

# Professional Cross-Mobile Platform Development



# Professional Cross-Platform Mobile App Development



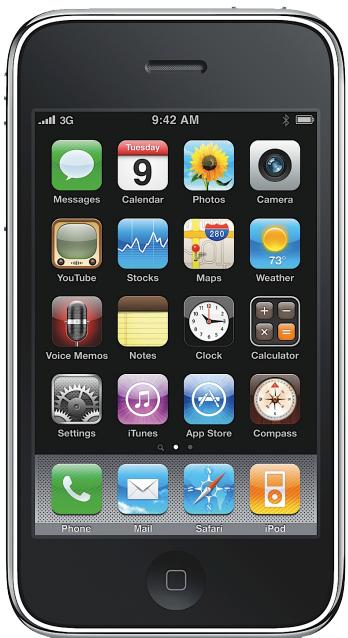
# Etienne

Consultant & Developer



# Backgrounds

**...the smartphone wars and you**















HOW STANDARDS PROLIFERATE:  
(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC)

SITUATION:  
THERE ARE  
14 COMPETING  
STANDARDS.

14?! RIDICULOUS!  
WE NEED TO DEVELOP  
ONE UNIVERSAL STANDARD  
THAT COVERS EVERYONE'S  
USE CASES.

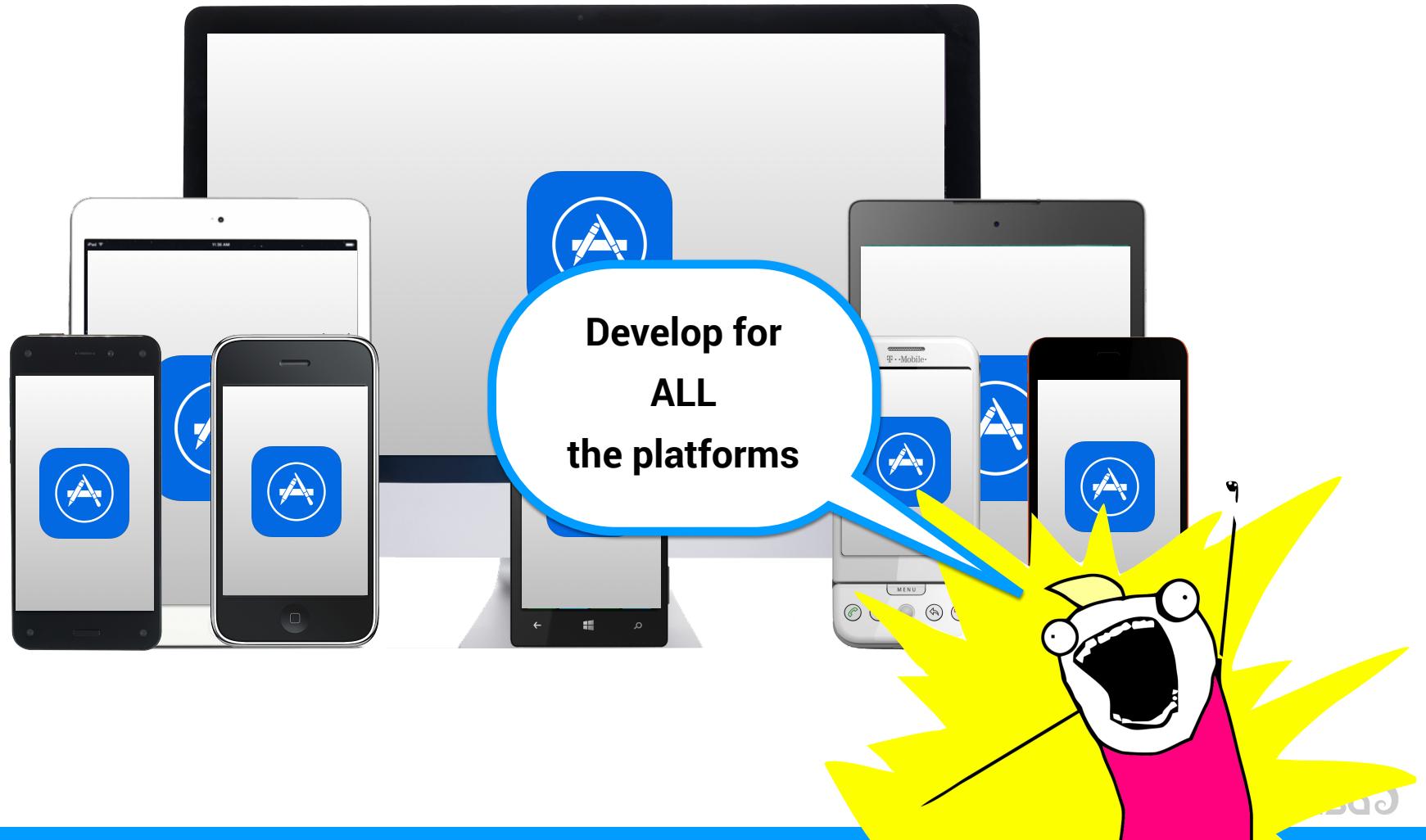


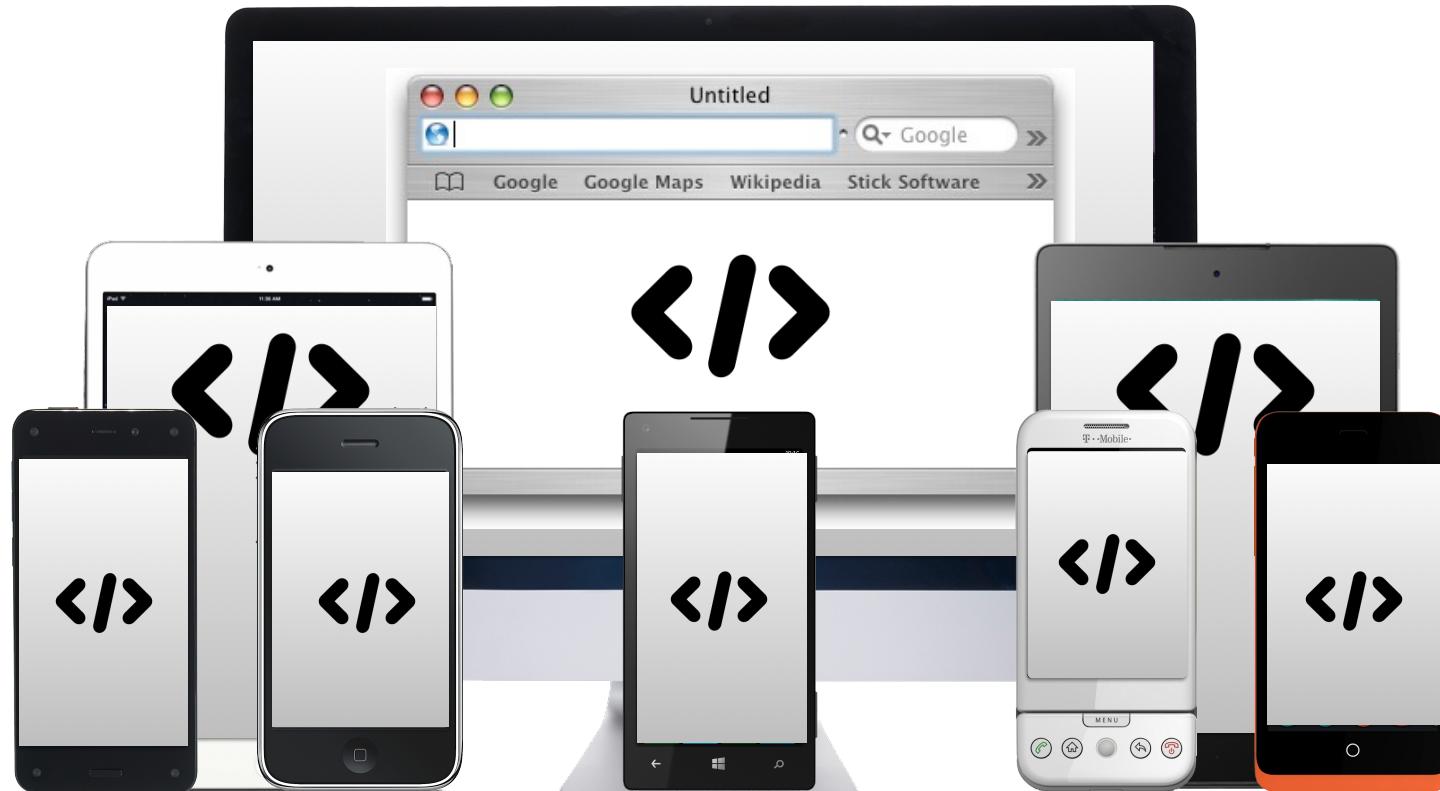
YEAH!

Soon:

SITUATION:  
THERE ARE  
15 COMPETING  
STANDARDS.

<http://xkcd.com/927/>









	WebApp	Native	Hybrid
<b>One code base</b>	✓	✗	✓
<b>Native API's</b>	✗	✓	✓
<b>Offline Capable</b>	✗	✓	✓



*jQTouch*





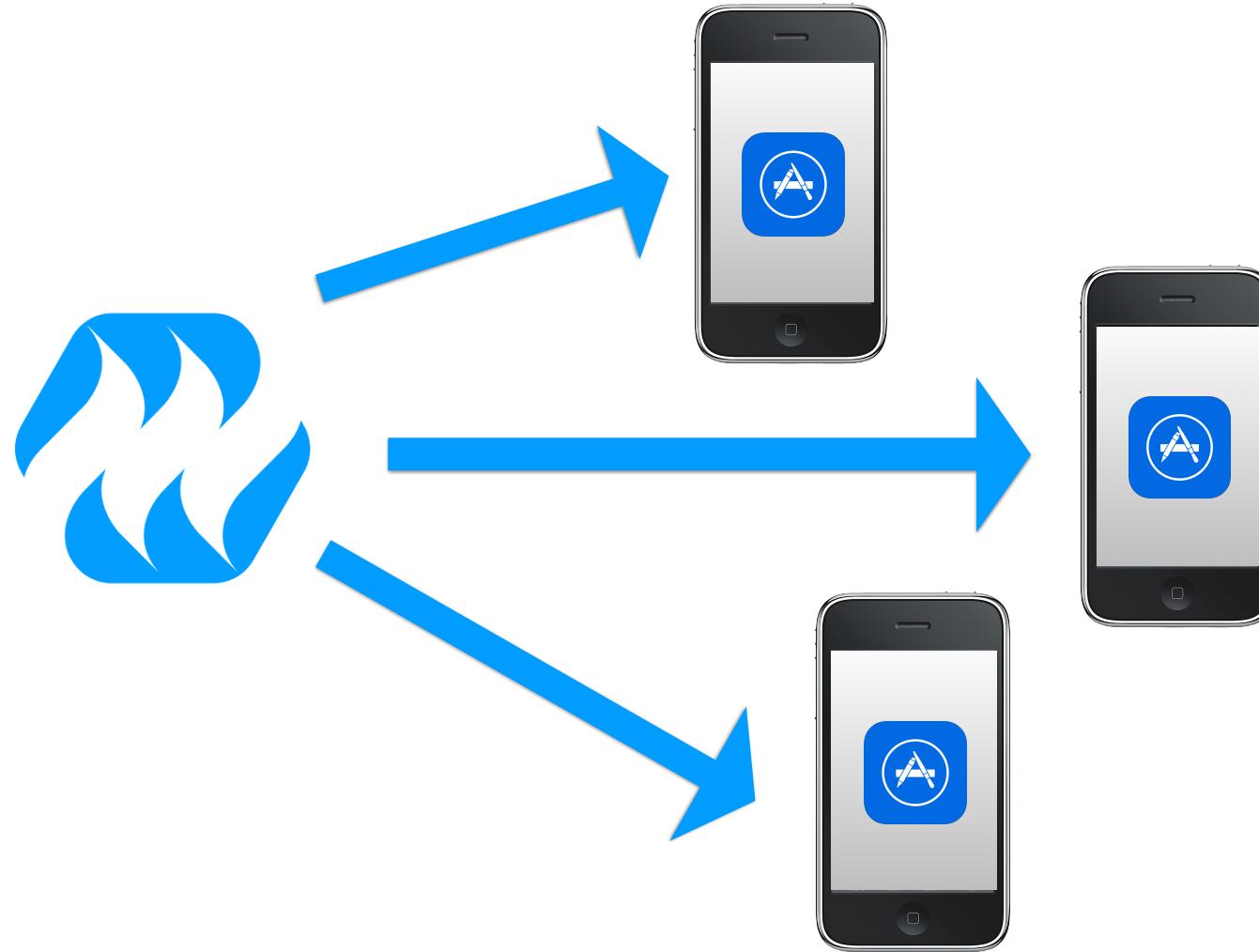
# Maji Mobile

**...a full stack opinionated solution**

**"An opinionated collection of frameworks and tools that offers a full-stack, ready-to-go, hybrid app environment."**



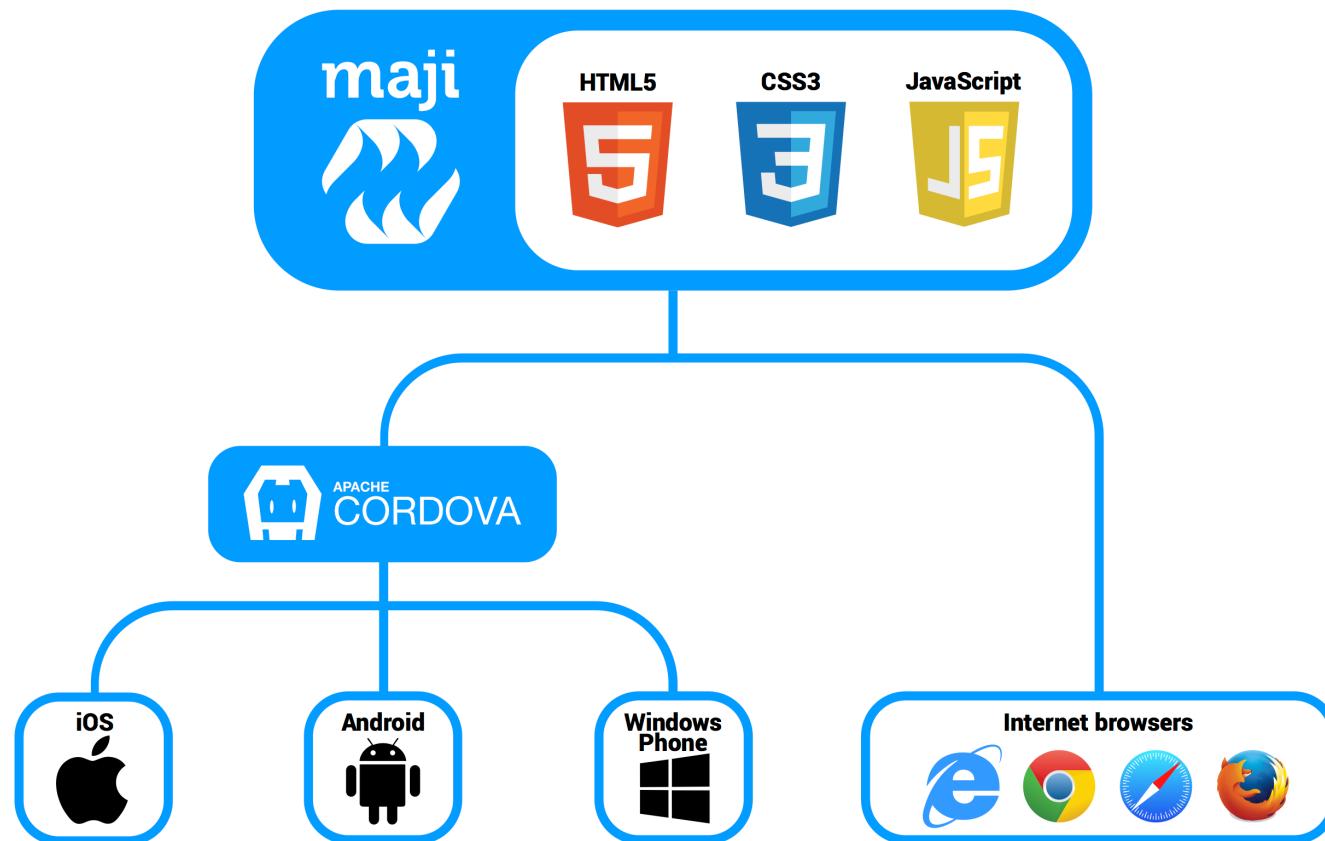
@\_pascalw



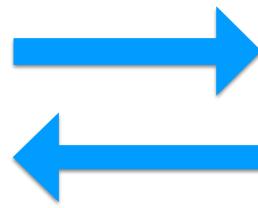
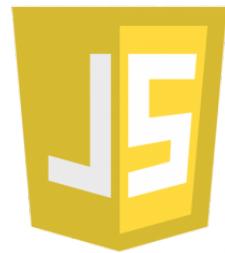
What is a Maji App?



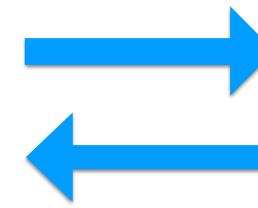




## Front-End



## Apache Cordova

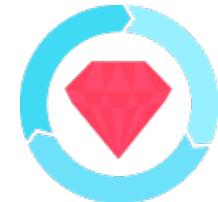
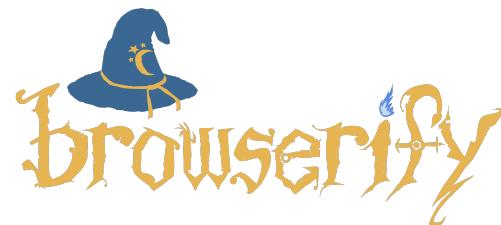


## Mobile Platform

- Camera
- Address Book
- Music
- File System
- TouchID
- ...



Frameworks in your Maji App



- Lower maintenance costs
- Fully automated test suite and deployment
- Bootstrap your project with a head start
- Full-stack solution
- No vendor lock-in



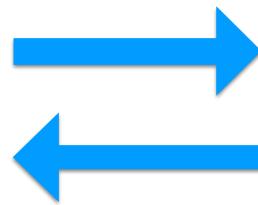
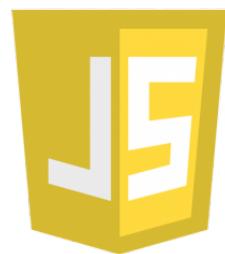
# Demo



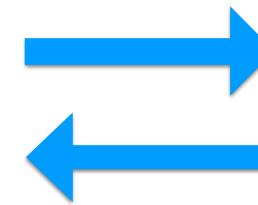
# Mobile Features

**...only add that what you need**

## Front-End



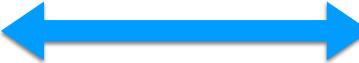
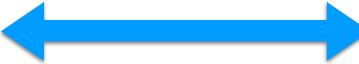
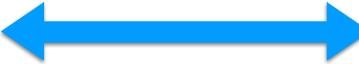
## Apache Cordova



## Mobile Platform

- Camera
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- Camera  • Camera
- Contacts  • Address Book
- Geolocation  • GPS
- FileSystem  • File System
- touchid  • TouchID
- ...

## Apache Cordova Plugins

- Apache Plugin APIs [http://cordova.apache.org/docs/en/4.0.0/cordova\\_plugins\\_pluginapis.md.html#Plugin%20APIs](http://cordova.apache.org/docs/en/4.0.0/cordova_plugins_pluginapis.md.html#Plugin%20APIs)

## Community Plugins

- Plugin Registry <http://plugins.cordova.io/>



# Best Practices

**...some tips of the trade**



# Don't emulate Native UI



**Use CSS3 Animations and Transitions**  
**Use WebGL**



**Loading data from a server?  
Read up on Cordova Whitelist, CORS and JSONP**



# Use local data



**Always expect a user to be offline**



# Always respond to user input



**No bugs / “Just Work”**



# Detect versions and degrade gracefully



# Don't use heavy libraries



# Use Chrome to emulate different platforms



# Want to know more?

...let me quench your thirst



Find us here

<http://majimobile.nl>

<http://github.com/kabisaitc/maji>





# RocketConf

11 - 13 November, 2015 – Amsterdam, The Netherlands