

# LD4P Outputs

This is a list of outputs from the LD4P, organized by type of deliverable. For detailed information on each project in LD4P, see the individual [Project Pages](#). Some of the outputs from our partner project, LD4L-Labs, are included below; for the full list see [LD4L Labs Outputs](#).

## Linked data descriptions of library resources

- [Natively created descriptions of select items in Cornell's Hip Hop collection](#) (nquads format)
- [Encoded dedications \(natively created\) and BIBFRAME records \(converted from MARC\) for a representative selection of items in Princeton's Derrida collection](#)
- [Library of Congress BIBFRAME Work \(over 19 million\) and BIBFRAME Instance \(around 24 million\) descriptions, converted from MARC.](#) Background and instructions: [Bulk downloads of Works and Instances](#); data available at <http://id.loc.gov/download/>

## Ontologies

- [Art and Rare Materials \(ARM\) BIBFRAME ontology extensions](#) (includes modeling documentation and [ARM vocabularies](#))
- [Geospatial and Cartographic Resources Ontology \(GCRO\)](#) (includes modeling documentation)
- [LD4L Film ontology \(and modeling documentation\)](#)
- [Performed Music Ontology \(and PMO vocabularies and modeling documentation\)](#)
- [bibliotek-o](#) (includes modeling documentation)
- [Library of Congress BIBFRAME ontology](#) (*while developed prior to LD4P, BIBFRAME was further developed during the course of LD4P, with significant input from LD4P participants*) and [public feedback mechanism](#)
- [Ontology versioning and change management best practices](#) (from ARM)

## Application profiles

- [Art and Rare Materials \(ARM\) application profiles](#) (used with VitroLib)
- [Cornell Hip Hop LPs application profile](#) (used with VitroLib)
- [Recommendation for SHACL maintenance and development](#)
- CEDAR templates for [RDA book work and instance](#) and [digital repository self-deposit](#) (create CEDAR account to use these)

## Mappings to linked data

- [Columbia University Library's Art Properties metadata to ARM ontology](#)
- [MARC 382 field to Performed Music Ontology \(PMO\)](#)
- [Library of Congress' MARC 21 to BIBFRAME 2.0](#) (see also conversion tool and service below)
- [MARC BSR to bibliotek-o](#)
- [Harvard Geospatial Library FGDC and Harvard Film Archive metadata to BF/bibliotek-o](#) (see also conversion tools below)
- [BIBFRAME-to-Solr](#) (and SPARQL queries for Solr mapping)
- [Tabular MODS-based metadata to BIBFRAME for Stanford sample collection](#) (and [Ruby conversion script](#))

## Workflows for producing linked data

- [Stanford Tracer Bullets](#)

## Tools

## Visualization

- [LD4L-Labs' Visualization Tool Prototype for Harvard geospatial and film metadata](#)

## Conversion / transformation

- [Scala/Kafka/Spark Linked Data Pipeline](#) for converting MARC to BIBFRAME and [Reactive pipeline demo](#)
- [Library of Congress MARC to BIBFRAME converter](#) and [conversion viewing service](#)
- [LD4L-Labs' MARC to bibliotek-o converter](#) with extensions for converting [FGDC](#) and [Harvard Film Archive \(HFA\) data](#)

## Native linked data creation (Editors)

- [LD4L-Labs' VitroLib Metadata Editor](#)

- [Princeton's in-house annotation editor](#)
- [App to fetch folder contents from CEDAR and post them to a triplestore](#)

## Repository

- [Bibliportal](#) ontology repository (library-specific implementation of Stanford University's BioPortal)

## Tool requirements and evaluations

- [Registry of Tools used in LD4P](#)
- [Requirements for and evaluations of form-based linked data editing tools](#) (CEDAR, Library of Congress BIBFRAME Editor, VitroLib)
- [Lessons Learned: VitroLib User Feedback and Usability Review](#)
- [User stories for converting MARC records to BIBFRAME](#)

## Use cases for linked data descriptions

- [Use cases for art materials](#)
- [Use cases for rare materials](#)
- [Use cases for cartographic materials](#)
- [Use cases for moving image materials](#)
- [Use cases for performed music](#)

## Surveys of pre-existing work

- [Cataloging Art Properties: A Literature Review for Columbia University's LD4P Project](#)
- [Environmental scan of linked data efforts related to cartographic data](#)
- [Models for Performed Music](#)

## Tutorials

- [Ontology modeling tutorial: from data model to ontology](#) (developed for LD4P RareMat / ARTFrame Meeting)
- [Discovering ontologies and instance data existing terms](#) (developed for LD4P RareMat / ARTFrame Meeting)
- [OWL tutorial](#) (developed for LD4P RareMat / ARTFrame Meeting)
- [Publishing Library Authoritative Information as Linked Data](#)

## Meeting outputs

- [LD4 Workshop 2018](#)
- [LD4P / LD4L-Labs Community Input Meeting, April 24-25, 2017](#)
- [In-Person Meeting of ARTframe + Rare Materials Ontology Extension \(January 2018\)](#)
- [In-Person Meeting of ARTframe + Rare Materials Ontology Extension \(March 2017\)](#)

## Presentations and publications

- [LD4P Presentations and Publications](#)
- [LD4L Labs Communications and Outreach](#)