

Responsive News

< matt.chadburn@bbc.co.uk >, 2011-07

Lead Web Developer BBC News

- Current mobile browser landscape
- Some demo's
- Why responsive design is a Good Thing

In the old days*,
screensize was
proportional to
capability

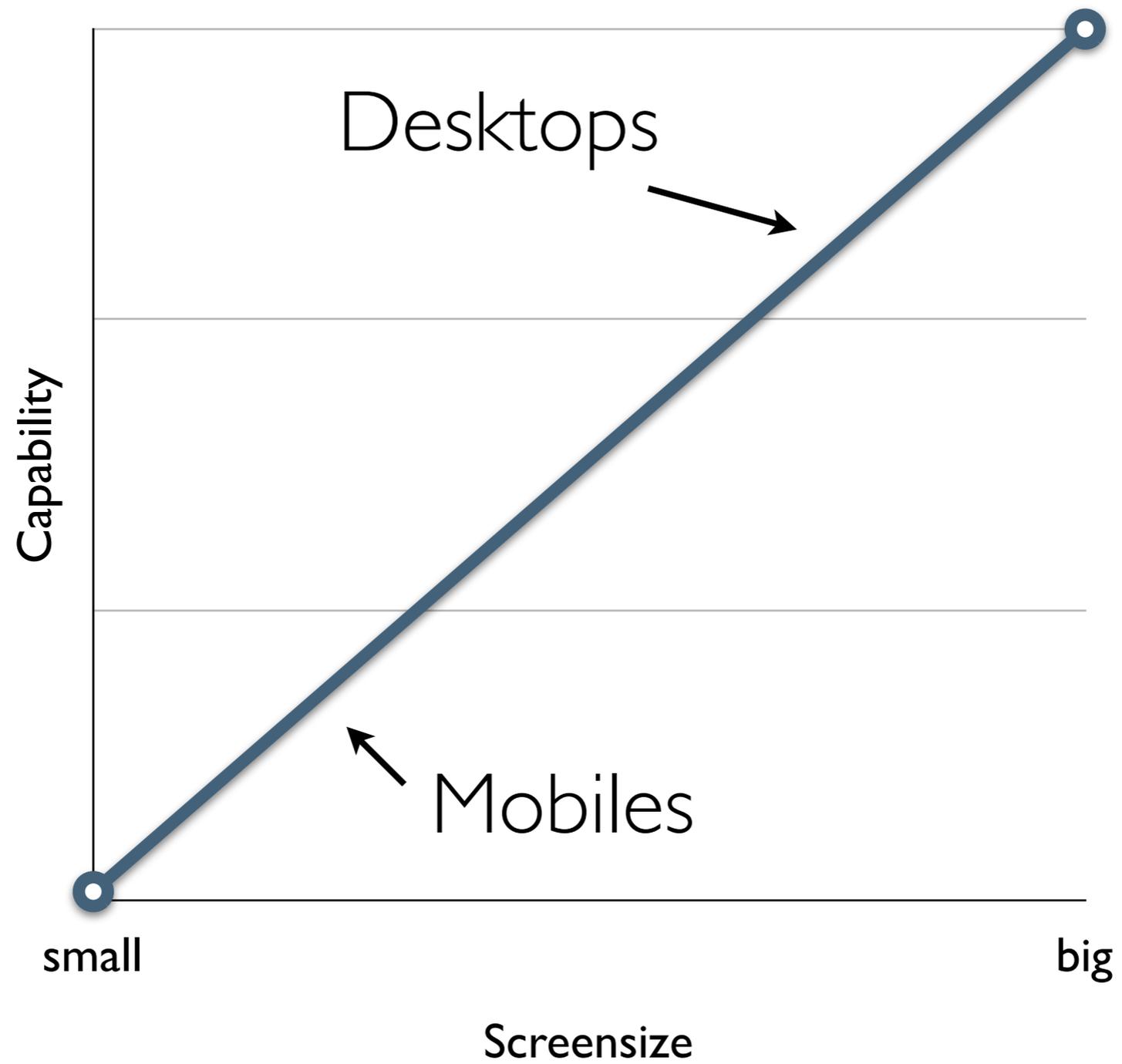
* 2006

**Low
(incapable)**



Hi
(capable)





So, we built
example.com and
m.example.com

Device explosion



Small Ones



NOKIA

Squat Ones



Ginormous Ones



Tactile Ones

Voice Controlled Ones



Retro Ones





← 2g

Bandwidth-challenged Ones

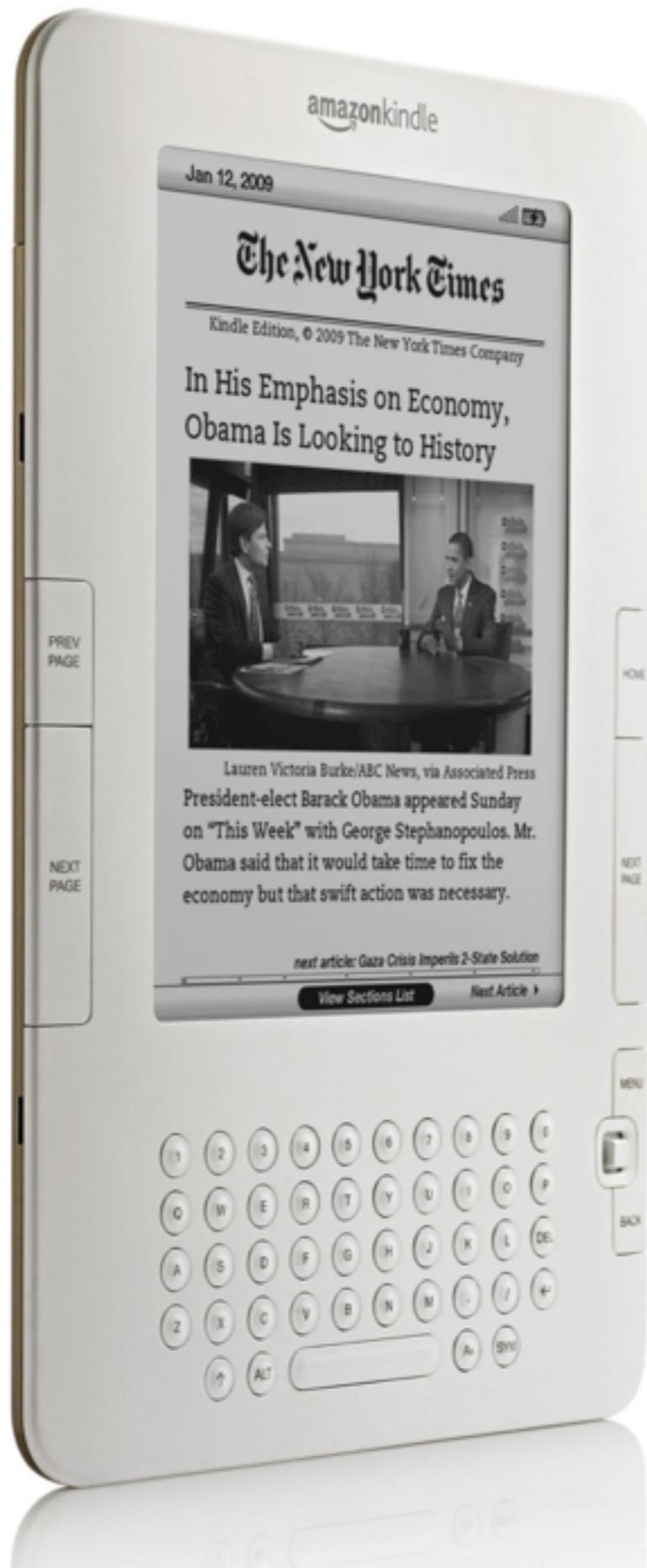
Quick Ones

4g (100 Mbit)



Expensive Ones





Monochrome Ones

Embedded Ones



3D Ones



These things are not
mutually exclusive

Devices can be rotated
to become tall or wide

Devices can connect to
both wifi or 3g to
become quick or slow

Devices ship both
touchscreens, trackballs
and microphones to
provide
multiple inputs

Meanwhile,
back at the ranch...



At same time the
browser desktop market
became competitive
again



Browsers
became
platforms on
which to build
applications



Device API and Policies WG

<http://www.w3.org/2009/dap/>

Device APIs and Policy Working Group

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[Draft and Approved Minutes](#) | [Participants](#) | [Patent Policy Status](#) | [Implementations.wiki](#) | [WebApps.WG](#) | [HTML.WG](#)

Act:

["My Actions"](#) | ["My Questionnaires"](#) | [Open Issues](#) | [Open Actions \(text\)](#) | [Pending Actions \(text\)](#) | [Scribing](#) | [Public email list](#) | [Member email list](#)



Mission

As defined in its [charter](#), the mission of the Device APIs and Policy Working Group is to create client-side APIs that enable the development of Web Applications and Web Widgets that interact with device services such as Calendar, Contacts, Camera, etc. Additionally, the group will produce a framework for the expression of security policies that govern access to security-critical APIs (such as the APIs listed previously).

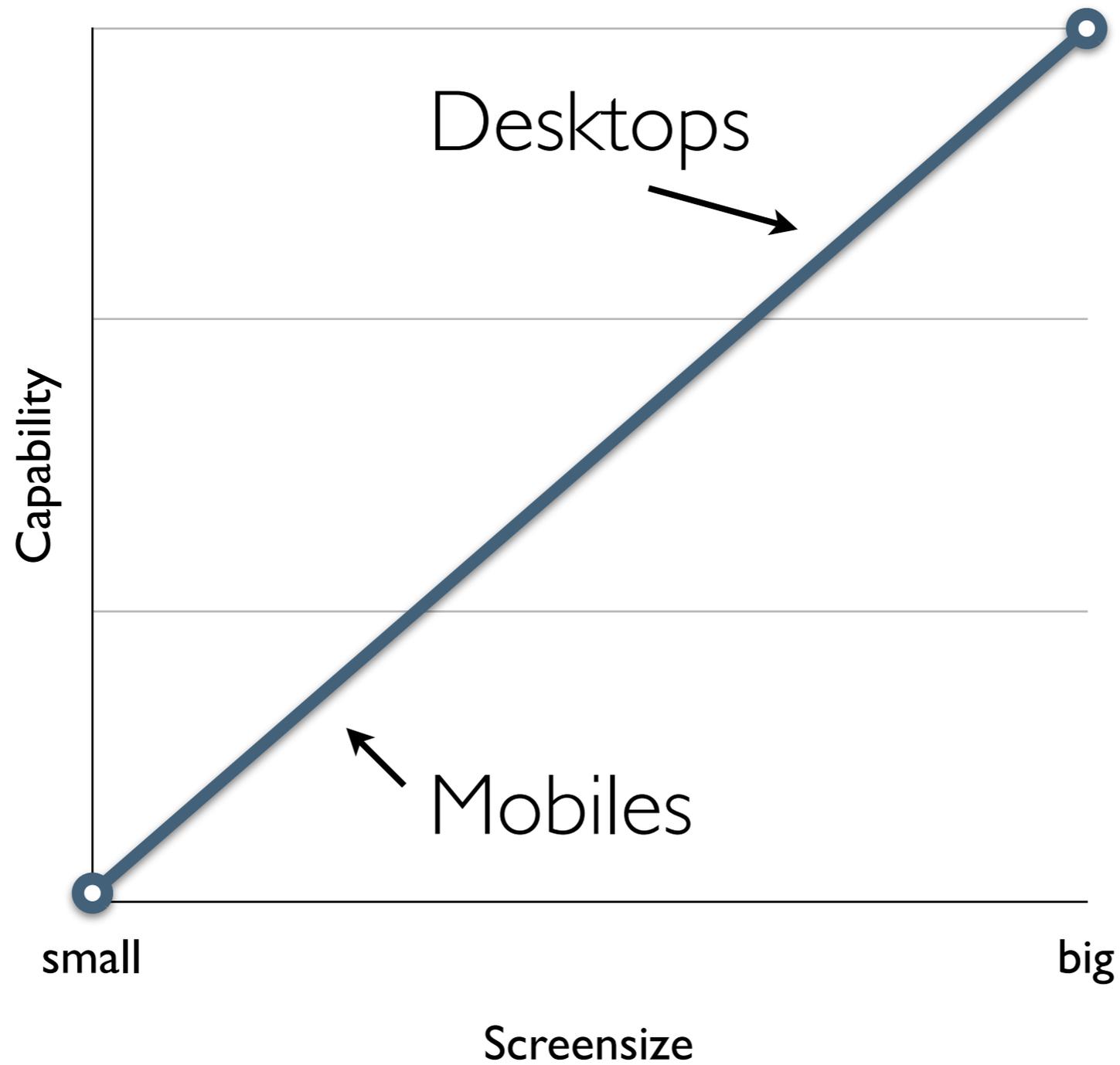
Roadmap

As every Working Group, the Device APIs and Policy Working Group aims at gathering consensus on its specifications, both within the Working Group and with the community at large, working through an iterative process with implementors to ensure that the specifications are implementable and implemented.

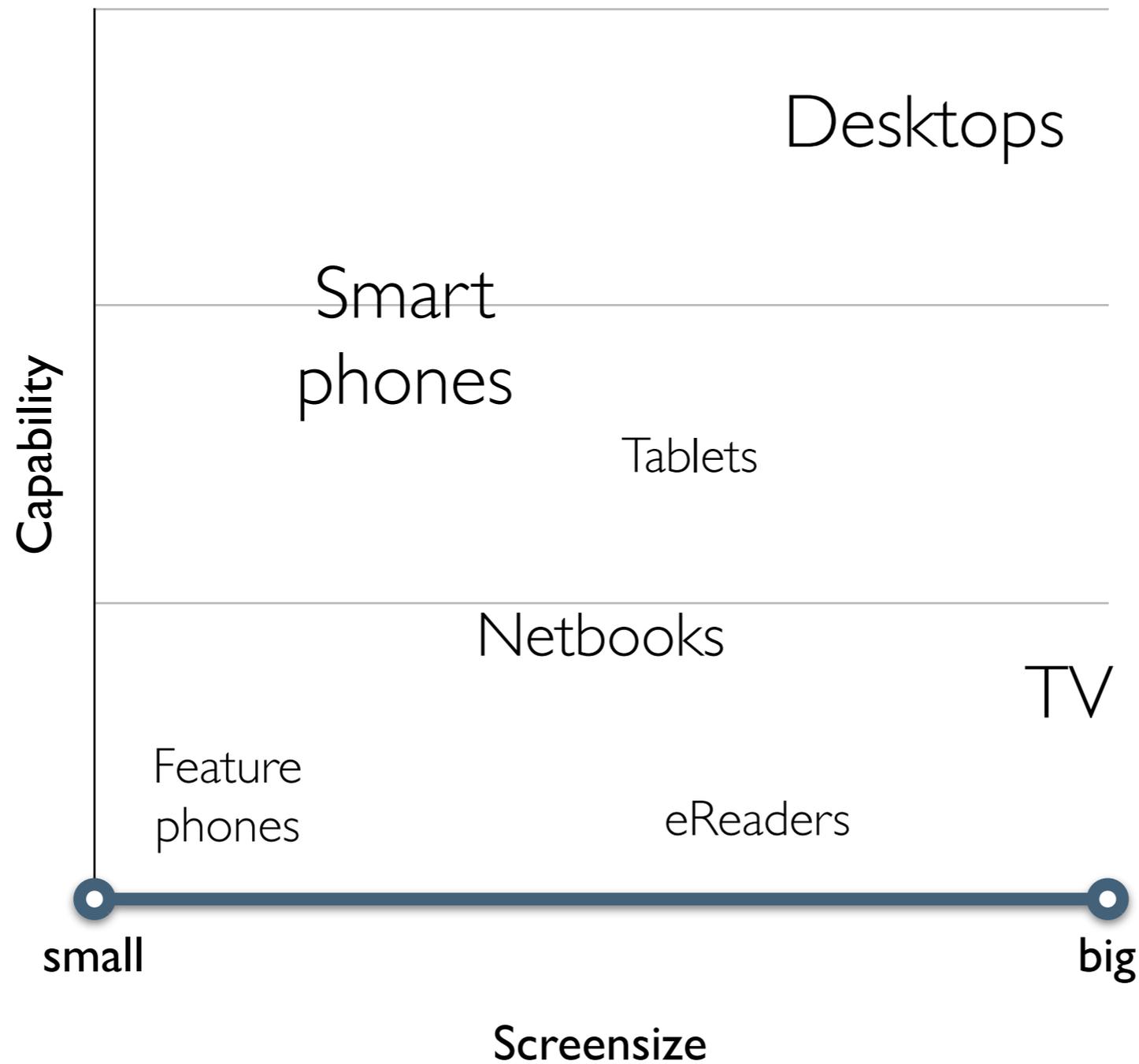
NB: the dates marked with a question mark have not been approved by the Working Group yet.

Specification	Internal draft	Public Working draft	Stable draft (Last Call)	Implementors feedback (CR)	Standard (Rec)	Test Suite	Notes
Priority APIs							
Contacts (reading from addressbook)	19 Jul 2011	9 Dec 2010	16 Jun 2011	Sep 2011?		draft	
Calendar	05 May 2011	19 Apr 2011	Sep 2011?				Dependency on TZDate
HTML Media Capture (camera/microphone interactions through HTML forms)	06 Apr 2011	14 Apr 2011					Relation to HTML5?

Broke



Reformulated?



“We take comfort in explicit requirements as they allow us to compartmentalize the problems before us”

Ethan Marcotte, Responsive Web Design

*“Flexible, device
independent design for
the web”*

<http://www.alistapart.com/articles/responsive-web-design/>

Feature design across axes

- Screensize (orientation, resolution, viewport)
- Connection speed
- Colour
- Interaction (touch, mouse, voice)
- Performance (cpu, memory)
- Standards support (css, js, html5, DAP etc)

Why?

“even Google [is] not rich enough to support all of the different mobile platforms...”

Vic Gundotra, VP of engineering at Google

Mobile is overtaking
web traffic

Features built once and
release simultaneously
on many platforms

Quickly adapt when a
new device or feature
arrives

It's CDN-able

One code base

One UX and a single
conceptual model
across devices

A core content model across devices

Hosted on a
single URL space

Thanks

- Mark Hurrell
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- Mel Seyer
- Stuart Bayston
- Heenesh Patel
- Adrian Hall
- Kate Milner
- Josh Chisholm

Photo Credits

- delafuente
- ivyfield
- rolikeusch
- donnie_bling
- griffintech
- garryknight
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