



Directorate-General for Translation

Standards for multilingual web sites

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Multilingual Web Sites (MWS)

- Web sites with multilingual parallel texts
 - Texts that are translations of each other
- Most EU institutions are MWS
 - <http://europa.eu>
- Necessary for a real multilingual WWW
- Great practical relevance



Principles

- **Break nothing**
 - Forget about changes to the basic standards
 - Enter the dance without causing any missteps
- **It will take a lot of work and time**
 - To create the standards and programs



Two sides of the same coin

■ User

- Readers of web sites
 - Admittedly, users are often content contributors

■ Webmaster

- Builders of web sites
 - An idealised function that are in fact many functions

■ This is a simplification

- The real world is more fuzzy



Present situation

■ User

- No consistent multilingual user interface
- User have different experience when visiting unrelated MWS; and even in the same web site
 - **The user should always have the same experience in MWS**

■ Webmaster

- Bespoke systems are built each time
- It should be possible to built a new MWS with standard off-the-shelf software
 - **Existing software are not interoperable**
 - **Each CMS keep the data in their way**



Point of views

■ User

- Mostly monolingual or get a second-best language
- Language selection is just hurdle
- Like localization (L10N)

■ Webmaster

- Must manage a multilingual system
- Building and maintaining systems with parallel texts is complex
- Like internationalization (I18N)



Characteristics

- **User**
 - Grand public
 - A small additional complexity could be disastrous
- **Webmaster**
 - Professionals
 - A bit more adventurous, but not much



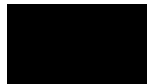
Interfaces

■ User

- Interface browser ↔ server
- Standards: well established
 - **Additional guidelines are needed**

■ Webmaster

- Interface server ↔ content
 - **Even the directory based content is not fully compatible**
- Standards: practically none



User 1

- User interface - best practice guide
- Interface browser ↔ server
- Main functionalities
 - Get the best page
 - See other variants (linguistic versions)
- Implementations
 - Browser side
 - Server side



User 2

■ Browser side

- Language button in the browser
 - Using HTTP header fields
 - Implementable with current specifications
- Transparent Content Negotiation (TCN), cookies, etc
 - Very good, but little used – it might be too smart
 - Language is just one of the dimensions in TCN

■ Server side

- A reserved URI – `http://example.com/mypage/variant`
 - This will show all the variants for the page “mypage”
 - Another approach is a federation of server a la Wikipedia
 - ☐ `http://de.wikipedia.org` - `http://fr.wikipedia.org`



User 3

- Translation request
 - As potentially available language – a variant
 - Immediately or referred
 - This will integrate machine translation
- Variants might have to be extended
 - Previous versions could be a variant dimension
 - Or a new *metaresource* concept would be required
- It should also be valid for wikis



Webmaster 1

- New standards as they do not exist
- Interface server ↔ content
 - General requirement - not limited to MWS
 - Web server ↔ content management systems (CMS)
- Solve MWS and leave hooks for the others
 - Otherwise, it might take forever



Webmaster 2

- Content ↔ content generation
 - Basic functionalities might be part of MWS
 - Page generation
 - A full translation system should be out of scope
 - Further interfaces or hooks
- The full framework
 - Authorship, Translation and Publishing Chain
 - ATP-chain
- Translation is expensive



Next step

- Create a new working group
- It should be in the I18N Activity of the W3C
 - What is the procedure?
- If the W3C is not interested
 - In an exiting one, such as the IETF
 - A dedicated initiative



To do list

- Two "standards"
 - *Multilingual web best practice guide for user interface*
 - *Multilingual web best practice guide for content management*
- Paper + running code
 - Reference development
- Implementing early mechanisms already in the standards and server side
 - Language button
 - Variant URI



End

- Interested parties have a look to
- MultilingualWebSites.org

