

Talk overview

- Introduction and historical background
- Multiple delivery publishing (MDP)
- MDP on the Web: Style sheets
- Conclusion











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–More efficient/effective production by using WYSIWYG authoring interfaces (WP,DTP)

- Goal (final-form):
 Obtain same typographic quality as traditional print
- Production electronic, dissemination and final-form still on paper
- Authoring & storage format: —Mimics final-form presentation format













Revolution!

Software developers No longer control their application's own file format

Document authors

No longer control style and layout of their documents

Tools

No longer used the "sacred" WYSIWYG paradigm

Multiple delivery publishing was not obvious at all!



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Content versus markup

-what is in the tags, what is between the tags?

- Embedded versus external markup —What is encoded in the same file, what is stored elsewhere?
- Declarative versus procedural —Specify what or specify how
- Domain independent versus domain specific –<title> or <product-shelf-number>?
- Layout-driven versus content-driven applications —magazine cover or technical manual?
- Visual markup versus structured markup -<i> or <emph>?



•Source format:

- -Structured, declarative markup
- -Can be domain independent but...
- -...is usually tailored to a specific domain
- -Provide sufficiently rich structure for style sheets and other processing

•Presentation format:

- -Visual, often procedural markup
- -Can be platform/medium independent but...
- -... is usually tailored to a specific output medium/device
- –Provide sufficient information to obtain high quality output
- •How do you classify your favourite document format?





- •*Generic* tools that can process *user*-defined markup
 - -Software adapts to document structure
- •No predefined (presentation) semantics
 - -Also need to be user-defined



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Bloodtype	W3C/HTML		
Markup	HTML		
Style	CSS		
Linking	<a href="</td"><td></td><td></td>		
Addressing	<a name<="" td=""><td></td><td></td>		

Bloodtyp	W3C/HTML	ISO/SGML
<mark>Markup</mark>	HTML	SGML
Style	CSS	DSSSL
Linking	<a href="</td"><td>HyTime, TEI</td>	HyTime, TEI
Addressing	<a name<="" td=""><td>HyTime, TEI</td>	HyTime, TEI

Bloodtype	W3C/HTML	W3C/XML	ISO/SGML
Markup	HTML	XML	SGML
Style	CSS	CSS, XSLT, XSL FO	DSSSL
Linking	<a href="</td"><td>XLink, (HLink)</td><td>HyTime,</td>	XLink, (HLink)	HyTime,
Addressing	<a name<="" td=""><td>XPath, XPointer</td><td>HyTime, TEI</td>	XPath, XPointer	HyTime, TEI























Style sheets: Formatting objects (IV)

Advantages:

- Style sheets can be independent from final-form presentation format
- Formatting objects have more advanced formatting semantics than HTML/CSS
- Disadvantages
 - -Yet another layer of abstraction
 - –Relative little tool support (XSL became a W3C Recommendation on 15 October 2001)
 - –XSL FOs are not suited for all output media (SMIL, SVG etc.)



