

New web markup – HTML 5

- New web information and applications need better support than HTML 4
- Legacy web content have varying technology support
- Users and technology vendors want to go beyond current HTML standards
- A standard is critically needed

HTML 5 ... Work

On-going work:

- Revised set of elements/attributes
 - New, removed, revised
- Enhanced DOM capability
 - Extended DOM API
- Clarified handling of good and bad web content
 - Defined processing model

Video on the Web

- Exploding use of video distribution on the web
 - Professional content and user generated content
- Not well integrated into web architecture
 - Not yet “first class citizens”
- Key challenges:
 - Metadata (content labeling, search, discovery, ...)
 - Video codec
 - Addressing into video (temporal, spatial)
 - Digital rights management
 - Video control API

Video ... Work

Proposed work:

- Media fragments
 - Enable reference to parts of video
 - Specify spatial and temporal fragments, using URI-based mechanisms
- Media annotations
 - Improve search for content, and information about content
 - Develop a simple widely applicable ontology
- Media best practices
 - Improve creation of video content and improve user experience
 - Documented rules, recommendations, guidelines

Increased usability / experience

- Web based applications with cool interfaces
 - web 2.0
 - true collaborative applications
- Difficult to construct:
 - using non-standardized browser functionality
 - lacking API support
 - pushing beyond classical browser metaphor
- But users want it!

Usability / experience ... work

Ongoing work:

- Widgets
 - small client side applications
 - distribution, deployment, security, device independence, ...
- Web API
 - e.g., clipboard: cut, paste, drag, drop, ...
 - all kinds of interfaces/devices, rich content editing, ...
- Remote user interfaces
 - distributed processing over the web
 - synchronised data/information changes

Emergency management support

- Emergency management operations by multiple stakeholders
- Reaction/action time critical
- Information critical for state determination and mission planning
- Information interoperability between administrative domains vital

Emergency mgmt ... work

On-going work:

- Incubator Group: “Emergency Information Interoperability Framework”
 - Review and analyse existing vocabularies
 - Identify gaps and inconsistencies
 - Define a information interoperability framework
 - Recommend directions for further work

Specific business sectors

- Web is enabling infrastructure for various sectors
 - Platform for collaboration and information interchange
 - Existing web technologies provide a foundation
 - But, sector specific web-related issues may be critical
- W3C as forum for exploring, consensus-building and innovation
 - Use cases
 - Requirements
 - Case studies
 - Information interchange standards
 - etc.

Specific sectors ... work

Ongoing work:

Health Care and Life Sciences

- Develop and support use of semantic web technologies and practices for improved collaboration, research and development
- Vocabularies for cross-community data integration and collaboration
- Guidelines and best practices for *resource identification*
- Workshops and interop events

Specific sectors ... work

Proposed/candidate other sectors:

- eGovernment
 - improved transparency and efficiency, citizen interaction, inter and intra government data integration ...
 - adapted, specialised, extended standards; best practices
- Oil and gas
 - large volumes of technical information, business collaboration, ...
 - e.g., information exchange in process industry, ISO 15926
- Financial sector
 - tracking changes in markets, transnational integration, ...
 - e.g., internationalization, security, accessibility, mobility, ...