Considerations of designing a user friendly BIBFRAME (Linked Data) editor:

Challenges and future of information organization professionals

September 19, 2023

What's the theme of this talk?

- Experiences: Data creation and hybrid workflows (MARC 21 and BIBFRAME)
- Implementation: Strategies and challenges
- Interoperability: Data conversion and migration; ILS integrations
- Standards: Interplay of BIBFRAME with other standards, such as cataloging guidelines (RDA), provenance data; BIBFRAME as an open standard
- Technology: BIBFRAME tools and technologies
- User-centered design and user experience
- BIBFRAME and digital scholarship, specialized domains
- BIBFRAME and entity management

Well, our talk does not exactly align with any one theme…

Outline

- Why BIBFRAME?
  - Creating Library Data as Linked Data
- BIBFRAME editors
  - Comparisons
  - Feedback from the field
  - What can we do to create Library 'Data' as Linked Data
- Linked Data Editor considerations
- Changing professions

Why BIBFRAME

- As a producer: Libraries want to make library data searchable and discoverable on the web
- As a consumer: Libraries want to bring available linked open data (contextual information) to library users

BIBFRAME was developed to make the library data as linked data, so the Web can use the library data.

Why BIBFRAME

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Creating Library Data as Linked Data

- Share library data to the web
  - BIBFRAME development
  - BIBFRAME editors that create library catalog data in BIBFRAME ontology with authority URIs in various representations, json, turtle, xml

  *How are we using BIBFRAME data in the Library and for our users?
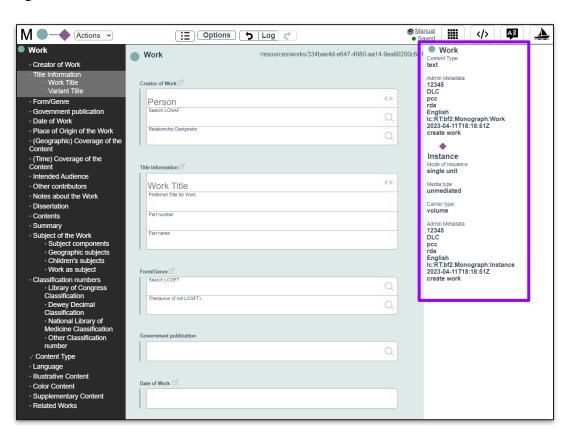
Comparison of two BIBFRAME editors

Marva

- Ontologies: BIBFRAME
- Outputs: BIBFRAME in XML

- Profiles are built in
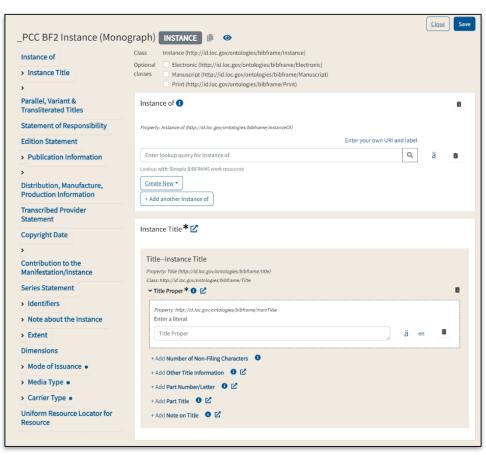- Ease of navigation?
- Requires training

Sinopia

- Ontologies: BIBFRAME, RDA, others
- Outputs: BIBFRAME and others in different representations
- Can create resource templates
- Ease of navigation?
- Requires training

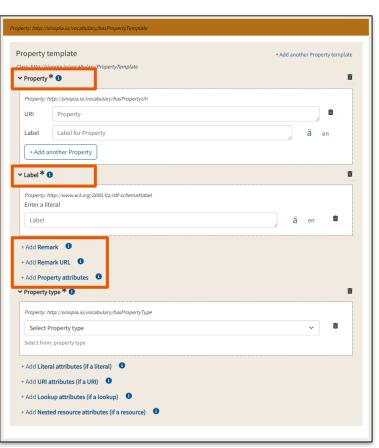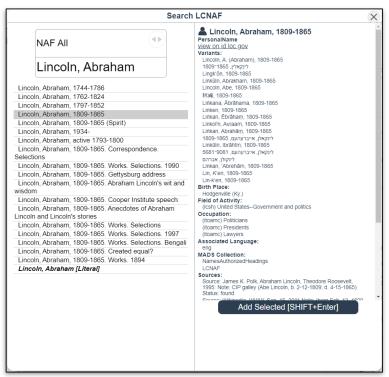# Functionality of Linked Data Editors

Profiles: Marva

Functionality of Linked Data Editors

Templates: Sinopia

Functionality of Linked Data Editors

Templates: Sinopia

- Ontology agnostic
- Customizable

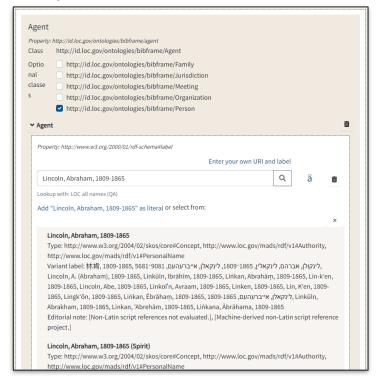# Functionality of Linked Data Editors
Querying by string

Marva

Sinopia

Feedback from the Field

Marva

- 2 graduate students and 5 original catalogers
- Attended Marva workshop

Sinopia

- 5 original catalogers, 2 graduate students, 2 non catalogers, and 2 cataloging and metadata Librarians
- Used the tool without prior training or experience

Feedback from the Field

- "I can navigate and work with the editors."
- *"It is not easy: too many clicks, too verbose, too hard <u>but I can follows through...</u>"*
- "I really need to know RDA/FRBR"

- "What did I create? Where can I see the results?"
  - "What happened next after I completed the template?"
  - "Why do I create records for "works"?"
- "How are BIBFRAME, Linked Data/Semantic Web, and OPAC [discovery system] connected?"

- Can we make a linked data editor that creates BIBFRAME data and more?
- Do we need to create 'Work' level data - can that be 'generated' by the system?
  - Some of the 'Instance' Information can be used for creating 'Work' level data?
  - Discovery systems already know how to do the FRBRized search and display!

Linked Data Editor Considerations

- Simple interface with easy to understand labels
- Provide a set of templates for different resource types
- Ontology agnostic
  - Built-in mappings for different outputs (MARC, BIBFRAME in different representations, etc.)
- Make the editor work hard(er)!
  - Generate Work level data
  - Provide autocomplete service via LOD sources
  - Identify and alert duplicated data entry

What editors/systems can do better and what 'we' can do better?

Too many 'New' hats?

- Evolving role of Cataloging and metadata professionals
- Assume NEW roles as -
  - Coordinator, Facilitator, and more.
- Required NEW skills -
  - Understanding systems, multiple ontologies
- Lead changes

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Difficulty of hiring new professionals

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