Investigating BIBFRAME

New Bibliographic Framework Initiative
OLA Superconference 01-28-2016
Alison Hitchens, Aida Rudnik, Christopher Carr
Agenda

› Introduction to Linked Data & BIBFRAME
› LibHub Initiative at the Hamilton Public Library
› BIBFRAME/Linked Data in Academic Libraries
› Q&A
Derrida, Jacques.  
[De la grammatologie. English]  
Of grammatology / by Jacques Derrida  
; translated by Gayatri Chakravorty Spivak. -- 1st American ed. --  
xv, 354 p. ; 24 cm.  
Translation of De la grammatologie.  
Includes bibliographical references.  
1879-6 pbk.  

1. Languages--Philosophy. I. Title.
An authority record

O'Brien, Flann, 1911-1966

Na Gopaleen, Myles, 1911-1966
Knowall, George
Na gCopaleen, Myles, 1911-1966

Heading

Cross-references

Statements of justification

His At Swim-Two-Birds ... 1939.
His The best of Myles, 1983; CIP t.p. (Myles na Gopaleen (Flann O'Brien))
His Myles away from Dublin, 1985; t.p. (Myles na Gopaleen (Flann O'Brien) selection written from the column written for ... under the name George Knowall)
De la grammatologie / by Jacques Derrida ; translated by Gayatri Chakravorty Spivak.

1st American ed.


xc, 354 p. ; 24 cm.

Includes bibliographical references.

Language and languages $x Philosophy.
Why replace MARC?

- MARC is just machine readable
- MARC is not machine actionable on the web
- Integrate and engage library data with the wider information community

“the BIBFRAME model is the library community’s formal entry point for becoming part of a much larger web of data” - Bibliographic Framework as a Web of Data: Linked Data Model and Supporting Services, 2012: p. 4.

Modified from : Amber Billey “Bibframe basics” 12/8/2015
Linked Data Concepts: Use structured data

- Type of resource: work
- Content type: text
- Creator: Jacques Derrida
- Translator: Gayatri Chakravorty Spivak
- Subject (LCSH): Language and languages—Philosophy
- Published (year): 1976
De la grammatologie was written by Jacques Derrida.
De la grammatologie was translated into English as Of grammatology.
De la grammatologie was translated by Gayatri Chakravorty Spivak.
Of grammatology was published in Baltimore.
Of grammatology was published by John Hopkins University Press.
Of grammatology was published in 1976.
Of grammatology is about Language and languages—Philosophy.
De la gramma\^{t}ologie

Written by Jacques Derrida

Written about Language and logic

Has profession Professor

Born in Algeria

Has narrower subject Language and languages--Philosophy

Wrote Verit\^{e} en peinture

Has profession Philosophy

Wrote Logic
Join with external data

Jacques Derrida
- Born in Algeria
- Wrote Verité en peinture
- Writes about Philosophy
- Influenced by Friedrich Nietzsche
- Influenced by Gayatri Chakravorty Spivak

De la grammaologie
- Written by Jacques Derrida

Logic

Philosophy
Linked data concepts: Data in graphs

Modified slide from: Amber Billey “BIBFRAME Basics”
Resource Description Framework (RDF) for statements

subject: De la grammatologie
predicate: has type
object: work

subject: De la grammatologie
predicate: created by
object: Jacques Derrida
More Linked Data Concepts

› Identify everything with an HTTP uniform resource identifier (URI), that is, a URL
› Provide useful information about things using web standards
› Include links to other URIs for expanded discovery

http://www.worldcat.org/oclc/172143
http://metadataregistry.org/schema-prop/show/id/15368.html
http://viaf.org/viaf/88958529/
Linked data in libraries

› Consume linked data
  - To provide context in our catalogues
  - To extend our information and make connections
  - To help with authority work

› Publish our data as linked data
  - Bibliographic data, controlled vocabularies, holdings
  - What do we want to make statements about? (subjects)
  - What do we want to say about them? (predicates)
Things in our MARC records

Overview of the BIBFRAME Model

- Creatives Works
- Instance
- Authority
- Annotation

53 Classes
289 Properties

Image source: Library of Congress. [Overview of the BIBFRAME Model](https://www.loc.gov/standards/bibframe/overview.html)
@prefix bf: <http://bibframe.org/vocab/>.
@prefix madsrdf: <http://www.loc.gov/mads/rdf/v1#>.
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>.

<http://id.loc.gov//resources/bibs/6621574> a bf:Text,
  bf:Work ;
  bf:authorizedAccessPoint "Derrida, Jacques. De la Grammatologie." ;
  bf:classificationLcc <http://id.loc.gov/authorities/classification/P105> ;
  bf:creator [ a bf:Person ;
    bf:authorizedAccessPoint "Derrida, Jacques." ;
    bf:hasAuthority [ a madsrdf:Authority ;
      madsrdf:authoritativeLabel "Derrida, Jacques." ] ;
    bf:label "Derrida, Jacques." ] ;
  bf:hasInstance [ a bf:Instance,
    bf:Monograph ;
    bf:dimensions "22 cm." ;
    bf:extent "448 p." ;]
Example BIBFRAME transformation – closer look

@prefix bf: <http://bibframe.org/vocab/> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .

<http://id.loc.gov//resources/bibs/6621574> a bf:Text, bf:Work ;

De la grammaatologie has type Text
- Taken from the MARC LDR for language material
De la grammaatologie has type Bibframe Work
Example BIFRAME transformation – closer look

@prefix bf: <http://bibframe.org/vocab/> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .

<http://id.loc.gov//resources/bibs/6621574>
bf:creator [ a bf:Person ;
    bf:authorizedAccessPoint "Derrida, Jacques." ;
]

De la grammatologie has creator (type: person) whose authorized access point is “Derrida, Jacques”
- Taken from the MARC 100 tag
- 100 1\ $a Derrida, Jacques
Example BIBFRAME transformation – closer look

<http://id.loc.gov//resources/bibs/6621574>
bf:hasInstance [ a bf:Instance,
  bf:Monograph ;
  bf:dimensions "22 cm." ;
  bf:extent "448 p." ;
]

De la grammatologie has instance of type Monograph
  - From the MARC LDR
De la grammatologie instance has dimensions 22 cm.
  - From the MARC 300 $c
De la grammatologie instance has extent 448 p.
  - From the MARC 300 $a
**BIBFRAME vocabulary examples**

**bf:Work** (class) - Resource reflecting a conceptual essence of the cataloging resource.

**bf:creator** (property) - Generalized creative responsibility role.

**bf:Person** (class) - Individual or identity established by an individual

**bf:authorizedAccessPoint** (property) - Controlled string form of a resource label intended to help uniquely identify it, such as a unique title or a unique name plus title.
BIBFRAME: Variations

BIBFRAME Profiles

Version 2.0

Bibframe Lite (bibfra.me)

Slide from: Thomas Meehan “BIBFRAME as a Library Linked Data Standard.” CILIP Linked Data Executive Briefing 2015
LibHub Initiative @ HPL

(over to Chris and Aida)
(these are separate sets of slides)
BIBFRAME/Linked Data in Academic Libraries
Learning

› Linked data concepts
› BIBFRAME model
› Relationship of BIBFRAME to MARC, RDA, FRBR etc.
› Purpose – should we be thinking differently about our library data as we create it
› Example: cataloguers at George Washington University

Photo credit: Sage Ross CC BY-SA 2.0
Workflow

› Beyond MARC transformation
› Impact on technical services work
› Impact on vendor systems
› Example: UC Davis BIBFLOW project

Photo credit: Maha Abed CC BY-ND 2.0
Beyond BIBFRAME

› Marking up our current catalogues with Schema.org
  - Dan Scott @ Laurentian

› Modeling KF Modified classification
  - Sarah Sutherland (CanLII) and Tim Knight (York University)

› Visualizing and linking library staff
  - Jason Clark & Scott Young at Montana State

› Linking our digital collections
  - University of Nevada Las Vegas

Source: Montana State University Library visualization for Scott W. H. Young
Large Linked Data Collaborations

- **Linked Data for Libraries (LD4L)**
  - Cornell University Library, the Harvard Library Innovation Lab, and the Stanford University Libraries

- **Canadian Linked Data Initiative**
  - U5 research libraries, Library & Archives Canada, Bibliothèque et Archives nationales du Québec

Image credit: [Jennifer Leonard](http://creativecommons.org/licenses/by-nc-nd/2.0) CC BY-NC-ND 2.0
Contact

› Alison Hitchens a hitc hens@u waterlo o.c a
  – Head, Digital Initiatives, University of Waterloo Library

› Aida Rudnik a rudnik@hpl.ca
  – Head, Technical Services, Hamilton Public Library

› Christopher Carr c cam@hpl.ca
  – Cataloguing Librarian, Hamilton Public Library
Selected Resources

- Amber Billey. BIBFRAME Basics. 12/8/2015 NETSL Annual Conference 2015
  https://netsl.files.wordpress.com/2015/04/bibframe-basics.pdf
- Bibflow project https://www.lib.ucdavis.edu/bibflow/
- Canadian Linked Data Initiative
  https://connect.library.utoronto.ca/display/U5LD/Canadian+Linked+Data+Initiative+Home
- Jason Clark and Scott W.H. Young. Linked Data is People: using linked data to reshape the library staff directory. Presented at ACCESS 2014, Calgary, Alberta
Selected Resources

http://kcoyle.blogspot.ca/2012/10/is-linked-data-answer.html

› Karen Coyle (2010). Understanding the semantic web: bibliographic data and metadata. Chicago: American Library Association (Library Technology reports ; v. 46, no. 1)
http://www.metapress.com.proxy.lib.uwaterloo.ca/content/g212v1/83607/ (subscription required)

http://www.accessola2.com/olita/insideolita/wordpress/?p=60029

http://www.accessola2.com/olita/insideolita/wordpress/?p=60281
Selected Resources

› LibHub - [http://www.libhub.org/](http://www.libhub.org/)
› Linked Data: Connect Distributed Data Across the Web [http://linkeddata.org/](http://linkeddata.org/) (includes the LOD Cloud diagram)
› Linked Data for Libraries project [https://www.ld4l.org/](https://www.ld4l.org/)
› UNLV’s Linked Data Project (2014) [http://www.library.unlv.edu/linked-data](http://www.library.unlv.edu/linked-data)