

NATIVE MOBILE APPS

with

NATIVESCRIPT

**HELLO, I'M EMIL ÖBERG,
I AM NOT A DEVELOPER.**



m

monator.com



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**NATIVE-NATIVE
CROSS COMPILED
WEB BASED
JAVASCRIPT RUNTIME**

NATIVE
NATIVE



Java
Objective C
Swift

CROSS
COMPILED



Xamarin

C# → CIL

**WEB
BASED**

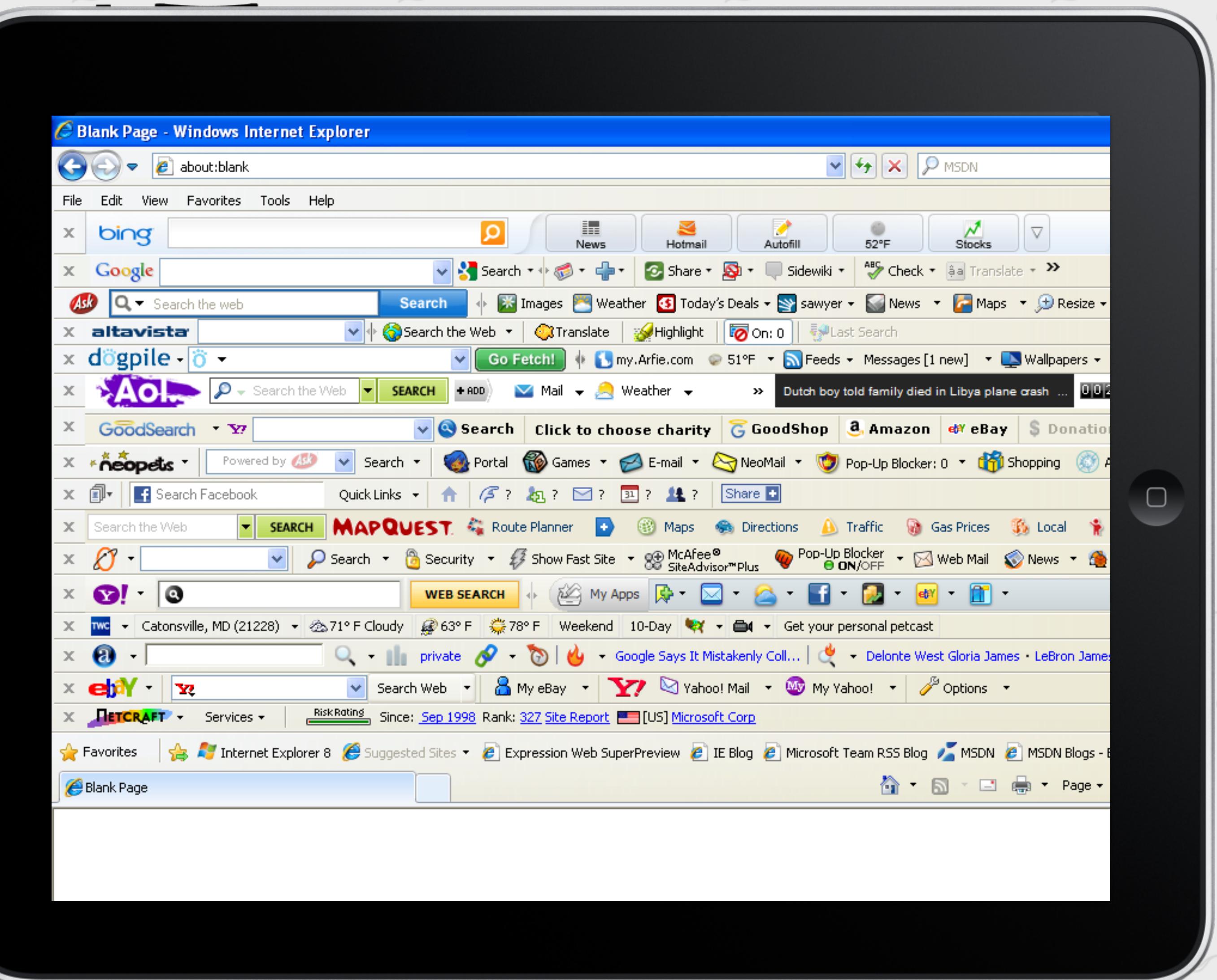


PhoneGap



**APACHE
CORDOVA™**

WEB BASED



**WEB
BASED**



**WEB
BASED**



Supersonic

B
Bootstrap



ANGULARJS
by Google

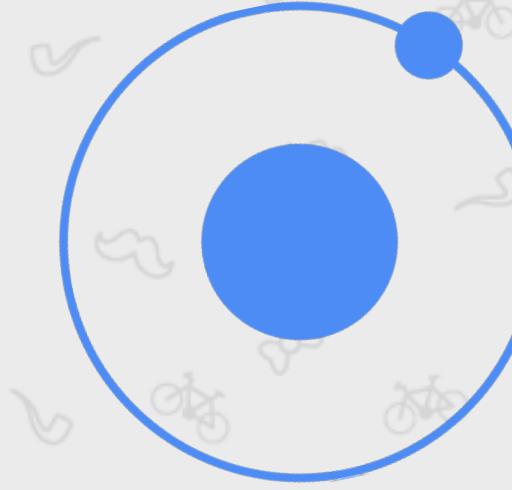


Kendo UI
THE ART OF WEB DEVELOPMENT



jQuery
mobile

UNDERSCORE.JS



ionic

**WEB
BASED**

HTML + CSS + JS
No more, no less



JAVASCRIPT
RUNTIME

1. YOU WRITE JS
2. JS RUNS IN VM
3. API CALLS ARE DISPATCHED TO JAVA/ OBJECTIVE C API'S
4. IOS/ANDROID DO WHAT'S ASKED

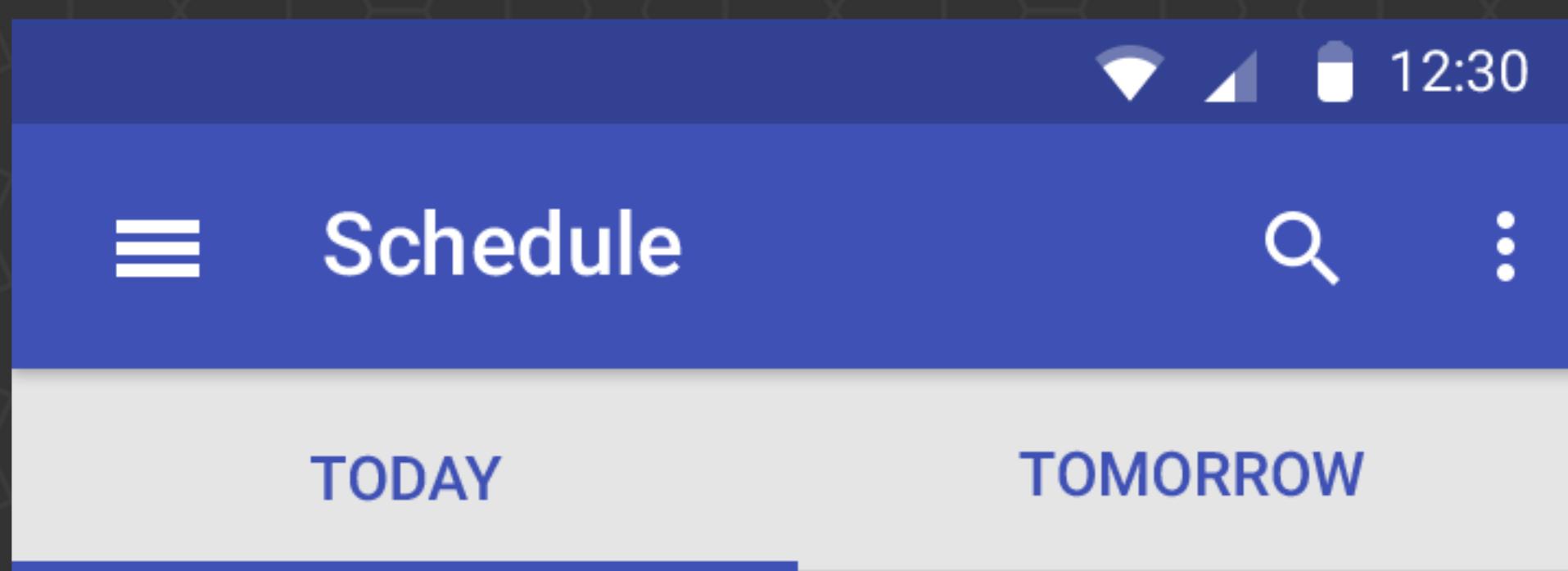
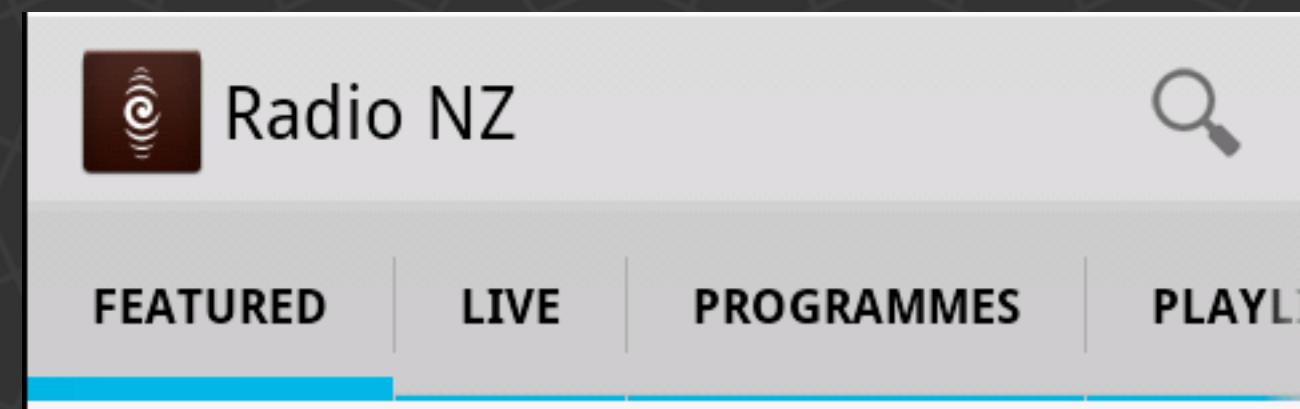
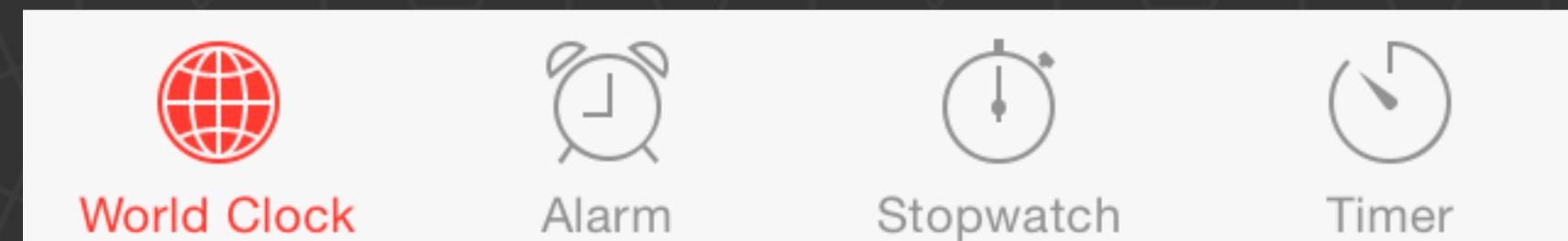
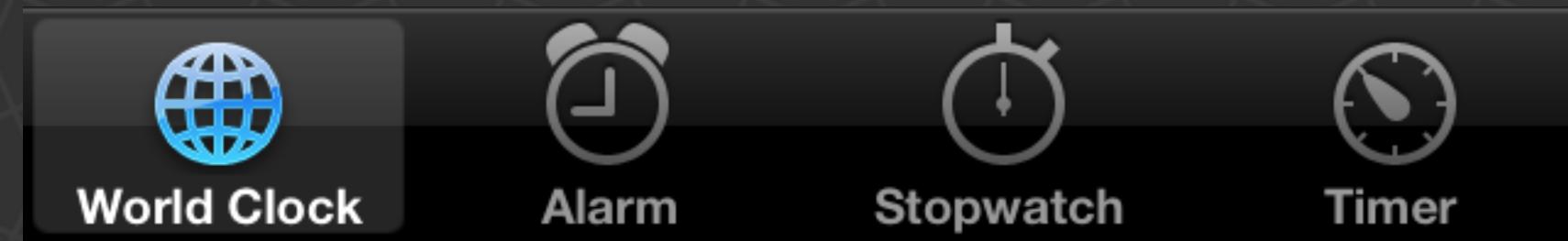
PLZ give tab bar

IOS OLD

IOS 8

ANDROID OLD

ANDROID 5



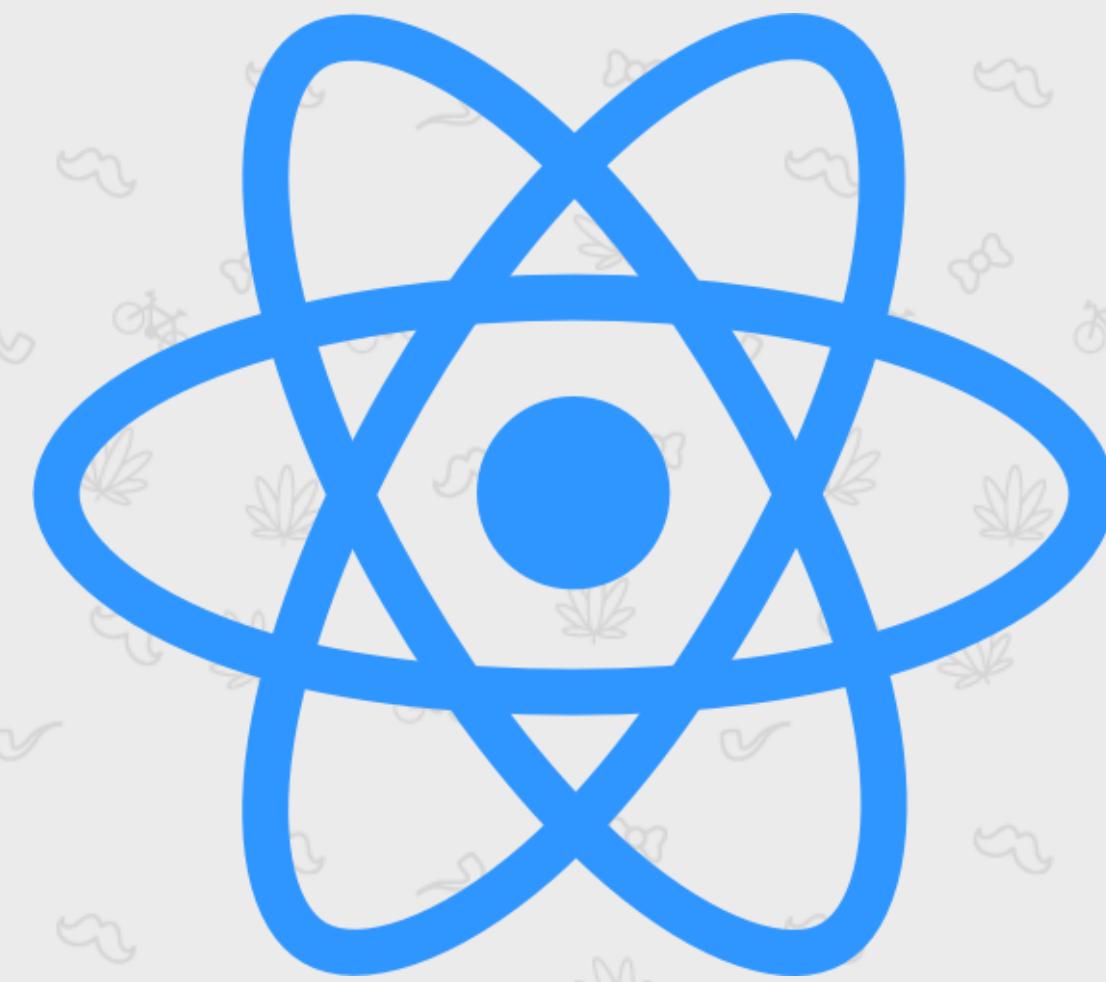


NO DOM

THE SUSPECTS



Appcelerator
Titanium



Facebook
React Native



Telerik
NativeScript

Why not native?

NOT 100% CODE REUSE

Learn once, write anywhere

MUST LEARN NEW THINGS

EMERGING TECHNOLOGIES

Why native?

PERFORMANCE

LOOK AND FEEL

ACCESS FULL DEVICE

SKILLN REUSE

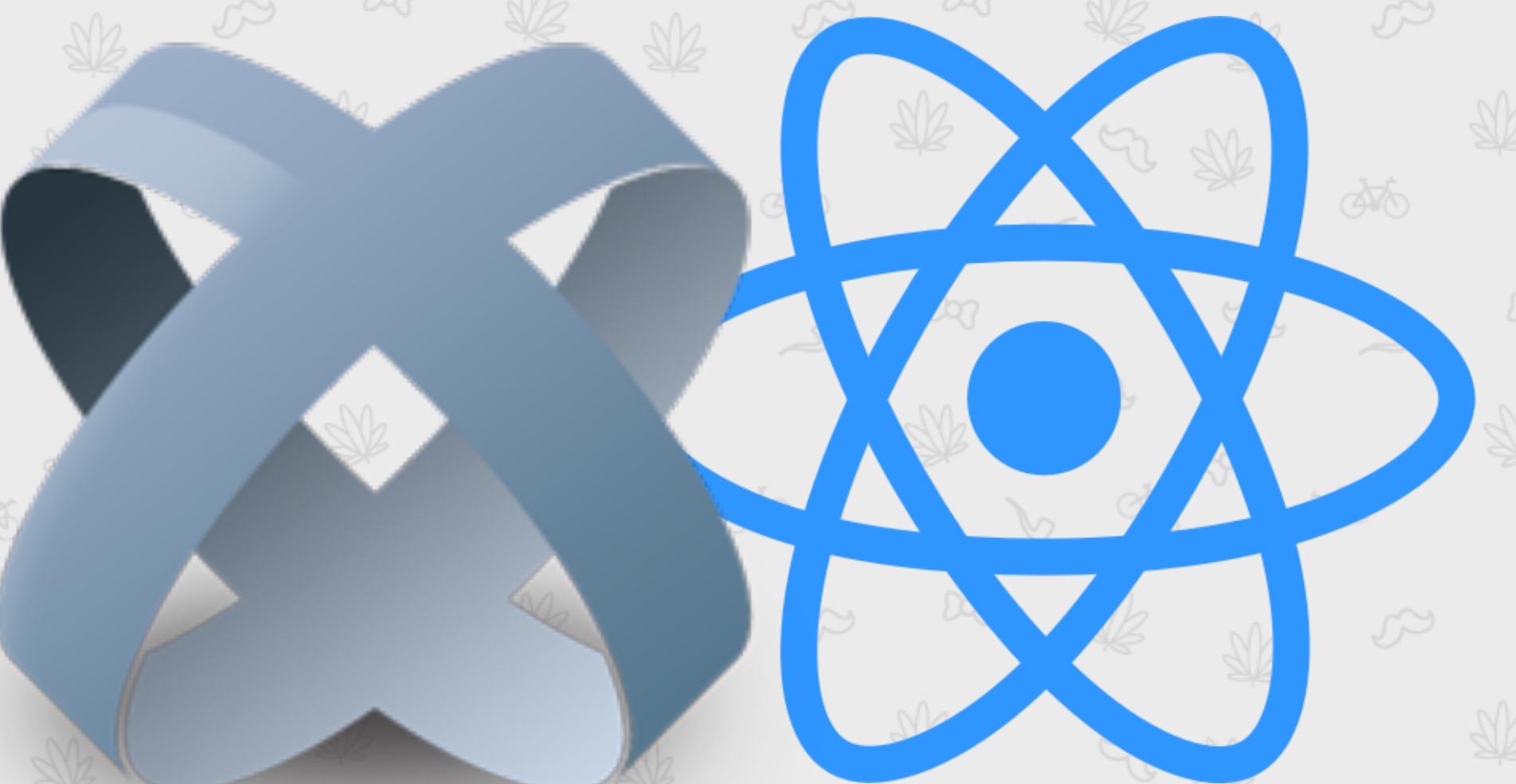
Standards-based
JavaScript & CSS

CODE N REUSE

NPM Modules & 3rd-party iOS/Android Libraries



**Full and direct access to
iOS/Android API**



API WRAPPER

⋮



NO WRAPPER!

**NOT IMPLEMENTED?
NEW ANDROID/IOS?
NEW APPLE WATCH/TV?**

NO PROBLEMS!

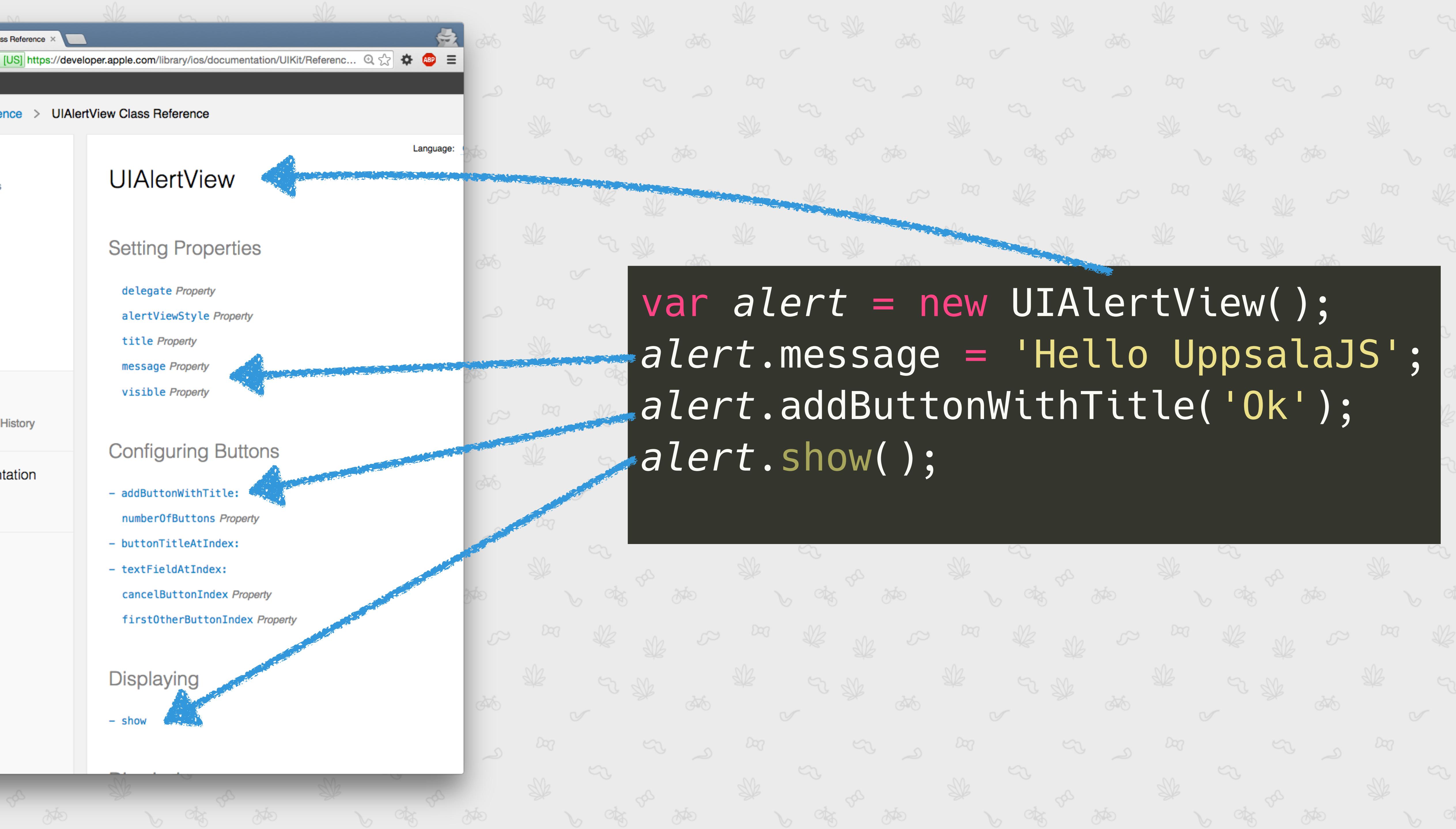
OPEN  **SOURCE**

ANDROID

```
var time = new android.text.format.Time();
time.set(1, 0, 2015);
console.log(time.format('%D'));
```

IOS

```
var alert = new UIAlertView();
alert.message = 'Hello UppsalaJS';
alert.addButtonWithTitle('Ok');
alert.show();
```





N MODULES

```
var dialogs = require("ui/dialogs");
dialogs.alert("Your message").then(function() {
  console.log("Dialog closed!");
});
```



LOTS OF NATIVESCRIPT PROVIDED MODULES

MODULES AVAILABLE ON NPM

EASY TO WRITE



nativescript-clipboard eddyverbruggen

A clipboard module for use in NativeScript apps. You can copy and paste text from and to the clipboard.

★ 1 v1.1.2

NativeScript, Clipboard, Pasteboard, Copy, Paste, Copy-Paste

nativescript-tracing nathanaela

A Simple tracing NativeScript module for Android and iOS

★ 0 v0.0.3

NativeScript, Tracing

nativescript-websockets nathanaela

A WebSocket NativeScript module for Android

★ 0 v1.0.0

NativeScript, WebSockets, Development, JavaScript, Android, iOS, Sockets, Websocket

nativescript-appversion eddyverbruggen

Read the version of your NativeScript app

★ 1 v1.1.1

NativeScript, App Version, Version, CFBundleShortVersionString

nativescript-email eddyverbruggen

Email plugin for your NativeScript app

★ 1 v1.1.1

NativeScript, Mail, Email, Draft, Compose, MailComposer

nativescript-appavailability eddyverbruggen

A NativeScript plugin to check for availability of other apps on the device.

★ 1 v1.1.1

NativeScript, App Availability, Availability, Can open URL, Check Activities, Other app

nativescript-google-sdk valio.stoychev

Contains instructions for adding the Google SDKs to a NativeScript project.

★ 0 v0.1.18

NativeScript, google, sdk

nativescript-animated-menu alexziskind1

A NativeScript module to add animated side menu to your apps

★ 0 v0.1.5

NativeScript

LET'S GET KICKING

1



www.nativescript.org

2



npm install -g nativescript

3

ANDROID

JDK, APACHE ANT, ANDROID SDK

IOS

XCODE, XCODE CLI TOOLS, IOS SDK

LET'S GET CODING!

RESOURCES

THIS
DEMO

<https://github.com/emiloberg/Uppsala.js-NativeScript-demo>

WEB

<http://www.nativescript.org>

GROUP

<http://groups.google.com/d/forum/nativescript>

GITHUB

<http://github.com/NativeScript/NativeScript/issues>

TWITTER

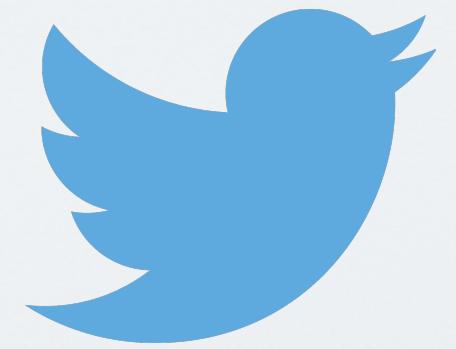
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