

JATS Diversity A Content Management Perspective

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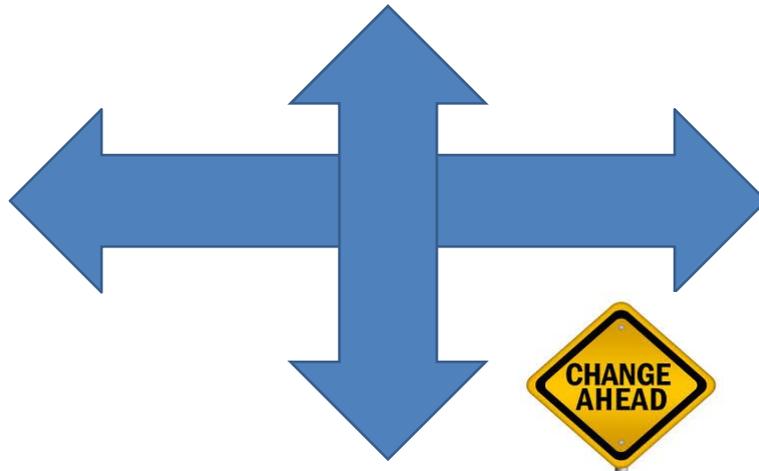
This Presentation: An Essay

- **JATS Community**
- **JATS Diversity:**
 - Structure, Landscape, & Usage
 - Standardization Levels/Scopes
- **Types of Change:**
 - Markup, Content
- **Content Management Strategies for Diversity & Change**

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Diversity: Simultaneous and Over Time



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JATS: Community Driven Standard

From the NISO web page:

Changes to the Tag Suite have always been user-driven. User-suggested changes now are collected and discussed by the JATS Standing Committee who decide on action based on NISO continuous maintenance procedures.



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JATS Community



JATS-List



**Standing Committee
Public Comments**

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JATS Structural Diversity

- Tag Suite and 3 Tag Sets
 - Authoring, Publishing, Archiving & Interchange
- Extremely Rich Vocabulary
 - Lots of options and alternatives!
 - Supporting a complex content landscape

JATS Documentation Resource:
Common Tagging Practice

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JATS in Standards Landscape

- Other Markups: incorporate or support
 - Namespace e.g. MathML
 - Clone e.g. XHTML table, Ruby
 - Via customization e.g. RDFa attributes
- Publishing Industry Metadata
 - NISO ALI, ORCID, FundRef, etc.

Community connection is a strength!

- But will require lots of change



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JATS Usage Diversity

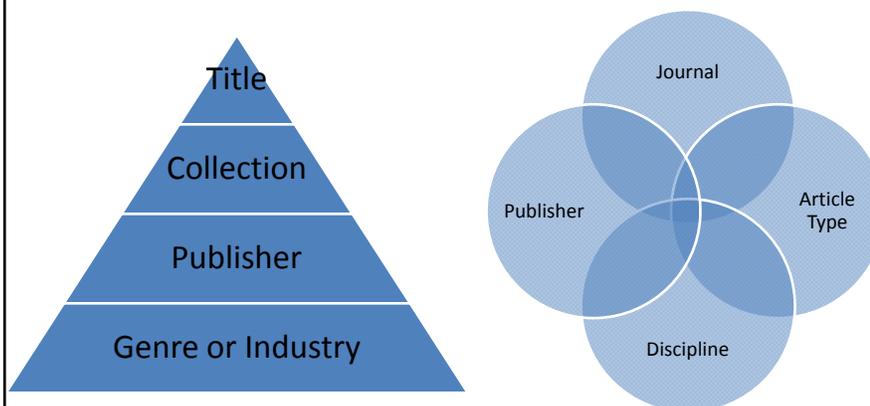
JATS-CON Paper Topics:

- DTD Flexibility
- Subsetting...versus Supersets
- Best Practices or Common Practices
- Reference Tagging Variations
- Publisher Case Studies
- Aggregator Case Studies

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Diversity of Usage & Standardization



and change over time!

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CHANGE: Markup-Related

- Standards evolve
 - Backwards compatible?
 - New features, options, granularity, etc.
 - Old features obsolete and/or deprecated
- Standard usage can evolve
 - Profiles & best practices can change

Would a change need to be retroactive?

Consistency across the content collection?

A BIG QUESTION . . . AND BIG TASK!

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CHANGE: Content-Related

- Text versioning...and archiving
 - Generated Text & Formatting?
- Content formatting
 - Explicit or external?
- Editorial styling
 - Journals change over time
- Metadata
 - Vocabulary changes
 - Internal or external?

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Diversity & Change Management

- Standards Change
- Standard Usage Diverse & Changes
- Content Changes
- Content Usage Can Change
 - Rendition, delivery, etc.

HOW TO MANAGE DIVERSITY & CHANGE?

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Digital Preservation Metadata

- Format, tool, environment version tracking
- Event metadata
 - E.g. creating application name, version, date
- From PREMIS:

The most specific format (or format profile) should be recorded. A repository (or formats registry) may wish to use multipart format names to achieve this specificity

Portico Metadata Snippets

```
<Timestamp>2015-03-23T00:53:47.189-04:00</Timestamp>
```

```
<System name="ConPrep" version="2.0"/>
```

```
<Workflow name="E-Journal Workflow 3.0" version="1.0"/>
```

```
<Profile name="INGENTA Profile" version="1.0"/>
```

```
<Event objID="ark:/27927/dbc2db4hdn" eventType="Generate  
Descriptive Metadata">
```

```
<ToolWrapper name="DmdExtractTool:1.0:2007-08-03"/>
```

```
<ToolComponent name="pmd2au_dmd_4.xsl"/>
```

Diversity & Change Metadata

- DTD / Schema Versions
 - Built into JATS
- Embedded external standards
 - Metadata vocabularies, Thesaurus, Taxonomies
- Content Versions
 - Internal or external in CMS?
- Usage Profiles (Standardization)
 - Styling, subsets, etc.

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Usage Profile Tools

- Historical and Current Examples:
 - Publisher-specific SGML (UC Press, Elsevier)
 - Pre-edit & post-edit tools
 - JATS4R
- Scopes
 - Markup, Content, etc.
- Execution metadata:
 - @ or <? ?> or <!-- --> ... or external MD?
- Change management: built in or by version?

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Diversity & Change Management

- How to control configuration/profile over time:
 - Not just versioning and validation
 - Documentation is essential
- Well controlled diversity benefits:
 - Quality and consistency
 - Support for future migrations

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Bottom Line Observations

Change and Diversity are inevitable and unavoidable due to the richness of the community and the content.

Version tracking of formats (markup), content, and tools are keys to long-term success.

But no magic bullet! Depends on the specifics.

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Questions? Comments?

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