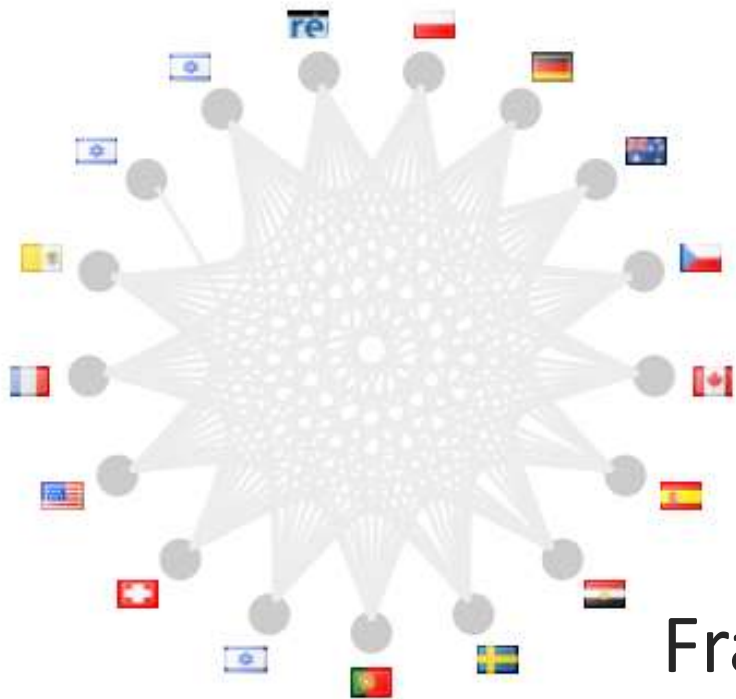


Linked Data and VIAF



T Hickey


EMEA 2011

Frankfurt, Germany


VIAF


- Virtual International Authority File
- Cooperative project
 - Led by BnF, DNB, LC and OCLC
- Merges national-level authority files
 - 21 files
 - 17 million names
 - 6.5 million links
 - 14 million clusters
 - Personal, corporate, conference names
- <http://viaf.org/>





Goethe, Johann Wolfgang von 1749-1832 

Goethe, Johann Wolfgang von 

1749-1832, גתה, יוהן וולפגנג 

Гете, Иоганн Вольфганг Фон, 1749-1832 

م. 1832-1749, جوته, يوهان ولفجانج فون 

(.Goethe, Johann Wolfgang V) گوته, يوهان قلفگنك فن 

VIAF ID:24602065

Preferred Forms

 [100 1a Goethe, Johann Wolfgang von. 1d 1749-1832](#) 

 [100 1a גתה, יוהן וולפגנג. 1d 1749-1832](#) 

 [100 1a Goethe, Johann Wolfgang von. 1d 1749-1832](#) 

 [100 1a Goethe, Johann Wolfgang von 1d 1749-1832](#) 

 [200 1a Goethe, 1b Johann Wolfgang von. 1f 1749-1832](#) 

 [100 1a Goethe, Johann Wolfgang V\) گوته, يوهان قلفگنك فن](#) 

 [100 1a Goethe, Johann Wolfgang von. 1d 1749-1832](#) 

 [100 1a Goethe, Johann Wolfgang von 1d \(1749-1832\)](#) 

 [200 1a Goethe 1b Johann Wolfgang von 1f 1749-1832](#) 

 [100 1a Goethe, Johann Wolfgang von.](#) 



 [100 1a م. 1749-1832 جوته, يوهان ولفجانج فون.](#) 

 [100 1a Goethe, Johann Wolfgang von 1d 1749-1832](#) 

 [100 1a Goethe, Johann Wolfgang von. 1d 1749-1832](#) 

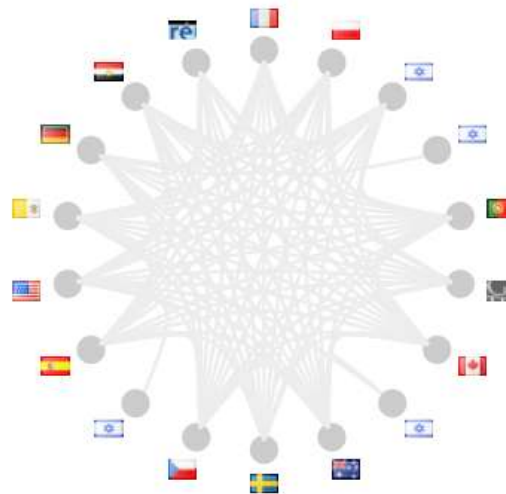
 [100 1a Goethe, Johann Wolfgang von. 1d 1749-1832](#) 

 [100 1a Goethe, Johann Wolfgang von 1d 1749-1832](#) 

 [100 1a Гете, Иоганн Вольфганг Фон. 1d 1749-1832](#) 

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 [100 1a Goethe, Johann Wolfgang von. 1d 1749-1832](#) 



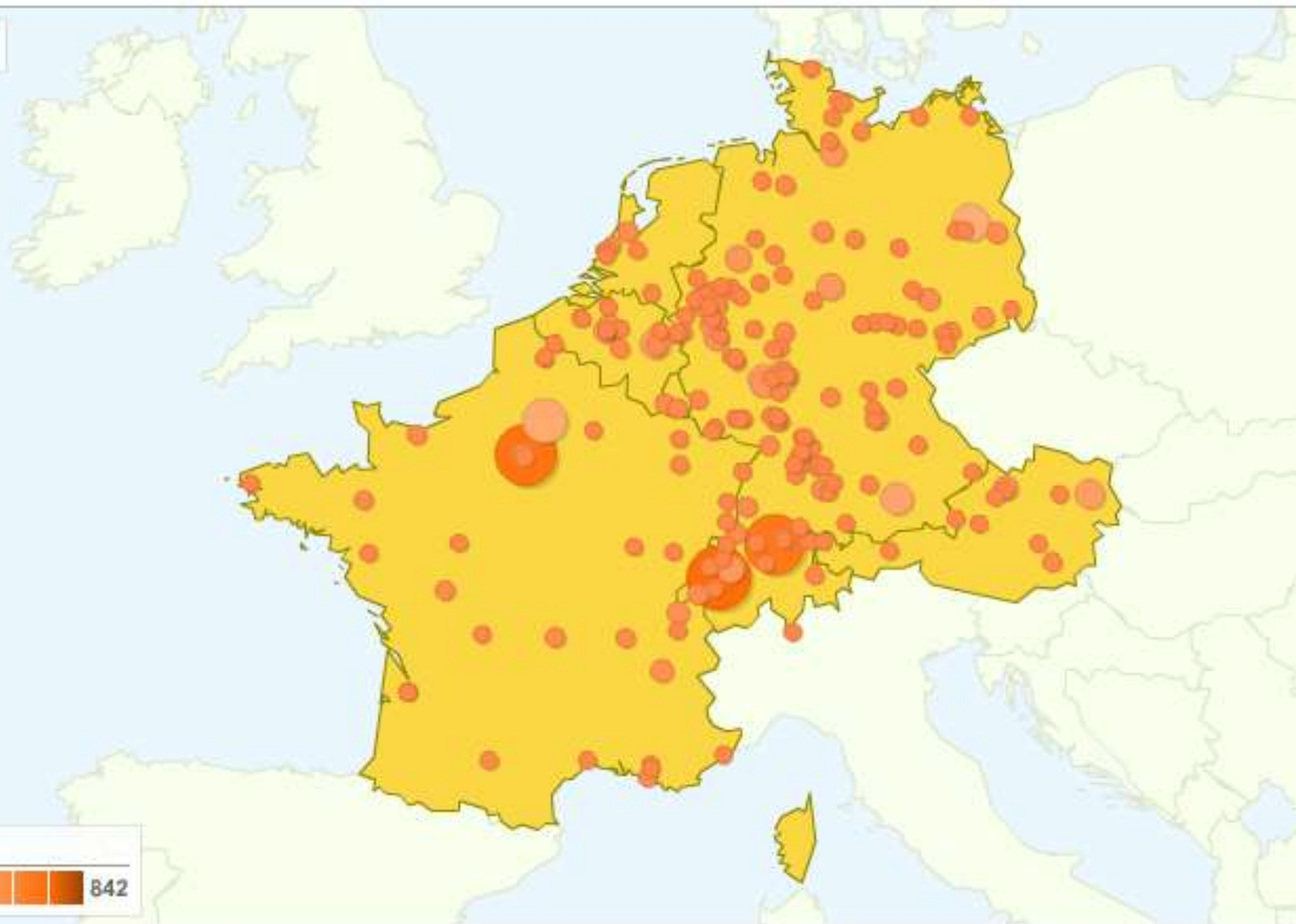
Visits ▾

Zoom Out

Visits

1  842

This region sent 10,004 visits via 665 cities



VIAF as a hub

- Provides a common identifier for entities
- Expands library authority control
 - Disparate projects can use same ID for entities
 - Allows switching between languages, scripts
 - VIAF in turn links to synonym IDs for entities
- Problems
 - VIAF is not perfect
 - VIAF is not universal

VIAF as linked data

- Multiple views and real-world objects
- RDF is mainly cross references, links
- Multiple ontologies (OWL, VIAF, FOAF, SKOS, RDA)
- Common infrastructure for HTML and RDF
- URI patterns:
 - <http://viaf.org/viaf/24602065>
 - <http://viaf.org/viaf/24602065/>
 - [http://viaf.org/viaf/24602065/#Goethe, Johann Wolfgang von 1749-1832](http://viaf.org/viaf/24602065/#Goethe,_Johann_Wolfgang_von_1749-1832)
 - <http://viaf.org/viaf/24602065/viaf.xml>
 - <http://viaf.org/viaf/24602065/viaf.html>
 - <http://viaf.org/viaf/24602065/rdf.xml>
 - <http://viaf.org/viaf/24602065/marc21.xml>
 - <http://viaf.org/viaf/24602065/unimarc.xml>

'VIAF at a glance'

Classes:

- AuthorityScheme
- AuthorityAgency
- NameAuthorityCluster
- Heading

NAC Properties:

- hasEstablishedForm
- hasXrefAlternate
- hasXrefRelated

<http://viaf.org/ontology/1.1/>

<http://viaf.org/viaf.jpg>

VIAF Links to other linked data

owl:sameAs:

- SELIBRIS (Sweden)
- DNB (Germany)
- NUKAT (Hungary)
- DB Pedia

foaf:page:

- Wikipedia, (Getty ULAN, BNE)

Support Layers

Linked Data / AtomPub

SRU + XSLT

Text
DB

JDBC

File
Sys

SRU

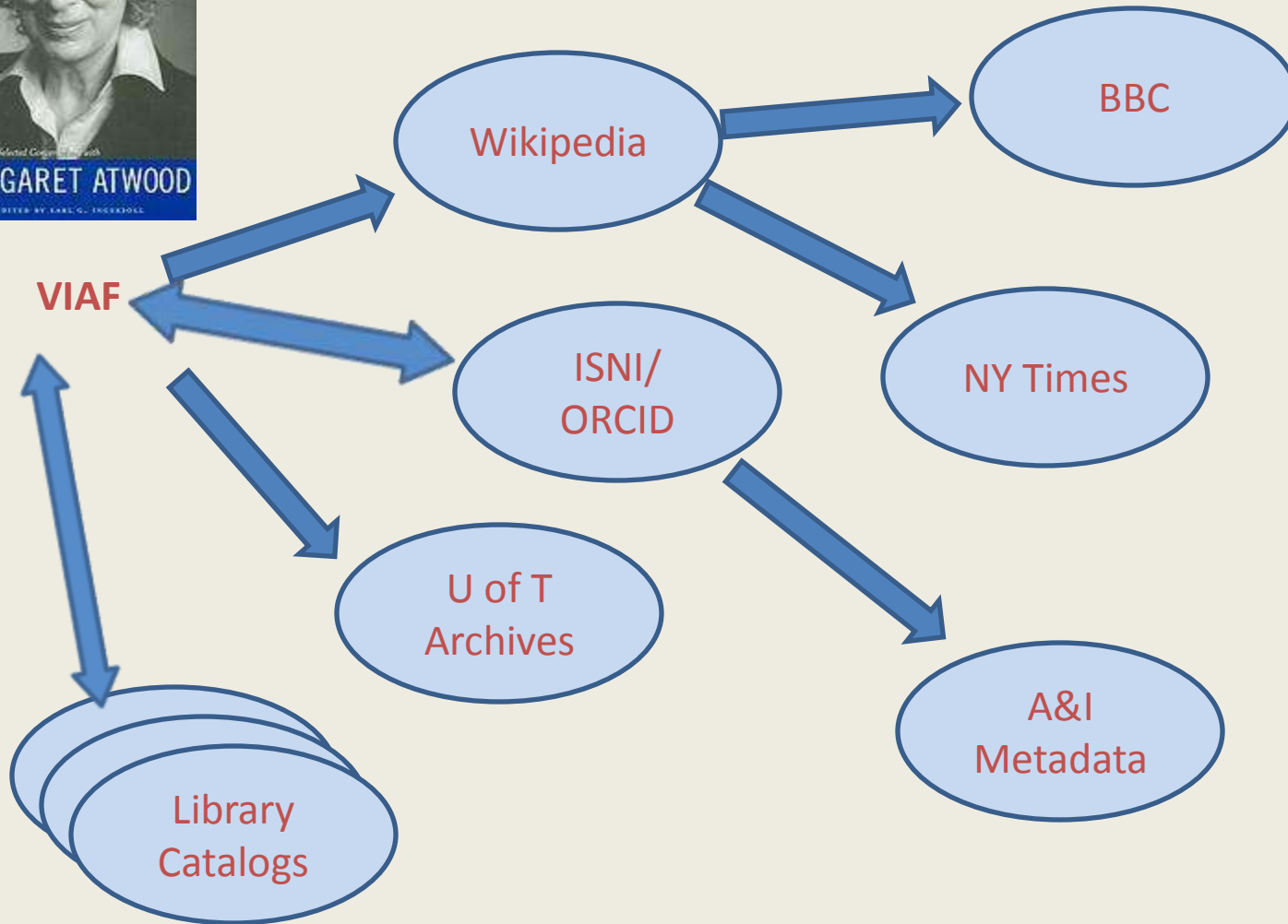
Z39.50

The promise of linked data

- Share data
- Understand others data
- Visibility



Margaret Atwood



Shareable metadata

- Public
- Simple
- Supply data rather than APIs
 - Avoid idiosyncratic protocols
 - Z39.50
 - MARC-21
 - ISO2709

But library data...

- Trusted
- Understood
- Reasonably interoperable
- Complex

Within the community, linked data of limited help

Why are we interested?

- Reach wider audience
 - Participate in important projects
 - Link to and possibly import interesting data
- We like where it has led us
 - Generalized transparent infrastructure
 - Clear distinction between entity and metadata
 - OWL/Modeling

New capabilities

- Make assertions about others metadata
 - Claim that two identifiers describe the same person
 - <http://viaf.org/viaf/109322990>
 - foaf:Person
 - [http://dbpedia.org/resource/Margaret Atwood](http://dbpedia.org/resource/Margaret_Atwood)

Other projects

- FAST (Faceted App. of Subject Terminology)
 - Based on LC Subject Headings
 - Extremely useful for reuse
- General modeling of library metadata
 - Works, Manifestations
- xA (extensible Authorities)
 - Will feed into VIAF
 - MADS internally
 - RESTful interface

xA^{BETA}

EXTENDED VIAF AUTHORITY

Search xA

Select Field:

All fields

Search Terms:

Search

Create a New xA Entity



Create New Personal Name



Create New Corporate Name

Thanks & links

- Ralph LeVan
- Jeff Young
- Andrew Houghton

<http://viaf.org>

<http://viaf.org/ontology/1.1>

<http://viaf.org/viaf.jpg>