

HTML5 Internet Briefing TechTalk

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NOW
EVEN
BETTER

HTML

The saga continues

HTML 1

«vague but interesting»



HTML 2

«one consortium to rule them all»



HTML 3

«one consortium to rule them all»



<blink>

«must have cooler tags than Microsoft!»

<marquee>

«must have cooler tags than Netscape!»

HTML 4

Netscape, Microsoft and Sun «united»



TITANIC

www.titanicmovie.com

CSS

«I give up <blink> if you give up <marquee>»

DOM

«My Jscript, your Javascript»

IE WON

XHTML

«XML will be the future»

who cares

«No incentive to innovate (IE) or to comply (authors)»

10 yrs later

HTML4

WON

XHTML 2

«a new web built on XHTML+SVG+SMIL+XFORMS»

draconic

«<p><a>the web ..</p> is so wrong»

academic

«General declarative interactive document language.
Last update: 2006, major browsers supporting it: 0»

WHATWG

«the W3C won't help .. let's create a mailing list»

Let's play

«Opera, Apple and Mozilla – and an open process »

**«Anything should be
hackable, anything should be
scriptable.**

**We need to get out of plugin
prison.»**

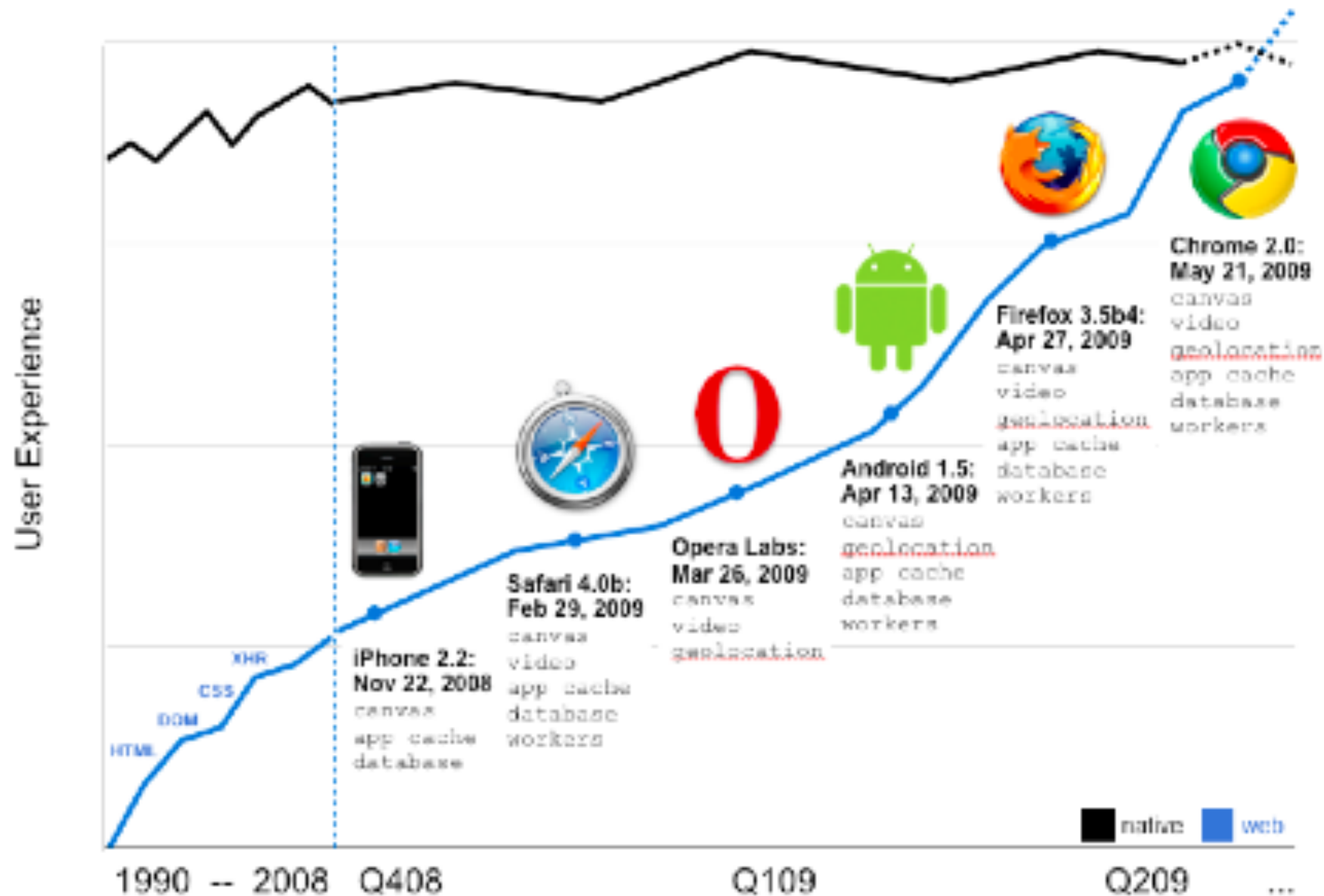
**«We reject: kings,
presidents, and voting.**

**We believe in: rough
consensus and running
code.»**

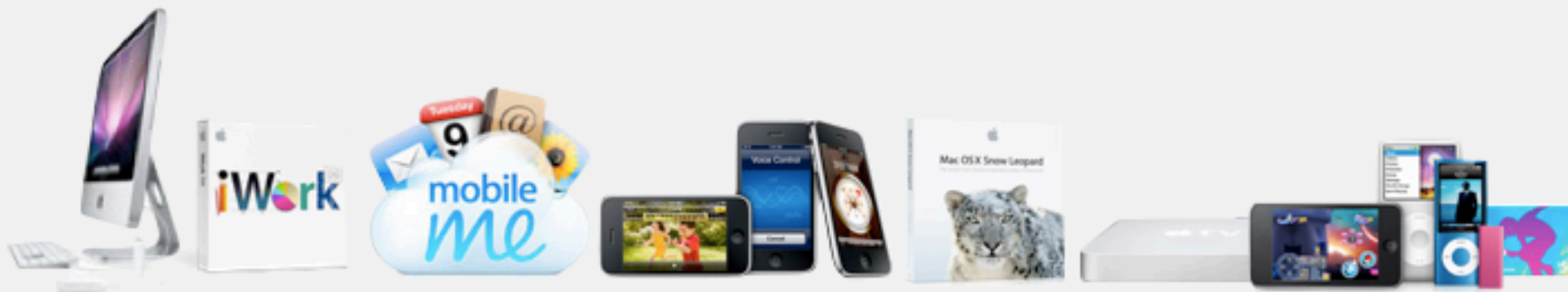
Google

«Flash, Silverlight and JavaFX are all evil!»

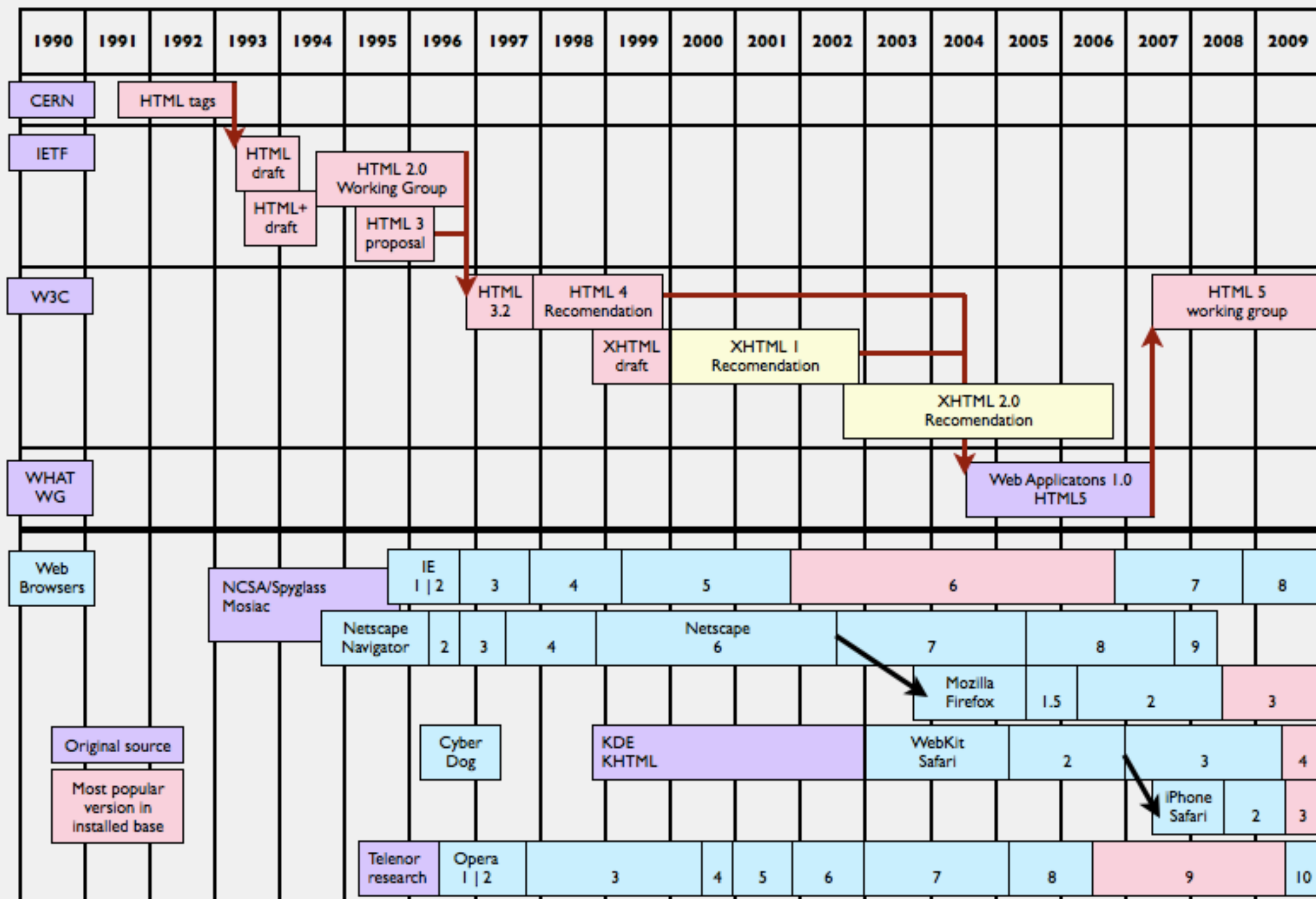
The Web Platform is Accelerating



Of Apples and Palms



Web Applications	MobileMe iWork.com	iPhone Web Apps	Widgets Web Clippings	iTunes LP / Extras iTunes Store
Rendering Applications	Safari Browser Mac Windows	Mobile Safari iPhone	Dashboard Mac OS X	iTunes 9 Mac Windows
Rendering Engine	WebKit WebCore JavaScriptCore			
Foundational Technologies	JavaScript Frameworks SproutCore TuneKit	Cocoa Touch	OpenGL CoreGraphics	QuickTime



Code, now!

Chregu! It's urgent! :)

The HTML5 features

- » A rundown of some important HTML5 features
- » Browser compatibility
 - » Firefox = Firefox 3.5
 - » Safari = Safari 4 / Safari Mobile
 - » IE 8 = IE 8
 - » Gears = Google Gears
- » No Chrome, Opera and others
- » “Useable” Award = IMHO

Google Gears

- » A Browser Plugin
- » For IE 6/7/8, Firefox, Safari, IE on Windows Mobile
- » Quite “old”
- » Not clear commitment by Google
- » Next: Chrome Plugin

Offline Mode



Useable

- » Allows people to work offline. Proxy like “server”
- » Most known example: Gmail Offline
- » Non-obtrusive Implementation possible
- » https://developer.mozilla.org/en/Offline_resources_in_FH
- » <http://html5demos.com/offlineapp>



Firefox



Safari



IE 8



Gears

Canvas/SVG

Not yet
useable

- » Pretty “old”
- » Allows to draw in the browser
- » Canvas for bitmap based
- » SVG for vector based
- » http://ponderer.org/download/canvas_demo/
- » <http://tenthpla.net/matrix/>
- » <http://people.mozilla.com/~vladimir/demos/photos.svg>

Firefox

Safari

IE 8

Gears

Audio/Video

Not yet
useable

- » Play Audio / Video natively
- » `<video src="http://my.domain.com/foo.ogg">`
- » No standard codec...
- » https://developer.mozilla.org/En/Using_audio_and_video
- » http://people.xiph.org/~maikmerten/demos/arctic_giant.html

Firefox

Safari

IE 8

Gears

Drag'n'Drop Any

Useable

- » Files, Links, Images, Text
- » From Desktop
- » Not all support everything
- » <http://html5demos.com/drag-anything>

FirefoxSafariIE 8Gears

Geolocation



Useable

» Find out where your users are.

» https://developer.mozilla.org/En/Using_geolocation

» <http://html5demos.com/geo>



Firefox



Safari
Mobile



IE 8



Gears

Local Storage



Useable

- » Store large amount of data locally
- » Can be used instead of Cookies and/or Sessions
- » <http://html5demos.com/storage>
- » <https://developer.mozilla.org/en/DOM/Storage>



Firefox



Safari



IE 8



Gears

Local Database



Useable

et
ble

- » A local SQL database in your browser
- » <http://labs.liip.ch/gearsdemo/index.html>
- » <http://html5demos.com/database>



Firefox



Safari



IE 8



Gears

File Upload via

Useable

- » Upload binary data in the background
- » Progress Bar
- » <http://hacks.mozilla.org/2009/06/xhr-progress-and-richie-uploading-feedback/>
- » <http://pecl.php.net/package/uploadprogress>

FirefoxSafariIE 8Gears

Cross Site XHR

Not yet
useable

- » Use XMLHttpRequest with other domains
- » “Complicated” on server side
- » IE 8 has its own API
- » https://developer.mozilla.org/En/HTTP_access_control
- » <http://arunranga.com/examples/access-control/>

Firefox

Safari

IE 8 *

Gears

Cross Document



Useable

- » Communicate between frames and documents
- » Was highly annoying to do before
- » <http://ejohn.org/apps/message/>

Firefox

Safari

IE 8

Gears

DOM Selectors

Useable

- » Like jQuery/YUI Selectors, but native
- » `document.querySelector('#myheader')`
- » `document.querySelector('p.description')`
- » https://developer.mozilla.org/En/DOM/Locating_DOM_elements_using_selectors
- » http://www.javascriptkit.com/dhtmltutors/css_selectors

Firefox

Safari

IE 8

Gears

Other features

- » Native JSON
- » New HTML Elements (<header>,<footer>,<article>,<section>..)
- » HTML and XHTML
- » MathML and SVG within HTML
- » More powerful forms
- » Microformats
- » ContentEditable

HTML/Ajax vs Flash

- » 3 Years ago: Ajax vs Flash
- » <http://liip.to/FlashVsAjax> -> It was even
- » And today?

Evolution vs Revolution

- » Upgrade Angst
- » Markets vs Committees?
- » Too big to evolve?

Links

- » <http://dev.w3.org/html5/spec/Overview.html>
- » <http://slides.liip.ch/>
- » <http://liip.to/html5comparison>
- » <http://html5demos.com>

- » hannes@liip.ch
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