

Filtering Content for Customized User Assistance

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Agenda

- Content reuse scenarios
- Traditional versioning techniques
- Bringing XML into the picture



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Why this topic for me?

- Publishing consultant.
- Versioning always a concern for clients.
 - Frustrated with conditional text limitations.
 - Interested in finding more powerful alternatives.
- XML provides an elegant solution, but requires significant implementation planning and effort.



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Content reuse scenarios

- Baseline/superset
- One-off customization
- Topic assembly
- Customization per user or role



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Baseline/superset

- Baseline version for common text
- Modified version 1 contains baseline+
- Modified version 2 contains baseline+
- Minimal overlap between version 1 and version 2 information



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One-off customization

- Baseline is used for normal deliverables
- One client requests customization
- Writers make copy of baseline, deliver changes
- Custom version is not maintained



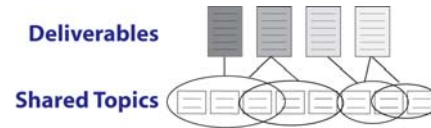
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Topic assembly

- ↳ Content library contains modules
- ↳ Each deliverable uses some of the modules
- ↳ Modules are the same for each deliverable
- ↳ Topic assembly is manual
 - ↳ Identify relevant topics
 - ↳ Create topic lists for each deliverable



Topic assembly

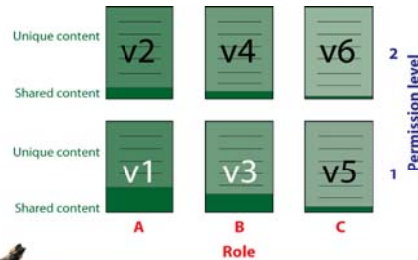


Customization per user or role

- ↳ Baseline information is limited
- ↳ Almost all information is customized
- ↳ Content is often reused in multiple versions
- ↳ Large number of versions



Customization per user or role



Traditional versioning choices

- ↳ Conditional text
- ↳ Build tags
- ↳ Reuse



Conditional text and build tags

- ↳ Excellent for baseline/superset with no overlap among superset versions
- ↳ Problems with content that requires multiple conditions



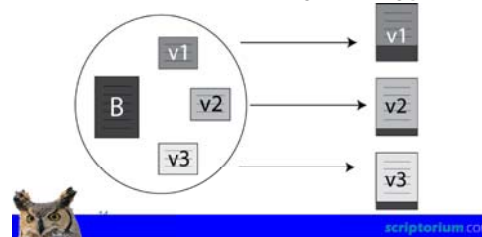
Reuse

- ↳ Suitable for topic assembly
- ↳ Need a fixed set of deliverables because topic lists must be defined ahead of time



Traditional versioning

- ↳ Customization occurs during authoring process

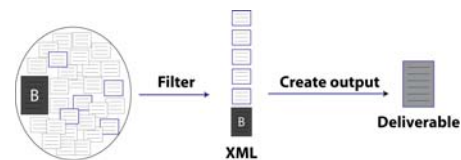


Creating user-specific content

- ↳ Number of variations is too large to manage with traditional techniques
- ↳ Examples
 - ↳ Users see different software interfaces based on their permissions
 - ↳ Mechanic assembles task list for a particular maintenance process
- ↳ Customization shifts from authoring to delivery



Customization upon user request



XML for content reuse

- ↳ Developing the content model
- ↳ Writing content for reuse
- ↳ Creating user-specific processing



Developing the content model

- ↳ Analyze requirements
- ↳ Develop elements and especially attributes to support versioning
- ↳ Most often, one attribute per content "dimension."



Analysis example 1

- ↳ User guide is customized for each client.
- ↳ Client information may overlap.

- ↳ Result:
 - ↳ Client attribute
 - ↳ Can have multiple values



Analysis example 2

- ↳ Web-based application
- ↳ Interface changes based on user role and permissions

- ↳ Result:
 - ↳ Create role and permission attributes
 - ↳ Use values that match software roles and permissions



Analysis example 3

- ↳ Training modules need to be mixed and matched to create custom courses

- ↳ Result:
 - ↳ Attributes for user level, prerequisites, duration, subject matter, instructor requirements, equipment requirements, delivery options (and probably more)
 - ↳ Sequencing is a challenge



Writing content for reuse

- ↳ Content must be modular
- ↳ Writers learn to identify reuse candidates
- ↳ Modules assembled to create deliverables

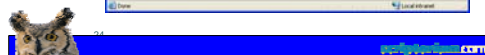
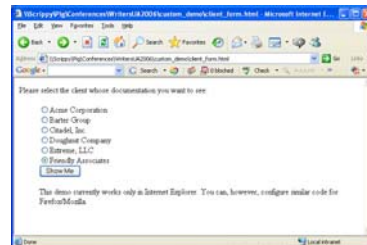


Creating user-specific processing

- ↳ Write filters based on user profile information
- ↳ Filter based on attribute values?
- ↳ Real-time versus static versioning
 - ↳ Static: easier to set up
 - ↳ Real-time: more flexible



Demo

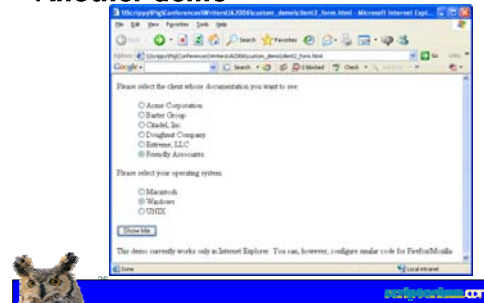


Versioning by client

- Specify client you want
- XSL processing identifies relevant XML content
- Assembly, publishing, and formatting is done on the fly



Another demo



Filtering by client and platform

- XSL processing is more complex
- Assembly, publishing, and formatting is the same as client-only example



Summary

- XML-based versioning supports traditional, limited versioning
- XML lets you go beyond traditional options
- Excellent solution for user profiling or documentation that's customized on the fly



Summary (continued)

- Expensive to implement
- Attribute-based versioning will require custom(-ized) structure
- All XML project caveats apply



Your questions



XML resources

- ↳ Scriptorium white papers
 - ↳ www.scriptorium.com/papers.html
- ↳ XML Architecture for Customizing Content
 - ↳ www.writersua.com/articles/xml/index.html



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