Industry Update:
eXtyles-Related Developments

Presented by

Bruce D. Rosenblum

CEO

Inera Incorporated

eXtyles User Group Meeting

16 November 2012

Topics

◆ JATS and BITS

◆ MathJAX

◆ ORCID

◆ Windows 8

◆ Word 2013

JATS

- ◆ NLM DTD
  - 2003 to 2012, versions 1.0 to 3.0
- ◆ Renamed JATS
  - Journal Article Tag Suite
  - Defines the tag suites: archive, publishing, authoring
- ◆ ANSI/NISO Standard (August 9, 2012)
  - Z39-96:2012
  - http://jats.niso.org/

JATS 1.0

◆ Backwards compatible with NLM DTD 3.0

◆ Incremental improvements

- Multi-script publication
- Accessibility
- Contributor ID
- Better documentation and clarifications

◆ Many small improvements, e.g. specific-use everywhere

◆ Do I need JATS 1.0 if I already use Blue 3.0?

- Probably not, unless
  – You publish in multiple scripts
  – You need contributor-id
- Relatively easy upgrade

JATS Resources

- ◆ **Non-normative references**
  - http://jats.nlm.nih.gov/
  - DTDs, XSDs, Tag Library, etc.
- ◆ **JATS-con**
  - http://jats.nlm.nih.gov/jats-con/

- ◆ **JATS list-serve**
  - http://www.mulberrytech.com/JATS/JATS-List/index.html
- ◆ **JATS Wiki (Kevin Hawkins, U Michigan)**
  - http://webservices.itcs.umich.edu/mediawiki/jats

BITS

◆ Book Interchange Tag Suite

- Successor to the NLM Book DTD

- Based on JATS 1.0

- Not backward compatible to NLM Book DTD 3.0

BITS Differences

◆ **Better book structure model**

- **Book model**
  - (collection-meta*, book-meta?, front-matter?, book-body?, book-back?)

- **front-matter model**
  - (ack | bio | dedication | fn-group | glossary | toc | toc-group | front-matter-part | foreword | preface | notes)+

- **front-matter-part model**
  - (book-part-meta?, named-book-part-body?, back?)

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BITS Status

◆ **Status**

- Version 0.2 released, October 2012
- Available at http://jats.nlm.nih.gov/extensions/bits/

◆ **Learn more**

- Mulberry seminars on November 29 and December 18, 2012
- http://www.mulberrytech.com/services/classes/s-BITS.html

◆ **Next steps**

- Use it!
- Send Feedback!
- Use JATS list: jats-list@lists.mulberrytech.com

Math and eXtyles

◆ Current Recommendations

- MathType is best for equations in Word

- Use GrindEQ or TeX2Word to convert LaTeX to Word

◆ XML

- Include MathML *and* pointers to images

- eXtyles can export image files via MathType

Math on the Web

◆ **MathJax**

- "MathJax is an open source JavaScript display engine for mathematics that works in all modern browsers. No more setup for readers. No more browser plugins. No more font installations… It just works. "

- MathJax is a joint project of the American Mathematical Society, Design Science, Inc., and the Society for Industrial and Applied Mathematics.

ORCID
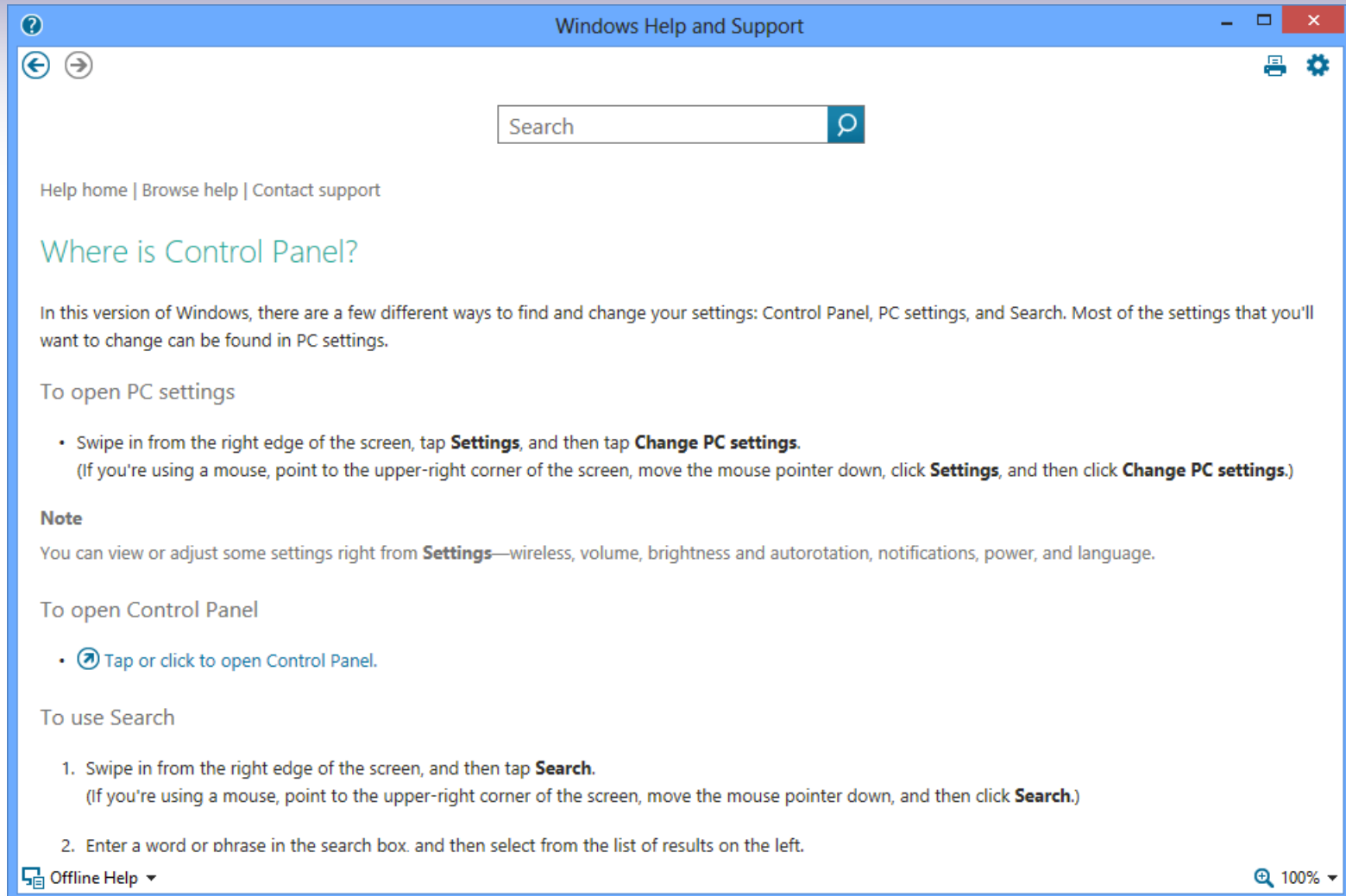
- **ORCID** is an open, non-profit, community-based effort to provide a registry of unique researcher identifiers and a transparent method of linking research activities and outputs to these identifiers. ORCID is unique in its ability to reach across disciplines, research sectors, and national boundaries and its cooperation with other identifier systems."

- JATS 1.0 supports ORCID: <contrib-id>

- Learn more: www.orcid.org, and "ORCID: a system to uniquely identify researchers" in Learned Publishing (http://dx.doi.org/10.1087/20120404)
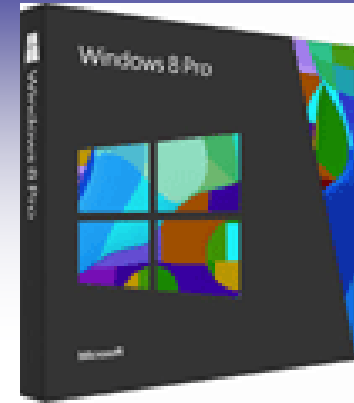
Windows 8

- ◆ New user interface
  - Start button no longer on the taskbar
  - File Explorer (formerly Windows Explorer) has ribbon
  - Metro design features "Tiles"
- ◆ Design for mobile/tablet devices and desktops
- ◆ Similar relearning issues as Word 2003 → 2007

Windows 8... Who Swiped My Help?

eXtyles and Windows 8

◆ Initial testing with Word 2010

◆ Shows add-in ribbon, not eXtyles ribbon

◆ Still in testing phase

Word 2013

◆ Office 2013 arriving next year

◆ Requires Windows 7 or Windows 8

◆ More Cloud integration

◆ Greater tablet integration

◆ Substantially similar to Word 2010

Office 2013 Users

- ◆ **Authoring impact**
  - Authors need "rich" features (tables, math, special characters)
  - Will still create/deliver DOC or DOCX files
- ◆ **Editorial impact**
  - We predict editors will still work on desktop
  - Editing is a mouse- and keyboard-centric activity
    - – Editing needs a "real" keyboard
    - – Selecting text requires a keyboard or pointing device

The Longer View

- ◆ We believe scholars will deliver significant work in DOC or DOCX compatible formats
  - Richest way to create tables and math
  - Possible format competitors
    - OpenOffice XML
    - HTML5

- ◆ The format counts, not the application

- ◆ Authors may leave Word; Editors likely won't

Industry Update Quickpoll

◆ In 2013, will your organization adopt?

- JATS 1.0

- BITS 0.2

- MathJax

- ORCID

- Windows 8

- Word 2013

Thank You

Bruce Rosenblum

Inera Incorporated

+1 (617) 932 -1932

brosenblum@inera.com

www.inera.com