# BIBFRAME: Recent and Future Activities at the Library of Congress

Sally McCallum / Jodi Williamschen Library of Congress European BIBFRAME Workshop 2017 26 September 2017

### **BIBFRAME** activities

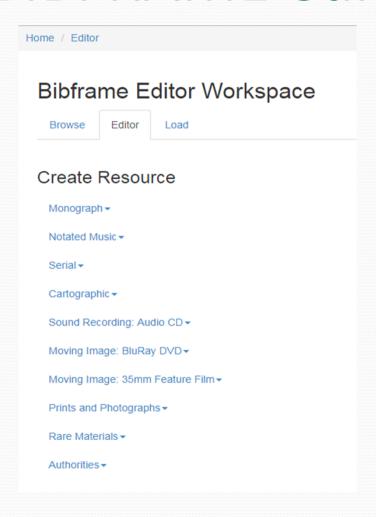
- Infrastructure improvements
  - Additional servers
  - MarkLogic (database software) update
- Revised MARC-to-BIBFRAME data conversion specifications and updated conversion software to match changes in the BIBFRAME 2.0 vocabulary
- New BIBFRAME editor profiles

## **BIBFRAME** activities

- Converted entire LC MARC catalog to BIBFRAME
  - 17 million MARC bibliographic records converted to BIBFRAME Works, Instances, and Items
  - 1.2 million uniform title authority records converted to BIBFRAME Works
  - Matching and merging of BIBFRAME Works
  - Daily updates from Voyager ILS system to id.loc.gov and BIBFRAME database
  - The entire processes has been reviewed and changed several times and records have been re-converted, reloaded and re-merged

### **BIBFRAME** activities

- 40 catalogers from BIBFRAME 1.0 pilot continued participation, and 20 new catalogers and technicians joined the BIBFRAME 2.0 pilot
- Training for new and continuing participants from May-July
- Catalogers started to enter metadata in the BIBFRAME editor in June
- Ongoing meetings with catalogers to improve editor profiles



Format-specific editor profiles

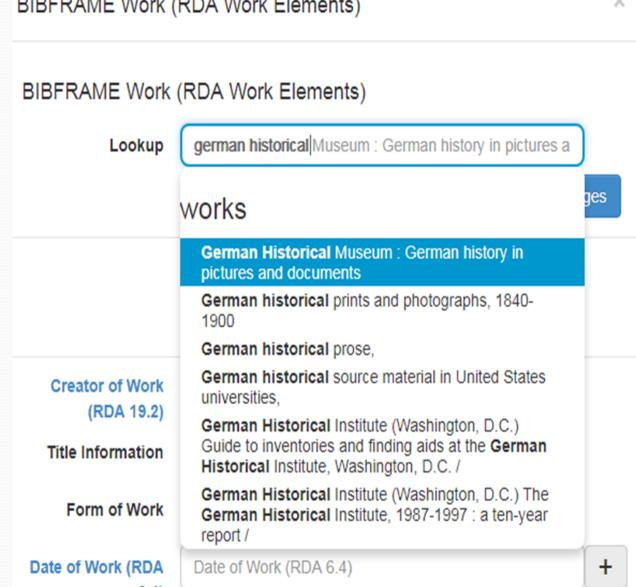


 Can begin with either Instance or Work

### BIBFRAME Work (RDA Work Elements)

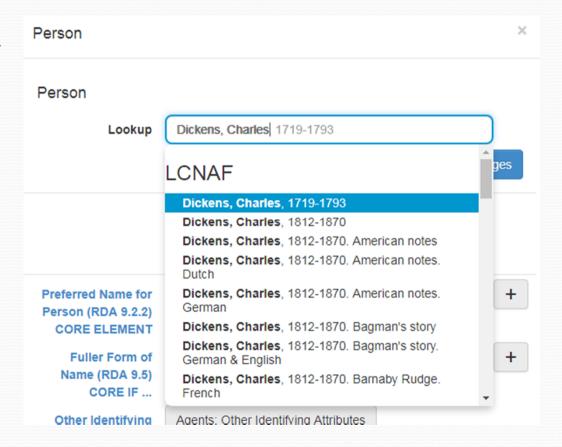
### **BIBFRAME** editor

Integrated searching of works



Integrated searching of authorized access points

For names ...



... and form/genre/subject authorized access points

Current vocabularies in integrated search

#### LCNAF

Personal, Corporate,
 Conference, Family names

#### **LCSH**

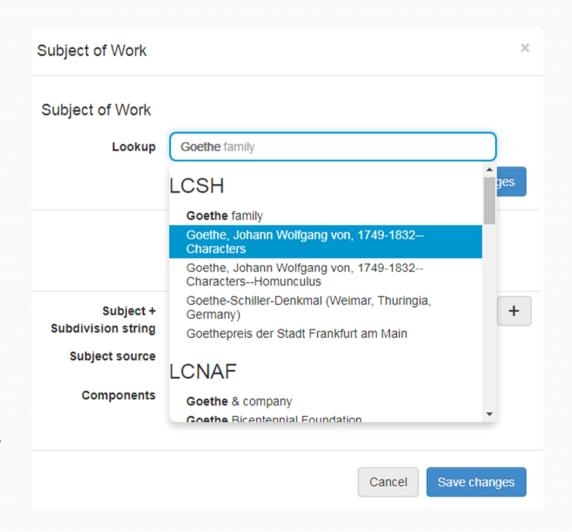
 Library of Congress Subject Headings

#### **LCGFT**

 Library of Congress Genre/Form Terms

#### **LCMPT**

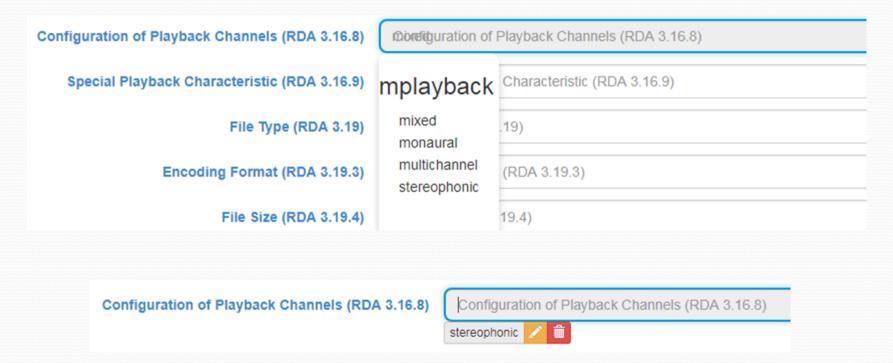
 Library of Congress Medium of Performance Thesaurus



 Some standard values are pre-supplied and are specific to each format



Drop-down vocabularies included for some fields



• Different catalogers have different needs and the BIBFRAME editor can be easily customized

### • Examples:

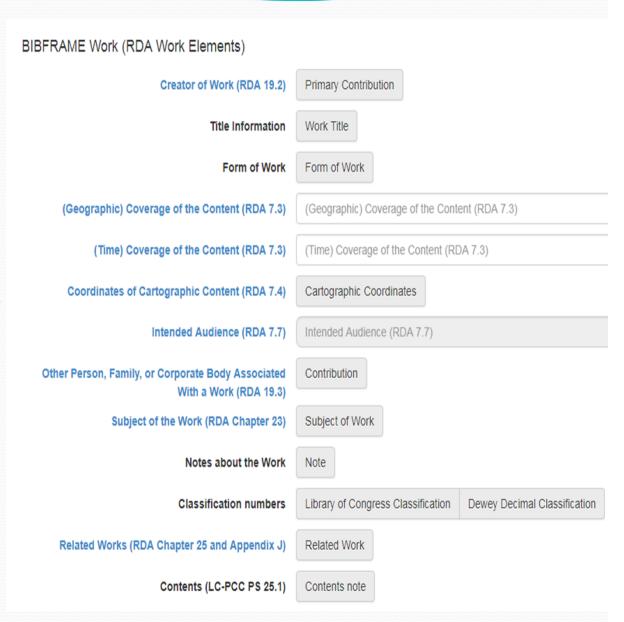
- Cartographic catalogers always create a new work
- Rare book catalogers need more specific item-level information
- Music catalogers are focused on relationships between existing works

Standard Monograph work profile (in part)

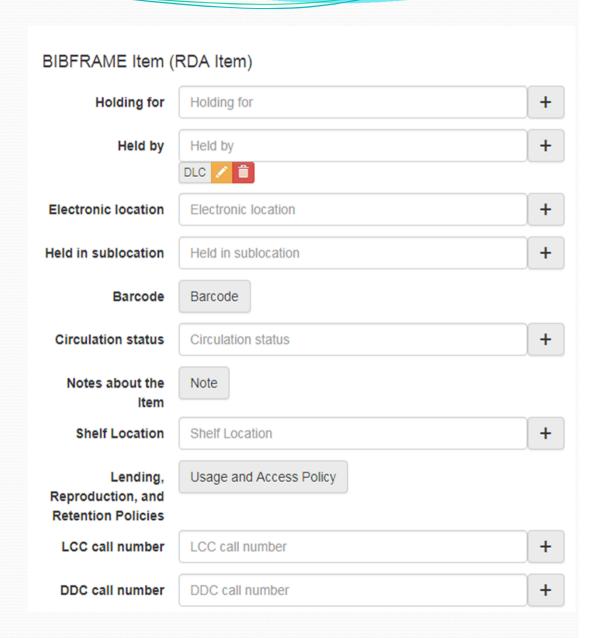
#### BIBFRAME Work (RDA Work Elements) Creator of Work (RDA 19.2) Primary Contribution Title Information Work Title Work Title Variation Transcribed Title Form of Work Form of Work Date of Work (RDA 6.4) Date of Work (RDA 6.4) Place Associated with a Resource Place of Origin of the Work (RDA 6.5) Nature of Content (RDA 7.2) Nature of Content (RDA 7.2) (Geographic) Coverage of the Content (RDA 7.3) (Geographic) Coverage of the Content (RDA 7.3) (Time) Coverage of the Content (RDA 7.3) (Time) Coverage of the Content (RDA 7.3) Intended Audience Intended Audience Other Agent Associated with Work (RDA 19.3) Contribution Subject of the Work (RDA Chapter 23) Subject of Work Notes about the Work Note

Cartographic Work profile with cataloger-requested specifications:

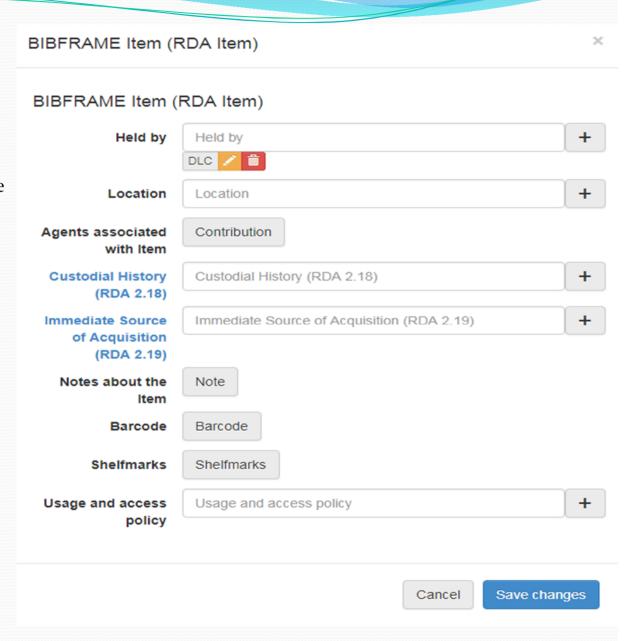
- Work Title Variation removed
- Transcribed Title removed
- Date of Work removed
- Place of Origin of Work removed
- Nature of Content removed
- Coordinates of Cartographic Content included



Standard Monograph Item profile (in part)

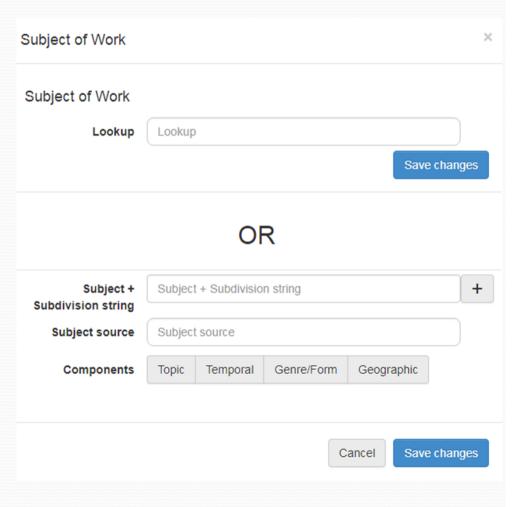


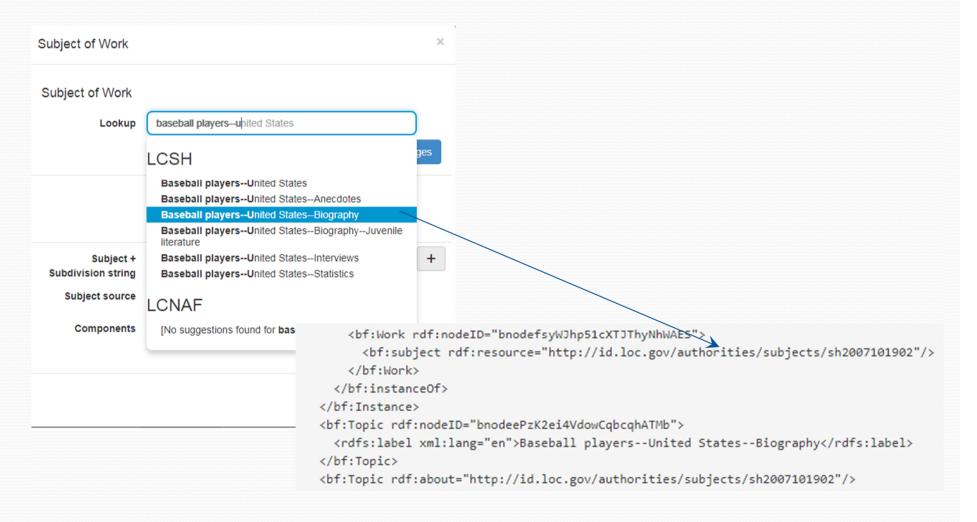
Rare Materials Item profile includes field to add agents at the item level (donor, owner, others)

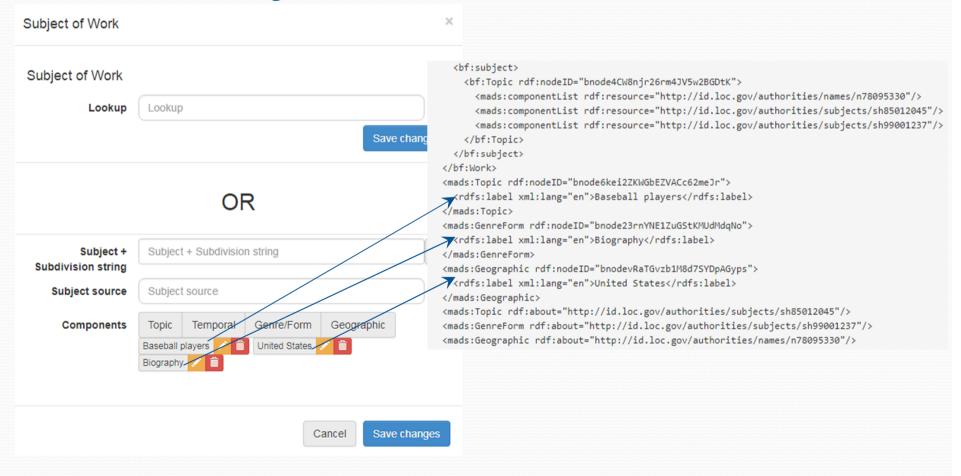


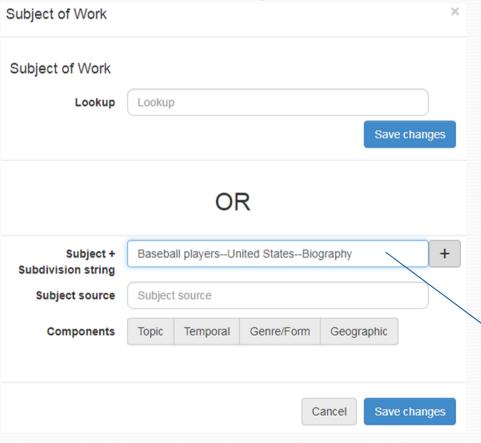
- Challenge to build relationships between works
  - How to handle aggregate works or bound-with titles
    - Many work descriptions linked to a single instance?
    - One collective work with many related works?
  - Related work and Related instance sections of editor profiles may need to be adjusted

 Subject strings and URIs can be constructed in different ways





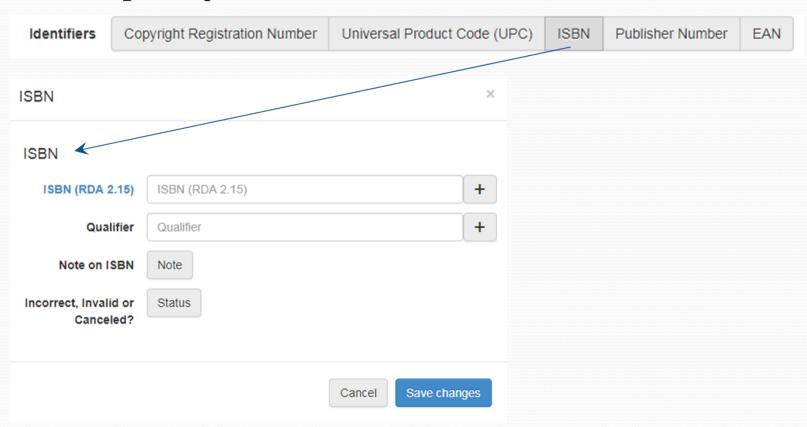


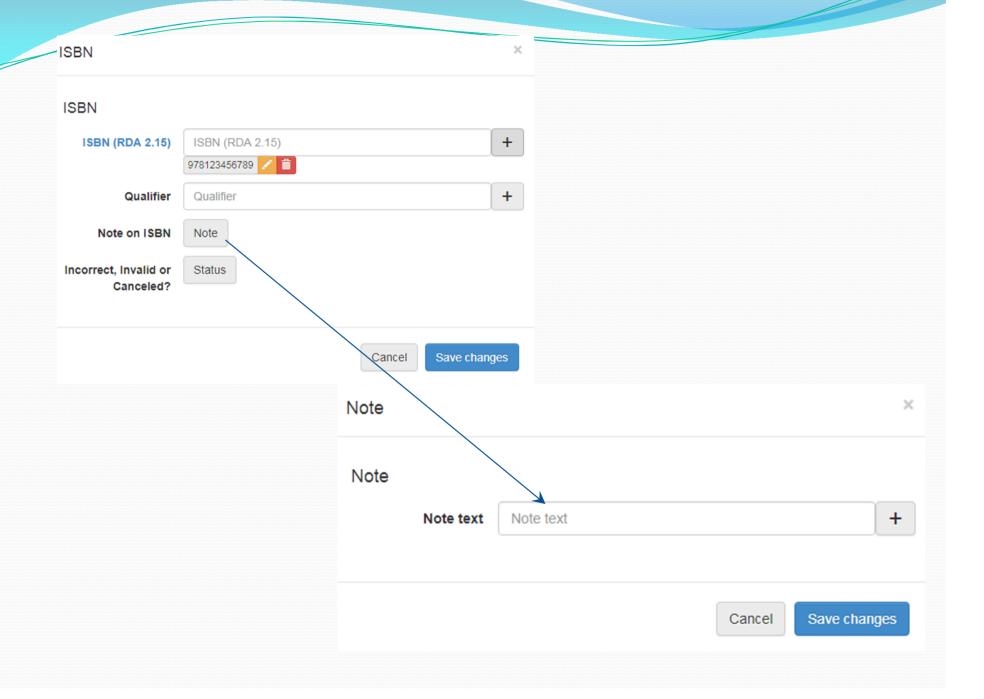


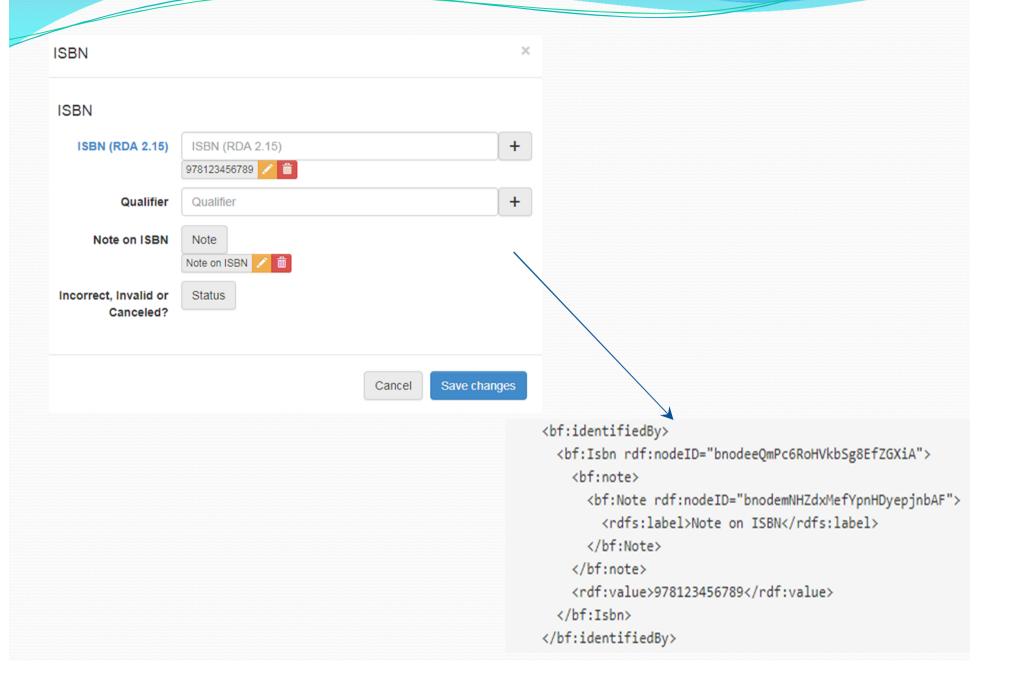
- Treatment of series statements
  - Include as a literal?
  - Relate to a work?
- Character set mapping
  - Some catalogers used special keyboards to input vernacular data
  - BIBFRAME uses Unicode; LC's Voyager ILS does not

- It's harder than expected to create good RDF data
- Property
  - Sub-property
    - Class
      - Sub-class
        - Label or value
- Editor needs to "remember" classes, properties and formatting from menus in the hierarchy

 Creating desired RDF output data has necessitated multiple layers of menus in the BIBFRAME editor

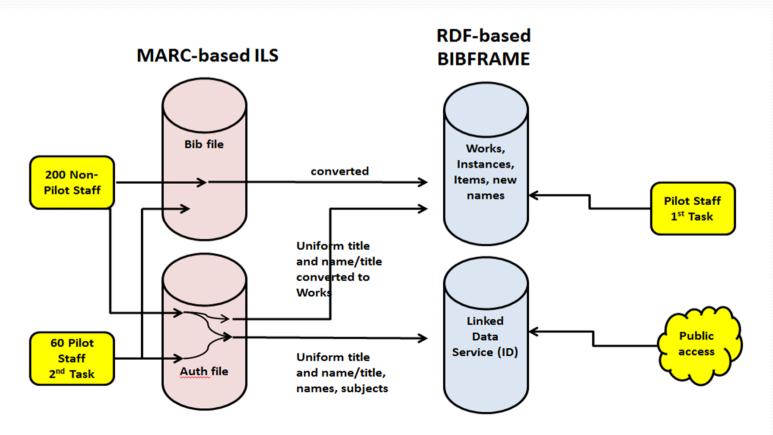






# Next steps

• Begin publishing (saving) metadata created in BIBFRAME editor into the BIBFRAME database



# Improving the editor

- Enhance display in BIBFRAME editor to facilitate proofreading and editing of data
- Refine recall of data from BIBFRAME database into the appropriate format-specific profile in the BIBFRAME editor
- Test and evaluate copy cataloging workflow(s)

# Next steps

- Review and possibly incorporate LD4P specialized ontologies into BIBFRAME vocabulary
  - Performed music
  - Art
  - Rare materials
- Evaluate impact of FRBR-LRM on BIBFRAME
  - One-to-many relationships between instances (manifestations) and works

# Next steps

 Continue to refine MARC-to-BIBFRAME conversion software

- Continue to evaluate indexing, normalization and display of BIBFRAME data in a discovery environment
- BIBFRAME-to-MARC conversion?

# Editor explorations

- Review BIBFRAME editor and profiles
  - Flatten the hierarchical structure?
  - Put more RDF coding into the software instead of the profile?
  - Review the current configuration of the format-based profiles
    - Instead of format-specific profiles, should there be a core set of elements that are always required?
    - Add the ability to insert a property or class on-the-fly?

# Additional information

http://www.loc.gov/bibframe/

http://id.loc.gov

https://github.com/lcnetdev

# Thank you

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