

Next in Mobile Search: Recommended Web Standards Close By

François Daoust <fd@w3.org> W3C Mobile Web Initiative

http://www.w3.org/2010/Talks/06-mobilesearch/

Exploring the Future of Mobile Search Ghent, Belgium, 9 June 2010



The research leading to these results has received funding from the European Union''s Seventh Framework Programme (FP7/2007-2013) under grant agreement n°248687 - Open Media Web (OMWeb)

Outline



Photo by Elaine Vallet

- 1. The World Wide Web Consortium
- 2. Desktop/Mobile Content/**Context**
- 3. Mobile context is...
- 4. Device APIs
- 5. Next standards?
- 6. Privacy issues

The W3C

"Leading the Web to its full potential..."

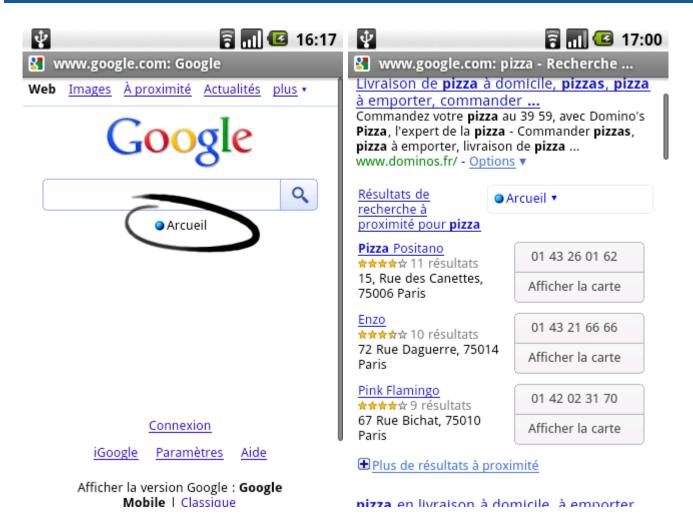
- Web Standards (X)HTML, CSS, XML, SVG, PNG, XSLT, WCAG, RDF, ...
- **Consortium** 420 members, from industry and research
- World-wide

Offices in many countries, including Brazil, China, India, Morocco, South Africa, ...

- One Web! Founded and directed by inventor of the Web, Tim Berners-Lee
- The Mobile Web Initiative Created in 2005 to make Web access from a mobile device a reality



Desktop search vs. Mobile search



Context is essential in mobile search to filter out possible responses.

Mobile context is...

- **Geolocation**, where the user is (through GPS, triangulation, set by user)
- What the user **sees or hears**
- What the user **is** (age, gender, height, weight, job, income, ...)
- What the user **has** (car, computer, music, purchases, ...)
- What the user **knows** (studies, known movies, music)
- expressed interests (sports, hobbies, blog posts, comments)
- Friends (for recommendations)
- ...

Plus **history** for each of the above.

This is mobile search



Augmented reality is mobile search

Privacy issues

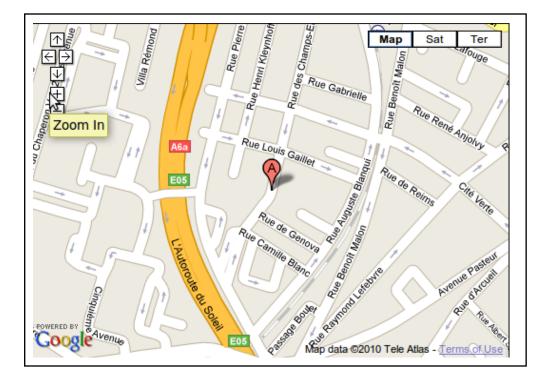


Device APIs



Device APIs and Policy Working Group

Geolocation API example



Locate me!

Longitude: N/A

Latitude: N/A

Next possible standards?

- Media ontology
- Delivery Context Ontology
- Memento to add time to the Web
- Metadata format for Web applications to ease discovery
- Attention Profile Markup Language (APML)
- Augmented Reality Markup Language (ARML)
- More device APIs (e.g. speech input tag)
- Interactions with social networks
- Best practices to write context-aware mobile Web content
- Speech synthesis
- Gestures

Conclusion

- Mobile search needs to link context with content
- Many possible dimensions to define a user context and to flag content
- Info for both context and content spread all over the Web
- Web standards to enable applications at a global level
- Privacy issues cannot be dismissed, even though mentalities change

Contact

François Daoust <fd@w3.org>

W3C Mobile Web Initiative http://www.w3.org/2010/Talks/06-mobilesearch/