

HTML5 - so what?!

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HTML4



HTML5



HTML5



Agenda

- HTML5 History
- HTML5 Highlights
- HTML5 based development
- SumUp

HTML5 History

- Plugins for daily browsing increased a lot (especially Flash!)
- W3C occupied specifying XHTML 2.0
- 2004: W3C members (Apple, Mozilla, Opera representatives) found WHATWG Web Hypertext Application Technology Working Group
- 2006 W3C & WHATWG decide to align the HTML5 strategy, base for the currently known HTML5 spec...



HTML5 Highlights

- Canvas element for drawing...
- audio/video elements for media playback
- local offline storage
- content specific elements (article, footer, header etc.)
- form controls (calendar, date, time...)
- Web Sockets

Canvas

- <http://www.redips.net/javascript/html5-canvas-example/>
- „your former Flash animation playground!“

Video

- http://www.kaltura.org/apis/html5lib/kplayer-examples/Player_Fallback.html
- define source queues in order to specify device specific video formats

Offline Capabilities

- <http://slides.html5rocks.com/#web-storage>
- Simple browserbased Offline API
 - SQLite...

Web Sockets

- enables you to handle serverside push...

```
function connect(){ try{ var socket; var host =  
"ws://localhost:8000/socket/server/startDaemon.php"; var socket = new WebSocket(host);  
message('<p class="event">Socket Status: '+socket.readyState); socket.onopen = function(){  
    message('<p class="event">Socket Status: '+socket.readyState+' (open)'); }  
    socket.onmessage = function(msg){ message('<p class="message">Received:  
' +msg.data); } socket.onclose = function(){ message('<p  
class="event">Socket Status: '+socket.readyState+' (Closed)'); }  
catch(exception){ message('<p>Error'+exception); }}
```

HTML5 based development

- miReport Reporting Solution
- sencha Touch Framework
- Heavy usage of Canvas/content spec. HTML elements
- demo...

miReport



HTML5 - developers view

- HTML5 = {HTML5, CSS3, JS, WebKit}
- plain HTML5 - still nasty!
- usage of HTML5 via lightweight frameworks is a suitable approach...
 - sencha Touch
 - iWebKit
 - jQTouch
 - ...

sencha Touch

- HTML5 mobile Web App Framework
- JavaScript
- Extensible & Customizable
- Good API documentation available
<http://dev.sencha.com/deploy/touch/docs/>
- Active and growing community
- Free!

sencha Touch Demo

 **Sencha Touch** Mobile JavaScript Framework



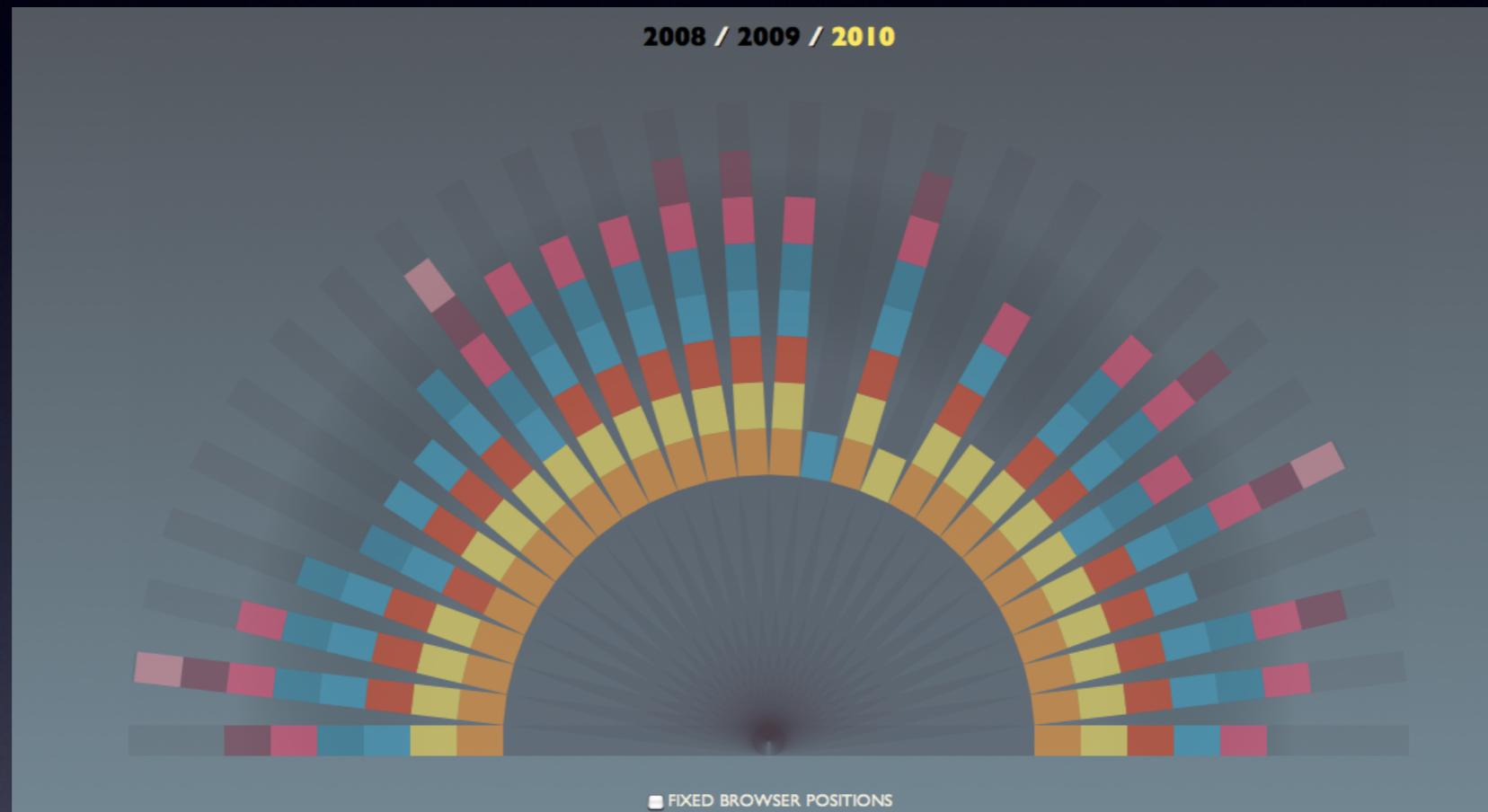
The First HTML5 Mobile Web App Framework

Sencha Touch allows you to develop mobile web apps that look and feel native on iPhone, Android, and BlackBerry touch devices.

SumUp

- HTML5 is an evolutionary step - not a revolutionary one!
- still high coding efforts required
- Ajax trouble: framework jungle remains
- not usable for heavy enterprise solutions...
- „nice add on“

SumUp



SumUp



...20% Substanz, 80%
(Milch-)Schaum

Links

- file:///Users/florian/Documents/Projects/2011_04_05_JUGS/examples/canvas.html
- http://www.kaltura.org/apis/html5lib/kplayer-examples/Player_Fallback.html
- <http://slides.html5rocks.com/#realtime-title>
- <http://html5readiness.com/>