MOBILE WEB APPLICATION DEVELOPMENT

ABOUT ME

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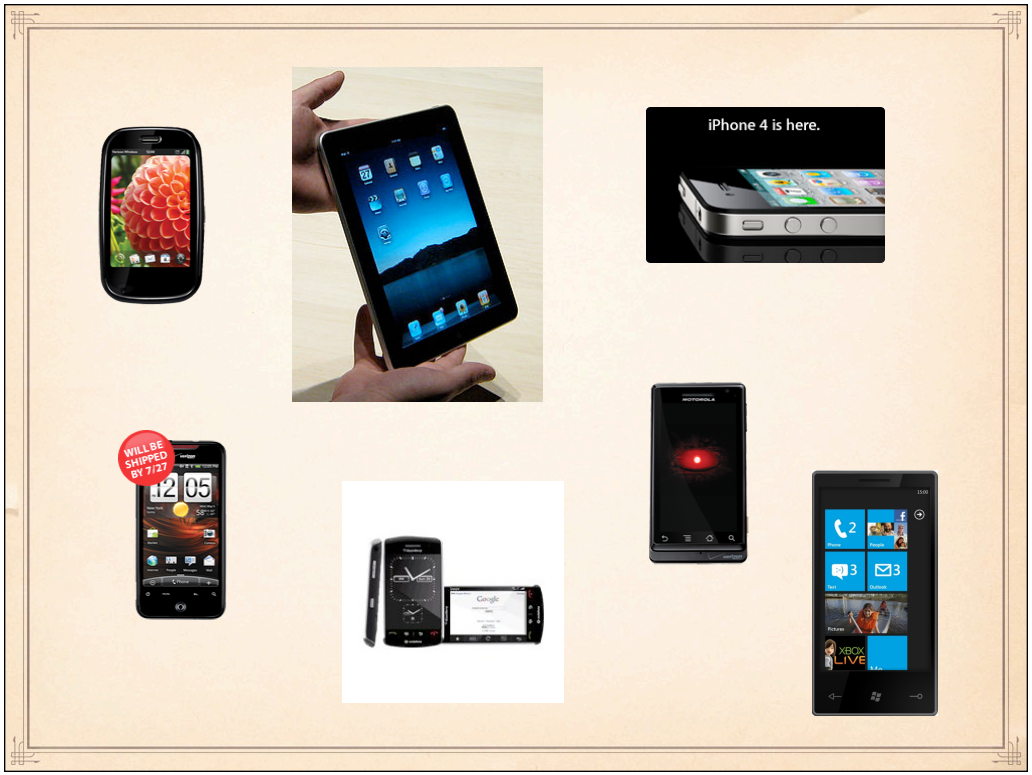
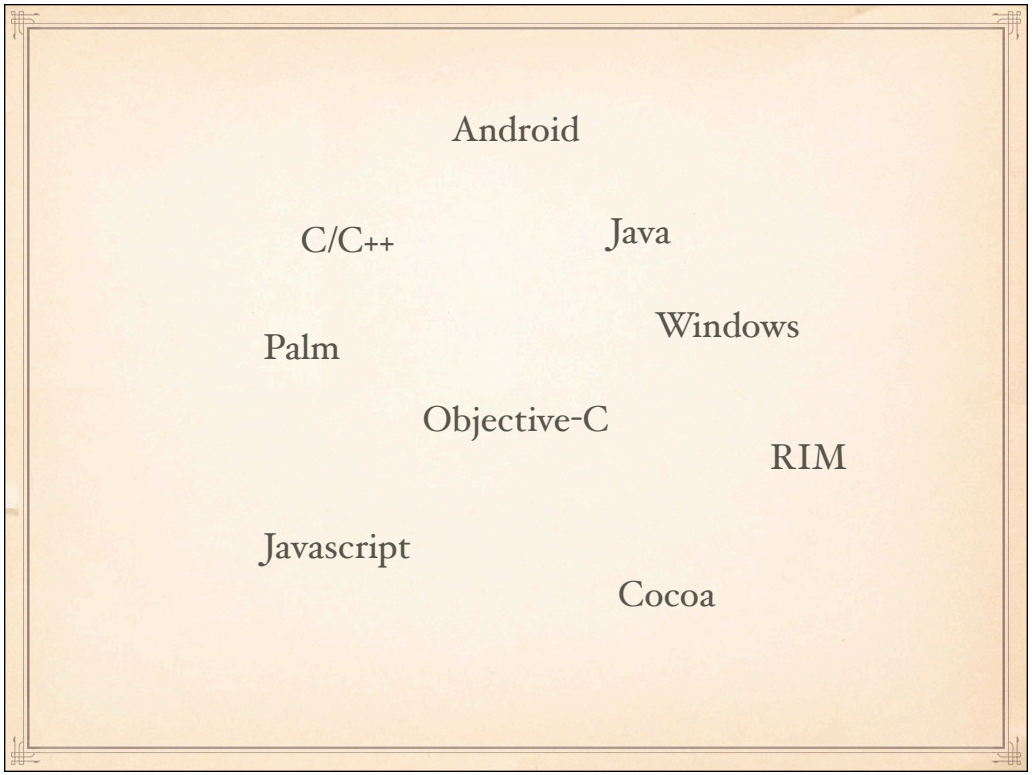
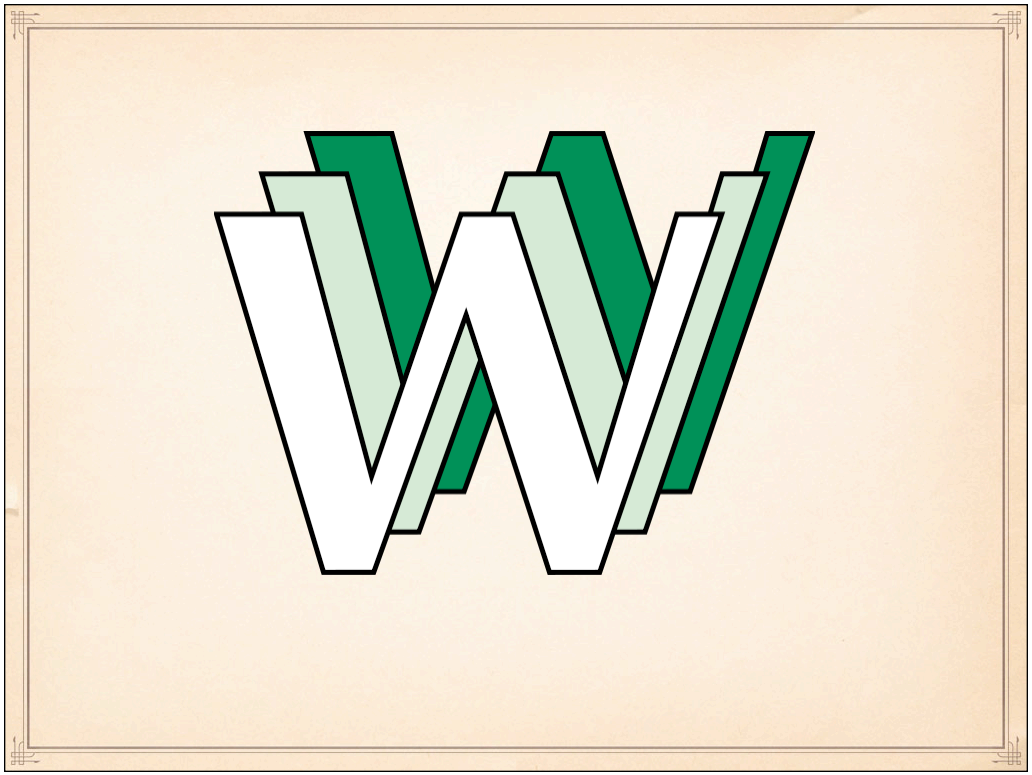


Mobile Web Development is becoming increasingly important
Lots of platforms
New ones all the time
All different APIs
Objective C, Windows



Alphabet soup of APIs, Languages, Platforms, Versions

This is crazy.
What do we learn?
What do we ignore?
What if we just want to something quick, useful and cross platform?

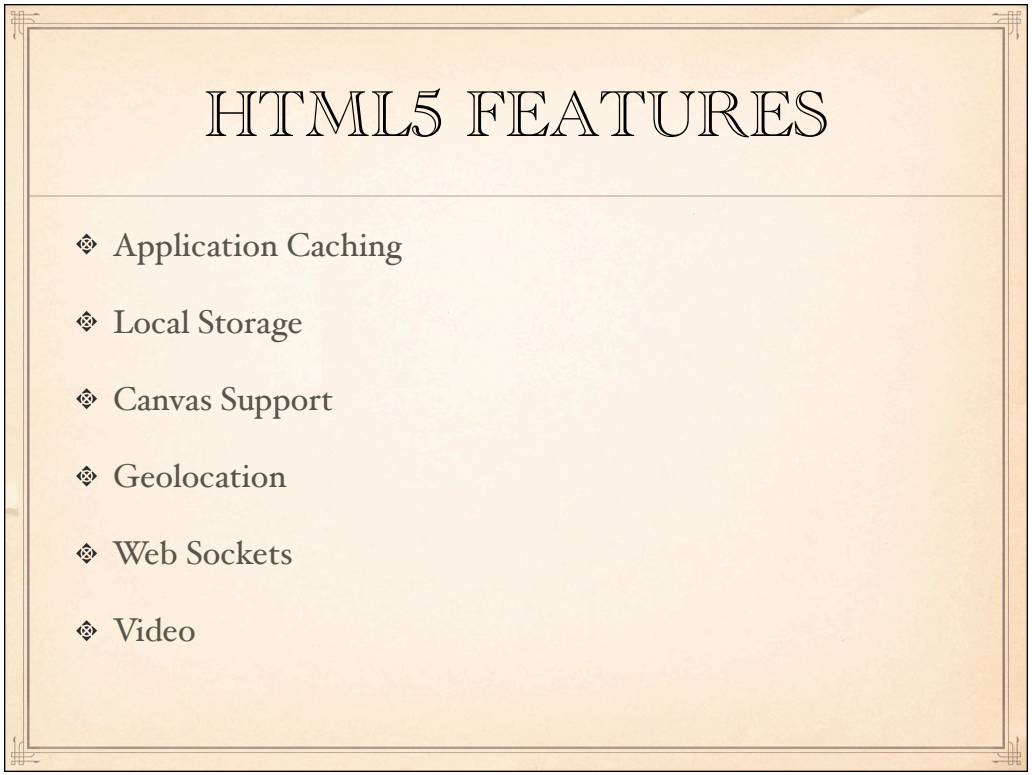


We already invented that, it’s called the World Wide Web
The Web's historic logo designed by Robert Cailliau
Why can’t we use that?

So unless we're ready to sort out this mess....

There is another way. All these devices devices support (or will soon) HTML5

HTML5
That’s right, out friends the Internet, the WWW and HTML5 are back to save us



Turns out, HTML5 gives us a bunch of things that are real helpful
App Caching and Local Storage means we can create offline apps
It's why Google abandoned Gears. Didn't need it w/ the advent of HTML5

What's cool is we don't need to wait. Smartphones on VERY accelerated schedule compared to desktop

A jQuery plugin for mobile web development on the iPhone,
iPod Touch, and other forward-thinking devices.

JQTOUCH FEATURES

- Easy Setup
- Native WebKit Animations
- Image Preloading
- Callback Events
- Flexible Themes
- Swipe Detetection
- Extensions
- MIT Licensed
- Multiple Device Support
- Implemented as jQuery Plugin
- L&F Customizable via CSS3

Right from jqtouch.com
Based on jQuery

DEMO

Standard jQTouch Demo

APP ELEMENTS

- HTML
- jQTouch, jQuery Libraries
- jQTouch Init function, callbacks
- DIV elements representing pages, links, etc.

```
<html>
    <head>
        <meta charset="UTF-8" />
        <title>jQTouch &beta;</title>
        <style type="text/css" media="screen">@import "../../jqtouch/jqtouch.min.css";</style>
        <style type="text/css" media="screen">@import "../../themes/jqt/theme.min.css";</style>
        <script src="../../jqtouch/jquery.1.3.2.min.js" type="text/javascript" charset="utf-8"></script>
        <script src="../../jqtouch/jqtouch.min.js" type="application/x-javascript" charset="utf-8"></script>
        <script type="text/javascript" charset="utf-8">
            var jQT = new $.jQTouch({...
            // Some sample Javascript functions:
            $(function(){...
        </script>
        <style type="text/css" media="screen">
            body.fullscreen #home .info {...
            #about {...
            #about p {...
            #about a {...
        </style>
    </head>
    <body>
        <div id="about" class="selectable">
                <p><img src="jqtouch.png" /></p>
                <p><strong>jQTouch</strong><br />Version 1.0 beta<br />
                    <a href="http://www.davidkaneda.com">By David Kaneda</a></p>
                <p><em>Create powerful mobile apps with<br /> just HTML, CSS, and jQuery.</em></p>
                <p>
                    <a href="http://twitter.com/jqtouch" target="_blank">@jQTouch on Twitter</a>
                </p>
                <p><br /><br /><a href="#" class="grayButton goback">Close</a></p>
        </div>
        <div id="home" class="current">
            <div class="toolbar">
                <h1>jQTouch</h1>
                <a class="button slideup" id="infoButton" href="#about">About</a>
            </div>
           <ul class="rounded">
                <li class="arrow"><a href="#about">About</a></li>
            </ul>
        </div>
    </body>
</html>
```

Javascript, CSS collapsed to conserve space
Not altered from the demo
About linked from 2 buttons
each w / different animation

- Elements specified by classes on div, li, etc.
- Back function, page caching handled automatically
- Can hook into page animation begin/end w/ Javascript
- Specifying input types infers behavior:
  <input type={password, checkbox, radio}...
- Links to other pages: <a href="#about">About</a></li>

ANIMATION CLASSES

- toolbar
- info
- rounded
- slideup
- dissolve
- fade
- pop
- swap
- cube

Specify on DIV
JQTouch handles reverse animation
NOTE: These are so-so on Android

OTHER FEATURES

- Swipe detection
- Image preloading
- Startup screen support
- Orientation change notification

Most of these specified as params to jQTouch init function

INIT FUNCTION

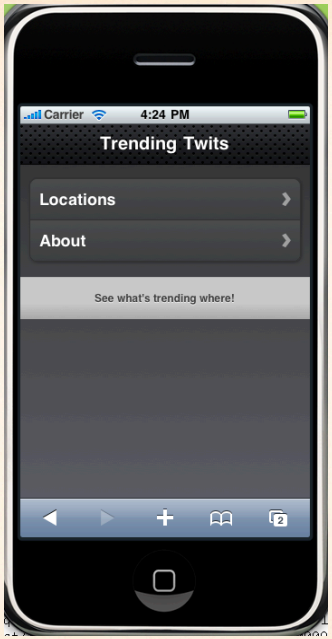
```
<script type="text/javascript" charset="utf-8">
    var jQT = new $.jQTouch({
        icon: 'jqtouch.png',
        addGlossToIcon: false,
        startupScreen: 'jqt_startup.png',
        statusBar: 'black',
        preloadImages: [
            '../../themes/jqt/img/back_button.png',
            '../../themes/jqt/img/back_button_clicked.png',
            '../../themes/jqt/img/button_clicked.png',
            '../../themes/jqt/img/grayButton.png',
            '../../themes/jqt/img/whiteButton.png',
            '../../themes/jqt/img/loading.gif'
            ]
    });
```

TRENDING TWITS

A SIMPLE, WORKING, USEFUL? JQTOUCH APP

GOALS

- Display regions where Twitter has “Trending Topics”
- Display topics for the region selected.
- Lightweight
- Mobile screen size friendly


Carrier
4:24 PM
Trending Twits
Locations
About
See what's trending where!

DEMO

FUTURES

- jQTouch now part of Sencha
- Improved Android support coming
- Documentation (hopefully)

No lic. change
new maintainer
move to Github
more resources
focus on small devices
remain jQuery plugin

RESOURCES

- www.jqtouch.com
- Twitter: @jqtouch, #jqtouch
- Peepcode Screencast on jQTouch ($9)

Screencast highly recommended