copenhagen goto; conference

# WINK AND THE MOBILE WEB INNOVATION

**Jérôme Giraud**

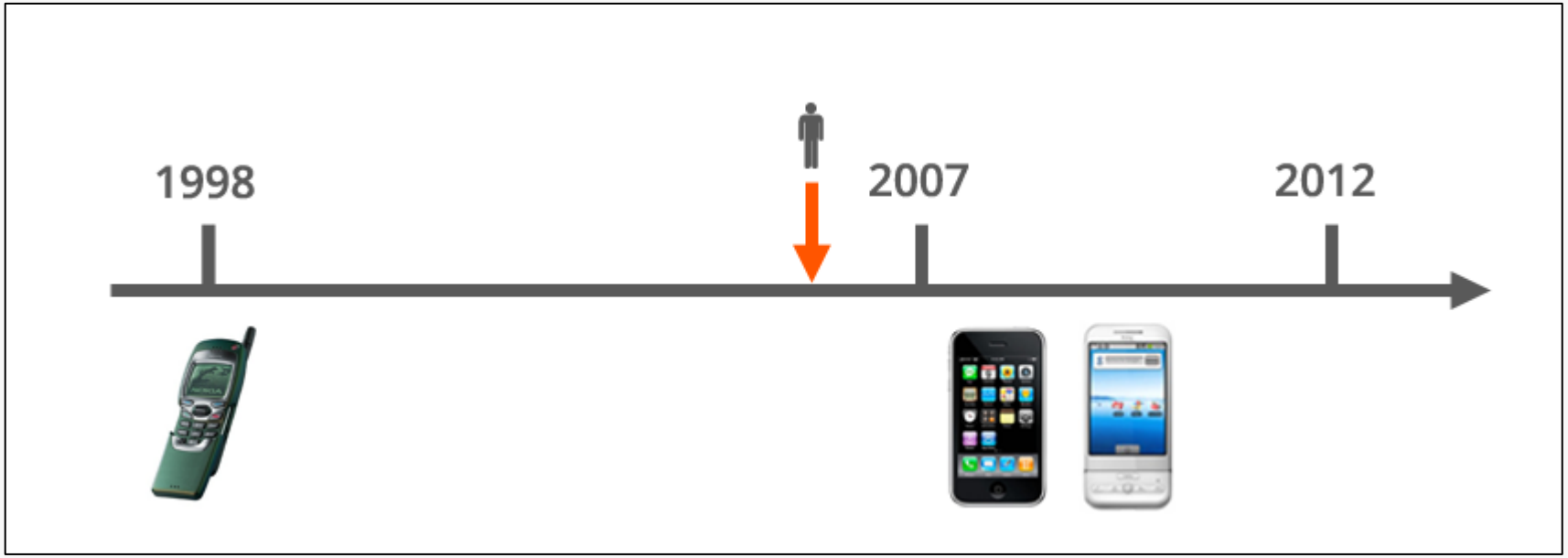
***Orange Labs***

INTERNATIONAL SOFTWARE DEVELOPMENT CONFERENCE

gotocon.com

# About me

I missed the glory days of the WAP but started building mobile web apps before iOS and Android arrived



# Different context

Different interaction methods

- touch screen
- pointer based

Small screen sizes

Limited device capabilities

Different networks

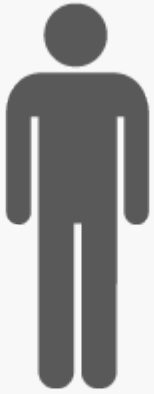
# Different expectations

Users want beautiful designs

- mostly inspired by apps

Users want applications that are adapted to their devices

- sliding / scrolling
- adapted to touch screens
- no need to zoom-in

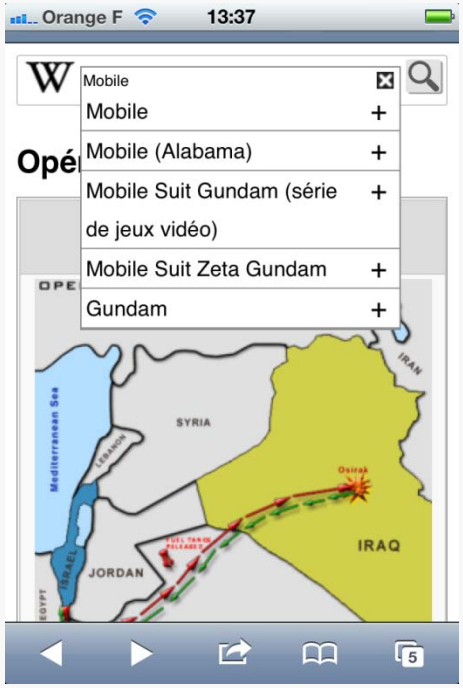


Users want responsiveness

# Different expectations

Before

Now



Wikipedia from a nokia S60 browser

Wikipedia from mobile Safari on iOS

Twitter web app from mobile Safari on iOS

# Different expectations

User are even looking for fun/disruptive experiences

- Touch / Gestures / HTML5 / CSS3
- Take advantage of the mobile specific APIs
  - geolocation
  - device orientation
  - getUserMedia
  - …

For all these reasons

we built **WINK**

# What is Wink ?

a research project since

**2008**

a mobile JavaScript Framework since

**2009**

an Open Source mobile JavaScript Framework since

**2010**

# our goal:

providing you the right tools for
building great mobile webapps

# Where can you use Wink ?

On Mobiles

On Tablets

Not on Desktop

Not on TV

Not on Spaceships

Not on Connected Fridge

# Compatibilities

iOS

Android

BlackBerry

Bada

Opera Mobile, Firefox Mobile

Windows Phone 7

# What can you build with Wink ?

Full Web Applications

Hybrid Applications

# What can you build with Wink ?

## Simple web apps

- forms, lists, buttons…

## Complex web apps

- scroller, sliding panels, carousels, tabs, D&D…
- see the “kitchensink” web app

## Totally new experiences

- Brand new components: 3D, tag clouds, gesture recognition, advanced touch effects, device orientation…
- see the “tweet and flick” web app

# Characteristics

Wink is small, very small because mobile networks are sllooowww

- Wink Core: **20 kB** minified ; 7kB gzipped
- jQuery mobile + jQuery core : **171 kB** minified ; 61kB gzipped
- Sencha touch core: **90 kB** minified ; 32kB gzipped

Better Startup times

- Easy Caching: replicate the Application Cache behavior with storage APIs

Mobile users don't like to wait (no more than 5s)

# Characteristics

Wink is easy to use

- simple syntax
- not too many abstraction layers

```
wink.query('.myclass')
    .addClass('active')
    .translate(10, 5)
    .onTransitionEnd(myfunction);
```

# Characteristics

Wink performances have been optimized because mobile device are not all that powerful

- optimized animations
  - transforms VS properties animations VS JS animations
  - avoid flickering
- To be able to stand the comparison with native apps

# Not Just JS

Wink build tools helps you optimize your web app

- Create profiles to build per-platform / per-OS versions of Wink
  - I.e.: coverflow on iOS / carousel as a fallback
  - Different implementations
- Can be used with server side detection systems like WURFL
- Can be used to generate the right library package on the fly
- Can even be used to build your own optimized version of Wink core

# Build profile example

```
{
   "build": {
      "jsFile": "wink-VERSION-PROFILE-TARGET.js",
      "cssFile": "wink-VERSION-PROFILE-TARGET.css",
      "version": "1.4.2",
      "defaultLocaleList": [ "en_EN" ]
   },
   "profiles": [
      {
         "name": “default",
         "modules": [
            // CORE
            "core",
            // UI
            “coverflow“
          ],
           "css": [
                 "_themes/wink.css“
           ]
      }
   }
}
```

# Mixing Wink with other libraries

Wink implements AMD

- Asynchronous Module Definition
- it can be used with any AMD loader like requireJS

Mixing Wink and Dojo Mobile

Mixing Wink and jQuery

- beware of duplicate code

# WINK

in a real life example

# Wink in a real life example

m.orange.fr

- The new French Orange iPhone portal
- Millions of mobile web users

A disruptive user experience

A small team (dev + design) working together

# m.orange.fr

Before

Now

# m.orange.fr

http://www.youtube.com/watch?v=I7jcI2QlLZM

# 74/100

The best score ever obtained for an Orange service

Customer Test Center

# in real life:

mobile web users are
not afraid of changes

# Start right now

www.winktoolkit.org

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github.com/winktoolkit

-

twitter.com/winktoolkit

# THANK YOU

and see you soon on winktoolkit.org