Standards & Technology 2003

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Overview

- Standards
 - OSIS
 - Topic Maps
 - Published Subjects
 - TEI (revision, new work groups)
 - Cuneiform (Unicode proposal)
- Technology
 - Scholarly markup with "<" or ">"
 - Overlapping markup
 - Custom publishing
 - SBL Font Foundation

OSIS

- Open Scriptural Information Standard
 - Joint project of SBL, ABS, UBS, SIL and others
 - Standard for Bibles, Commentaries, related works
 - Now at 2.0 release, draft users manual
- Open work items:
 - Linguistic markup
 - Original mss. markup
- Demo: http://www.thebibletool.com

Topic Maps

ISO 13250

- Originally in HyTime syntax (few implementations)
- XTM: XML syntax, topic maps take off
- Standard being revised to provide a data model, constraint and query language

• Why do we care?

- Ability to find all information about a subject, including related information, at one place
- Ability to merge information about subjects reliably from different sources

Topic Maps II

- Demo: http://localhost:8080/omnigator
- First Generation Topic Map software
- Uses in Biblical Studies?
 - Hebrew/Greek Lexicons
 - Bibliographies
 - Subject Catalogs
 - Web/Educational Resources
- Next Generation:

http://www.gooseworks.org/cgi-bin/allMaps.cgi/

Published Subjects

- Topic Maps related standard
- How do you and I agree that we mean the same thing by a subject?
 - Call each other on the phone
 - Send email
 - Read a paper or monograph
 - All private agreement
- Published Subjects Public Agreement
 - Each represents a single subject
 - Published/Pubic
 - Warranted to be stable

TEI: Text Encoding Initiative

- Guidelines are being revised
- New special interest groups on mss. encoding and image annotation
- Interest is high in user contributions on use cases and needs
- Opportunities to lead working groups on issues of interest to biblical scholars.
- http://www.tei-c.org

Cuneiform (Unicode)

- Proposal submitted to Unicode Technical Committee (UTC) for cuneiform
- Work supported by: SBL, Scripts Encoding Initiative: http:// www.linguistics.berkeley.edu/~dwanders/
- Contributors currently include, Deborah Anderson, Steve Tinney, Michael Everson, Karljürgen G. Feuerherm, Lloyd Anderson, Rick McGowan, and others

Cuneiform (Unicode) II

- Everson/Feuerherm/Tinney proposal: 952 characters and complete glyph repertoire
- Proposal:

http://www.evertype.com/standards/iso106

 General Information: http://www.cuneiformsigns.org/

Scholarly Markup (without pain)

Markup is easy/hard – disagreement

<?xml version="1.0"?>

<text>

<verse id="Matt.3.8">

<sentence>

Bear fruit that befits repentance,

</verse>

```
<verse="Matt.3.9">
```

and do not presume to say to yourselves, 'We have Abraham as our father'; for I tell you, God is able from these stones to raise up children of Abraham.

</verse>

</sentence>

</text>

Scholarly Markup II

- But everyone agrees it is ugly!
- What does a user need to know and when should they know it?
- Compare to using Word to produce an RTF file: user just types, then save-as
- That level of use is what it will take
- Is that possible? Thinkable? (Priesthood of markup specialists tremble with fear.)

Scholarly Markup III

- What if:
 - Worked with manuscript image
 - Worked with electronic text
 - Image and text linked together
 - Markup inserted by menu and not seen by user?
- Can you say: Electronic Boethius Project?
- http:// beowulf.engl.uky.edu/~kiernan/eBoethius/i

Scholarly Markup IV

- Hides markup from scholar
- Allows markup down to character level
- Works directly with manuscript images
- Being developed as free software!
- SBL has provided portion of NT fragment and transcription for testing
- Look for updates on the SBL website

Overlapping Markup

- Remember the ugly markup slide?
- <?xml version="1.0"?>

<text>

<verse id="Matt.3.8">

<sentence>

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and do not presume to say to yourselves, 'We have Abraham as our father'; for I tell you, God is able from these stones to raise up children of Abraham.

</verse>

</sentence>

```
</text>
```

Overlapping Markup II

- That simple case confuses computers
- Problem is linear processing of the text
- TEI has formed a Special Interest Group
- Matt O'Donnell and I have developed a solution that will be considered by the TEI
- Insight: Text (whether word or phrase) is a member of various markup constructs
- All at the same time!

Overlapping Markup III

- It is membership in overlapping markup constructs that confuses computers
- Solution:
 - Current: have simple texts
 - Proposed: have smarter programs
- Need texts that need overlapping markup to make the case to standards bodies

Custom Publishing

- 30th Anniversary of Semeia in 2006!
- How many people have a complete set?
- Would custom readers be useful?
- Would updated bibliographies (you enter) or your own notes on an article be useful?
- Interfaces now under development to allow both!
- Custom publishing of what you want to buy, not what we want to sell!

SBL Font Foundation

- Free Unicode/OpenType: Hebrew/Greek/Western font
- Use in commercial publishing requires
 Font Foundation membership
- Means:
 - All scholars can interchange documents
 - All publishers can have one conversion for documents submitted

SBL Font Foundation II

- Public Beta of Hebrew begins this year
- Public Beta of Greek early next year
- One step towards making biblical scholarship a matter of choice and not finances.

Conclusion

- Only some of the standards and technology in which the SBL is involved
- Part of the return on your membership fees and donations
- SBL is interested in your projects and possible collaborations on technology and fund raising([©]).
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