

TIZEN™ DEVELOPER CONFERENCE MAY 7-9, 2012



Lessons Learnt Developing Tizen Apps

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Orange Labs UK

Mobile OS platform expertise

smartphone security and contactless

Application development & gamification

Design and Usability

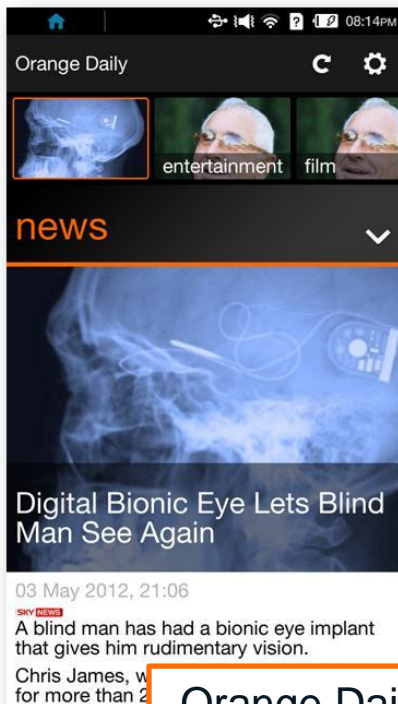
Long history in web technologies

- Orange web runtime with Opera
- Custom browser experimentation
- Helium browser for MeeGo (community edition)
- caching technologies to alleviate 3G bearer
- Standards contribution: BONDI and W3C

Orange Labs and Tizen

- Orange is now a proud platinum partner
- We have an excellent and strong relationship with Intel and Samsung
- Our mission
 - Support Samsung and intel in building Tizen platform and ecosystem from developer prospective
 - Built real world production quality application for first device

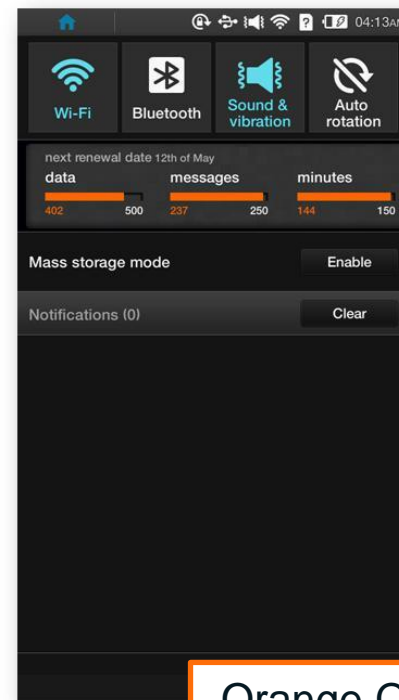
Orange applications for Tizen



Orange Daily



Orange TV



Orange Quantum

Challenges facing Tizen

- Achieving best in class browser runtime performance
 - for both web application and browsing experience
- Fragmentation
 - Tizen compliant devices
 - Other web enabled platforms
 - Web API's
 - HTML5 and CSS feature compliancy
 - performance

W3C, Orange and Facebook

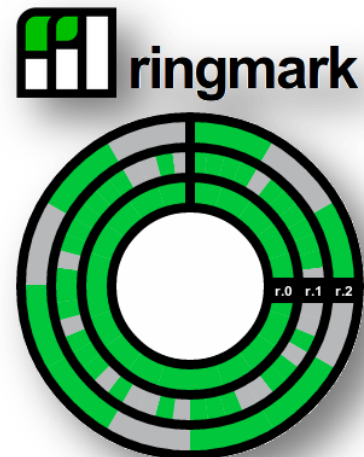
W3C

Core Mobile Web Platform Community Group

W3C®

Ubiquitous Web
domain

Device APIs Working Group Charter



The technical bit...

Our Team

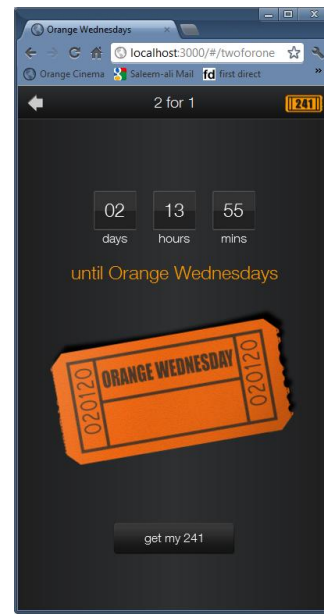
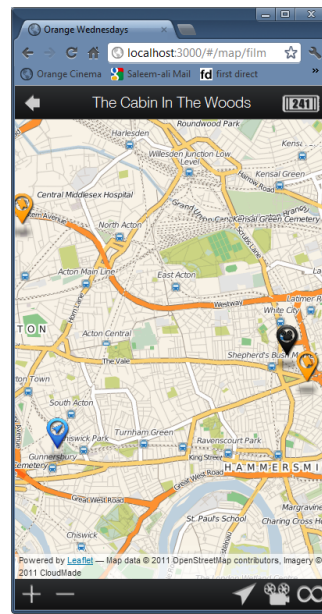
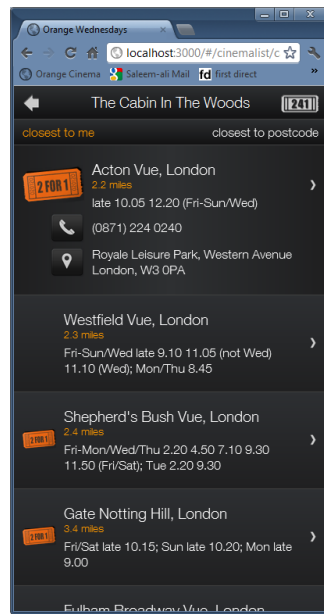
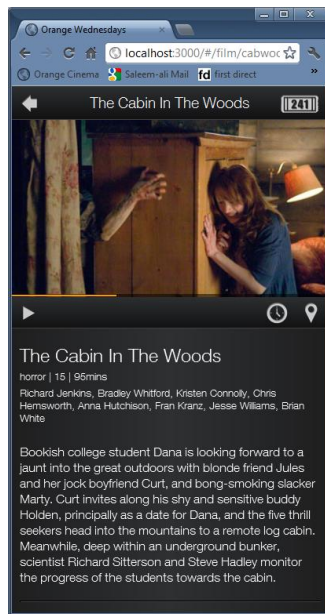
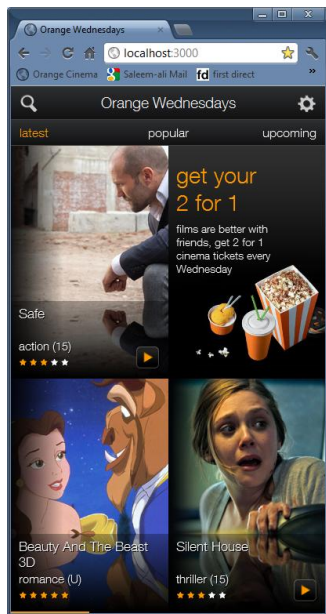
- Long history in Mobile Platform development
 - Symbian, MeeGo, (Qt), now Tizen
- Long history in browser technology
 - Development of mobile web runtimes and apps
 - Closely worked with Opera
- Support for Open Source
 - Many open source projects
 - Including open source browser used by Nokia

Orange and Tizen

- Support for Tizen throughout organization
- Deep engagement with Samsung/Intel
- Early porting of our apps to Tizen
 - Friendly feedback
 - Build expertise
 - Identify issues
 - Evolve platform
- Visit us at our stall and see our apps

Orange Wednesdays Case Study

- Orange Wednesdays Demo



1 – Libraries for everything

- Backbone
- iScroll
- Crypto
- Mushtache
- Leaflet
- Tappable



BACKBONE.JS



2 - Performance

- WAS a major concern
- Performance has steadily improved
- Orange Wednesdays grid screen
 - Normal HTML
 - Dynamically drawing canvas
 - Static canvas + iScroll
- Use loading screens
 - Simultaneous loading and transitions causes stutter

3 – Cross Platform 1

- HTML5 is cross-platform
 - Or is it?
 - Writing web app not web site
- Minor adjustments
 - Works with WebKit (mobile/desktop), Opera, Mozilla
 - Not IE

3 – Cross Platform 2

- Handle onresize – think about landscape
- Use `em` and % for sizes
 - Adjust font-size for high DPI
- Layout
 - Use of CSS box layouts/flex
- NodeJS for desktop support
 - XSS

```
if(typeof window.tizen=== 'object') {  
  this.platform = "tizen";  
  $('body').css("font-size", "200%");  
}
```

```
body {  
  font-size: 100%  
}  
  
.toolbar {  
  height: 2.8em;  
  width: 100%  
}
```

4 – Dev Tools

- Tizen uses Eclipse BUT...
- Why support desktop?
 - Development is faster and convenient
 - NodeJS – instant changes
 - Advanced text editor
 - Chrome
- Factor out platform specifics

5 – General

- Strong and clear messages to developers
 - EFL or Web
 - Platform apps should also use same as developers
 - JQuery Mobile
- SDK documentaion
 - Poor, samples, API docs
- Working with Samsung has been a great experience
 - Responsive, open, helpful – good signs!
- Stronger standardization
 - WebWorks, Boot to Gecko, others
- API coverage

Contact Us

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- Happy to help!

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