BIBFRAME AGENT DATA FROM MARC AUTHORITY RECORDS –

IS IT AN UNNECESSARY REDUNDANCY?

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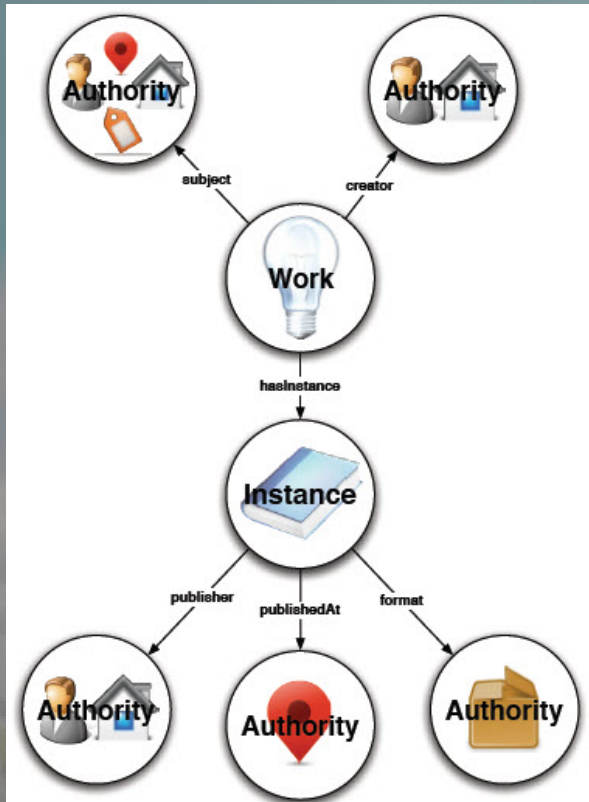17 September 2019

bf:

BIBFRAME

Hungary – Looking and Evaluating

- Hungarian National Library represented by Miklos Lendvay and Miklos Hubay
  - *Have carried out experiments looking at multiple vocabularies, rdf schema, bibo, etc.*
  - *BIBFRAME offered an opportunity to work with a vocabulary more "in tune" with the library cataloging guidelines*
  - *Examining questions:*
    - Is BIBFRAME well known enough yet?
    - Is there a critical quantity of data using BIBFRAME to spawn tools?

BRIEF HISTORY OF BF:AUTHORITY

© LOC

```
rdf:about="http://bibframe.org/vocab/Authority">
<rdfs:subClassOf
rdf:resource="http://bibframe.org/vocab/Resource"/>
```

`<rdfs:comment>`**Representation of a key concept or thing. Works and Instances, for example, have defined relationships to these concepts and things.**`</rdfs:comment>`

BRIEF HISTORY OF BF:AUTHORITY

„BIBFRAME Authority is used to identify the following that may be associated with a Work or Instance"

Subclasses

- `Agent` - entity having a role in a resource (Person, Organization, etc.)

- `Place` - geographic location

- `Temporal Concept` - chronological period

- `Topic` - concept or area of knowledge

Properties

- `hasAuthority` – link to controlled form of name or subject and other information about

- `referenceAuthority` – link to authority information

- `authoritySource` – authority list from which a value is taken

- `authorityAssigner` – entity that assigned the information

THE „KISS" VERSION

```
ex:wk666 a bf:Work ;
bf:creator <http://id.loc.gov/authorities/names/n79049248>
```

THE „LEVEL 2" VERSION

```
ex:wk666 a bf:Work ;
bf:subject http://bibframe.org/resources/sample-pu/5952219topic14

[...]

<http://bibframe.org/resources/sample-pu/5952219topic14> a bf:Topic ;
 bf:authorizedAccessPoint "Color prints, Japanese--Meiji period, 1868-1912" ;
 bf:hasAuthority <http://id.loc.gov/authorities/subjects/sh85028638> ;
```

THE „LEVEL 3" VERSION

```
ex:wk666 a bf:Work ;
bf:contributor http://data.libraries.uc.edu/armstrong/bibframe/people/3
[...]

http://data.libraries.uc.edu/armstrong/bibframe/people/3 a bf:Person ;
bf:authorizedAccessPoint "Armstrong, Neil, 1930-2012" ;
bf:hasAuthority "http://id.loc.gov/authorities/names/n80008815" ;

bf:referenceAuthority
"http://viaf.org/viaf/111826406" ;
"http://en.wikipedia.org/w/index.php?title=Neil_Armstrong&oldid=650449902" .

bf:label "Armstrong, Neil, 1930-2012" ;
```
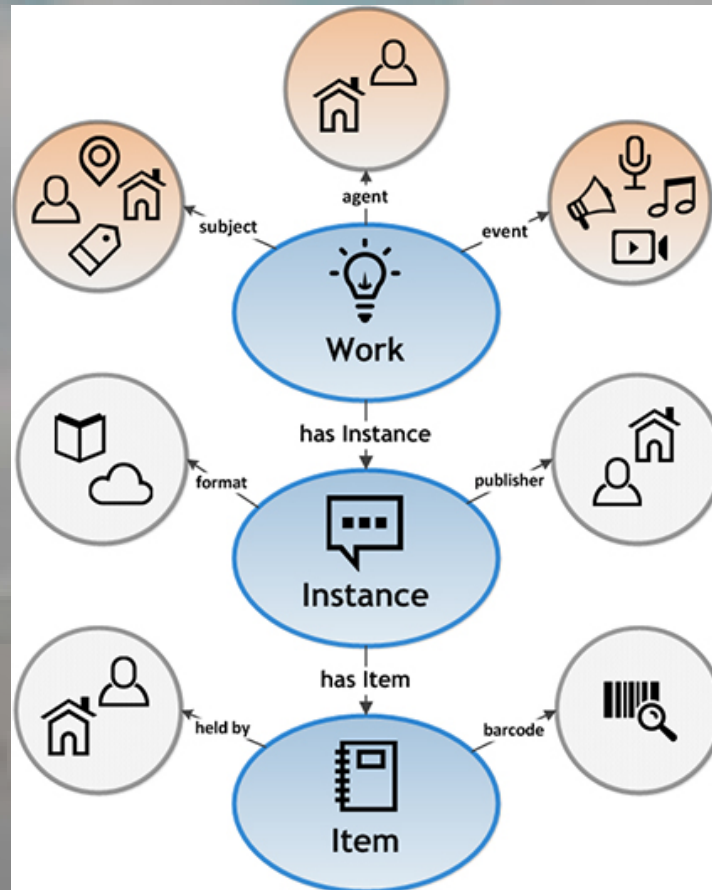
WHAT'S MORE...

- `<http://id.loc.gov//resources/bibs/14920419> a bf:Work ;` **`bf:authorizedAccessPoint`** `"Maxwell, Robert L., 1957- FRBR :a guide for the perplexed",` `"`**`maxwellrobertl1957`**`frbraguidefortheperplexed`**`eng`**`work`**`text"@x-bf-hash`** `;`

- `<http://catalog.coloradocollege.edu/4124646> a bf:Work ;` **`bf:authorizedAccessPoint`** `"Austen, Jane, 1775-1817. Pride and prejudice / Jane Austen ; with illustrations by Edgard Cirlin.Pride and prejudice",` **`"austenjane17751817`**`cirlinedgard1913`**`prideandprejudice`**`eng`**`work`**`text`**`"@x-bf-hash`** `;`

- **`<bf:authorizedAccessPoint`** `xml:lang="`**`x-bf-hash"`**`>`**`gordonburgessl1892`**`americancollegeofchestphysiciansclinicalcardiopulmonaryphysiology`**`eng`**`work`**`text`**`</bf:authorizedAccessPoint>`

- **`<bf:authorizedAccessPoint`**`>Rinzler, Lodro. The Buddha walks into the office : a guide to livelihood for a new generation</bf:authorizedAccessPoint>` `<bf:title` **`xml:lang="x-bf-sort`**`">Buddha walks into the office :</bf:title>`

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EVOLUTION IN BF2

LOC SPECIALITIES IN BFLC

Keep the subfield order
and handle the primary contribution
and…

- **MatchKey** – drop all indicators and subfield codes
- **MarcKey** – keep all indicators and subfield codes with $ delimiter
- **titleSortKey** – rdfs:label + remove the characters that have been specified in i2

```
name00MarcKey
name00MatchKey
name10MarcKey
name10MatchKey
name11MarcKey
name11MatchKey

primaryContributorName00MatchKey
primaryContributorName10MatchKey
primaryContributorName11MatchKey

title00MarcKey
title00MatchKey
title10MarcKey
title10MatchKey
title11MarcKey
title11MatchKey
title30MarcKey
title30MatchKey
title40MarcKey
title40MatchKey

titleSortKey
```

```
<rdf:type rdf:resource="http://id.loc.gov/ontologies/bflc/PrimaryContribution"/>

<bflc:name00MatchKey>Schulz, Charles M. (Charles Monroe), 1922-
2000.</bflc:name00MatchKey>

<bflc:name00MarcKey>7001 $aSchulz, Charles M.$q(Charles Monroe),$d1922-
2000.</bflc:name00MarcKey>
```

VARIATIONS ON A TITLE

```
<bf:authorizedAccessPoint>Rinzler, Lodro. The Buddha walks into the office : a
guide to livelihood for a new generation</bf:authorizedAccessPoint>
<bf:title xml:lang="x-bf-sort">Buddha walks into the office :</bf:title>
```

```
<bf:title>
    <bf:Title>
      <bflc:title40MatchKey>Az ördög. magyar</bflc:title40MatchKey>
      <bflc:title40MarcKey>24013$060200$aAz ördög.$lmagyar$960200</bflc:title40MarcKey>
      <rdfs:label>Az ördög. magyar</rdfs:label>
      <bflc:titleSortKey>ördög. magyar</bflc:titleSortKey>
      <bf:mainTitle>Az ördög</bf:mainTitle>
    </bf:Title>
  </bf:title>
```

WHO IS THE AGENT AMONG US?

1) BIBFRAME Comparison Tool – loaded MARC (BIBID: 99823)

```
<bf:agent >
    <bf:Agent rdf:about="http://id.loc.gov/authorities/names/n2004089059" >
        <rdf:type rdf:resource="http://id.loc.gov/ontologies/bibframe/Person" />
        <bflc:name00MatchKey >Milošević, Žarko.</bflc:name00MatchKey>
        <bflc:primaryContributorName00MatchKey >Milošević, Žarko.</bflc:primaryContributorName00MatchKey>
        <bflc:name00MarcKey >1001 $aMilošević, Žarko.</bflc:name00MarcKey>
        <rdfs:label >Milošević, Žarko.</rdfs:label>
    </bf:Agent>
</bf:agent>
```

Class:	Person
URI:	http://id.loc.gov/ontologies/bibframe/Person
Label:	Person
Definition:	Individual or identity established by an individual (either alone or in collaboration with one or more other individuals).
SubClass Of:	Person ⤤ Agent
Change Notes:	2016-04-21 (New)

WHO IS THE AGENT AMONG US?

```
2) BIBFRAME Editor Workspace - loaded MARC (BIBID: 99823)
<bf:agent>
    <bf:Agent rdf:about="http://id.loc.gov/authorities/names/n2004089059">
        <rdfs:label>Milošević, Žarko.</rdfs:label>
        <rdf:type rdf:resource="http://www.loc.gov/mads/rdf/v1#PersonalName"/>
        <bflc:primaryContributorName00MatchKey>Milošević, Žarko.</bflc:primaryContributorName00MatchKey>
        <bflc:name00MatchKey>Milošević, Žarko.</bflc:name00MatchKey>
        <bflc:name00MarcKey>1001 $aMilošević, Žarko.</bflc:name00MarcKey>
    </bf:Agent>
</bf:agent>
```

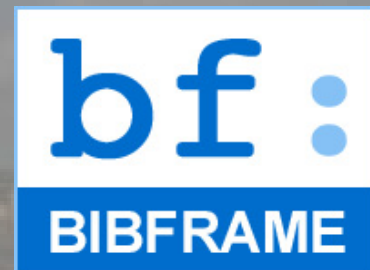| Class:	madsrdf:PersonalName
URI:	http://www.loc.gov/mads/rdf/v1#PersonalName
Label:	Personal Name Type
Comment:	Describes a resource whose label represents a personal name.
SubClass Of:	madsrdf:Name

THERE IS NO PERF...

```
3) BIBFRAME Comparison Tool - loaded MARC (BIBID: 2271245)
<bf:subject >
    <bf:Agent rdf:about="http://bibframe.example.org/2271245#Agent600-18" >
        <rdf:type rdf:resource="http://id.loc.gov/ontologies/bibframe/Person" />
        <rdf:type rdf:resource="http://www.loc.gov/mads/rdf/v1#PersonalName" />
        <madsrdf:authoritativeLabel >Holtorf, Hans, 1899</madsrdf:authoritativeLabel>
        <madsrdf:isMemberOfMADSScheme rdf:resource="http://id.loc.gov/authorities/subjects" />
        <bf:source >
            <bf:Source >
                <bf:code >lcsh</bf:code>
            </bf:Source>
        </bf:source>
        <bflc:name00MatchKey >Holtorf, Hans, 1899-</bflc:name00MatchKey>
        <bflc:name00MarcKey >60010$aHoltorf, Hans,$d1899-</bflc:name00MarcKey>
        <rdfs:label >Holtorf, Hans, 1899-</rdfs:label>
    </bf:Agent>
</bf:subject >
```

SEMANTIC TRADITION OF NSZL

•**Collection catalogue and Digital Library** - RDFDC, FOAF, SKOS, BIBO + sameAs to DBPedia (April, 2010)

•**Hungarian Electronic Library** – with Flint SPARQL Editor (2015)
http://v.mek.oszk.hu/FlintSparqlEditor/index-mek.html

•**Digital Archive of Pictures** – with Flint SPARQL Editor (2017)
http://v.mek.oszk.hu/FlintSparqlEditor/index-dka.html

- **A new data set:** RDA- and entity-based bibliographic (15) and authority records (~50) from KOHA

- BIBFRAME-conversion with BF- and metadata experts

- In Virtuoso
  - now (bib)
  - under construction (aut)

THE PROBLEM OF $0-S

=**100** 1\
$a Molnár Ferenc,
$d 1878-1952
$e szerző
$4 aut
$0 4016
$9 4016

```
<rdfs:label>Molnár Ferenc, 1878-1952</rdfs:label>
<bf:identifiedBy>
<bf:Identifier>
<rdf:value/>
</bf:Identifier>
</bf:identifiedBy>
<bf:Agent
rdf:about="http://data.koha.oszk.hu/#Agent">
```

There were no $0 values in two records (unintentionally)

THE PROBLEM OF $0-S

=**710** 2\
$a Franklin Társulat Magyar Irodalmi Intézet és Könyvnyomda
$e kiadó
$4 pbl
$9 60166

```
<bf:contribution>
<bf:Contribution>
<bf:agent>
<bf:Agent rdf:about="http://data.koha.oszk.hu/233151#Agent">
<rdf:type
rdf:resource="http://id.loc.gov/ontologies/bibframe/Organization"/>
<rdfs:label>Franklin Társulat Magyar Irodalmi Intézet és
Könyvnyomda</rdfs:label>
</bf:Agent>
</bf:agent>
```

There were no $0 values at all
(KOHA configuration problem in 700 and 710)

It's all about URIs...

DATA ENRICHMENT FROM AUTHORITY RECORDS

Adding Birth and Death Date (and Place) as Typed Literals

```
<bflite:dateBirth>value of 046$f</bflite:dateBirth> - or dateStart (046$q)
<bflite:dateDeath>value of 046$g</bflite:dateDeath> - or dateEnd (046$r)

<bflite:placeBirth>
        <bf:Place>
                <rdf:type rdf:resource="http://id.loc.gov/ontologies/bibframe/Place"/>
                <rdfs:label>value of 370$a</rdfs:label>
        </bf:Place>
</bflite:placeBirth>

<bflite:placeDeath>
<        bf:Place>
                <rdf:type rdf:resource="http://id.loc.gov/ontologies/bibframe/Place"/>
                <rdfs:label>value of 370$b</rdfs:label>
        </bf:Place>
</bflite:placeDeath>
```

DATA ENRICHMENT FROM AUTHORITY RECORDS

Language Informations

```
<bf:language>
  <bf:Language rdf:about="http://id.loc.gov/vocabulary/languages/hun" />
</bf:language>
```

```
<bf:language>
  <bf:Language>
    <rdfs:label>magyar</rdfs:label>
  </bf:Language>
</bf:language>
```

```
<bf:language>
  <bf:Language>
    <bf:identifiedBy>
      <bf:Identifier>
        <rdf:value rdf:resource="http://id.loc.gov/vocabulary/languages/hun" />
        <bf:source>
          <bf:Source rdf:about="http://id.loc.gov/vocabulary/languages" />
        </bf:source>
      </bf:Identifier>
    </bf:identifiedBy>
  </bf:Language>
</bf:language>
```
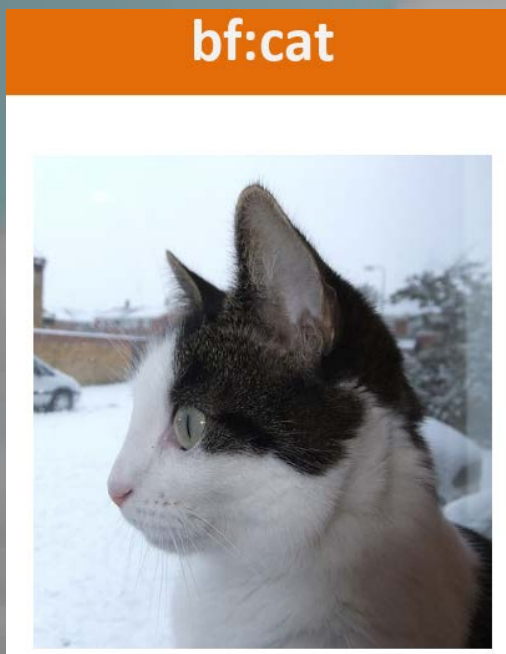
„Language associated with a resource or its parts."

Resource = **Agent** based on **377$a**

Let the range be **bf:Language!**

AND FINALLY... THE GREAT DEBATE

bf:cat

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Hubay Miklós Péter @GVM206 · 2018. szept. 17.
bf:Agent :) #eubfws2018

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THANK YOU FOR YOUR ATTENTION! :)