



# jQuery Mobile

Zurich, Oct 21 2011

max firtman  
[@firt firt.mobi](http://firt.mobi)

# Danke





<http://akosma.com>

@akosma

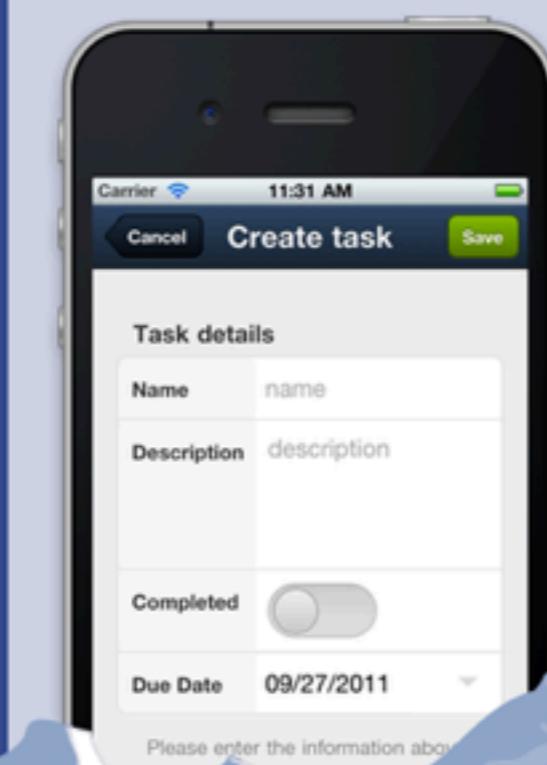
<http://invisible.ch>

@jcfischer

# Learn more?

# CROSS-PLATFORM MOBILE DEVELOPMENT

## MOBILE DEVELOPMENT with JQUERY, SENCHA, PHONEGAP



Today, having a mobile application online is a "must." But there are multiple platforms to write for, each with their own language, idioms and pitfalls. Luckily there is a simple solution that allows to write once and deploy on all modern mobile devices: HTML5 and JavaScript.

### Easy, quick dev of "native" applications

This three day intensive course takes you from being a web developer to being a mobile developer. We take you through the basics of writing HTML5 applications for mobile devices, cover the additional APIs that allow you to access the functions of the devices (like storage, geo-location, accelerometers) and put you in control of deploying an application to either iOS or Android devices.

### WHO

Simon Kasma

<http://mobile-training.ch>

# CROSS-PLATFORM MOBILE DEVELOPMENT

## MOBILE DEVELOPMENT with JQUERY, SENCERIUS, PHONEGAP



Today, having a mobile application is almost a must. You have multiple platforms to write for. Luckily there are tools available to make life easier and deploy on all

15. - 17. November

### Course Overview

This three day course takes you from being a web developer to a mobile developer. We take you through the basics of writing HTML5 applications for mobile devices, cover the additional APIs that allow you to access the functions of the devices (like storage, geo-location, accelerometers) and put you in control of deploying an application to either iOS or Android devices.

### WHO

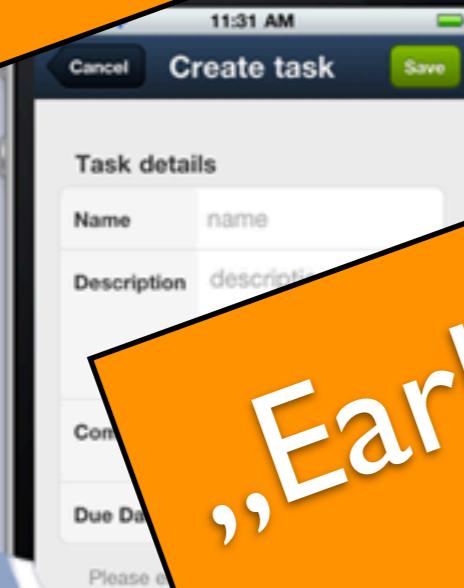
Simon Krasma

<http://mobile-training.ch>

# CROSS-PLATFORM MOBILE DEVELOPMENT

MOBILE DE

PHO



15. - 17. November

„Early Bird“ or Ichopen  
CHF 1400

<http://mobile-training.ch>

# who am I?

mobile+web developer  
[mobilexweb.com](http://mobilexweb.com) blog



---

NOKIA Developer  
Certified Trainer



@firt



# where?



# where?

## buenos aires ~ argentina



# where?

## buenos aires ~ argentina

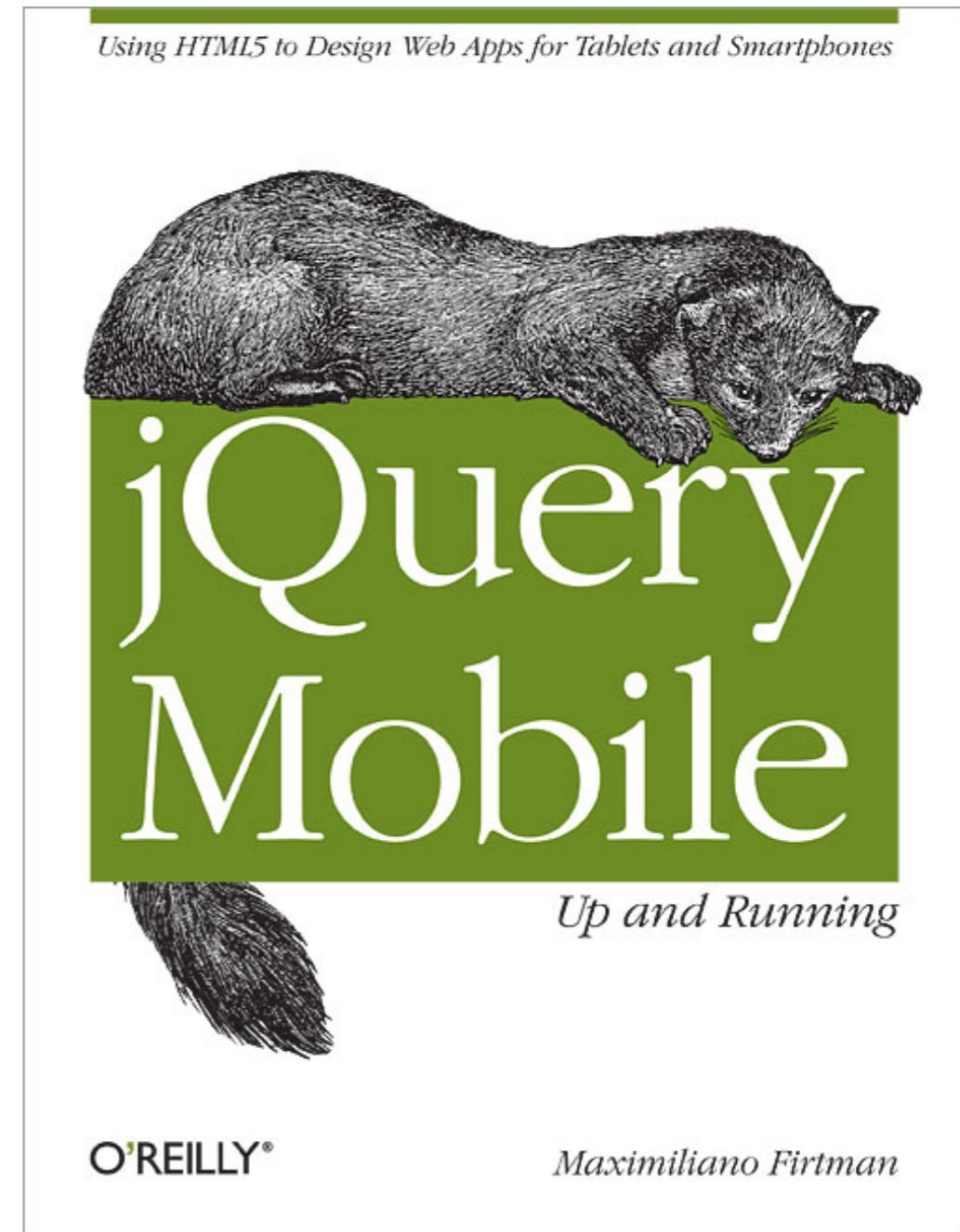
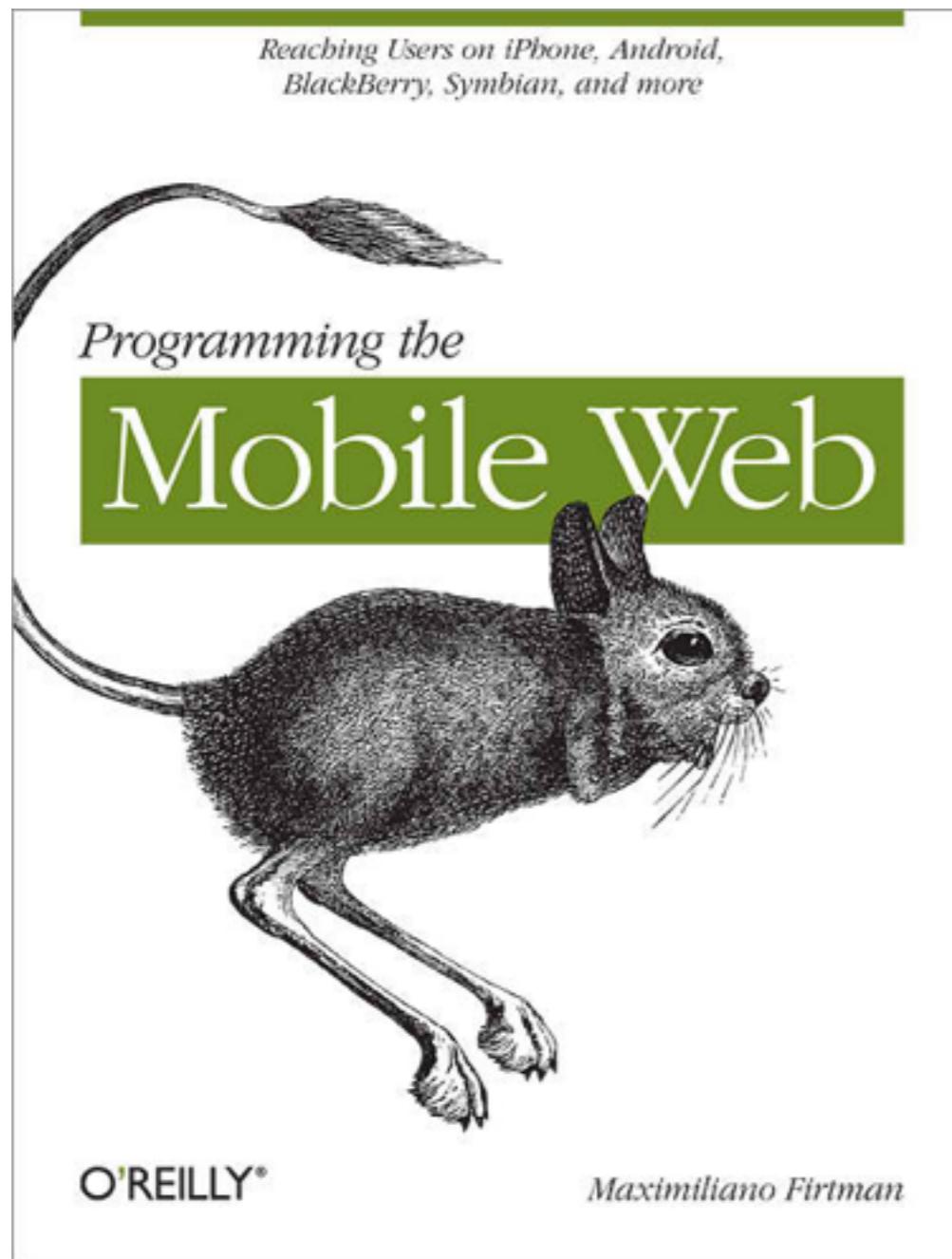


patagonia  
football  
meat & wine  
tango

# books



Image from my house



**Early Release**

*Using the Latest Today*



O'REILLY®

*Estelle Weyl  
& Maximiliano Firtman*

coming soon...  
also by @estellevw

# MOBILE HTML



Do not program conditionals per platform or version. Always use feature detection.

This list is in progress. New tests, new features, more specificity of each feature and more mobile browsers soon!

If you want to help on the test, [contact me](#).

by [firt](#) | [Updates on Twitter](#) | [Blog](#)

Trying to understand HTML5 compatibility on mobile and tablet browsers

Feature	Safari on iOS	Android Browser		BlackBerry Browser		Internet Explorer	Opera		Firefox	webOS Browser	Symbian Browser
Version tested	iPhone, iPad	Phones (1.0-2.3)	Tablets (3.0+)	Phones	Tablet	Windows Phone	Mobile	Mini	Android		Nokia phones
Minimum version tested	3.2	1.5	3.0	5.0	1.0	9	11	5	6	1.4	^3
<b>Application Cache</b> <a href="#">W3C API</a> Offline package installation.	✓	✓ 2.1+	✓	✓ 6.0+	✓		✓		✓	✓	✓
<b>Web storage</b> <a href="#">W3C API</a> Persistent and session storage.	✓	✓ 2.0+	✓	✓ 6.0+	✓	✓	✓		✓	✓	✓
<b>Web SQL storage</b> <a href="#">W3C API (no active)</a> Persistent SQLite storage.	✓	✓ 2.0+	✓	✓ 6.0+	✓		✓				✓
<b>Geolocation</b> <a href="#">W3C API</a> Geolocation & tracking using GPS, cells or Wi-Fi.	✓	✓ 2.0+	✓	✓ 6.0+	✓	✓	✓		✓	✓	✓
<b>Multimedia</b> <a href="#">W3C API</a> Video & Audio Players	✓	✓ 2.3+	✓	✓ 7.0+	✓	✓	✓		✓	✓	✓
<b>Server-Sent Events</b> <a href="#">W3C API</a> EventSource pattern to maintain the connection to the server open	✓ 4.1+						✓		✓		
<b>Web Sockets</b> <a href="#">W3C API</a> New bidirectional protocol over HTTP	✓ 4.2+			✓ 6.1+	✓		✓		✓		

[www.mobilehtml5.org](http://www.mobilehtml5.org)

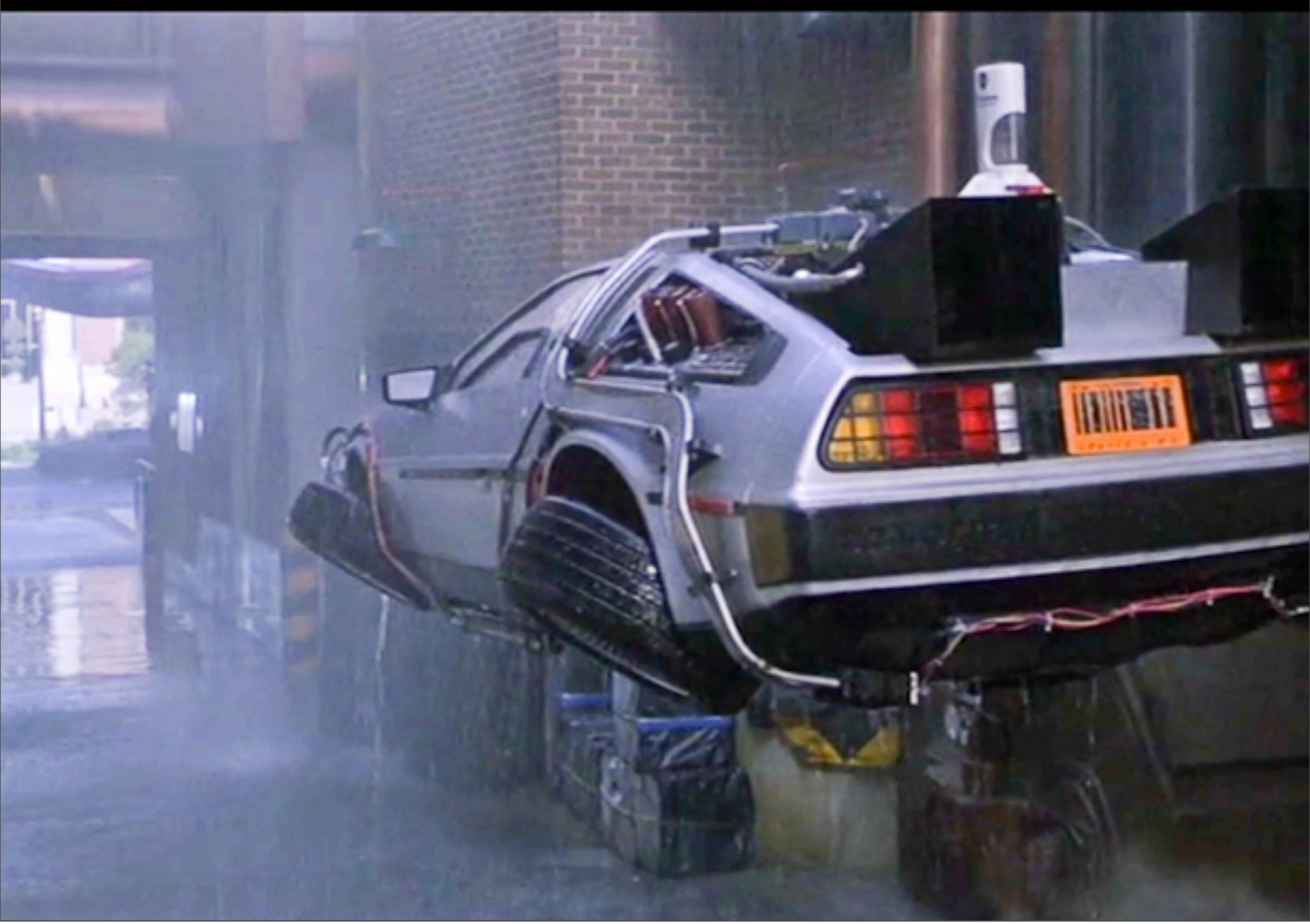
you have  
a question for me

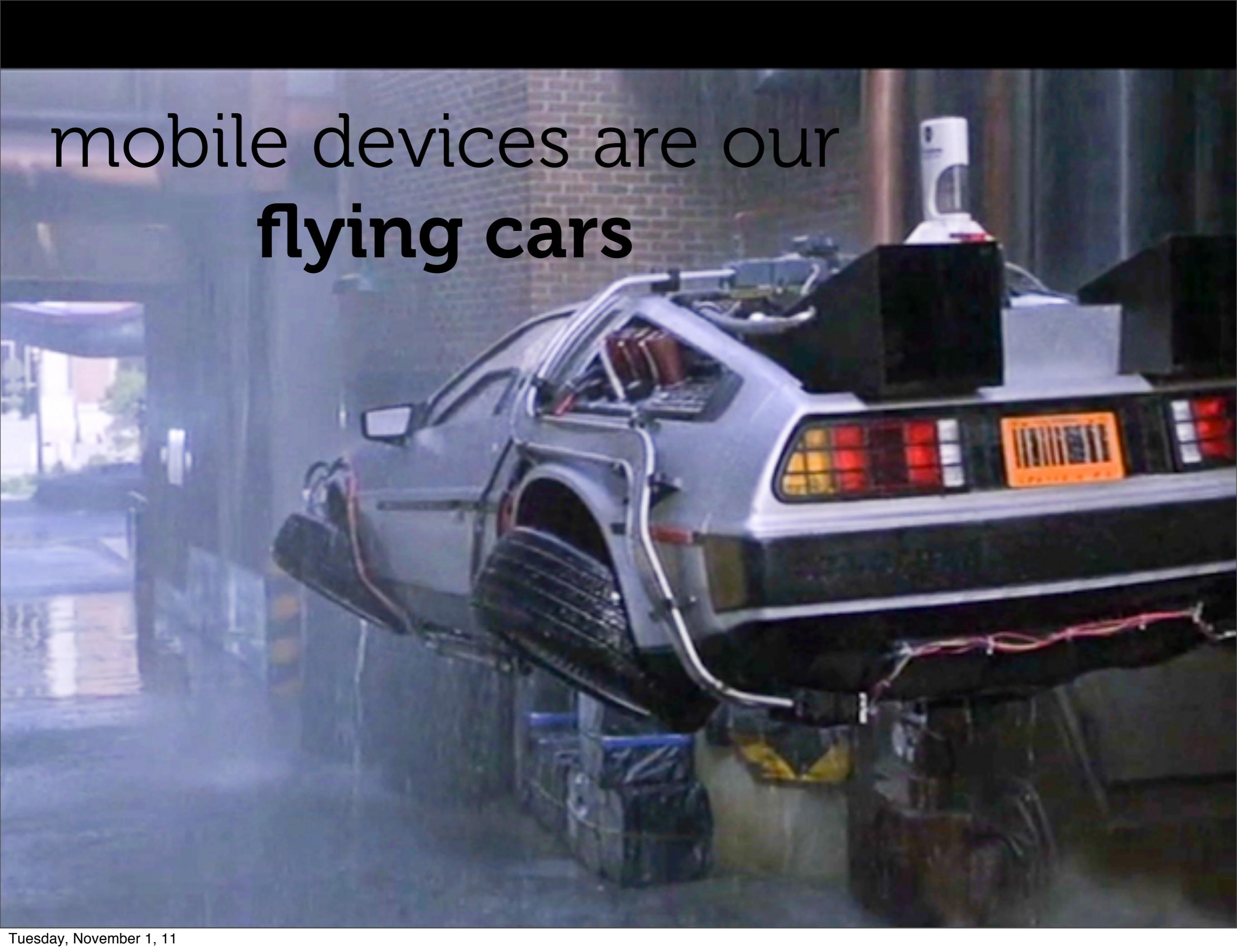
the answer is no

# why mobile?



**2015 is coming...**



A DeLorean DMC-12 from the movie Back to the Future II is shown flying through a city street. The car is silver with a black stripe and has its gull-wing doors open. It is suspended in mid-air by a network of cables and mechanical arms, which are attached to a large, dark, cylindrical device mounted on a building. The background shows a blurred cityscape with buildings and trees.

mobile devices are our  
flying cars

mobile is more about  
users

# mobile

# mobile

- ▶ absolutely personal

# mobile

- ▶ absolutely personal
- ▶ +5 billions

# mobile

- ▶ absolutely personal
- ▶ +5 billions
- ▶ will be the 1st browsing device...  
soon

# mobile

- ▶ absolutely personal
- ▶ +5 billions
- ▶ will be the 1st browsing device...  
soon
- ▶ make us focus

# mobile

- ▶ absolutely personal
- ▶ +5 billions
- ▶ will be the 1st browsing device...  
soon
- ▶ make us focus
- ▶ read our context...

# mobile

- ▶ absolutely personal
- ▶ +5 billions
- ▶ will be the 1st browsing device...  
soon
- ▶ make us focus
- ▶ read our context...
- ▶ ... always...

# mobile

- ▶ absolutely personal
- ▶ +5 billions
- ▶ will be the 1st browsing device...  
soon
- ▶ make us focus
- ▶ read our context...
- ▶ ... always...
- ▶ ... and everywhere.

then... what is the  
problem?

# mobile is a minefield



Photo by World of Good (Flickr)

**Malvinas / Falklands Islands**



lots of questions

Photo by wayneandwax (Flickr)

we need to learn





lots of platforms

# mobile web appears





native  
vs  
web

# **WAIT!**

# Are you sure?



# native code vs javascript



browser  
vs  
installed apps  
& stores

# **lack of definitions**

# when we say mobile web

# when we say mobile web

*from a developer's perspective it's using HTML,  
CSS and JavaScript to develop mobile apps*

# when we say mobile web

*from a developer's perspective it's using HTML, CSS and JavaScript to develop mobile apps  
(browser or installed)*

**what are the  
problems with  
mobile web?**

**we are second class  
producers**

# Testing & debugging

# Standards!



Photo by Ben Millett (Flickr)

Tuesday, November 1, 11



# Are you sure?

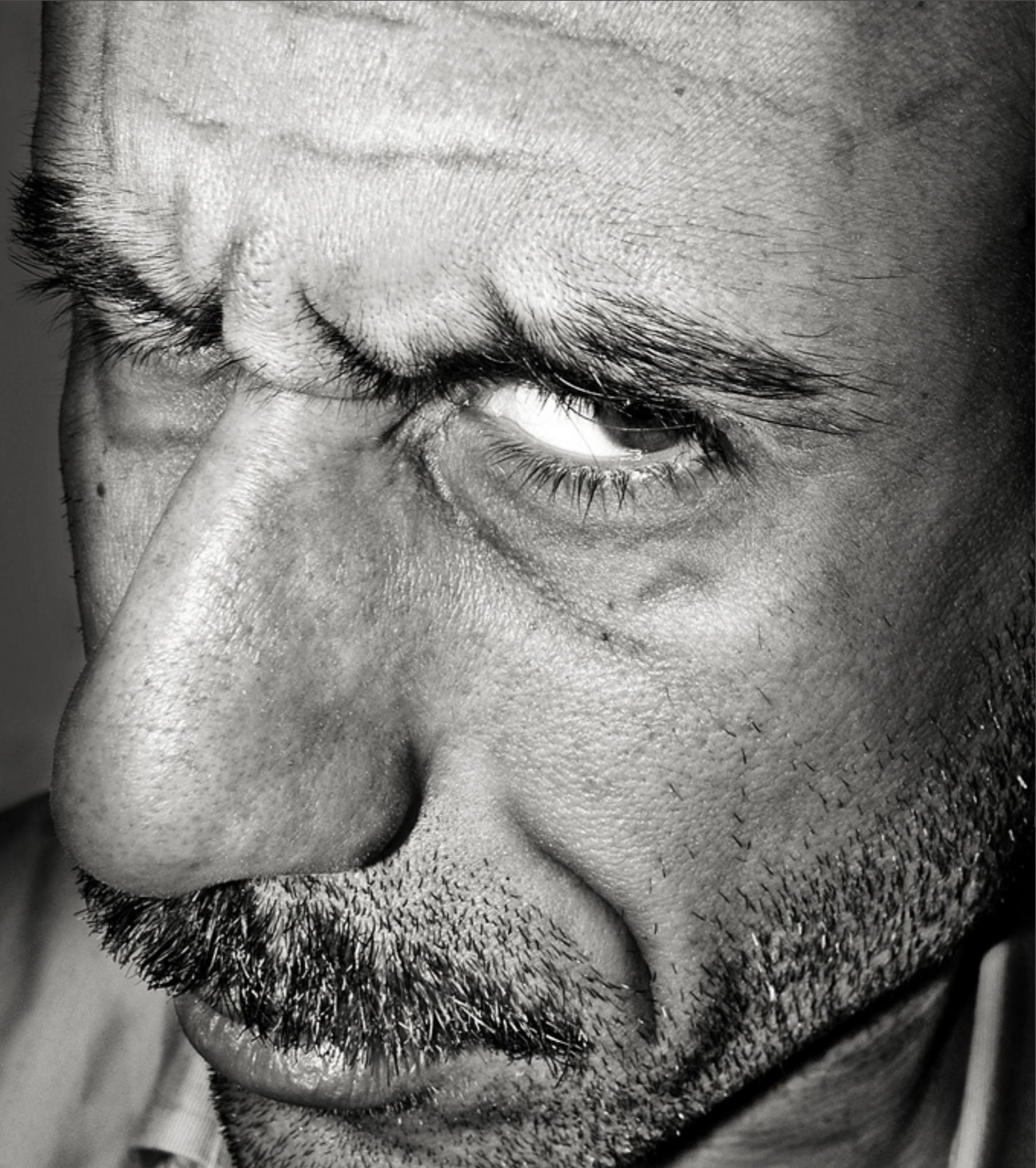


Photo by Ricky David (Flickr)

What is **HTML**  
**5**?



# html5

# html5

- ▶ w3c standards (all in draft)

# html5

- ▶ w3c standards (all in draft)
- ▶ some are other w3c standards

# html5

- ▶ w3c standards (all in draft)
- ▶ some are other w3c standards
- ▶ de-facto standards

# html5

- ▶ w3c standards (all in draft)
- ▶ some are other w3c standards
- ▶ de-facto standards
- ▶ w3c ex-standards

# html5

- ▶ w3c standards (all in draft)
- ▶ some are other w3c standards
- ▶ de-facto standards
- ▶ w3c ex-standards
- ▶ everything “new” on the web

# mobile browsers

# mobile browsers

- ▶ too many

# mobile browsers

- ▶ too many
- ▶ (some) too limited

# mobile browsers

- ▶ too many
- ▶ (some) too limited
- ▶ (some) too innovative

# mobile browsers

- ▶ too many
- ▶ (some) too limited
- ▶ (some) too innovative
- ▶ (some) proxy based

# mobile browsers

- ▶ too many
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- ▶ (some) too innovative
- ▶ (some) proxy based
- ▶ (most) without documentation

# mobile browsers

- ▶ too many
- ▶ (some) too limited
- ▶ (some) too innovative
- ▶ (some) proxy based
- ▶ (most) without documentation
- ▶ (most) without a *name*

# mobile browsers

- ▶ too many
- ▶ (some) too limited
- ▶ (some) too innovative
- ▶ (some) proxy based
- ▶ (most) without documentation
- ▶ (most) without a *name*
- ▶ (most) without debugging tools

# mobile browsers

# mobile browsers

- ▶ (some) focus-based

# mobile browsers

- ▶ (some) focus-based
- ▶ (some) cursor-based

# mobile browsers

- ▶ (some) focus-based
- ▶ (some) cursor-based
- ▶ (some) touch-based

# mobile browsers

- ▶ (some) focus-based
- ▶ (some) cursor-based
- ▶ (some) touch-based
- ▶ (some) multitouch-based

# mobile browsers

- ▶ (some) focus-based
- ▶ (some) cursor-based
- ▶ (some) touch-based
- ▶ (some) multitouch-based
- ▶ (some) with zooming support

# mobile browsers

- ▶ (some) focus-based
- ▶ (some) cursor-based
- ▶ (some) touch-based
- ▶ (some) multitouch-based
- ▶ (some) with zooming support
- ▶ (most) unknown for web devs

# jQuery mobile

**what is ... ?**

# what is not ...?

# jQuery mobile is not...

# jQuery mobile is not...

- ▶ alternative mobile jQuery framework

# jQuery mobile is not...

- ▶ alternative mobile jQuery framework
- ▶ SDK for native/hybrid compilation

# jQuery mobile is not...

- ▶ alternative mobile jQuery framework
- ▶ SDK for native/hybrid compilation
- ▶ a framework for doing all using JS

# jQuery mobile is not...

- ▶ alternative mobile jQuery framework
- ▶ SDK for native/hybrid compilation
- ▶ a framework for doing all using JS
- ▶ the solution for every app

# jQuery mobile is...

# jQuery mobile is...

a cross-platform **UI**  
**framework** for creating  
**webapps** for touch-enabled  
smartphones and tablets



**webapp?**

# a webapp can be...

# a webapp can be...

- ▶ a website or service based on the browser

# a webapp can be...

- ▶ a website or service based on the browser
- ▶ a full-screen (chromeless) app on the browser

# a webapp can be...

- ▶ a website or service based on the browser
- ▶ a full-screen (chromeless) app on the browser
- ▶ a hybrid -native app through stores-

# why jQuery mobile?





webOS



`typeof html5 != boolean`

# features

# features

# features

- ▶ non-intrusive semantic html5 code

# features

- ▶ non-intrusive semantic html5 code
- ▶ open sourced

# features

- ▶ non-intrusive semantic html5 code
- ▶ open sourced
- ▶ lightweight

# features

- ▶ non-intrusive semantic html5 code
- ▶ open sourced
- ▶ lightweight
- ▶ multiplatform with progressive enhancement

# features

- ▶ non-intrusive semantic html5 code
- ▶ open sourced
- ▶ lightweight
- ▶ multiplatform with progressive enhancement
- ▶ accessibility support

# features

- ▶ non-intrusive semantic html5 code
- ▶ open sourced
- ▶ lightweight
- ▶ multiplatform with progressive enhancement
- ▶ accessibility support
- ▶ customizable

# features

- ▶ non-intrusive semantic html5 code
- ▶ open sourced
- ▶ lightweight
- ▶ multiplatform with progressive enhancement
- ▶ accessibility support
- ▶ customizable
- ▶ includes javascript api

you don't need to know

# you don't need to know

- ▶ html5

# you don't need to know

- ▶ html5
- ▶ css 3

# you don't need to know

- ▶ html5
- ▶ css 3
- ▶ javascript

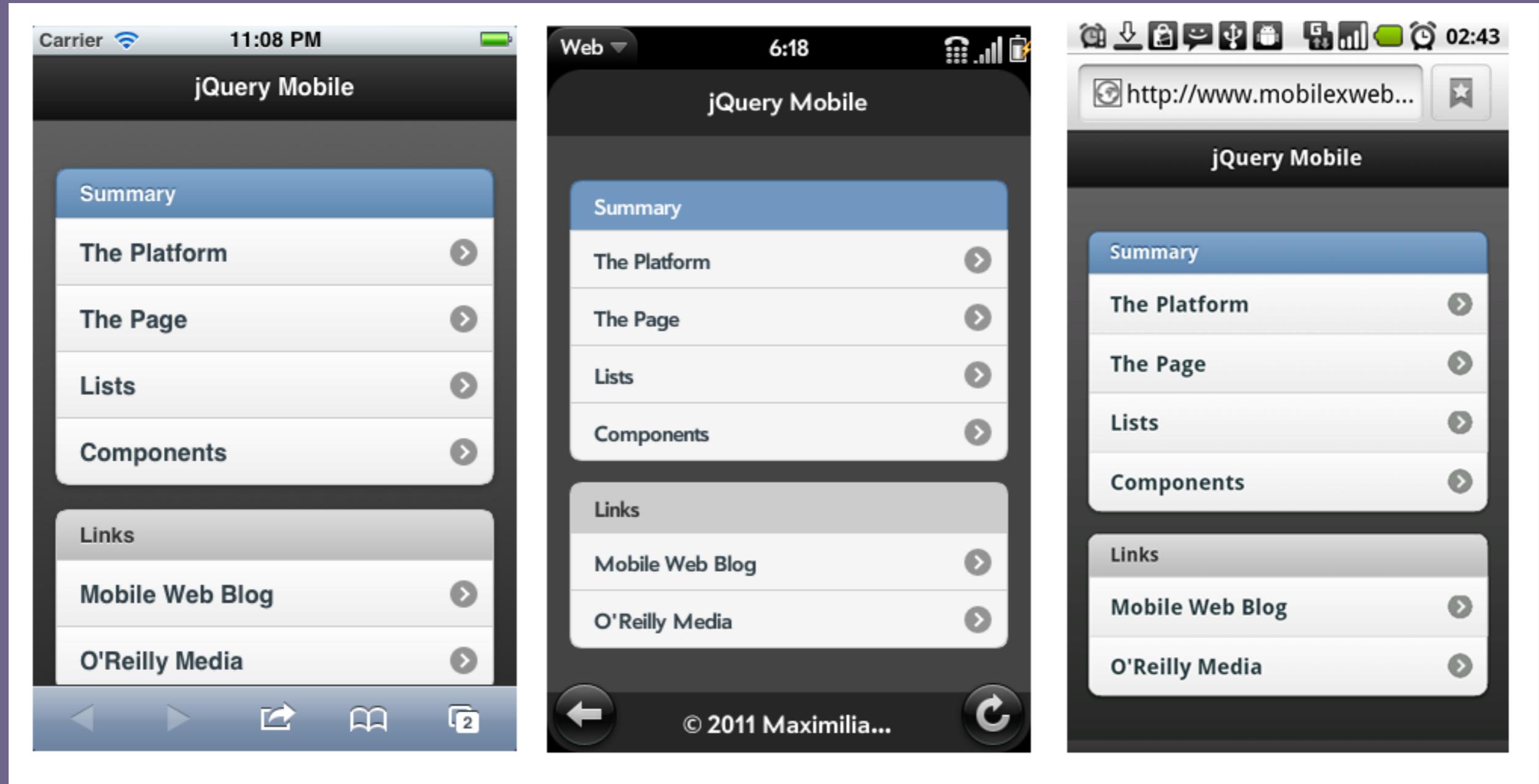
# you don't need to know

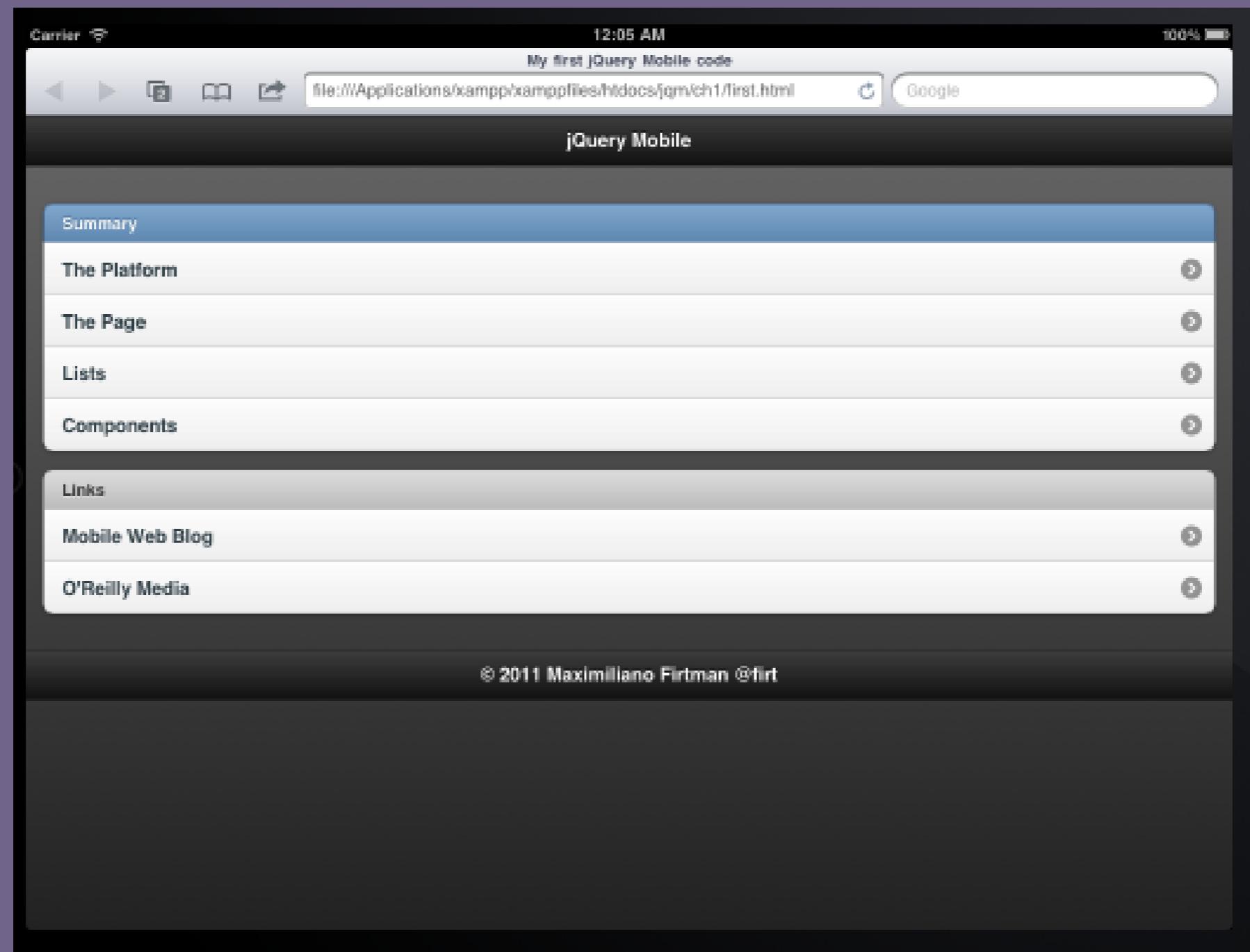
- ▶ html5
- ▶ css 3
- ▶ javascript
- ▶ jQuery

# you don't need to know

- › html5
- › css 3
- › javascript
- › jQuery

but... you should :)





# what do we need?

# what do we need?

# what do we need?

- ▶ a text editor

# what do we need?

- ▶ a text editor
- ▶ a browser

# what do we need?

- ▶ a text editor
- ▶ a browser
- ▶ and the framework?

# what do we need?

- ▶ a text editor
- ▶ a browser
- ▶ and the framework?
- ▶ and hybrid compilers?

# what do we need?

- ▶ a text editor
- ▶ a browser
- ▶ and the framework?
- ▶ and hybrid compilers?
- ▶ and emulators and simulators?

# what do we need?

- ▶ a text editor
- ▶ a browser
- ▶ and the framework?
- ▶ and hybrid compilers?
- ▶ and emulators and simulators?

[www.mobilexweb.com/emulators](http://www.mobilexweb.com/emulators)

# warning!

**still not stable**

**but near...**



# compatibility

rc2

# compatibility

# compatibility

- ▶ iOS
- ▶ Android
- ▶ BlackBerry >= 5.0
- ▶ Symbian touch
- ▶ HP webOS
- ▶ Windows Phone
- ▶ Opera Mini, Opera Mobile, Firefox
- ▶ Bada, Meego, Kindle 3+, ...
- ▶ Others?

# the framework

# the framework today

# the framework today

- ▶ a javascript file

# the framework today

- ▶ a javascript file
- ▶ a css file and a group of images

# the framework today

- ▶ a javascript file
- ▶ a css file and a group of images
- ▶ self-hosted

# the framework today

- ▶ a javascript file
- ▶ a css file and a group of images
- ▶ self-hosted
- ▶ CDN - “stable” versions

# the framework today

- ▶ a javascript file
- ▶ a css file and a group of images
- ▶ self-hosted
- ▶ CDN - “stable” versions
- ▶ CDN - latest versions

# the framework tomorrow

# the framework tomorrow

- ▶ a custom javascript file

# the framework tomorrow

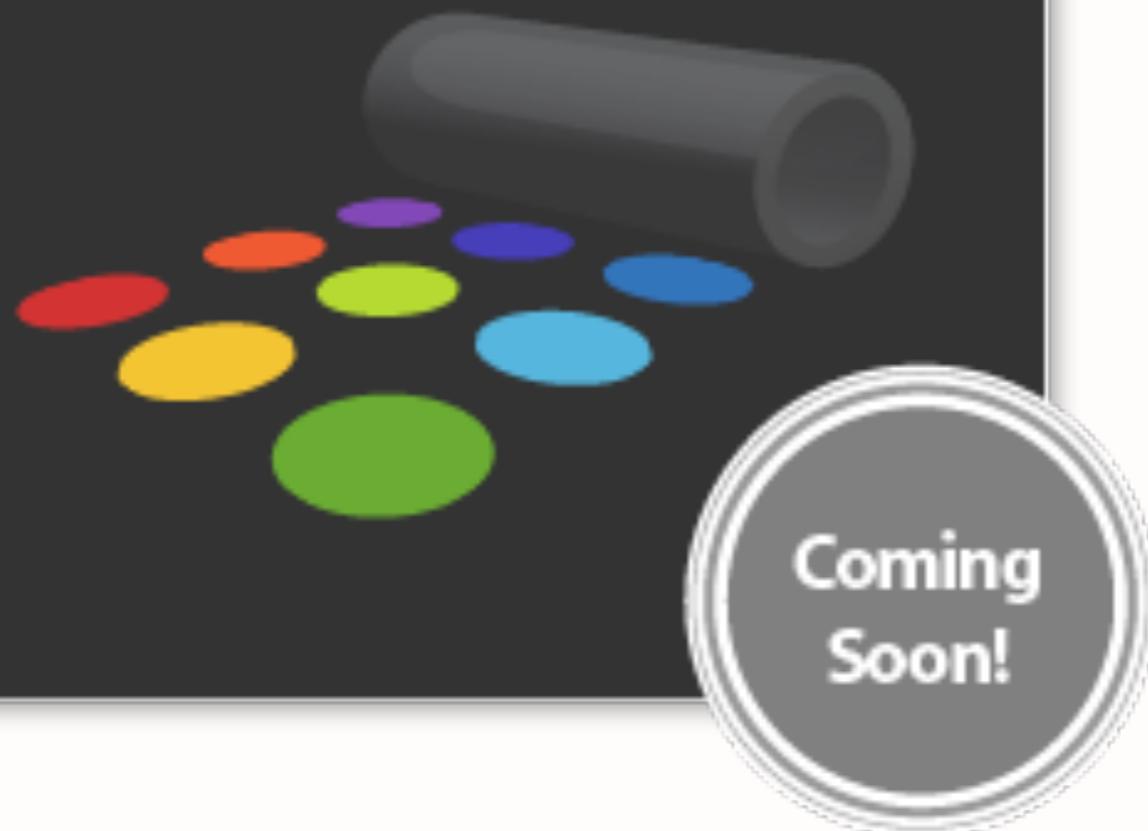
- ▶ a custom javascript file
- ▶ a base css file

# the framework tomorrow

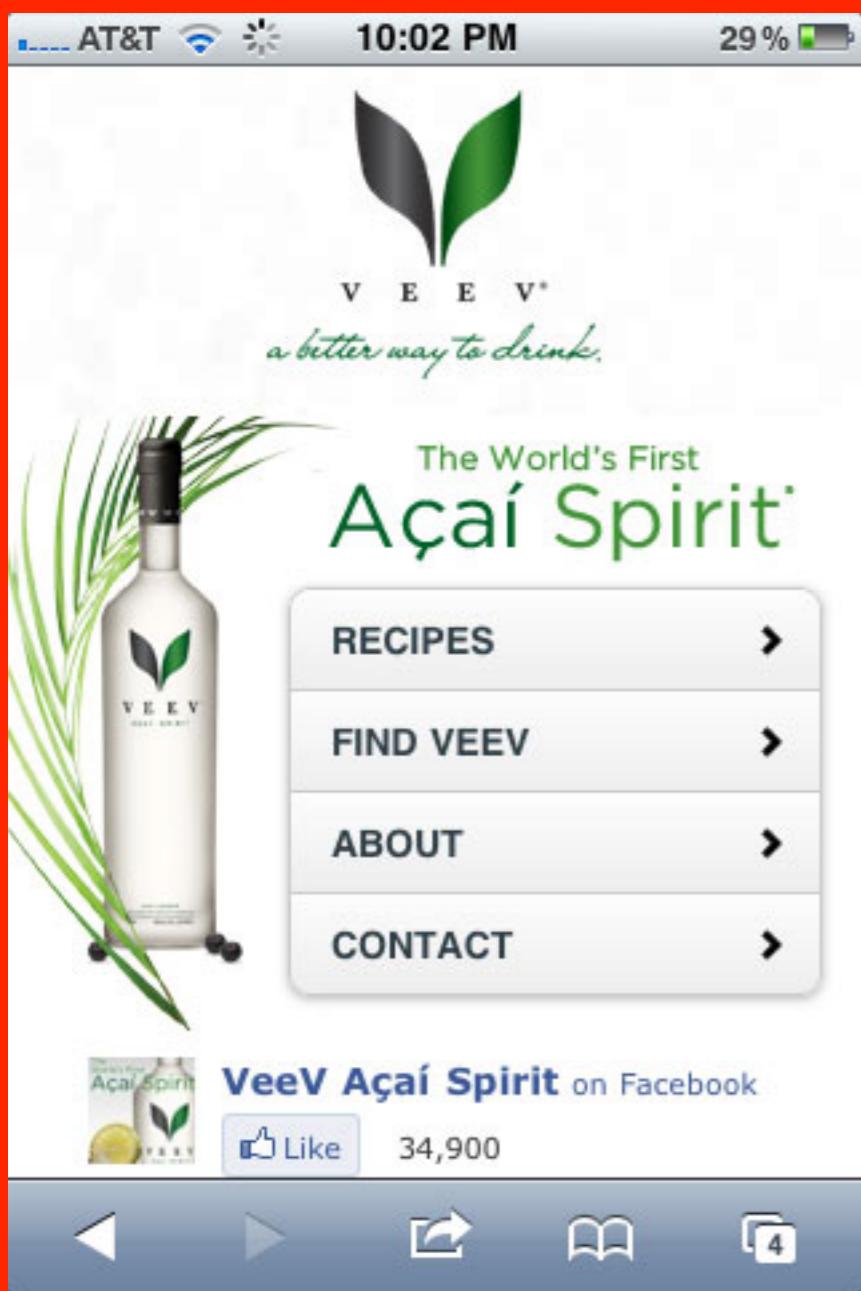
- ▶ a custom javascript file
- ▶ a base css file
- ▶ a theme css file and a group of images

# ThemeRoller

For jQuery Mobile



AT&T 10:02 PM 29 %



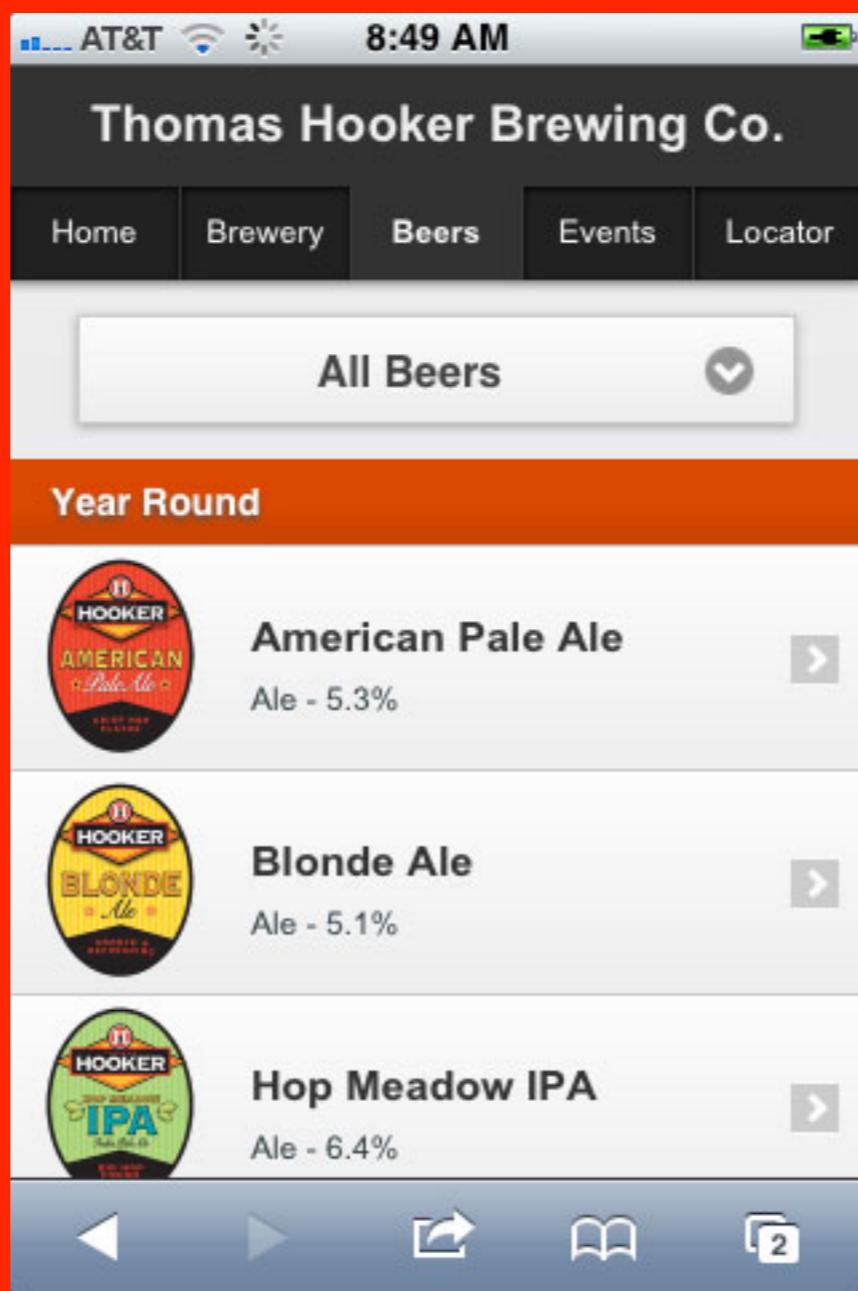
The VeeV Açaí Spirit website features a white background with a green leaf logo at the top. Below it is the slogan "a better way to drink." A bottle of VeeV spirit is shown on the left. A sidebar on the right lists "RECIPES", "FIND VEEV", "ABOUT", and "CONTACT". At the bottom, there's a Facebook link with 34,900 likes.

V E E V<sup>®</sup>  
a better way to drink.  
**The World's First  
Açaí Spirit**

**RECIPES** >  
**FIND VEEV** >  
**ABOUT** >  
**CONTACT** >

VeeV Açaí Spirit on Facebook  
Like 34,900

AT&T 8:49 AM



The Thomas Hooker Brewing Co. website shows a navigation bar with "Home", "Brewery", "Beers", "Events", and "Locator". A dropdown menu for "All Beers" is open. The "Year Round" section displays three beer options: "American Pale Ale", "Blonde Ale", and "Hop Meadow IPA". Each entry includes a small image of the beer label and its alcohol percentage.

Thomas Hooker Brewing Co.

Home Brewery Beers Events Locator

All Beers

Year Round

**American Pale Ale**  
Ale - 5.3%

**Blonde Ale**  
Ale - 5.1%

**Hop Meadow IPA**  
Ale - 6.4%

AT&T 3G 9:04 AM 100 %



The analogia.it website has a light blue header with the logo and the text "Bem-Vindo à Analogia IT". The main content area features a green cartoon character holding a tablet. Below the character are four green buttons labeled "Agência", "Soluções", "Portfólio", and "Contato", each with a right-pointing arrow.

analogia.it

Bem-Vindo à Analogia IT

Agência

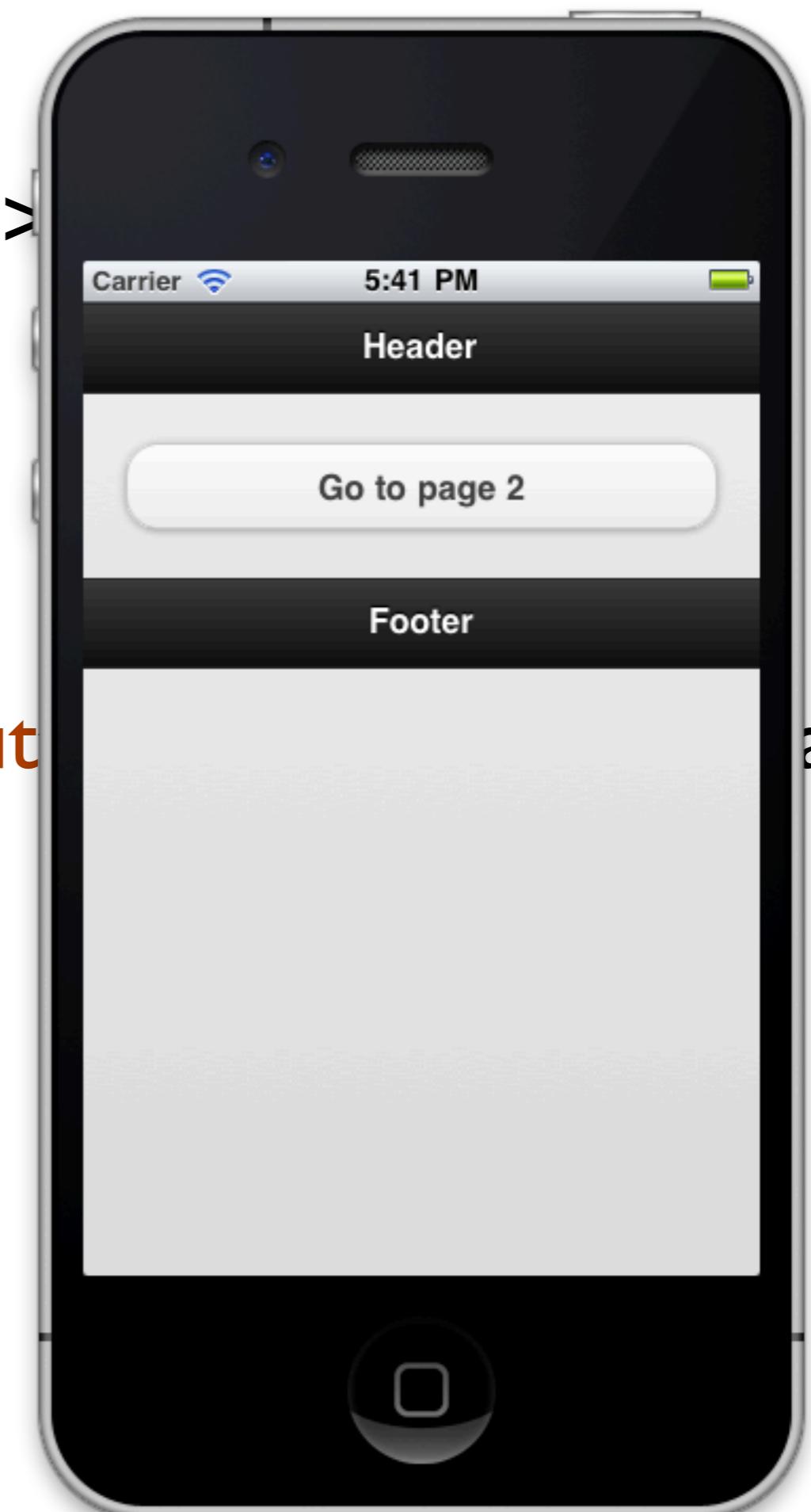
Soluções

Portfólio

Contato

```
<div data-role="page" id="page1">
  <div data-role="header">
    <h1>Header</h1>
  </div>
  <div data-role="content">
    <a href="#page2" data-role="button">Go to page 2</a>
  </div>
  <div data-role="footer">
    <h4>Footer</h4>
  </div>
</div>
```

```
<div data-role="page" id="page1">
  <div data-role="header">
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    <a href="#page2" data-role="button">Go to page 2</a>
  </div>
  <div data-role="footer">
    <h4>Footer</h4>
  </div>
</div>
```



```
<div data-role="content">
  <ul data-role="listview">
    <li>iPhone
    <li>Android
    <li>BlackBerry
    <li>Symbian
    <li>webOS
    <li>MeeGo
    <li>Bada
  </ul>
</div>
```

```
<div data-role="content">  
  <ul data-role="listview">  
    <li>iPhone  
    <li>Android  
    <li>BlackBerry  
    <li>Symbian  
    <li>webOS  
    <li>MeeGo  
    <li>Bada  
  </ul>  
</div>
```



# features

# features

- ▶ fixed toolbars

# features

- ▶ fixed toolbars
- ▶ list, content and form rich controls

# features

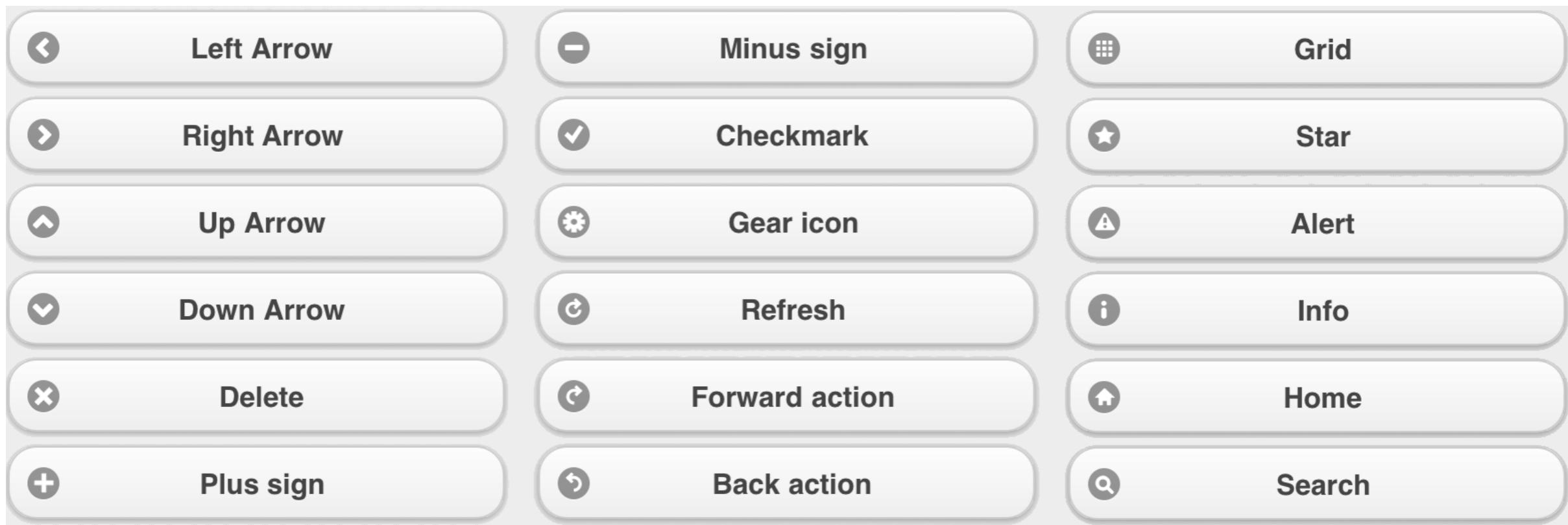
- ▶ fixed toolbars
- ▶ list, content and form rich controls
- ▶ theming and color swatches

# features

- ▶ fixed toolbars
- ▶ list, content and form rich controls
- ▶ theming and color swatches
- ▶ transitions

# features

- ▶ fixed toolbars
- ▶ list, content and form rich controls
- ▶ theming and color swatches
- ▶ transitions
- ▶ ajax



**slide**



**slideUp**



**slideDown**



**pop**



**fade**



**flip**



# advanced topics

# advanced topics

- › using javascript for loading content

# advanced topics

- › using javascript for loading content
- › theming and customization

# advanced topics

- › using javascript for loading content
- › theming and customization
- › styling for non-compatible devices

# advanced topics

- › using javascript for loading content
- › theming and customization
- › styling for non-compatible devices
- › javascript api & events

# advanced topics

- › using javascript for loading content
- › theming and customization
- › styling for non-compatible devices
- › javascript api & events
- › html5 (geolocation, offline storage, offline access, accelerometer)

# thank you!

firt.mobi  
twitter: @firt  
mobilexweb.com



<https://www.ch-open.ch/auswertung/>

Pictures from freedigitalphotos.net