

Adaptive Hypermedia Made Simple Using HTML/XML Style Sheet Selectors

Objectives

- Make Adaptive Hypermedia available in the Web at low cost
- Keep Web standard diversity small
- Conservative extensions of Web standards
- Security and privacy through client-side processing

Existing Web Based Systems

- Simple Hypermedia Adaptation done with cookies, scripting languages, and URIs
- Server side storing and processing of user information
- Due to HTTP protocol, server-side processing strongly limited

Proposal

- Simple implementation of user models relying upon HTML and XML
- HTML or XML documents enriched with context information
- Style sheets for content and navigation adaptation

Browsing Context

XML application for a client-side storing and updating of context information

Style Sheets for Content and Navigation Adaptation

Metaphors: *Hyperspace as Layout Dimension* and *Hiding Elements in the Hyperspace*

Style sheets applied to standard HTML/XML documents enriched with “browsing contexts”

Changes needed:

- CSS and XPath: A few new selection attributes
- XLink: Hyperlink disabling and enabling

Framework proposed to the W3C Device Independence Working Group