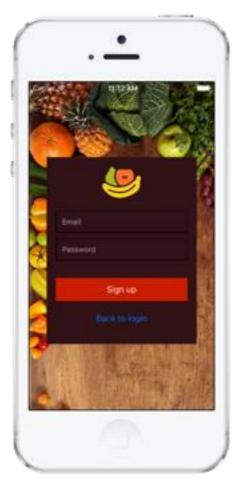


DEMO

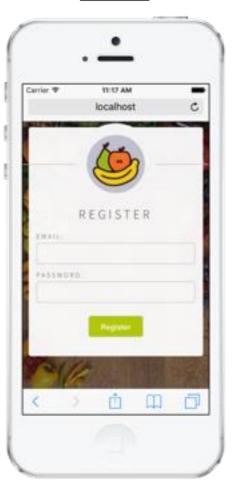










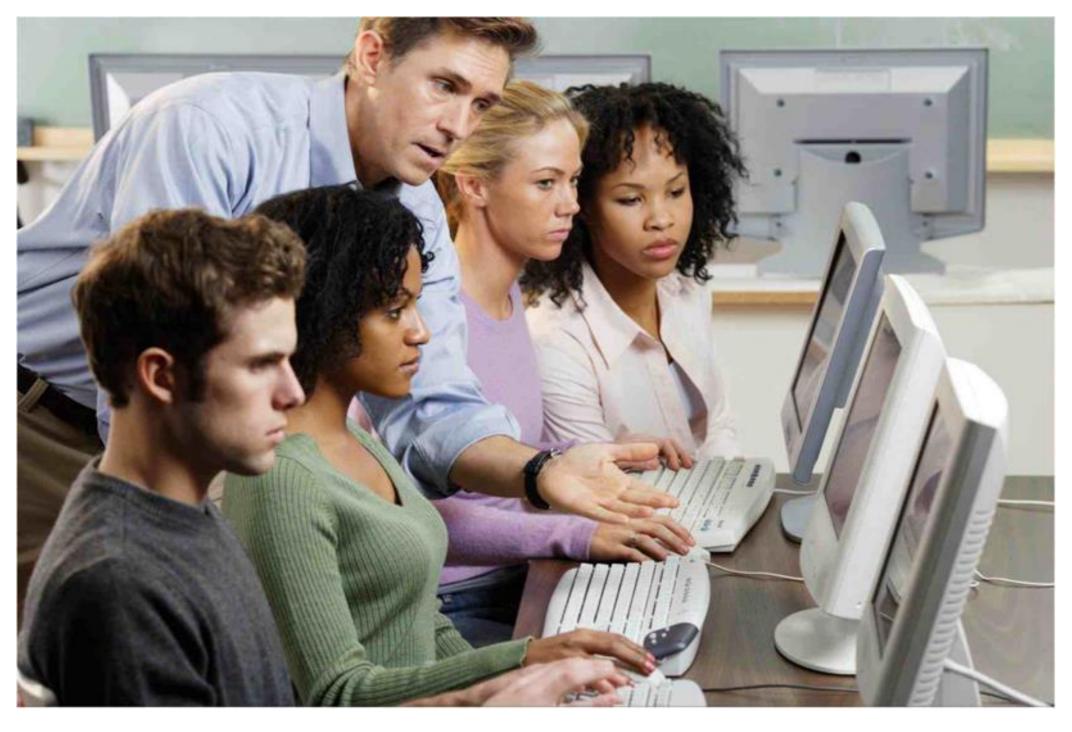


HOW DOES THAT AFFECT How React Native and Native Script Change Your Mobile Strategy

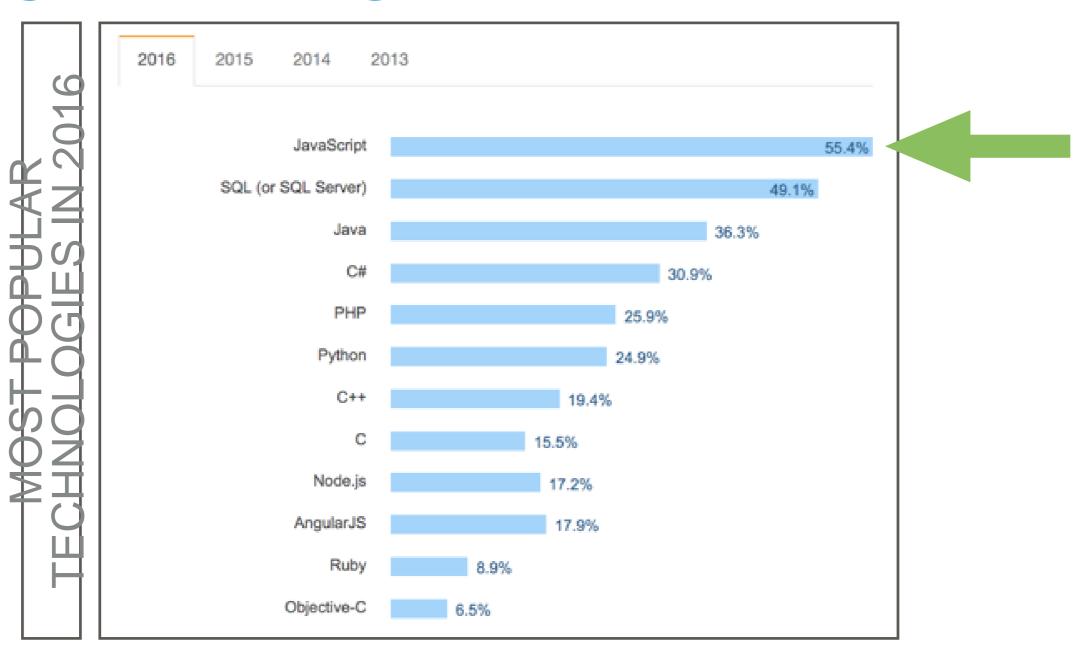
Progress

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ONE CORE DEV TEAM



EASIER HIRING



http://stackoverflow.com/research/developer-survey-2016#technology-most-popular-technologies

OPTIMAL TEAM SETUP









QUICKER TURNAROUND = MORE



ANGULAR 2 -> CODE SHARING BEYOND MOBILE





COME AND TALK TO US AT #B37