LexBib Zotero Collection

- Public Zotero Group
- Access: http://lexbib.org/zotero
- All metadata present, searchable
- API service for local citation managers
- Collaborative maintenance possible
- Group admins have access to full text attachments
- Public release planned at EURALEX 2020
LexBib RDF export script: See https://github.com/dlindem/zotero_lexbib_rdf

```
<owl:NamedIndividual rdf:about="http://lexbib.org/lexbib/item#ConfEuralex2018_789">
    <rdf:type rdf:resource="http://lexbib.org/lexdo/bibItem"/>
    <bibo:pages>789-798</bibo:pages>
    <dcterm:creator rdf:resource="http://alex.org/person#AldeMaria"/>
    <bibo:authorList>
        <rdf:Seq>
            <rdf:li rdf:resource="http://lexbib.org/agents/person#AldeMaria"/>
        </rdf:Seq>
    </bibo:authorList>
    <lexdo:container rdf:resource="http://lexbib.org/lexbib/item#ConfEuralex2018_0"/>
        xmlns:zotero="http://zotero.org/groups/1892855/items/GE5VDSF"
        xmlns:zoteroItemID="http://zotero.org/groups/1892855/items/GED5VDSF"
        xmlns:zoteroItemUri="http://zotero.org/groups/1892855/items/GED5VDSF">
        <rdf:type rdf:resource="http://purl.org/ontology/bibo/Article"/>
        <dcterms:isPartOf>
            <bibo:Proceedings>
                <dcterms:publisher>
                    <foaf:Organization>
                        <foaf:individual rdf:resource="http://lexbib.org/agents/person#CibajJaka"/>
                        <foaf:individual rdf:resource="http://lexbib.org/agents/person#GorjancVojko"/>
                        <foaf:individual rdf:resource="http://lexbib.org/agents/person#KosemIztok"/>
                        <foaf:individual rdf:resource="http://lexbib.org/agents/person#KrekSimon"/>
                    </foaf:Organization>
                </dcterms:publisher>
                <dcterms:title>Proceedings of the 18th EURALEX International Congress</dcterms:title>
                <bibo:editorList>
                    <rdf:Seq>
                        <rdf:li rdf:resource="http://lexbib.org/agents/person#KosemIztok"/>
                    </rdf:Seq>
                </bibo:editorList>
            </bibo:Proceedings>
        </dcterms:isPartOf>
    </owl:NamedIndividual>
```

Export:

- one-click-action, one-way
- Creation of two items:
  - lexdo:BibItem
  - zotexport:Item

```
LEXBIB RDF

Export:

- one-click-action, one-way
- Creation of two items:
  - lexdo:BibItem
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IJS

LEXBI

LEXDO
LexDo: Towards Lexicography as Knowledge Graph

- Access: http://lexbib.org/lexdo
- Standard RDF vocabularies
  - BIBO, PROV, Dublin Core, FOAF, Ontolex
- Top-level concepts:
  - Agent
    - Person/Organization/Software
  - Resource
    - Bibliographical resource/Lexical resource/Software
  - Subject
    - Subjects Headings controlled vocabulary
  - Language
  - Event
  - Place

LexDo - Domain Ontology of Lexicography

Release 2020-03-14T16:50:24.513+01:00

This version:
http://lexbib.org/lexdo/1.0.2

Authors:
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Contributors:
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Publisher:
Institut Jožef Stefan / Universität Hildesheim / UPV/EHU

Download serialization:

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http://creativecommons.org/licenses/by/3.0/

Cite as:
LexDo Domain Ontology of Lexicography and Dictionary Resource
For full reference, see About LexBib at Zotero.

http://lexbib.org/lexdo/1.0.2
LexDo: Towards Lexicography as Knowledge Graph

"The Basic Estonian Dictionary: the first monolingual L2 learner's dictionary of Estonian"

"2014"^^xsd:year

"Institute of the Estonian Language"@en

"Tallinn"@en

"Bolzano"@en

"The Sketch Engine"@en

"European Academy of Bolzano/Bozen"@en

"Estonian"@en

"Bolzano"@en
LexDo properties in Zotero

- Zotero Tags starting with "::" are interpreted as RDF assertions (properties lexdo namespace)
- Makes sense in cases of manual bulk edits
LexDo: Lexicalizations of Subject concepts

- Subjects are labelled with concept representations stemming from reference resources
- Three test resources
  - Wiegand WLWF lemmata, multilingual
  - Müller-Spitzer index, English
  - Kipfer Glossary of Lexicographic Terms
- Modeled in SKOS-XL
  - A straightforward way to include additional information about the label, e.g. where to find reference in Wiegand / Müller-Spitzer / Kipfer
BibItem subject indexation

- Represented as owl:ObjectProperty "lexdo:subject" (subproperty of dct:subject)
- Points to subject member of lexdo-top:Subject
  - Subject concepts are part of a skos:ConceptScheme
  - lexdo RWO can also be subjects (???)
- Subject concept has skosxl label(s), that are matched in
  - BibItem title
  - BibItem abstract
  - BibItem (lemmatized) full text content
- Later: Term extraction in full texts
  - Enables subject term weight ranking
  - Enables discovery of new concepts and synonym lexicalizations
LOD-ifying languages

Languages in LexBib / LexDo
- Publication language
- Object language

LEXVO Ontology
- URI built with ISO-639-3 codes
- Multilingual labels for languages

Wikidata (inference via ISO-639-3 code)
- e.g., where spoken ("country")
- typological features (e.g. "agglutinative")
- ...
LOD-ifying creators (authors, editors)

- Zotero author fields manually curated
  - Two persons with same name not allowed
  - Person name variants allowed, but we should try to avoid them
  - lexdo:Person individual created by Zotero export script
  - Example: http://lexbib.org/agents/person#KrekSimon

- Refinement (conversion into linked data)
  - OpenRefine: VIAF, ORCID, Wikidata
  - Inference of more properties
    - at the moment, only from Wikidata
    - e.g. employer, other IDS
  - Zotero RDF output → CSV → OpenRefine → lexbib.org/agents/persons
RDF data exhibit / Access GUI

- Mid-term scenario:
  LexBib RDF triples → SolR index for VuFind user frontend
  - as in LexBib project proposal (Lindemann et al. 2018)

- Quick interim solution???
- Data source triple store
- Listing of properties for BibItem, Creator, etc. individuals
- Resources pointed to in the list as active links
- Something like SKOSMOS, but for LexBib (OWL and SKOS)
LexBib / LexDo links and publications

- Homepage: http://lexbib.org
- Papers: See https://www.zotero.org/groups/1892855/lexbib/collections/E65TS5DR
- ResearchGate: https://www.researchgate.net/project/LexBib-Corpus-and-Bibliography
- Github: https://github.com/dlindem/zotero_lexbib_rdf
- Kontakt: team@lexbib.org | david@lexbib.org | david.lindemann@ehu.eus
- Elexis project: https://elex.is/
- Elexifinder: https://elex.is/tools-and-services/elexifinder/