eXtyles®

Editorial and XML
Solutions for Publishers

Industry Updates & Meeting Wrapup

Bruce Rosenblum
CEO

JATS

► JATS 1.2d1 is now available

  ▷ Lots of incremental improvements

  ▷ http://www.niso.org/apps/group_public/download.php/18337/NISO-JATS-1-1-to-1-2d1.pdf

► Try it, give us feedback!

  ▷ http://www.niso.org/apps/group_public/add_comment.php?document_id=15932

CRediT in JATS 1.1

▶ Recommended by Evan Owens of Cenveo to the JATS list-serve on July 23, 2015

```
<contrib>
<name><surname>Smith</surname>
<given-names>John</given-names></name>
<role content-type="CRediT Taxonomy">Data Curation</role>
</contrib>
```

▶ Recommended by Helen Atkins of PLoS to the CASRAI list serve on July 12, 2016

```
<contrib contrib-type="author">
<name><surname>Podulka</surname>
<given-names>Jennifer</given-names></name>
<role content-type="
http://credit.casrai.org/">Conceptualization</role>
<role content-type="
http://credit.casrai.org/">Methodology</role>
</contrib>
```

CRediT in JATS 1.2d1

```
<contrib contrib-type="author">
<name><surname>Podulka</surname>
<given-names>Jennifer</given-names></name>
<role vocab="CRediT"
    vocab-identifier=" http://credit.casrai.org/"
    vocab-term-identifier="
http://dictionary.casrai.org/Contributor_Roles/Conceptualization">
    Conceptualization</role>
<role vocab="CRediT"
    vocab-identifier=" http://credit.casrai.org/"
    vocab-term-identifier="
http://dictionary.casrai.org/Contributor_Roles/Methodology ">
    Methodology</role>
</contrib>
```

Third attribute is optional; can be shortened to:

```
<contrib contrib-type="author">
<name><surname>Podulka</surname>
<given-names>Jennifer</given-names></name>
<role vocab="CRediT"
    vocab-identifier=" http://credit.casrai.org/">
    Conceptualization</role>
<role vocab="CRediT"
    vocab-identifier=" http://credit.casrai.org/">
    Methodology</role>
</contrib>
```

INERA
eXtyles | edifix

JATS4R

▶ New group structure

▶ See Scholarly Kitchen

▷ Mary Seligy guest post

▷ October 17, 2017

▷ https://scholarlykitchen.sspnet.org/2017/10/17/jats4r-optimizing-reusability-scholarly-content/

INERA
eXtyles | edifix

BITS

▶ Version 2.0 released February 19, 2016

▶ BITS Working Group meeting in early 2018

▶ Jeff's (beck@ncbi.nlm.nih.gov) questions:

▷ Are you using <book> or <book-part-wrapper> as your top level? If <book-part-wrapper>, is it working well for you?

▷ Are you managing your books with multiple files and combining them with Include? Is that working well for you?

▷ Are you using BITS' Table of Contents and Index features? Are they working well for you?

▷ Are you using the Q&A structures? Are they working well for you?

▷ What could we improve in BITS to make it work better for you and your books?

NISO STS

- ANSI/NISO Z39.102-2017

- Yea! (and thanks Mulberry!)

- New models
  - ▷ Metadata
  - ▷ Terms and definitions
  - ▷ Adoptions
  - ▷ And lots of other improvements

- DTDs and Docs at www.niso-sts.org

NISO
How the information world CONNECTS

ANSI/NISO Z39.102-2017
ISSN: 1041-5653

STS: Standards Tag Suite

Abstract: The Standards Tag Suite (STS) provides a common XML format that developers, publishers, and distributors of standards, including national standards bodies, regional and international standards bodies, and standards development organizations, can use to publish and exchange full-text content and metadata of standards. STS is based on ANSI/NISO Z39.96 (JATS). Structures are provided to encode both the normative and non-normative content of: standards, adoptions of standards, and standards-like documents that are produced by standards organizations.

An American National Standard
Developed by the
National Information Standards Organization

Approved: October 6, 2017
by the
American National Standards Institute

INERA
eXtyles | edifix

JATS Meta Model

▶ Keeping JATS, BITS, STS aligned

  ▷ Avoiding mistakes

    ▶ pub-date in JATS vs. STS

  ▷ Thoughtful alignment

  ▷ Thoughtful customization

▶ JATS-Con 2017 papers

  ▷ https://www.ncbi.nlm.nih.gov/books/NBK425698/

  ▷ https://www.ncbi.nlm.nih.gov/books/NBK425547/

INERA
eXtyles | edifix

Accessibility

▶ Marrakesh Treaty

▶ Affects any publisher in global markets

▶ https://global.oup.com/academic/product/the-world-blind-union-guide-to-the-marrakesh-treaty-9780190679651?cc=us&lang=en

Buglets 1 - Microsoft

- ▶ Microsoft updates
  - ▷ Occasional challenges
  - ▷ Inera updating processes to catch issues faster
- ▶ Fundamental problem
  - ▷ "Microsoft eliminated their entire Quality Engineering org about 4 years ago"
  - ▷ Write, release, let users test, fix
- ▶ Inera does NOT develop software this way!!!

Buglets 2 - Metadata

▶ Poor metadata, poor results

▶ 2017 Example 1

▷ <given_name>Leopold</given_name><surname><![CDATA[Füreder]]></surname>

▷ <title><![CDATA[Chromosomal multiformity in <i> Botanochara bonariensis </i> (Coleoptera, Chrysomelidae, Cassidinae)]]></title>

▶ 2017 Example 2

▷ "The references that did not link on Crossref had missing metadata in their Crossref records. If you look at the Crossref records, you can see that they lack volume and page numbers"

PubMed Update Interface

- https://www.nlm.nih.gov/pubs/techbull/so16/so16_pubmed_change_reporting_errors.html

- Bruce's 2016 take: Publisher intervention makes bad metadata inevitable

- Bruce's 2017 revision

  ▷ Publishers like to make corrections easily

  ▷ Mostly used at AMA & PLoS to correct author name segmentation errors

Industry Update QuickPoll (1)

► Who is (still) using?

▷ Word 2007

▷ Any NLM DTD before JATS 1.0

▷ NLM Book

► Who is currently using?

▷ Word 2010

▷ Word 2013

▷ Windows 7

▷ Windows 8 or 8.1

Industry Update QuickPoll (2)

▶ In 2018, will your organization adopt?

▷ JATS 1.1

▷ JATS 1.2d1

▷ BITS 2.0

▷ ORCID

▷ CRediT
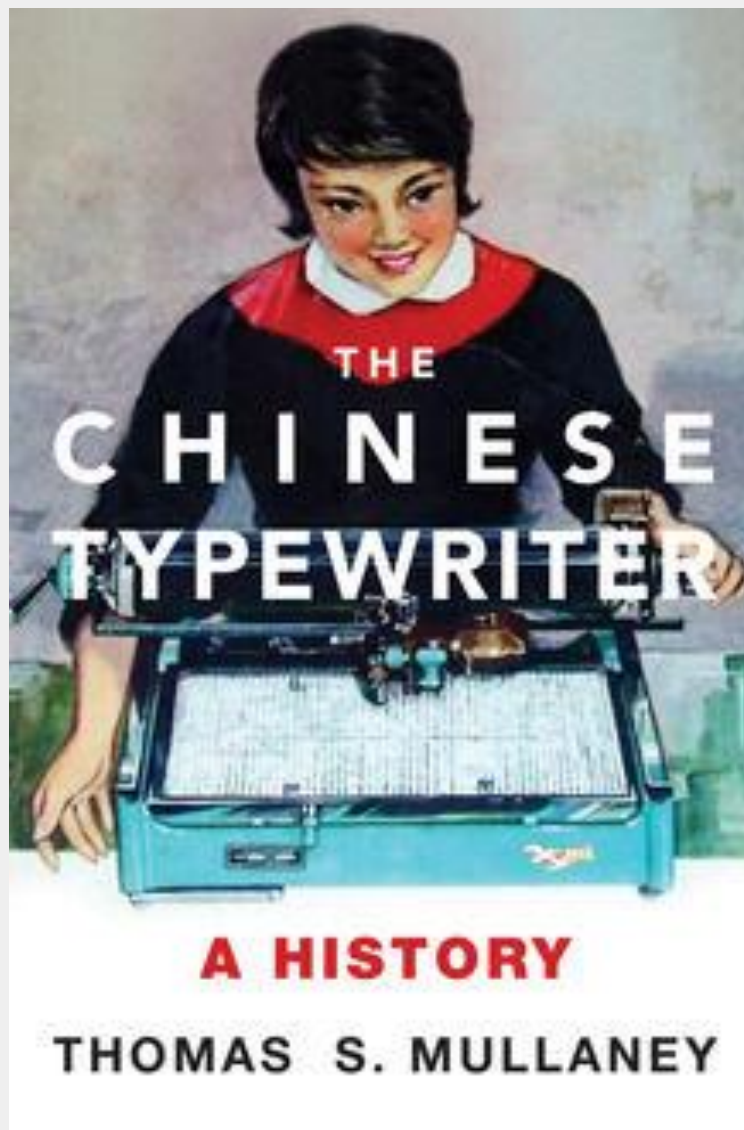
▷ Crossref Funder Registry

▷ Windows 10

▷ Office 2016

Unicode 10

▶ Released June 20, 2017
  ▷ 8,518 new characters (including 56 emoji)
  ▷ 136,690 total characters

▶ Four new scripts
  ▷ Masaram Gondi, used to write Gondi in Central and Southeast India
  ▷ Nüshu, used by women in China to write poetry and other discourses until the late twentieth century
  ▷ Soyombo and Zanabazar Square, used in historic Buddhist texts to write Sanskrit, Tibetan, and Mongolian

▶ http://unicode.org/versions/Unicode10.0.0/

INERA
eXtyles | edifix

Emoji

Date	Count	Emoji
2017	56	
2016	72	
2015	36	

The Chinese Typewriter

INERA
eXtyles | edifix

Technology: Rapidly Changing Our World

▶ Wider world

▷ GAFA growth: good or bad?

▷ "Fake" news

▶ Closer to scholarly publishing

▷ Bloom of preprint servers

▷ Growth of SciHub, ResearchGate

Where is Publishing Going?

▶ Can content with a long shelf life be kept behind paywalls?

▶ How will copyright change in the digital era?

▶ How can we better "filter" information?

▶ Who will pay for publishing?

▶ Who will pay for filtering?

Artificial Intelligence

▶ What is artificial intelligence?

▶ Will artificial intelligence help?

Conclusions

▶ Publishing is more complex than ever

▶ Consuming information is *also* more complex than ever

▶ AI will create as many problems as it solves

Thank you

Bruce Rosenblum

CEO

Inera Inc.

bruce@inera.com

617-932-1932

INERA
eXtyles | edifix