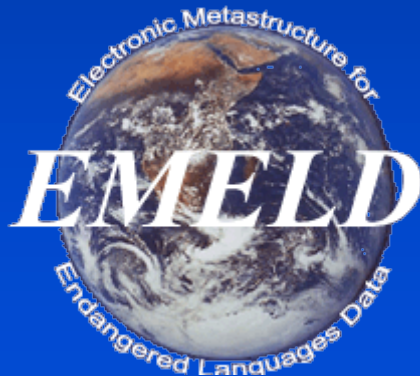


The E-MELD Project:

School of Best Practices in Digital Language Documentation



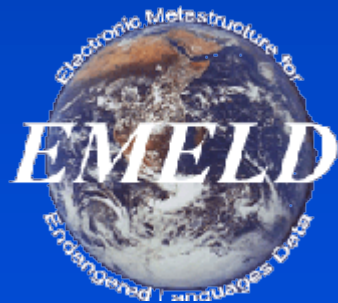
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Helen Aristar Dry
The LINGUIST List
Eastern Michigan University

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The E-MELD Project

- **Electronic Metastructure for Endangered Languages Documentation**
- 5-year, NSF-sponsored project, begun Sept 2001
- Original Participants:
 - The LINGUIST List
 - Eastern Michigan U
 - Wayne State U
 - U of Arizona
 - Linguistic Data Consortium (UPenn)
 - Endangered Languages Fund



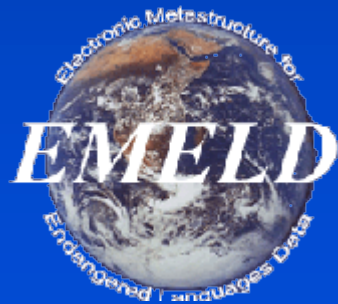
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E-MELD Objectives:

To aid in ...

- ...the preservation of endangered languages documentation
- ...fostering community consensus about best practices in the digitization of language data



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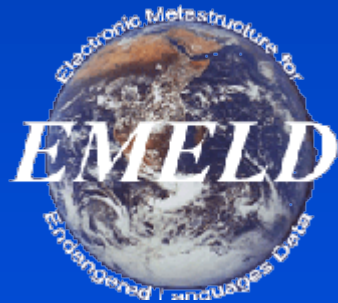
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What are Best Practices?

Practices designed to insure that digital language resources :

- endure through time.
- can be reused by others, both now and in the future.

-Bird & Simons 2003

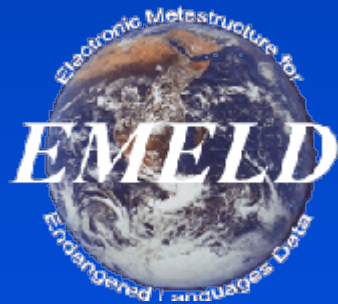


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Why Best Practices?

The impending “Digital Dark Age”

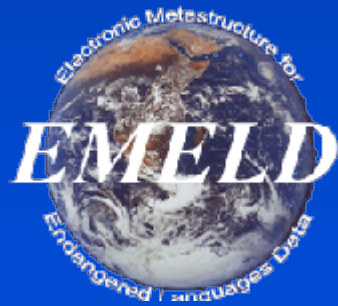


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An impending “Digital Dark Age”

Future historians may see our present age as another Dark Ages since so much information documenting our current civilization is recorded digitally and may have vanished.



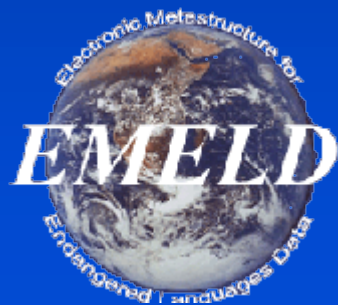
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A paradox of writing history

(fr. Gary Simons, LSA 2004)

- The more advanced the writing technology, the less durable the written product.
- From most durable to least durable:
 - Clay tablets and stone
 - Velum
 - Papyrus
 - Paper
 - Digital word processing



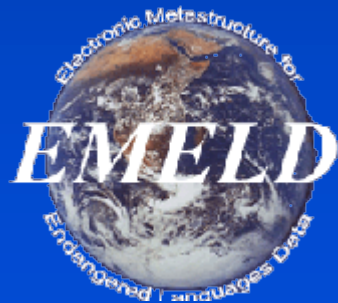
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Hardware devices are ephemeral

(fr. Gary Simons, LSA 2004)

- Removable media on personal computers advance over 25 years:
 - 8-inch floppies
 - 5.25-inch floppies
 - 3.5-inch floppies
 - Zip drives
 - CD-Rs
 - DVD-Rs
 - **Memory sticks?**



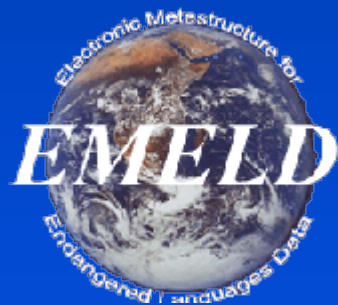
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Software formats are ephemeral

(fr. Gary Simons, LSA 2004)

- Software vendors change file formats and functionality with each version.
- When we use a proprietary single vendor format, we lose access to the data when the software is obsolete.
- For instance,
 - Microsoft Word files from the 1980s cannot be read by current versions of Word

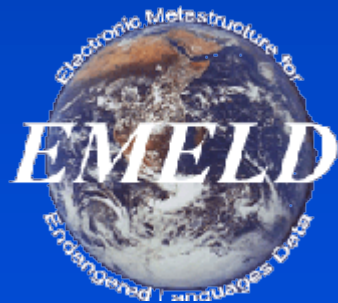


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Goal: School of Best Practices

- To encourage linguists to think of themselves as creating archive-ready documentation for the benefit of future generations
- To facilitate this undertaking by providing information, models, tools and support

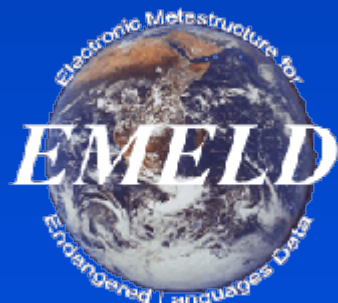


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Some Best Practices

- Distinguish between
 - **archival form:** The form in which information is stored for access long into the future.
 - **working form:** The form in which information is stored as it is created and edited
 - **presentation form:** The form in which information is presented to the public.
- Recommendations primarily concern archival form.

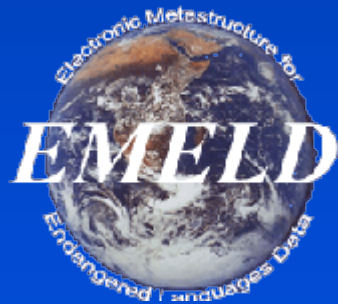


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Some Best Practices

- Employ file formats that offer LOTS;
 - L = Lossless
 - O = Open (standards and formats)
 - T = Transparent (or at least well-documented)
 - S = Supported by multiple vendors
- Ex: For text files: plain text with XML markup

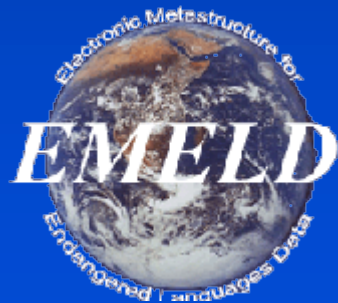


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Some Best Practices (cont.)

- For character encoding, use Unicode
- For language identification, use Ethnologue / OLAC language codes
- Create metadata in a standard format (e.g., OLAC or IMDI) and make it available to a search engine
- Deposit archival copies in an established archive

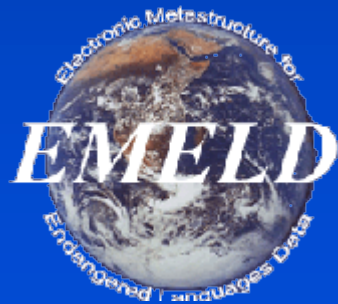


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Organization of the School

- Entrance Hall: orientation
- Classroom: lessons & tutorials
- Reading Room: bibliography
- Work Room: online work
- Tool Room: links to tools
- Help (incl. Ask an Expert)
- Case Studies: documentation of 10 ELs digitized according to best practices



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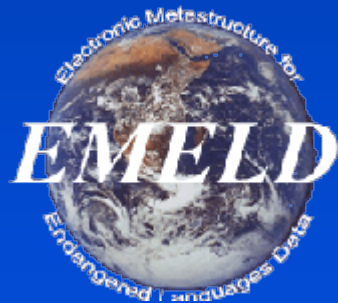
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Case Studies (to date):

➤ Documentation from 8 ELs:

- Mocovi
- Monguor
- Tofa
- Saliba
- Biao Mien
- Kayardild
- Potawatomi
- Ega

➤ Also W. Sissala, Chorote, Nivacle

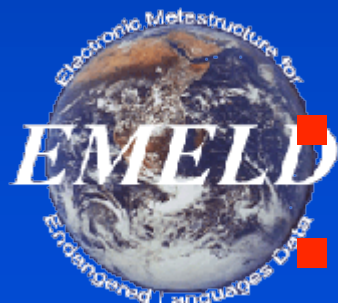


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Developed by:

- E-MELD Project Participants
- The LINGUIST List Crews (2001-4)
 - Team Leader: Steve Moran
- E-MELD Data Providers: Harrison, Buszard-Welcher, Solnit, Grondona, Dwyer . . .
- Consultants: Simons, Hughes, etc.
- 2001-2004 Workshop Participants

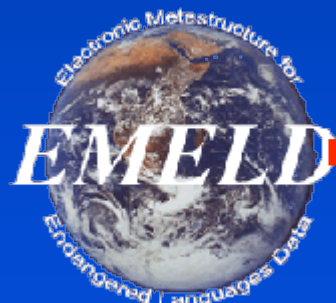


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E-MELD Workshops

- 2001, Santa Barbara, CA: The Need for Standards
- E-MELD 2002, Ann Arbor, MI: **Digitizing Lexical Information**
- E-MELD 2003, Lansing, MI: **Digitizing Texts**
- E-MELD 2004, Detroit, MI: **Databases and Best Practice**
- E-MELD 2005, Ann Arbor, MI: **Linguistic Annotation: Ontologies & Terminology**

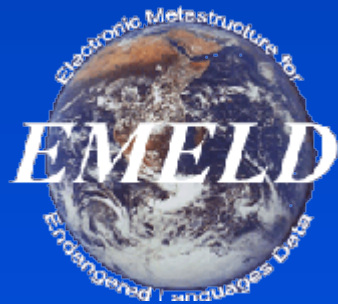


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E-MELD School of Best Practices in Digital Language Documentation

<http://emeld.org/school/>



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