Web 2.0 for Portals
Tübingen, Germany, 08 December, 2006
Klaus Birkenbihl, W3C
Introducing World Wide Web Consortium (W3C)

“To lead the World Wide Web to its full potential by developing protocols and guidelines that ensure long-term growth for the Web”

- Founded by Tim Berners-Lee in 1994
- Develops open Recommendations (Web Standards)
  - over eighty so far...
- Engages in education, outreach, tools, develops guidelines...
- A neutral forum for building consensus around Web standards
W3C’s Long Term Goals

- **Web for Everyone**
  - regardless of language, user capabilities, geographical location, device used for access,…

- **Web on Everything**
  - not only PC-s, but Phones, PDA-s, Television,…

- **Knowledge Base, Advanced data searching and sharing**
  - information for both human and machine processing

- **Trust and Confidence**
  - technologies for collaborative environment
  - a Web with accountability, security, confidence, and confidentiality
The W3C Technology Stack…

Web Applications
- XHTML
- SVG / CDF
- SMIL
- XForms
- CSS
- WICD

Mobile
- XHTML Basic
- Mobile SVG
- SMIL Mobile
- XForms Basic
- CSS Mobile
- MWI BP

Voice
- VoiceXML
- SRGS
- SSML
- CCXML
- EMMA

Web Services
- SOAP
- MTOM
- WSDL
- WS-CDL
- WS-A

Semantic Web
- OWL
- SKOS
- SW BP
- RIF

Privacy Security
- P3P
- APPEL
- XML Schemata
- XML Encryption
- XKMS

Web Accessibility / Internationalization / Device Independence / Mobile Access / Quality Assurance
- XML, Namespaces, Schemas, XQuery/XPath, XSLT, DOM, XML Base, XPointer, RDF/XML, SPARQL
- XML Infoset, RDF(S) Graph
- Web Architectural Principles
- URI/IRI, HTTP

One Web

Internet
Portals

- portals are catalogues
- *mostly manually maintained*
- *responsibility of a small group of people*
- *often targeted to a special audience*
- *covers content owned by the portal and other content*
Useful Web 2.0 features

- RSS
- Tagging
- Microformat (or better RDFa or GRDDL)
Competing approaches

- Forum/News group
- Wikis
- Bookmark collections (e.g. del.ico.us)
- Blogs (?)
What is the fuzz about?

- the Web as a collection of documents
- documents contain data
- data reuse?
- machine readability (microformat enough? Think of all the databases we saw today!)
- communities and users can provide and access data
- microformats provide data - RDF/OWL (RDFa/GRDDL in (X)HTML )is much more powerful
- tags provide a means of classification - URIs can provide more semantics
- RDF/OWL and URIs are the backbone of the Semantic Web