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Publishing DITA with DocBook XSL

Bob Stayton Sagehill Enterprises OASIS Symposium 2007 16 April 2007

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www.oasis-open.org

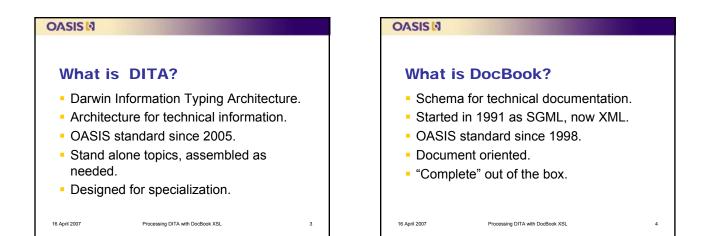
Who am I?

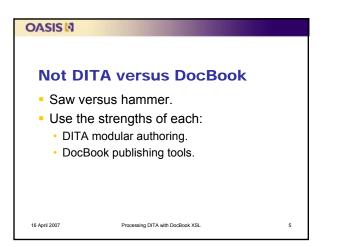
- DocBook Technical Committee member
- DITA TC observer
- Author of DocBook XSL: The Complete Guide

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- DocBook consulting
- DITA consulting





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DITA Open Toolkit Project on SourceForge since 2005. Reference implementation of DITA. Generates multiple outputs.

bookmap XSL is "proof-of-concept"

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OASIS N **Basic idea** - Author content in DITA. Temporarily convert DITA to DocBook. Process the temporary DocBook XML. Discard the DocBook XML. 16 April 2007 Processing DITA with DocBook XSL

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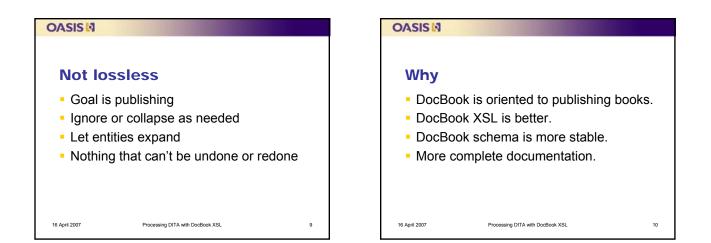
Not ...

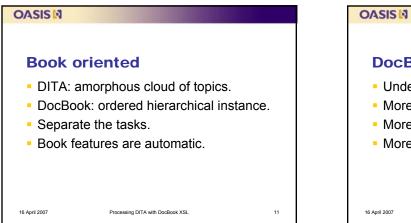
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Not a permanent conversion.

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- Not round trip conversion.
- Not lossless.





DocBook XSL is better

- Under development since 1999.
- More mature, more bug fixes.
- More complete coverage of its schema.
- More easily customized, up to a point.

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Stylesheet customization

- Extensively parameterized.
- Empty placeholder templates.
- Title pages from XML specifications.

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DocBook XSL book features

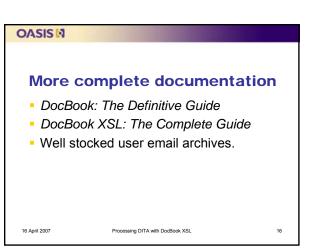
- TOC, index, List of Figures, etc.
- Extensions for XSL-FO processors:
 - PDF bookmarks
 - Page crop marks
 - Index page ranges
- Control of HTML chunking levels

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Syntax highlighting

<section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row>



OASIS N Use cases Publishing as book, not topics. When you don't have the resources to develop DITA bookmap XSL. When you have an existing DocBook XSL customization. When transitioning from DocBook to DITA.

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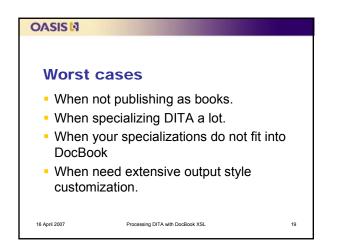
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More use cases

- When you need a DocBook feature.
- When department tools are DocBook and you want to author in DITA.

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- When mixing both source types.



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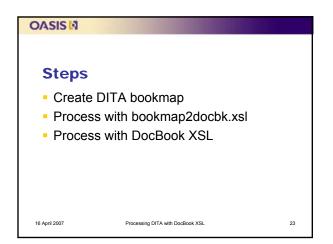
Downside

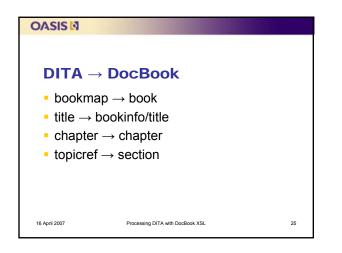
- More complicated.
- Must learn DocBook.
- May need to customize both:
 - Conversion
 - DocBook XSL
- Compare to custom DITA bookmap development.

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OASIS N OASIS **Other tools** What you need DITA 1.1 DTDs XSLT processor such as Saxon • http://saxon.sourceforge.net/ DITA Open Toolkit from SourceForge DocBook XSL XSL-FO processor • FOP • XEP Antenna House 16 April 2007 Processing DITA with DocBook XSL 21 16 April 2007 Processing DITA with DocBook XSL 22





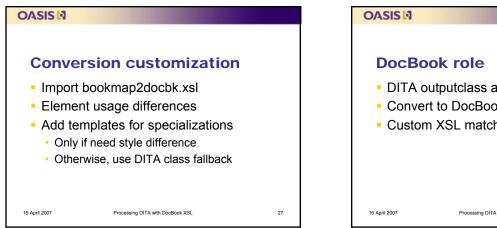
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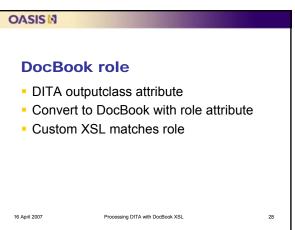
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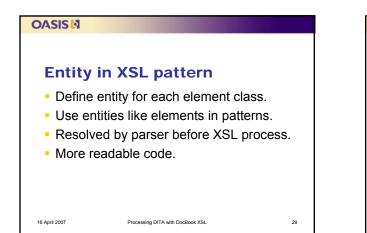
DITA special features

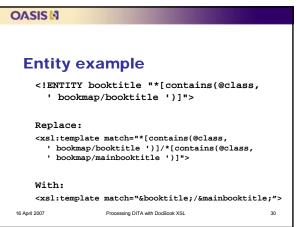
- Conrefs
- Cross references with DITA syntax
- DITA map inheritance
- Resolve these during conversion.

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OASIS N **DocBook validation** DocBook stylesheets expect valid DocBook Test conversion for validity. - Test with your content. Processing DITA with DocBook XSL 16 April 2007 31

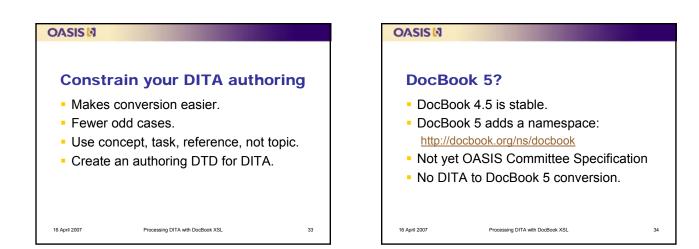
DITA content models Loose models enable specialization May not validate in DocBook

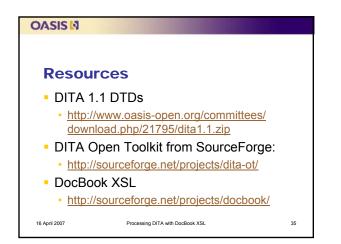
- Conversion challenges:
 - Mixed content models
 - · Mixes block and text
- · Permits odd orders (e.g., title last) Similar problems with DITA publishing
- stylesheet Processing DITA with DocBook XSL

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