Killing PhoneGap

and moving beyond HTML5

@brianleroux

GOTO Chicago 2013

I <3 the web.

Problems Solved by Web Technologies

- Many operating systems.
- Many devices.
- Distribution overall.

Problems remain.

- Sandboxed.
- Performance is tricky.
- Offline is nightmarish.
- Device APIs!
- Tools.
- JavaScript. (Not all of it!!)

PhoneGap

Package native apps with HTML, CSS, and JavaScript.

We give you a 100% width and height web browser for your UI.

We also pollute the global with AWESOME.

Logical units of dev activity.

- Apache Cordova
- Adobe PhoneGap
- Adobe PhoneGap/Build

PhoneGap Goals

- Web as a first class development platform.
- Cease to exist.

wait, wat?!

The web as a first class development

Powerful API surface.

Profiling, logging, instrumentation.

Runtime tooling.

FAST.

Modular and extensible.

Revenue models.

Code security and runtime permissions.

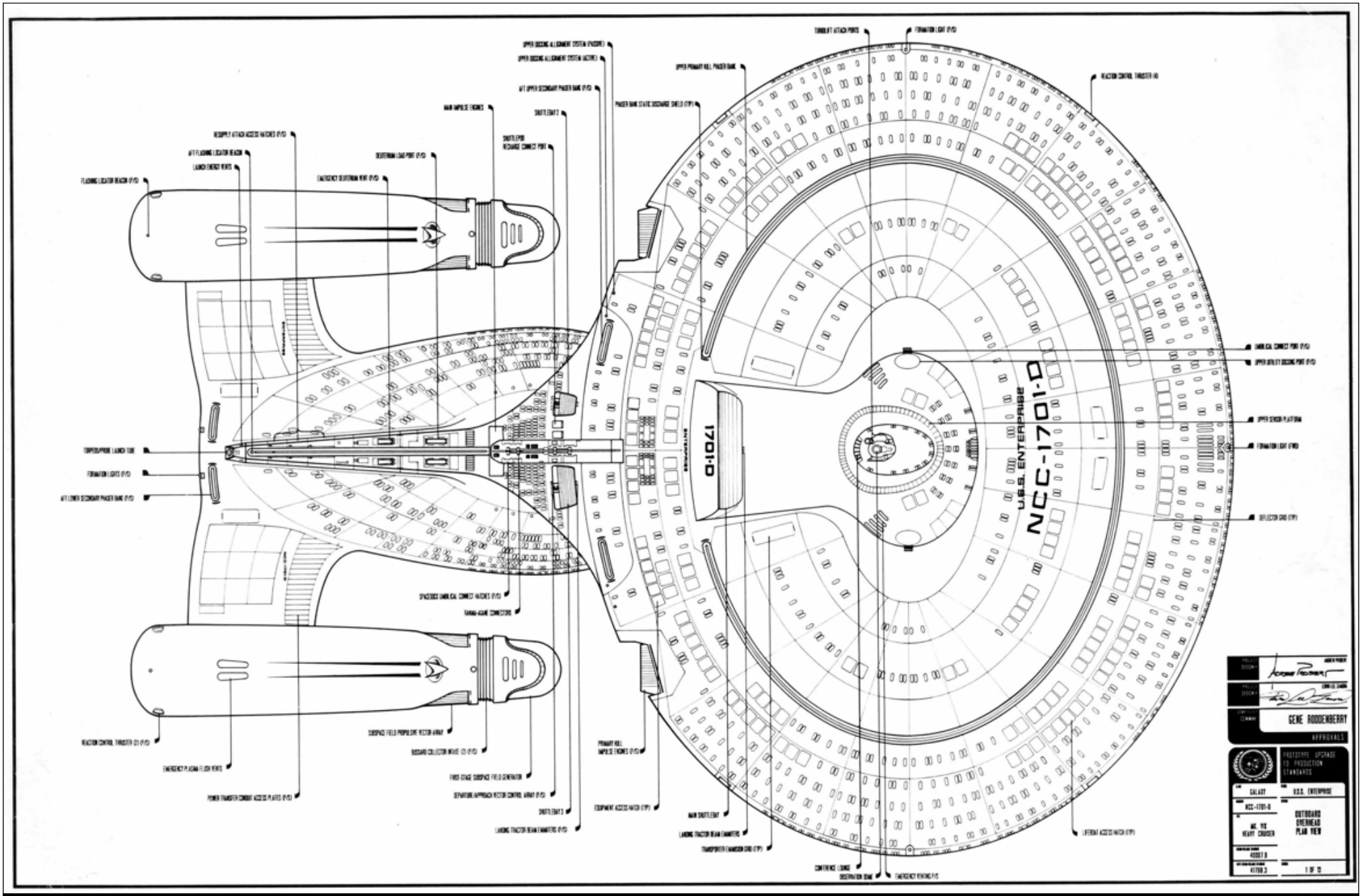
PhoneGap Core API

Accelerometer
- Camera
- Capture
- Compass
- Connection
- Contacts
- Device and Events
- File
- Geolocation
- Globalization
- Media
- Notification
- Splashscreen
- Storage

Other stuff we do

- Open plugin API.
- Embeddable as a WebView.
- Security whitelisting.
- Command line tooling.
- In app browser.

Cease to exist?



Web standards.

You probably think of PhoneGap as a handy way to build apps.

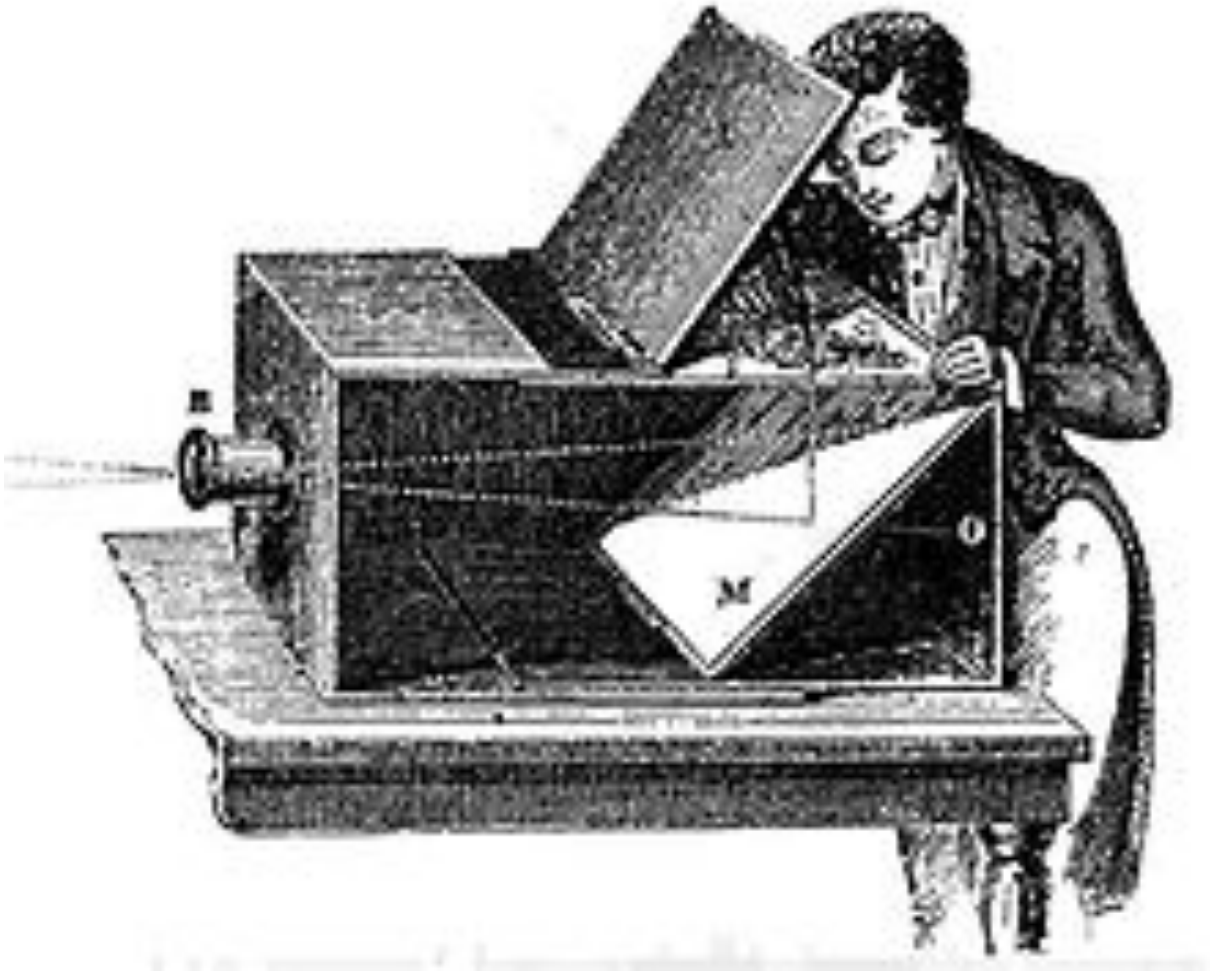
But it is also a roadmap for a better web.

PhoneGap apps are offline by default.

Accelerometer

http://dev.w3.org/geo/api/spec-source-orientation.html

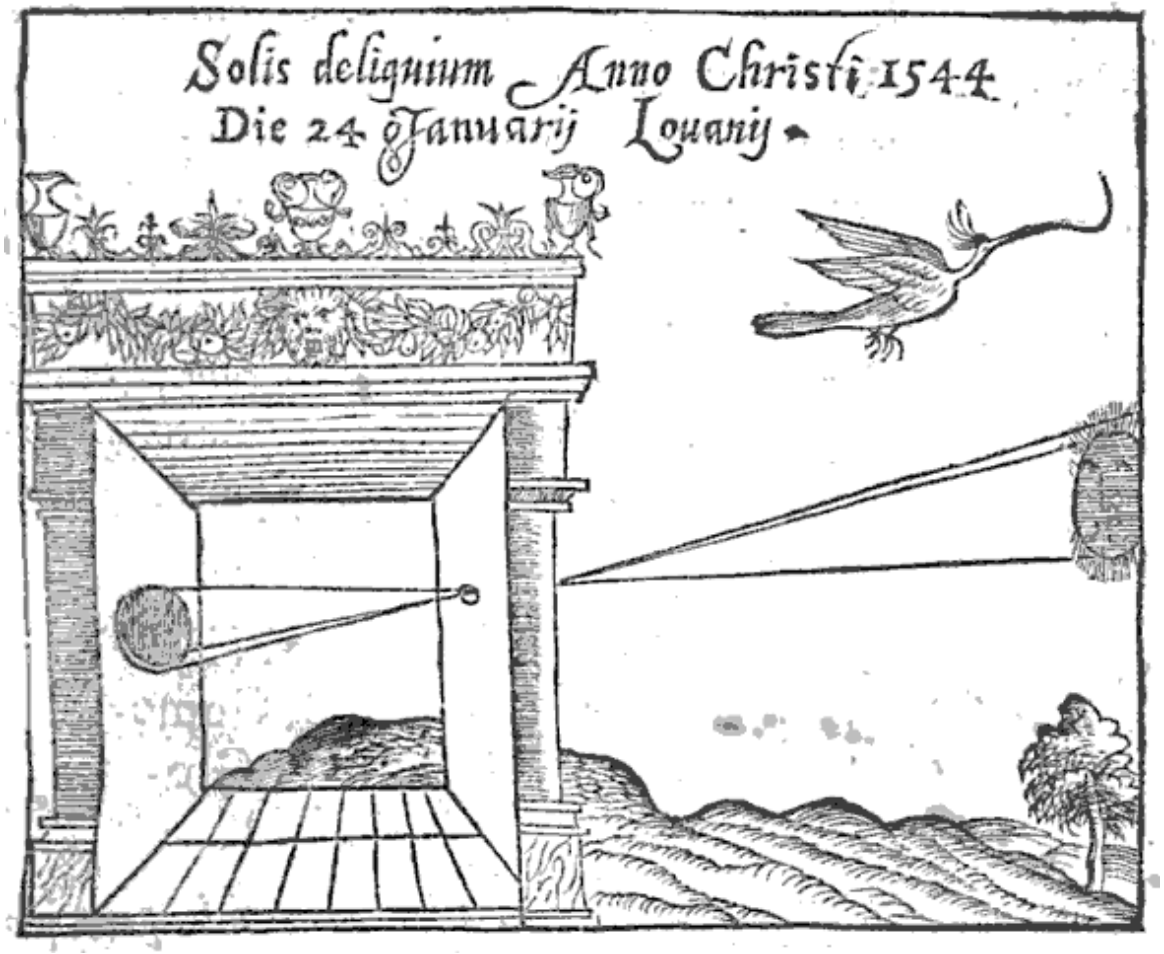
Camera / Capture



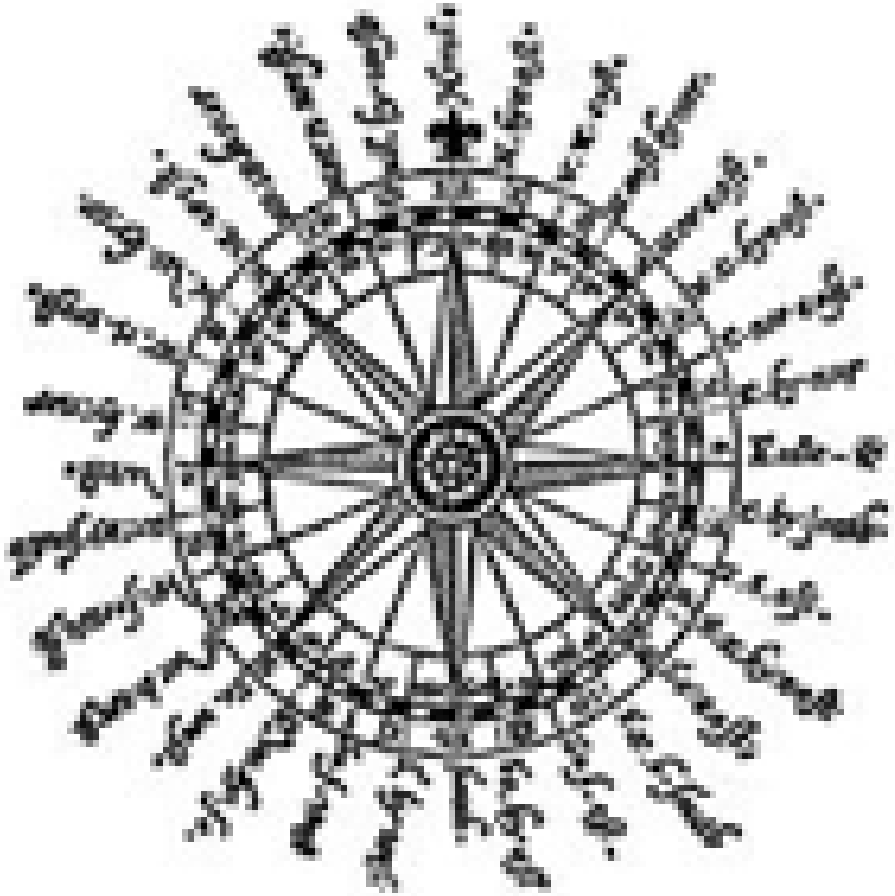
http://dev.w3.org/2011/webrtc/editor/getusermedia.html

De radio astronomico et geometrico liber

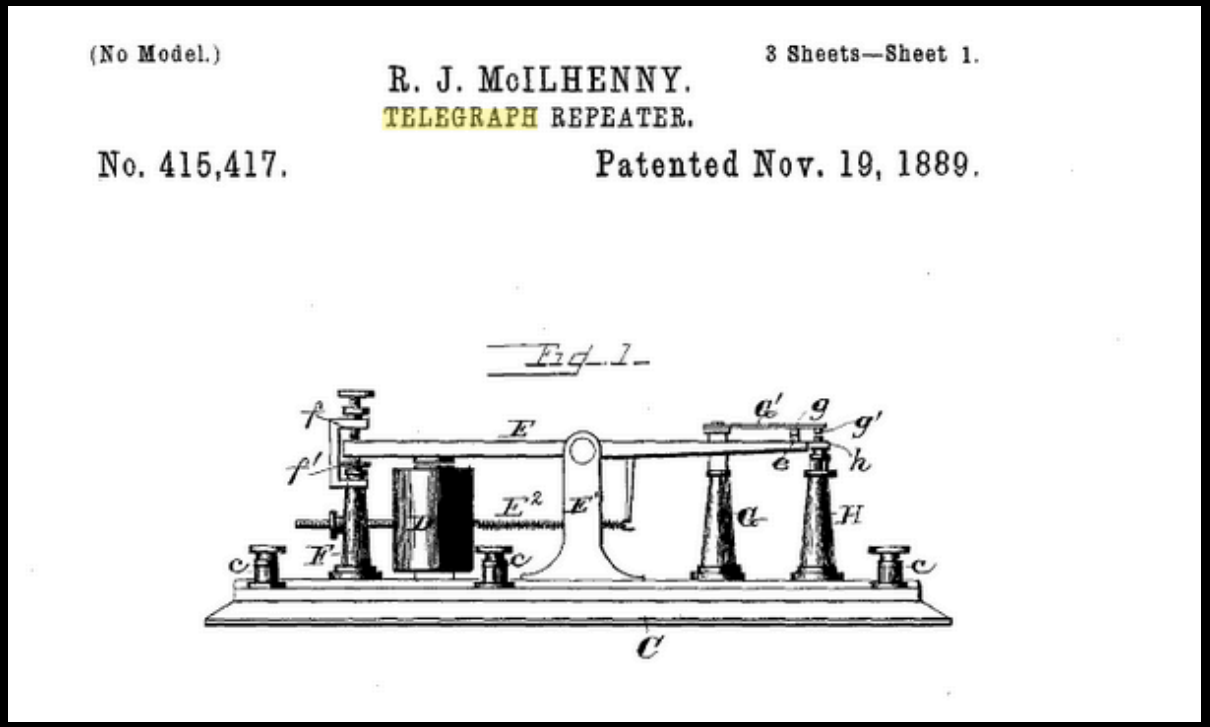
By Rainer Gemma Frisius



http://goo.gl/91lBP



Connection



(No Model.) 3 Sheets—Sheet 1.

R. J. McILHENNY.

TELEGRAPH REPEATER.

No. 415,417. Patented Nov. 19, 1889.

Fig. 1.

http://www.w3.org/TR/netinfo-api/

Contacts

Warning: not of the web!!

device.name
device.cordova
device.platform
device.uuid
device.version

(Runtime introspection.)

deviceready
pause
resume
online
offline
backbutton
batterycritical
batterylow
batterystatus
menubutton
searchbutton
startcallbutton
endcallbutton
volumedownbutton
volumeupbutton

File API

Geolocation!!

Muahahah!

http://en.wikipedia.org/wiki/Globalization

Audio,
Video,
and...

Notification

Splashscreen

Storage

Distribution?

Who is building hybrid apps

Google and Apple have the two most popular Hybrid applications...

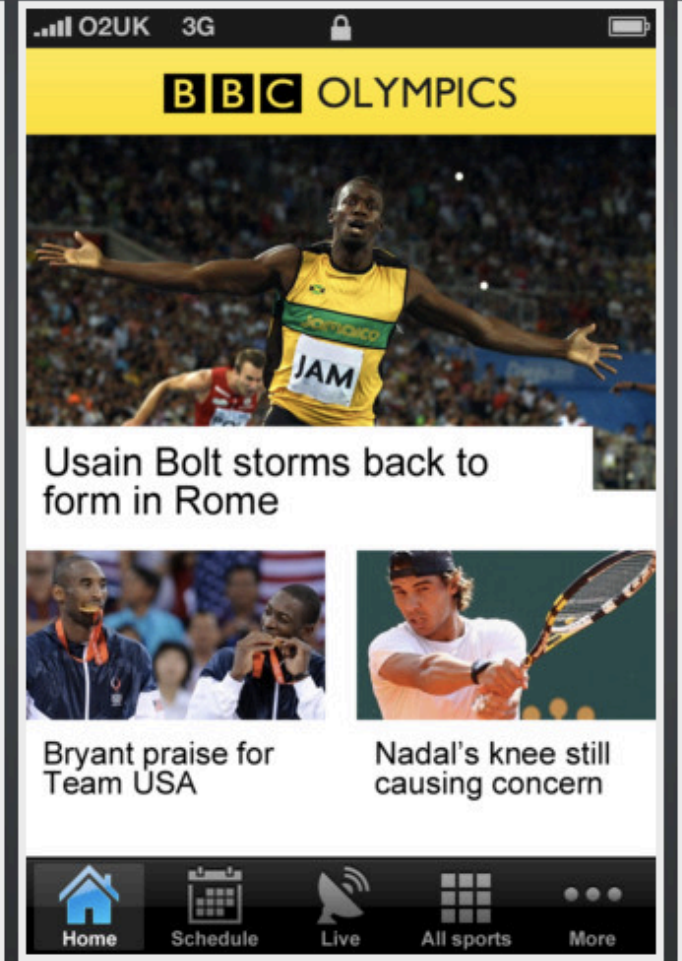
Web Operating Systems

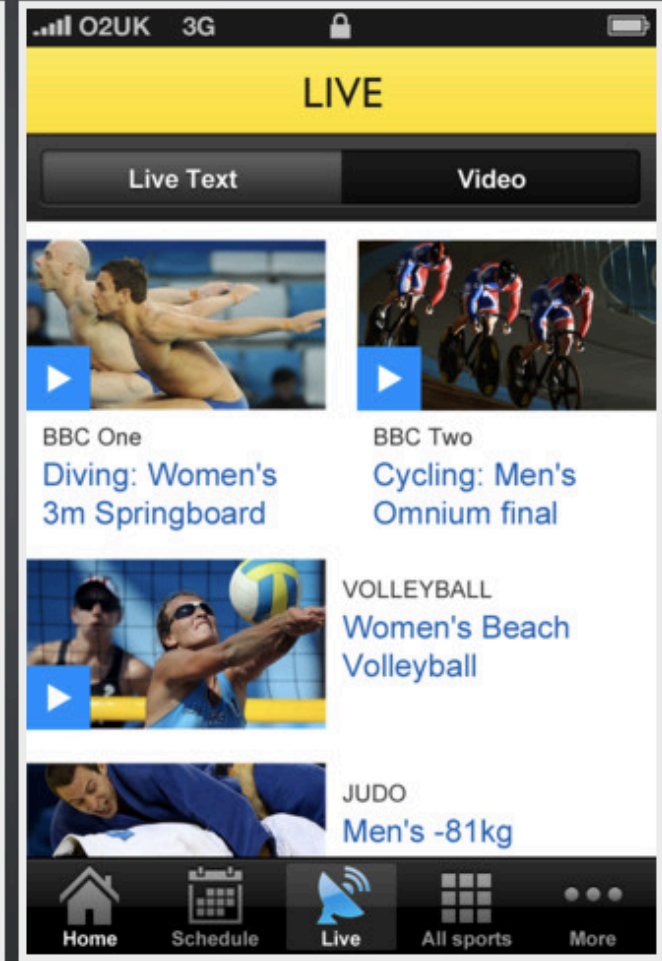
- Firefox OS
- Windows 8
- ChromeOS
- Tizen
- webOS

Hybrid, web, or native? All of the above.

Who is building
hybrid **apps**

BBC
THE OLYMPIC BROADCASTER


O2UK 3G
BBC OLYMPICS
Usain Bolt storms back to form in Rome
Bryant praise for Team USA
Nadal's knee still causing concern
Home
Schedule
Live
All sports
More


O2UK 3G
LIVE
Live Text
Video
BBC One
Diving: Women's 3m Springboard
BBC Two
Cycling: Men's Omnium final
VOLLEYBALL
Women's Beach Volleyball
JUDO
Men's -81kg
Home
Schedule
Live
All sports
More

COLLECT CARDS
435/540
Fighter
(3W6PF1)
ATK Deck
31,900
DEF Deck
31,120
Cards
20/56
Gems
14/77
LEVEL UP!!
TRAIN / FUSE
VS
DUEL FRIENDS
221/520
YOU WON

Carrier 2:59 PM

Search

Today's featured article

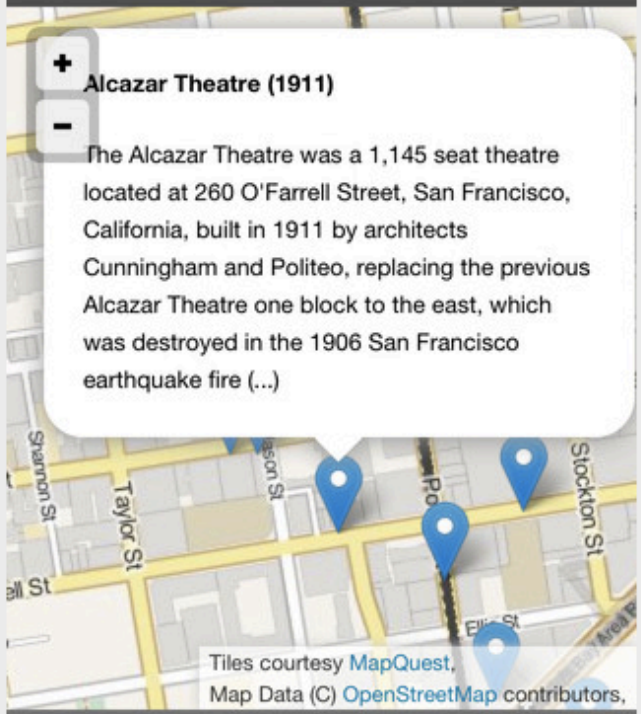
The **Court of Chancery** was a court of equity in England and Wales that followed a set of loose rules to avoid the slow pace of change and possible harshness (or "inequity") of the common law. The Chancery had jurisdiction over all matters of equity, including trusts, land law, the administration of the estates of lunatics

Carrier 3:48 PM

Nearby pages

Alcazar Theatre (1911)

The Alcazar Theatre was a 1,145 seat theatre located at 260 O'Farrell Street, San Francisco, California, built in 1911 by architects Cunningham and Politeo, replacing the previous Alcazar Theatre one block to the east, which was destroyed in the 1906 San Francisco earthquake fire (...)



Tiles courtesy MapQuest,
Map Data (C) OpenStreetMap contributors,

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English

Simple English

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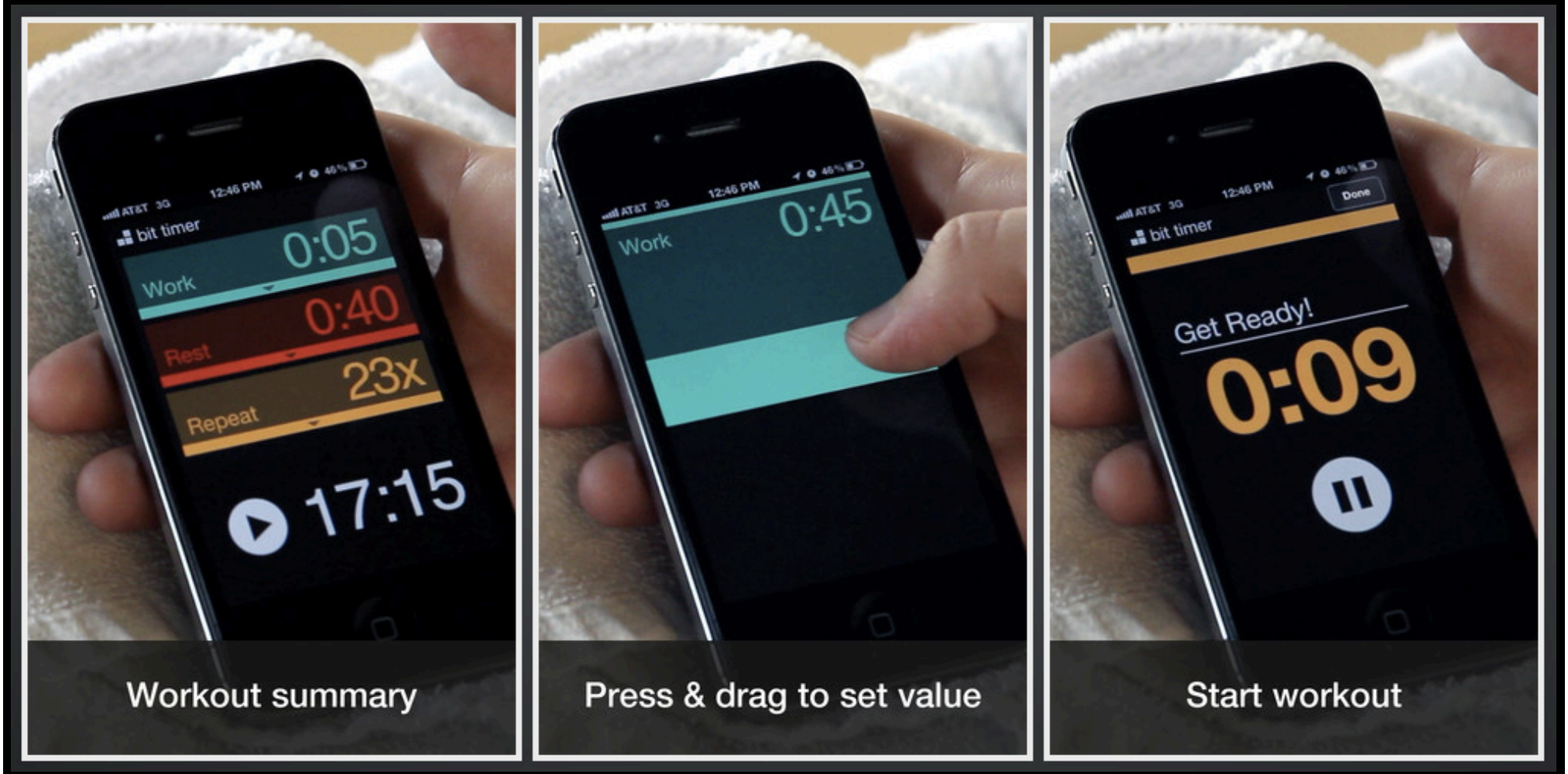
UNTAPPD
DRINK SOCIALLY
Be sure to always drink responsibly.
UNTAPPD
FRIENDS
GLOBAL
NEARBY
Kim's Kokomo Bar & Grill
Kim Johnson
30s
Devil's Backbone
Real Ale Brewing Company
DISCOVER
Brewtopia
Charleston International ...
Bob Kennedy
1m
Pale Ale
Palmetto Brewing Company
THE PUB
DISCOVER
DRINK UP
MY TAB
NOTICES
Back
UNTAPPD
Near: Main Street - NYC, New York
Takeanotherswig was last seen at Rivington Music Rehearsal Studios about 1 hour ago
THE PUB
DISCOVER
DRINK UP
MY TAB
NOTICES


AT&T 3G
12:46 PM
bit timer
Work
0:05
Rest
0:40
Repeat
23x
17:15
Workout summary
AT&T 3G
12:46 PM
Work
0:45
Press & drag to set value
AT&T 3G
12:46 PM
Done
bit timer
Get Ready!
0:09
Start workout

Who works on it?

Microsoft
Google
Intel
Mozilla

Adobe
IBM
RIM
Nokia

Join us.

http://cordova.io

How does it work anyhow?

Release Philosophy

2013 Roadmap

- Plugin packaging.
- Plugin install/remove.
- Plugin discovery.
- The ‘master script’.
- Ripple for default emulation.
- Core API audit, and migration.
- Notification Center.
- Native controls for pickers. (File, Contacts, Etc.)

Thank you.

@brianleroux