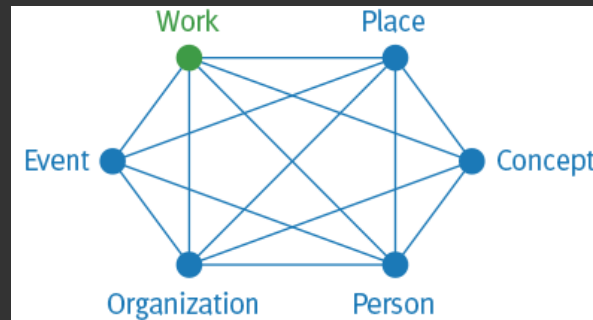


# Linked Places

## In the Context of Library Metadata



Harvard Libraries

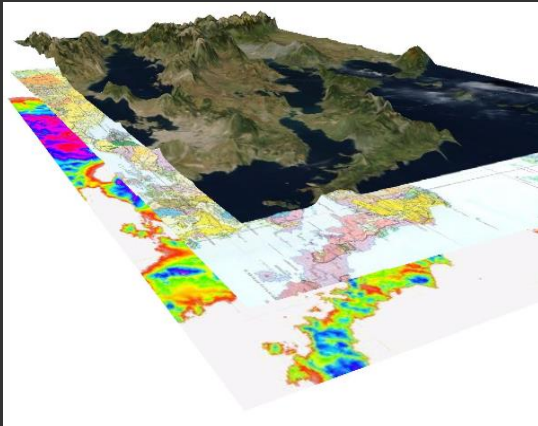
*Linked Data Discussion Group*

Nov 10<sup>th</sup> 2016

**Merrick Lex Berman**

Center for Geographic Analysis, Harvard

## Geospatial datasets - GIS



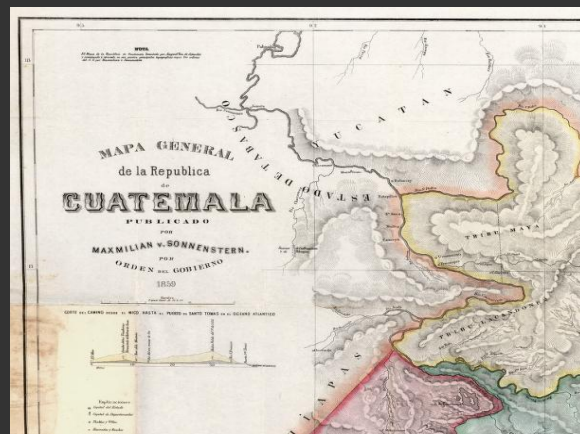
## The catalog as geodata

**Figure 1-3.** Example of a MARC 21 Record for a Book

```

Leader 01495cam 2200325 a 450
005    20041228210354.0
008    030122s2004 nyu c 000 1 eng
010    _ |a 2003000737
020    _ |a 0689856393
040    _ |a DLC |c DLC |d DLC |d TxGeoBT
042    _ |a lcac
050 00 |a PZ7.K1166 |b Ki 2004
082 00 |a [Fic] |2 22
100 1   |a Kadohata, Cynthia.
245 10 |a Kira-kira / |c Cynthia Kadohata
250    |a 1st ed.
260    |a New York : |b Atheneum Books for Young Readers, |c c2004.
300    |a 244 p. ; |c 19 cm.
520    |a Chronicles the close friendship between two Japanese-American sisters
        growing up in rural Georgia during the late 1950s and early 1960s, and the
        despair when one sister becomes terminally ill.
586    |a Newbery Award, 2004
650 1   |a Sisters |v Fiction.
650 1   |a Friendship |v Fiction.
650 1   |a Japanese Americans |v Fiction.
650 1   |a Death |v Fiction.
651 1   |a Georgia |x History |y 20th century |v Fiction.
856 42 |3 Contributor biographical information:
        |u http://www.loc.gov/catdir/bios/simon053/2003000737.html
856 42 |3 Publisher description:
        |u http://www.loc.gov/catdir/description/simon052/2003000737.html
    
```

## Maps and scanned maps



# Geocoding toponyms

Figure 1-3. Example of a MARC 21 Record for a Book

```
Leader 01495cam 2200325 a 450
005 20041228210354.0
008 030122s2004 nyu c 000 1 eng
010 __ |a 2003000737
020 __ |a 0689856393
040 __ |a DLC |c DLC |d DLC |d TxGeoBT
042 __ |a lcac
050 00 |a PZ7.K1166 |b Ki 2004
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100 1 |a Kadohata, Cynthia.
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650 1 |a Sisters |v Fiction.
650 1 |a Friendship |v Fiction.
650 1 |a Japanese Americans |v Fiction.
650 1 |a Death |v Fiction.
651 1 |a Georgia |x History |y 20th century |v Fiction.
856 42 |3 Contributor biographical information:
|u http://www.loc.gov/catdir/bios/simon053/2003000737.html
856 42 |3 Publisher description:
|u http://www.loc.gov/catdir/description/simon052/2003000737.html
```

651 - Subject Added Entry-Geographic Name

<https://maps.googleapis.com/maps/api/geocode/json?address=Georgia>

```
{
  "results" : [
    {
      "address_components" : [
        {
          "long_name" : "Georgia",
          "short_name" : "GA",
          "types" : [ "administrative_area_level_1", "political" ]
        },
        {
          "long_name" : "United States",
          "short_name" : "US",
          "types" : [ "country", "political" ]
        }
      ],
      "formatted_address" : "Georgia, USA",
      "geometry" : {
        "bounds" : {
          "northeast" : {
            "lat" : 35.0006589,
            "lng" : -80.8407866
          },
          "southwest" : {
            "lat" : 30.3555908,
            "lng" : -85.60516490000001
          }
        },
        "location" : {
          "lat" : 32.1656221,
          "lng" : -82.9000751
        }
      }
    }
  ]
}
```

# What to geocode?

Figure 1-3. Example of a MARC 21 Record for a Book

```
Leader 01495cam 2200325 a 450
005 20041228210354.0
008 030122s2004 nyu c 000 1 eng
010 __ |a 2003000737
020 __ |a 0689856393
040 __ |a DLC |c DLC |d DLC |d TxGeoBT
042 __ |a lcac
050 00 |a PZ7.K1166 |b Ki 2004
082 00 |a [Fic] |2 22
100 1 |a Kadohata, Cynthia.
245 10 |a Kira-kira / |c Cynthia Kadohata
250 |a 1st ed.
260 |a New York : |b Atheneum Books for Young Readers, |c c2004.
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520 |a Chronicles the close friendship between two Japanese-American sisters
growing up in rural Georgia during the late 1950s and early 1960s, and the
despair when one sister becomes terminally ill.
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650 1 |a Sisters |v Fiction.
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650 1 |a Japanese Americans |v Fiction.
650 1 |a Death |v Fiction.
651 1 |a Georgia |x History |y 20th century |v Fiction.
856 42 |3 Contributor biographical information:
|u http://www.loc.gov/catdir/bios/simon053/2003000737.html
856 42 |3 Publisher description:
|u http://www.loc.gov/catdir/description/simon052/2003000737.html
```

245 – Title

260 – Place of Publication

651 - Geographic Name



# Geocoded records → json → leaflet

```
{
  type: "FeatureCollection",
  features: [
    {
      type: "Feature",
      id: "tbrc_major_v1_twh.1",
      geometry: {
        type: "Point",
        coordinates: [
          79.64,
          33.41
        ]
      },
      geometry_name: "the_geom",
      properties: {
        TBRC_GID: "G2266",
        M_NM_WY: "lhun grub chos sdings dgon",
        M_NM_CH: "伦珠曲丁寺",
        LONG: 79.64,
        LAT: 33.41,
        LINK: "<a href='http://tbrc.org/#library_place_Object-G2266'>TBRC Details</a>"
      }
    }
  ]
}
```



<http://goo.gl/NGLfh6>

The screenshot shows the TBRC website interface. The header includes the TBRC logo and the text "TIBETAN BUDDHIST RESOURCE CENTER". The navigation menu includes "Works", "Genres", "Subjects", "Persons", and "Places". The "Places" menu is active, showing a breadcrumb trail: "Places » Place Types » Sites » Monastery » brag thog dgon". The main content area displays the details for "brag thog dgon", including the TBRC Resource ID (G4106), Place type (monastery), and Names in Tibetan, Chinese, and Chinese. The GIS Items section provides coordinates, latitude, longitude, and various identifiers.

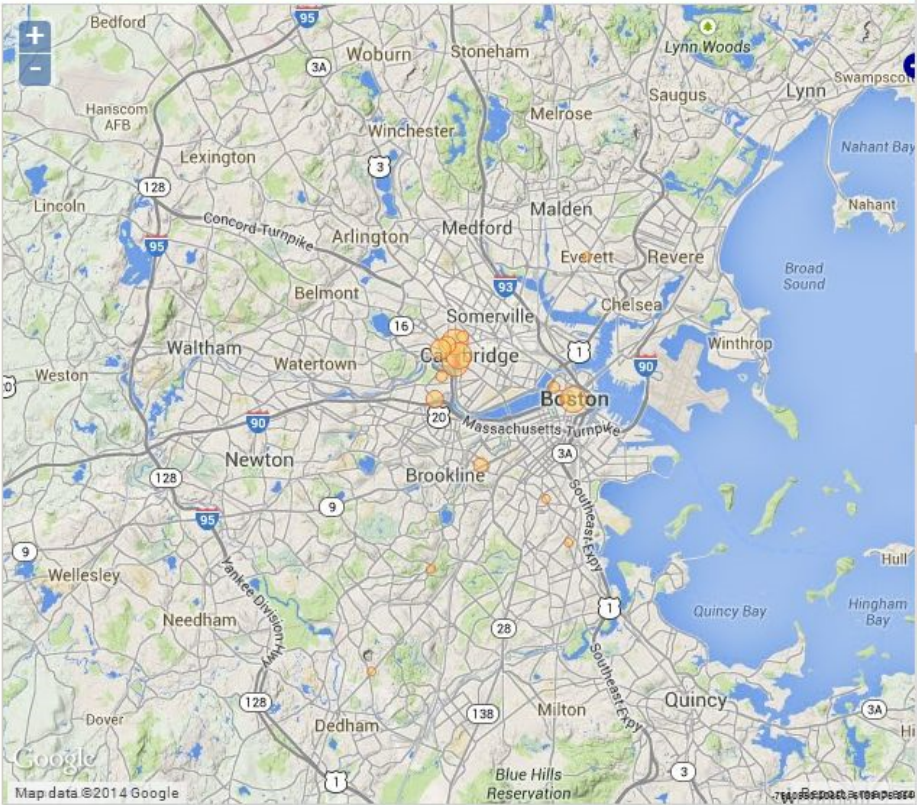
GIS Items			
Coordinates:	latitude	30.58333	longitude 101.03333
GIS Identifiers			
chgis_id		361	
fromLex		513326206:469	
fromTBRC		513326206:469	

# Metacarta geocoding product

GeoHOLLIS *Beta* - Search HOLLIS records and explore their spatial references



Map Interface   Video Introduction   Background   Getting Started



Search Options

Search HOLLIS data:

Location accuracy level:


Maximum number of records to return:

Search fields:

- Keyword anywhere
- Title words
- Author words
- Subject words
- Include "Place of publication" in search and data display
- Exclude "Place of publication" from search and data display
- Include "Place of publication" in search and only show data on the map that was geocoded to place of publication

Check this box and then click on the map to search for all catalog records within  kilometers of that location!

Number of points found: 49,617  
Maximum number of points displayed: 300



▶ Faceting

▶ Map Functions

▶ Search Results

# Internal catalogs → federated catalogs → linked data

Searching: BartonPlus

Keyword  Search

Basic Search Advanced Search Search History

MIT Libraries

---

Refine Results

Current Search

Find all my search terms:  
extraordinary popular delusions

Expanders  
Searched full text of articles

Limit To

Full Text  
 Peer Reviewed  
 MIT Barton Catalog

1378 Publication Date 2014

Show More

Publication type

---

Search Results: 1 - 30 of 385,168 Relevance Page Options

7. **Extraordinary popular delusions and the madness of crowds**, by Charles Mackay; a verbatim reprint, with reproductions of original illustrations, of the edition of 1852; with a foreword by Bernard M. Baruch.

Book

By: Mackay, Charles. Boston, L. C. Page & company, 1932. 01/01/1932 xxiv, 724 p. illus. 22 cm. Language: English, Database: MIT Barton Catalog  
[View catalog record](#) | [Get it in the library](#)

MIT Libraries Location	Call No.	Status/Due Date
Dewey Library Stacks	AZ999.M153 1932	In Library

---

8. **Memoirs of Extraordinary Popular Delusions**

eBook

By: Macaulay, Thomas Babington Macaulay. Champaign, Ill. [P.O. Box 2782, Champaign 61825] : Project Gutenberg. eBook. , Database: eBook Collection (EBSCOhost)  
[eBook Full Text](#) [Download \(Offline\)](#)  
[Table of Contents](#) [Most Relevant Pages From This eBook](#)

---

9. **Memoirs of Extraordinary Popular Delusions**

eBook

By: Mackay, Charles D. Champaign, Ill. [P.O. Box 2782, Champaign 61825] : Project Gutenberg. eBook. , Database: eBook Collection (EBSCOhost)  
[eBook Full Text](#) [Download \(Offline\)](#)



linked data URIs → accessing {digital objects}

Project Gutenberg > 46,141 free ebooks > 5 by Charles Mackay

## Memoirs of Extraordinary Popular Delusions and the Madness of Crowds by Mackay

No cover available



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Bibrec

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<a href="#">Read this book online: HTML</a>	166 kB			
<a href="#">Read this book online: HTML</a>	144 kB			
<a href="#">Read this book online: HTML</a>	855 kB			
<a href="#">Read this book online: HTML</a>	843 kB			
<a href="#">EPUB (with images)</a>	4.2 MB			
<a href="#">EPUB (no images)</a>	737 kB			
<a href="#">Kindle (with images)</a>	9.4 MB			
<a href="#">Kindle (no images)</a>	3.0 MB			
<a href="#">Plain Text UTF-8</a>	1.6 MB			
<a href="#">More Files...</a>				

MEMOIRS  
OF  
EXTRAORDINARY POPULAR DELUSIONS

AND THE

*Madness of Crowds.*

BY CHARLES MACKAY, LL.D.

AUTHOR OF "EGERIA," "THE SALAMANDRINE," ETC.  
ILLUSTRATED WITH NUMEROUS ENGRAVINGS.

N'en déplaie à ces fous nommés sages de Grèce,  
En ce monde il n'est point de parfaite sagesse;  
Tous les hommes sont fous, et malgré tous leurs soins  
Ne different entre eux que du plus ou du moins.

BOILEAU.

LONDON:  
OFFICE OF THE NATIONAL ILLUSTRATED LIBRARY,  
227 STRAND.  
1852.

LIST OF ENGRAVINGS IN VOL. I.

Frontispiece—Gardens of the Hotel de Soissons. (From a print in Mr. Hawkins' collection.)  
Vignette—The Bubbler's Arms, Prosperity. (*Bubblers' Mirror, or England's Folly.*)  
John Law. (From a rare print by Leon Schenk. 1720)  
The Regent D'Orleans  
Old Palais Royal from the Garden. (From a scarce print, circa 1720)  
Law's House; Rue de Quincampoix. (From Nodier's *Paris*)  
Humpbacked Man hiring himself as a Table  
Hôtel de Soissons. (From Nodier's *Paris*)  
The Coach upset  
Murder of a Broker by Count D'Horn  
John Law as Atlas. (From *England under the House of Hanover*)  
Caricature—Lucifer's new Row Barge  
Procession of Miners for the Mississippi  
The Chancellor D'Aguesseau  
Caricature—Law in a Car drawn by Cocks  
M. D'Argenson  
Caricature—Neck or Nothing, or Downfall of the Mississippi Company  
The South-Sea House. (From a print, circa 1750)  
Harley Earl of Oxford  
Sir Robert Walpole  
Cornhill. (Print, circa 1720)  
Stock-jobbing Card, or the Humours of Change Alley. 1720. (From the *Bubblers' Medley*)  
Caricature—People climbing the Tree of Fortune. (From the *Bubblers' Medley*)  
The Gateway to Merchant Tailors' Hall. (Gateway from old print)  
Mr. Secretary Craggs  
Caricature—Beggars on Horseback. (From the *Bubblers' Medley*)



*This evil Solomon espid  
Among the Rabble rout  
That beggers did on Horse back  
Whilst Princes walke on foot<sup>ride</sup>  
South-Sea has verisfy dy Same  
For Mighty MEN of late  
Are brough to Poverty & Shame  
Whilst Scoundrels ride m state*

CARICATURE.<sup>23</sup>

During the progress of this famous bubble, England presented a singular spectacle. The public mind was in a state of unwholesome fermentation. Men were no longer satisfied with the slow but sure profits of cautious industry. The hope of boundless wealth for the morrow made them heedless and extravagant for to-day. A luxury, till then unheard-of, was introduced, bringing in its train a corresponding laxity of morals. The over-bearing insolence of ignorant men, who had arisen to sudden wealth by successful gambling, made men of true gentility of mind and manners blush that gold should have power to raise the unworthy in the scale of society. The haughtiness of some of these "cyphering cits," as they were termed by Sir Richard Steele, was remembered against them in the day of their adversity. In the parliamentary inquiry, many of the directors suffered

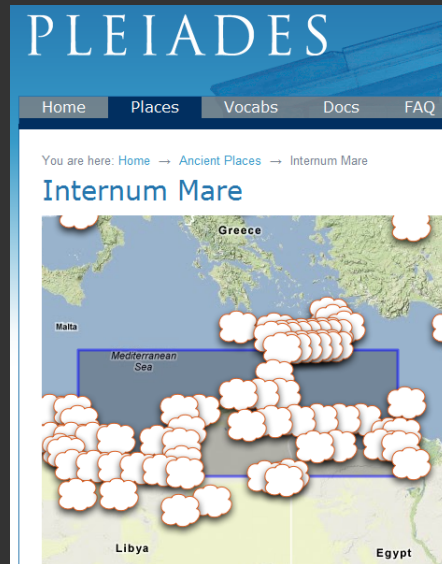


*This evil Solomon espid  
Among the Rabble rout  
That beggers did on Horse back  
Whilst Princes walke on foot<sup>ride</sup>  
South-Sea has verisfy dy Same  
For Mighty MEN of late  
Are brough to Poverty & Shame  
Whilst Scoundrels ride m state*

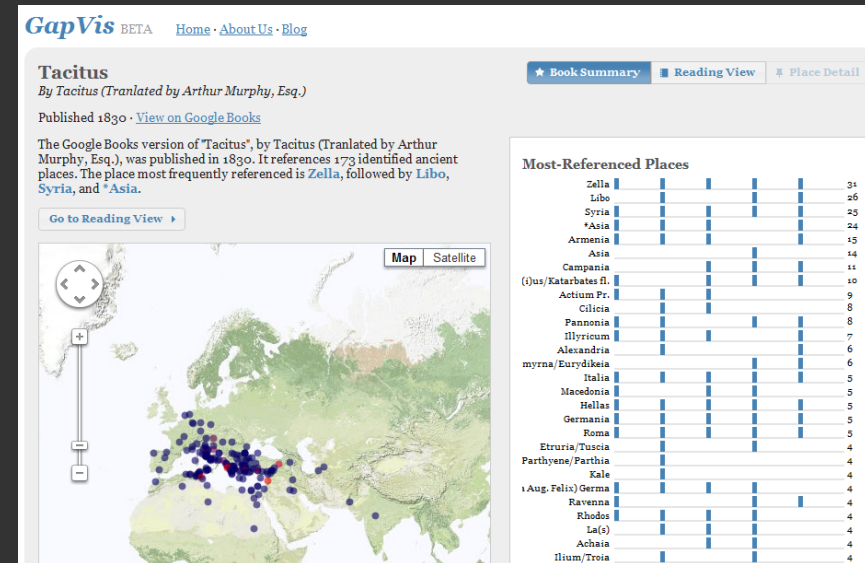
# Locations in Classical Texts and Atlases



Perseus Project




Pleiades



Google Ancient Places


# Pelagios - linking historical objects to places - using Pleiades

**Mycenae** 

An ancient place, cited: **BAtlas 58 D2 Mycenae**  
<http://pleiades.stoa.org/places/570491>

Alternative Names: Mycenae  
Coverage: Mykenes

[JSON](#) [RDF/XML](#) [Turtle](#)



**770 References to Mycenae**

Dataset	No. of References
<a href="#">Arachne (in 2 subsets)</a>	133 (of 128180 total in set)
<a href="#">SquinchPix</a>	164 (of 10782 total in set)
<a href="#">CLAROS (in 1 subsets)</a>	140 (of 204474 total in set)
<a href="#">Regnum Francorum Online (in 1 subsets)</a>	1 (of 16427 total in set)
<a href="#">Pleiades Annotations in the Perseus Digital Library (in 2 subsets)</a>	126 (of 61738 total in set)
<a href="#">SAWS - Sharing Ancient Wisdoms</a>	1 (of 723 total in set)
<a href="#">AWMC - Ancient World Mapping Center</a>	1 (of 34608 total in set)
<a href="#">Ure Museum</a>	133 (of 2344 total in set)
<a href="#">Google Ancient Places (in 3 subsets)</a>	20 (of 41053 total in set)
<a href="#">Omnes Viae</a>	1 (of 2983 total in set)
<a href="#">Ancient History Encyclopedia</a>	50 (of 1098 total in set)


[JSON](#) [RDF/XML](#) [Turtle](#)



*Pelagios API* <http://pelagios.dme.ait.ac.at/api>

*Documentation* <http://pelagios-project.blogspot.com/>


# Pelagios - linking historical objects to places - using CHGIS

**Mycenae** 

An ancient place, cited: BATlas 58 D2 Mycenae  
<http://pleiades.stoa.org/places/570491>

Alternative Names: Mycenae  
Coverage: Mykenes

[JSON](#) [RDF/XML](#) [Turtle](#)



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<a href="#">Regnum Francorum Online (in 1 subsets)</a>	1 (of 16427 total in set)
<a href="#">Pleiades Annotations in the Perseus Digital Library (in 2 subsets)</a>	126 (of 61738 total in set)
<a href="#">SAWS - Sharing Ancient Wisdoms</a>	1 (of 723 total in set)
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<a href="#">Ure Museum</a>	133 (of 2344 total in set)
<a href="#">Google Ancient Places (in 3 subsets)</a>	20 (of 41053 total in set)
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<a href="#">Ancient History Encyclopedia</a>	50 (of 1098 total in set)

[JSON](#) [RDF/XML](#) [Turtle](#)



*Pelagios API* <http://pelagios.dme.ait.ac.at/api>

*Documentation* <http://pelagios-project.blogspot.com/>



## XML web service for Chinese historical placenames:

```
<?xml version="1.0" encoding="UTF-8"?>
<query>
  <resultsDescription>CHGIS database query for Placename/Year: 方
  广/1820</resultsDescription>
  <resultsTotal>3</resultsTotal>
  <resultsTransmitted>3</resultsTransmitted>
  <queryExecutionTimeSeconds>0.66</queryExecutionTimeSeconds>
  <queryDate>Fri, 27 Sep 2013 00:24:17 -0400</queryDate>
  <publisher>China Historical GIS</publisher>
  <publisherURL>http://www.fas.harvard.edu/~chgis/</publisherURL>

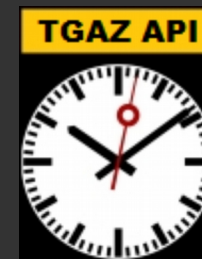
  <item id="relig_1714">
    <placename>
      <name_romanized>Fanguang Si</name_romanized>
      <name_vernacular>方广寺</name_vernacular>
      <name_alternate>方廣寺</name_alternate>
    </placename>
    <feature_type>
      <type_english>buddhist temple</type_english>
      <type_romanized>fo si</type_romanized>
      <type_vernacular>佛寺</type_vernacular>
      <type_id>113</type_id>
    </feature_type>
    <temporal>
      <begin_year>1820</begin_year>
      <begin_year_rule>9</begin_year_rule>
      <end_year>1820</end_year>
      <end_year_rule>9</end_year_rule>
    </temporal>
    <spatial>
      <object_type>point</object_type>
      <coordinate_type>point location</coordinate_type>
      <degrees_latitude>27.87</degrees_latitude>
      <latitude_direction>N</latitude_direction>
      <degrees_longitude>112.91</degrees_longitude>
      <longitude_direction>E</longitude_direction>
      <present_location>湖南湘潭市</present_location>
    </spatial>
  </item>
</query>
```

# Faceted search web service for historical placenames

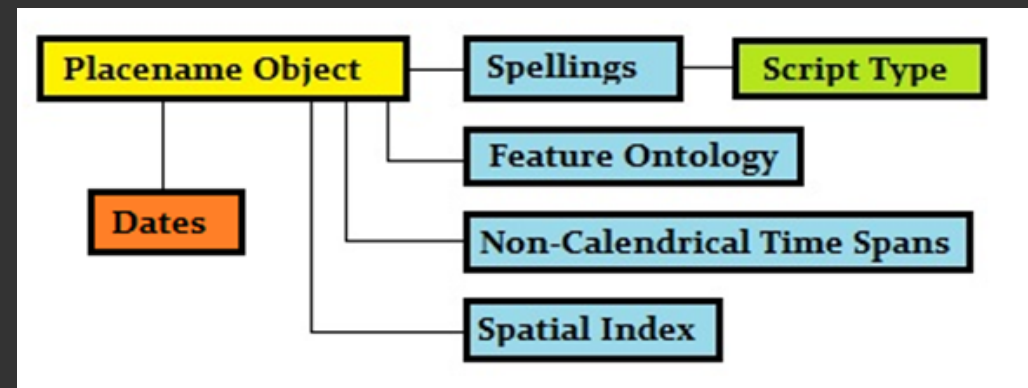
CHGIS Gazetteer Web Service



Temporal Gazetteer Web Service



```
<item id="32084">
  <placename>
    <name_romanized>Fu Zhou</name_romanized>
    <name_vernacular>福州</name_vernacular>
    <name_alternate>福州</name_alternate>
  </placename>
  <feature_type>
    <type_english>prefecture</type_english>
    <type_romanized>Zhou</type_romanized>
    <type_vernacular>州</type_vernacular>
    <type_id>20</type_id>
  </feature_type>
</item>
```

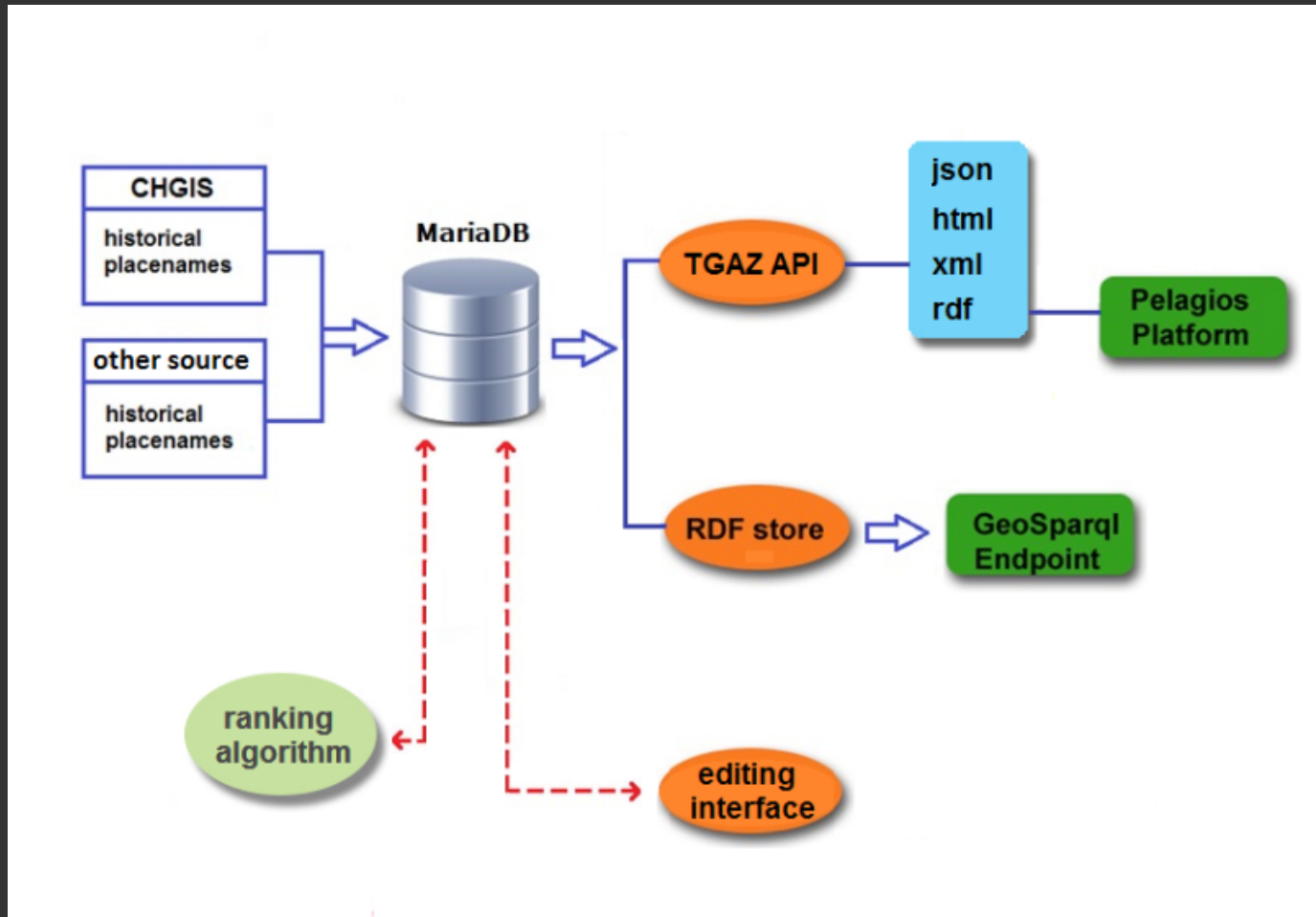


<http://chgis.hmdc.harvard.edu/xml/>

<http://chgis.hmdc.harvard.edu/tgaz/api>



# TGAZ overview



<http://maps.cga.harvard.edu/tgaz/>

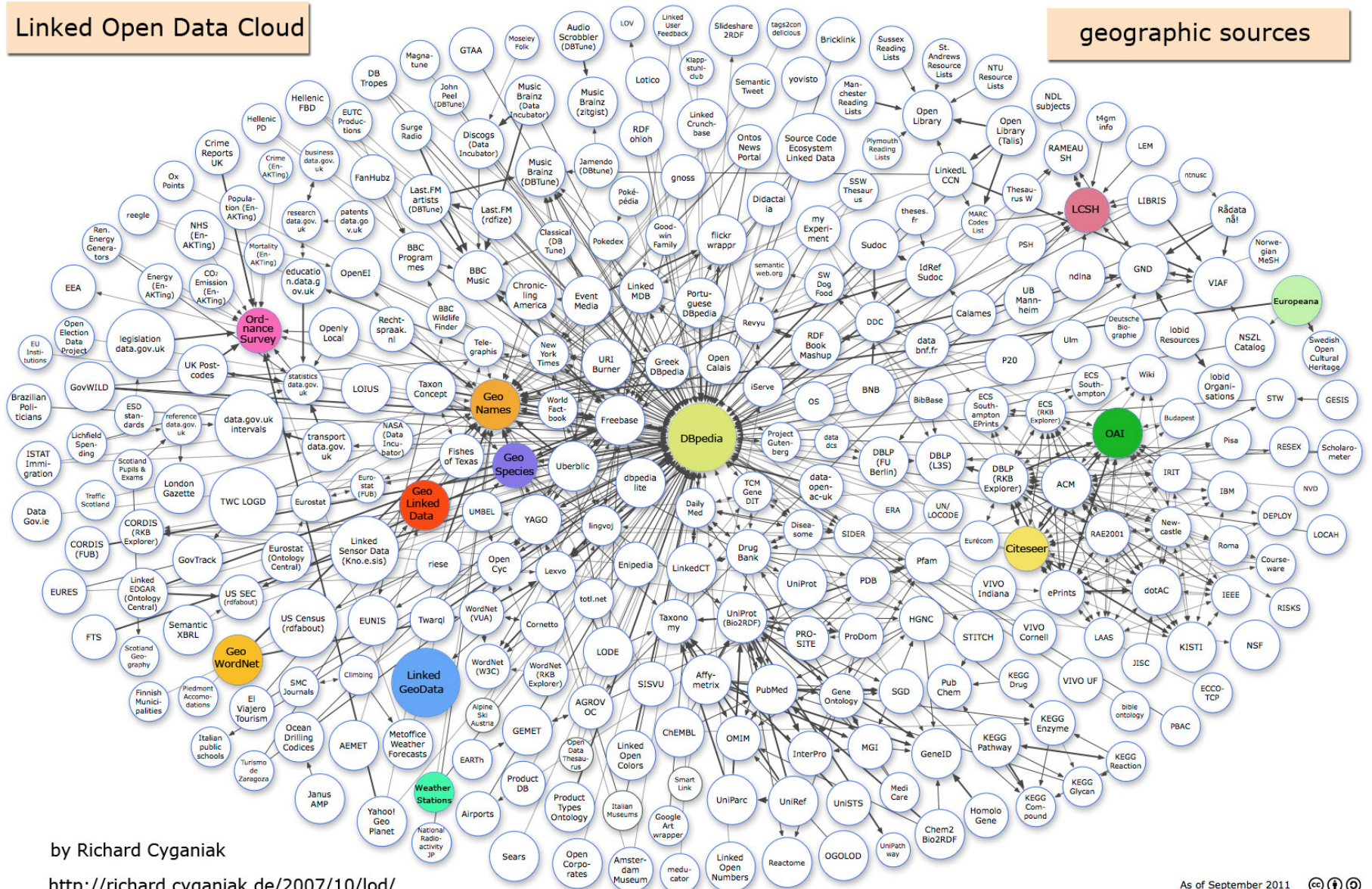
## RDF gazetteer interchange format

```
← → ↻ http://maps.cga.harvard.edu/tgaz/placename/rdf/hvd_90144 .

@prefix dcterms: <http://purl.org/dc/terms/> .
@prefix osgeo: <http://data.ordnancesurvey.co.uk/ontology/geometry/> .
@prefix pelagios: <http://pelagios.github.io/vocab/terms#> .
@prefix pleiades: <http://pleiades.stoa.org/places/vocab#> .
@prefix geo: <http://www.w3.org/2003/01/geo/wgs84_pos#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
@prefix skos: <http://www.w3.org/2004/02/skos/core#> .
@prefix spatial: <http://geovocab.org/spatial#> .
@prefix foaf: <http://xmlns.com/foaf/0.1/> .
@prefix gn: <http://www.geonames.org/ontology#> .
<http://chgis.hmdc.harvard.edu/placename/hvd_90144> a pelagios:PlaceRecord ;
    dcterms:title "Fu Zhou" ;
    dcterms:description "prefecture 州" ;
    dcterms:temporal "start=725; end=740" ;
    gn:countryCode "cn" ;
    pleiades:hasName [ rdfs:label "福州" ] ;
    pleiades:hasName [ rdfs:label "福州" ] ;
    pleiades:hasName [ rdfs:label "Fu Zhou" ] ;
    pleiades:hasLocation [ geo:lat "0.00000"^^xsd:double ; geo:long "0.00000"^^xsd:double ] ;
    .
```

## Linked Open Data Cloud

## geographic sources



by Richard Cyganiak

<http://richard.cyganiak.de/2007/10/lod/>

## What can we DO with geo-LOD ?

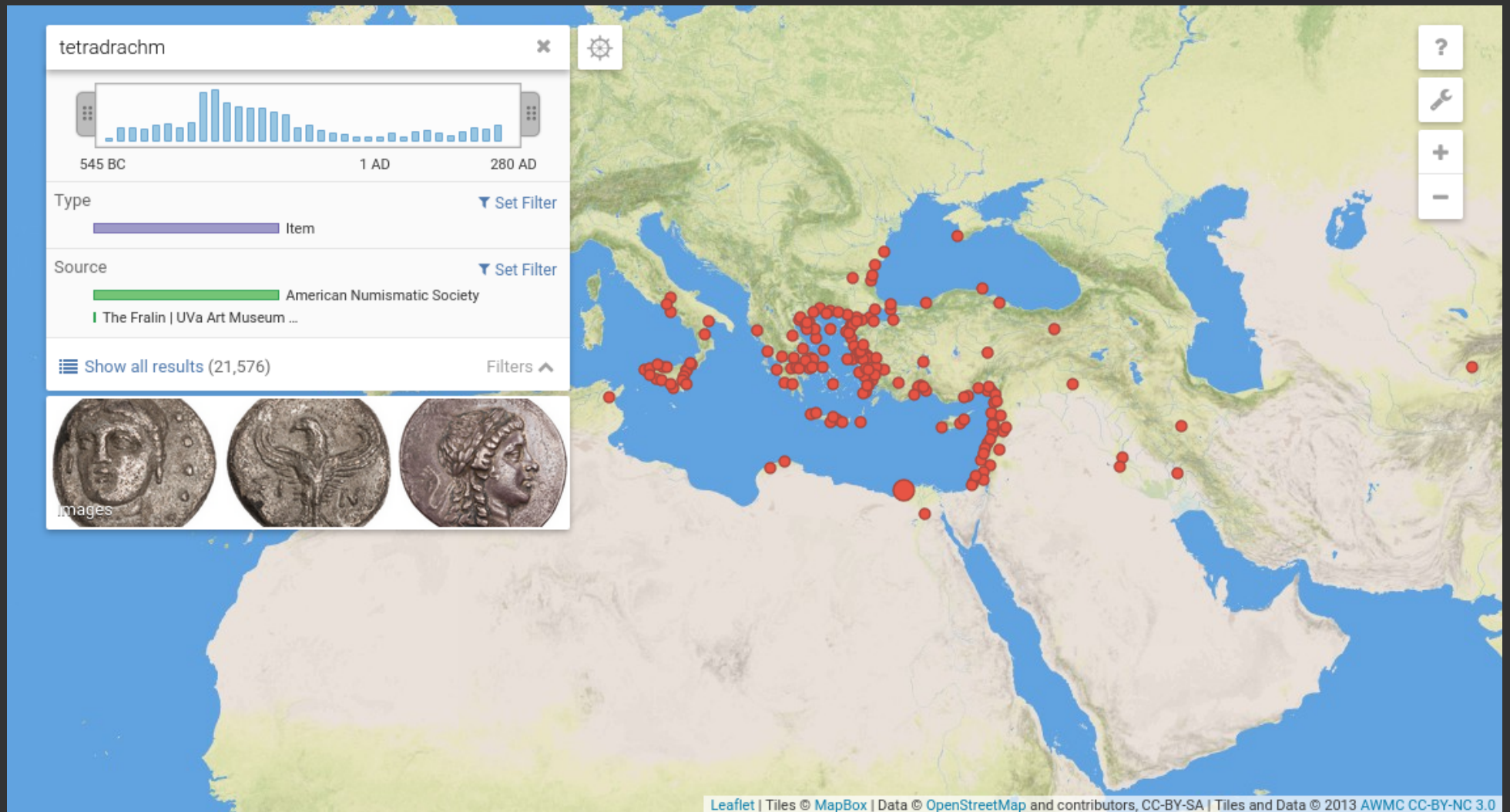
*Geosparql is "not easy for laymen to use correctly"*

**We decided to use geosparql with simple features, but they are not easy for laymen to use correctly...**



```
<http://d-nb.info/1037321472> a bibo:Map , bibo:Document ;
  bibo:isbn13 "9783869874982" ;
  dcterms:isPartOf <http://d-nb.info/551113464> ;
  isbd:P1053 "1 Kt." ;
  dcterms:spatial [
    a sf:Polygon ;
    geo:asWKT "Polygon ((
      +009.766666 +054.866666,
      +009.766666 +054.183333,
      +011.433333 +054.183333,
      +011.433333 +054.866666,
      +009.766666 +054.866666
    ))"^^geo:wktLiteral .
  ] ;
  dcterms:subject <http://d-nb.info/gnd/4030486-3> ,
```

# Mashup as in Peripleo



<http://journal.code4lib.org/articles/11144>

# Linked Places (implemented in GeoJson-T)

kgeographer / toptime

Watch 16 Star 54 Fork 5

Code Issues 3 Pull requests 0 Projects 0 Wiki Pulse Graphs


Branch: master toptime / data / GeometryCollection / incanto-journeys50.json Find file Copy path

karlg convert-csv focus 3a7bdab 18 days ago

0 contributors

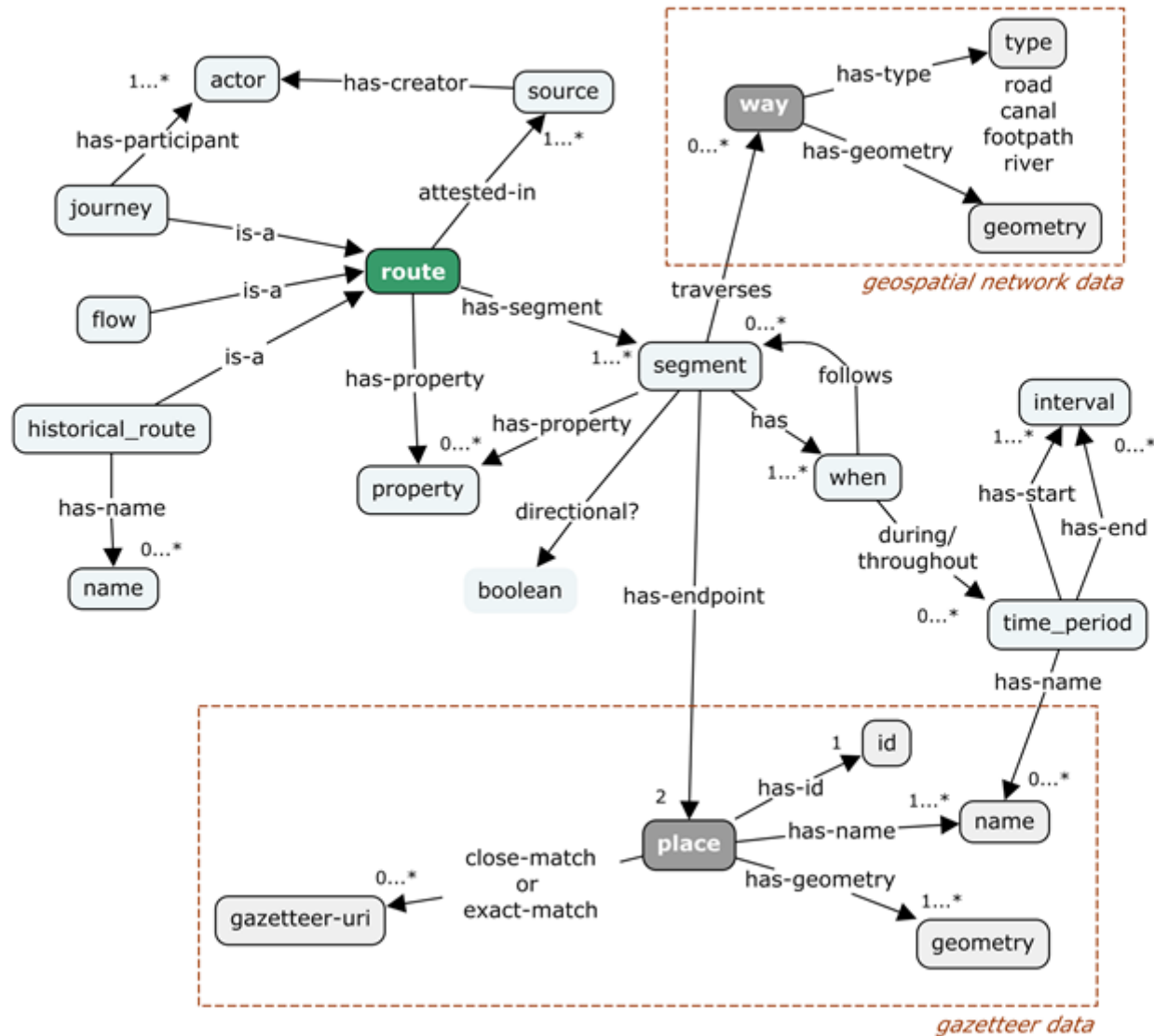
20938 lines (20938 sloc) | 483 KB

Raw Blame History




© Mapbox © OpenStreetMap Improve the underlying map

## A Conceptual Model of Historical Geographic Movement



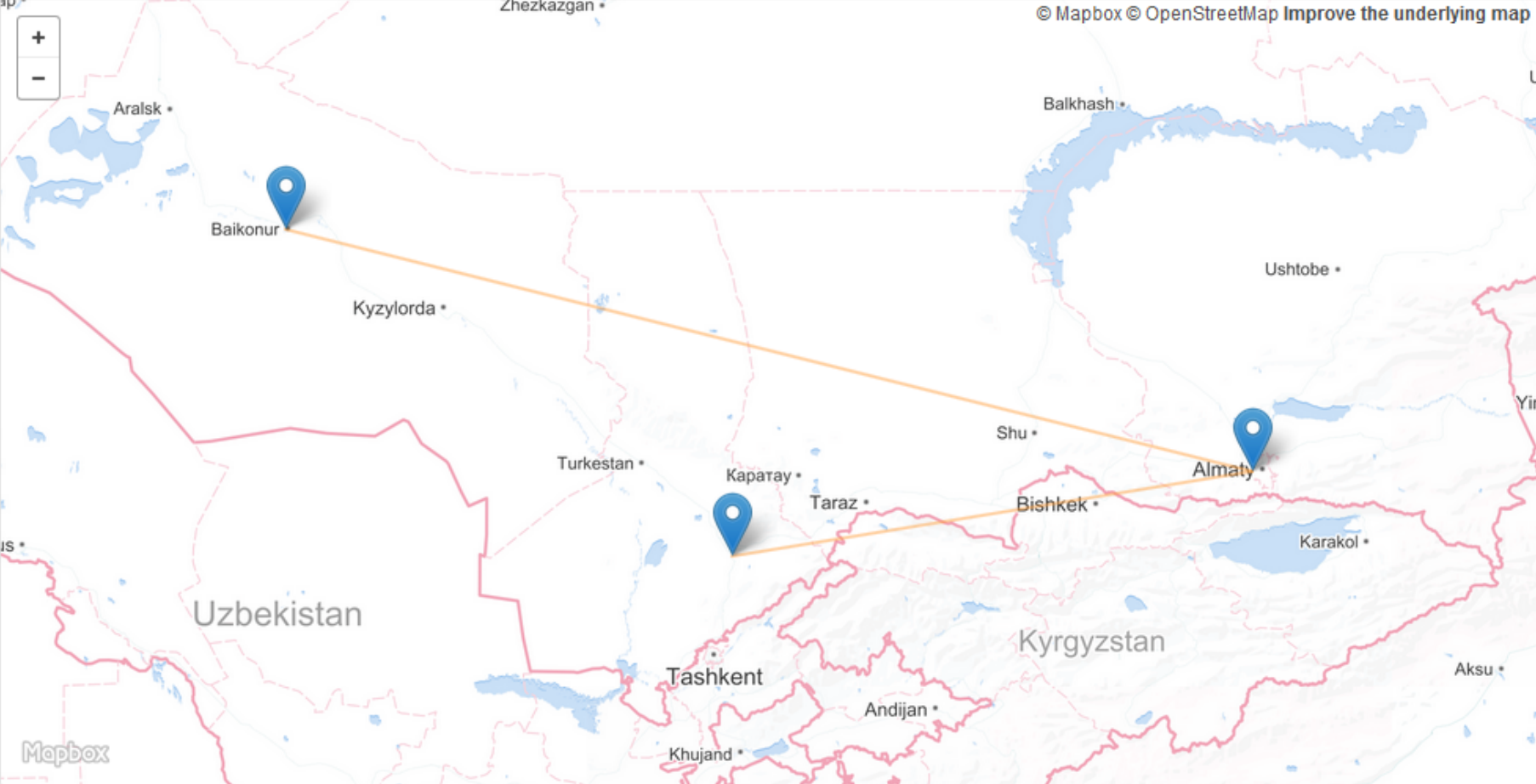
# Linked Places (example, journey to Baikonur)

Branch: master | [chgis-fas-website](#) / [geojsonT](#) / [baikonur\\_sample.json](#) Find file Copy path

 vajlex fixed collection end 75854b0 35 seconds ago

1 contributor

129 lines (129 sloc) | 3.37 KB Raw Blame History



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# LD4L 2014



baikonur

Limit your search

Topic

Baikonur (Kazakhstan : Space center)	19
Soviet Union	19
Astronautics--Soviet Union--History	12
Astronautics--Soviet Union--Biography	8
Launch complexes (Astronautics)--Kazakhstan	7
e-ur-kz	7
Astronautics--Soviet Union	6
Kazakhstan	6
Launch complexes (Astronautics)--Kazakhstan--Baikonur	4
Astronautics--International cooperation	3
Baikonur (Kazakhstan : Space center)--History.	3
Intercontinental ballistic missiles--Soviet Union--History	3

You searched for: baikonur

« Previous | 1 - 10 of 121 | Next »

- 1. Baikonur**  
Library: HARVARD LIBRARY  
Class: Organization  
RDF linked data: <http://draft.ld4l.org/harvard/n6bf8d8afd9dcc49e>
- 2. Baikonur**  
Library: Stanford University LIBRARIES  
Class: Organization  
RDF linked data: <http://draft.ld4l.org/stanford/n6bf8d8afd9dcc49e>
- 3. Baikonur**  
Library: HARVARD LIBRARY  
Class: Instance  
RDF linked data: <http://draft.ld4l.org/harvard/n693172270e9e1926>

<http://search.ld4l.org/?utf8=%E2%9C%93&q=baikonur>

LD4L

Search

**Limit your search**

Topic	Count
Baikonur (Kazakhstan : Space center)	19
Soviet Union	19
Astronautics--Soviet Union--History	12
Astronautics--Soviet Union--Biography	8
Launch complexes (Astronautics)--Kazakhstan	7
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Launch complexes (Astronautics)--Kazakhstan--Baikonur	4
Astronautics--International cooperation	3
Baikonur (Kazakhstan : Space center)--History	3
Intercontinental ballistic missiles--Soviet Union--History	3

You searched for: baikonur ✕

« Previous | 1 - 10 of 121 | Next »

1. Baikonur

Library:

**HARVARD**  
LIBRARY

Class: Organization

RDF linked data: <http://draft.ld4l.org/harvard/n6bf8d8afd9dcc49e>
2. Baikonur

Library:

**Stanford University**  
LIBRARIES

Class: Organization

RDF linked data: <http://draft.ld4l.org/stanford/n6bf8d8afd9dcc49e>
3. Baikonur

Library:

**HARVARD**  
LIBRARY

Class: Instance

RDF linked data: <http://draft.ld4l.org/harvard/n693172270e9e1926>

## Baikonur

City in Kazakhstan

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Baikonur, formerly known as Leninsk, is a city of republic significance in Kazakhstan on the right bank of the Syr Darya river, rented and administered by the Russian Federation. [Wikipedia](#)

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**Area:** 22.01 mi<sup>2</sup>

**Weather:** 39°F (4°C), Wind NE at 10 mph (16 km/h), 84% Humidity

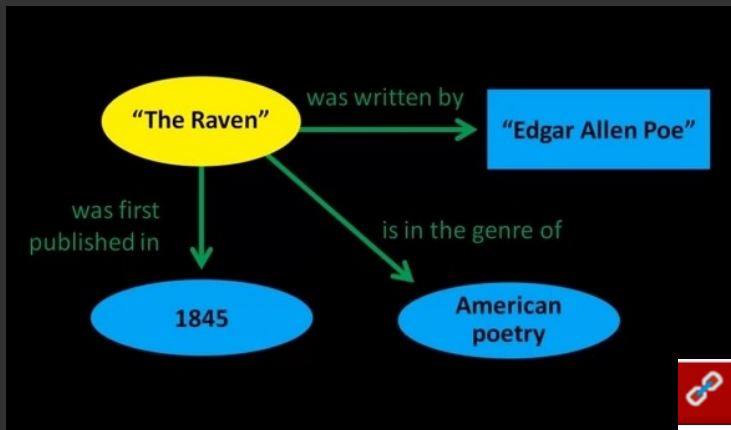
**Local time:** Wednesday 3:12 AM

**Population:** 36,175 (2009)

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### Images for Baikonur Kazakhstan

# Graphs for Linked Data



The screenshot shows the LD4L search interface. The search bar contains "edgar allen poe, the raven". The search results are displayed in a list format. The first result is "The raven and the nightingale : a modern mystery of Edgar Allen Poe / Joanne Dodson" from Harvard Library. The second result is "The raven; a melodrama. [Words by] Edgar Allen Poe" from Harvard Library. The third result is "The raven and the nightingale : a modern mystery of Edgar Allen Poe / Joanne Dodson" from Harvard Library. The "Limit your search" section on the left includes filters for Topic, Language, Library, Category/Class, Creator, Genre, and Date of Publication. The "Creator" filter is highlighted with a red box.

edgar allen poe, the raven Search

Limit your search

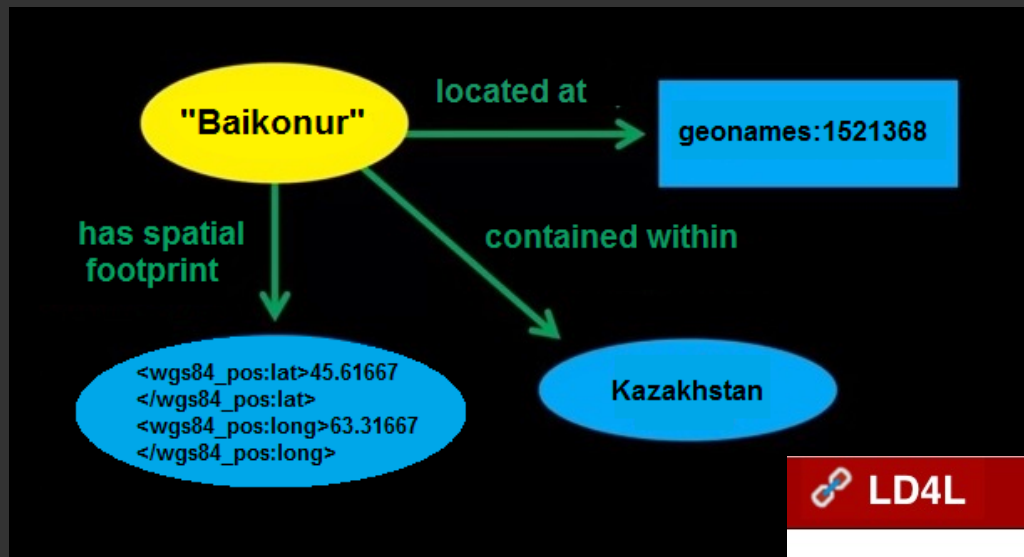
- Topic >
- Language >
- Library >
- Category/Class >
- Creator >**
- Genre >
- Date of Publication >

You searched for: edgar allen poe, the raven x

« Previous | 1 - 10 of 19 | Next »

- The raven and the nightingale : a modern mystery of Edgar Allen Poe / Joanne Dodson  
Library: HARVARD LIBRARY  
Class: Monograph, Text, Work  
RDF linked data: <http://draft.ld4l.org/harvard/n3ba00fb36f25c90c>
- The raven; a melodrama. [Words by] Edgar Allen Poe  
Library: HARVARD LIBRARY  
Class: Instance  
RDF linked data: <http://draft.ld4l.org/harvard/n115264825db65276>
- The raven and the nightingale : a modern mystery of Edgar Allen Poe / Joanne Dodson  
Library: HARVARD LIBRARY  
Class: Instance  
RDF linked data: <http://draft.ld4l.org/harvard/nf2ac6fecb7f41834>

# Graphs for Geographic Linked Data



LD4L

baikonur

Limit your search

- Topic
- Language
- Library
- Category/Class
- Locations**
- Spatial Context**

You searched for: baikonur

« Previous | 1 - 10 of 121 | Next »

- Baikonur**  
Library: HARVARD LIBRARY  
Class: Organization  
RDF linked data: <http://draft.ld4l.org/harvard/n6bf8d8afd9dcc49e>
- Baikonur**  
Library: Stanford University LIBRARIES  
Class: Organization  
RDF linked data: <http://draft.ld4l.org/stanford/n6bf8d8afd9dcc49e>

ADDING TO THE GRAPH

# Integration with other geospatial services

The screenshot shows the LD4L search interface. At the top, there is a search bar with the text 'baikonur' and a search button. Below the search bar, there are several filter options: Topic, Language, Library, Category/Class, Locations, Spatial Context, and GeoJSON (which is highlighted with a red box). The search results are displayed in a list format, showing two results for 'Baikonur'. The first result is from Harvard Library, and the second is from Stanford University. Each result includes the library name, class (Organization), and an RDF linked data URL.

The screenshot shows the GeoJSON.io interface. On the left, there is a map of Baikonur, Kazakhstan, with a red dot indicating the location. The map includes labels for 'Baikonur', 'ПРОСПЕКТ АБАЯ', 'УЛИЦА ГАГАРИНА', and 'УЛИЦА ГАГАРИНА'. On the right, there is a code editor showing the GeoJSON data for the location. The data is a FeatureCollection containing a single Feature of type Point with the following coordinates: [63.306312561035156, 45.62796439558513].

Catalog → Geojson.io → LinkedPlaces

## Implications for the future

### *Transformation of the catalog:*

- metadata describing resources → direct access to digital resources
- users expect instant, machine-readable information
- human readable forms & facets → in combination with APIs
- users expect both discovery and deeper analysis of content
- aggregated data and visualizations of data rather than lists
- linked open data and the semantic web will encroach into library science
- graph databases and structures will get applied to search tools

### *For Geographic data:*

- search and visualization using maps will be more commonplace
- catalog metadata will be geocoded (internally or on-the-fly)

## **Temporal Gazetteers and Linked Geodata**

<http://www.fas.harvard.edu/~chgis/gazetteer>

## **Bibliography on big data and spatial humanities**

[https://www.zotero.org/groups/dh\\_and\\_big\\_data/items](https://www.zotero.org/groups/dh_and_big_data/items)