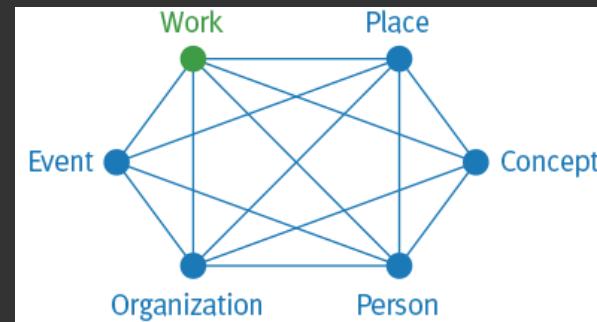


Linked Places

In the Context of Library Metadata

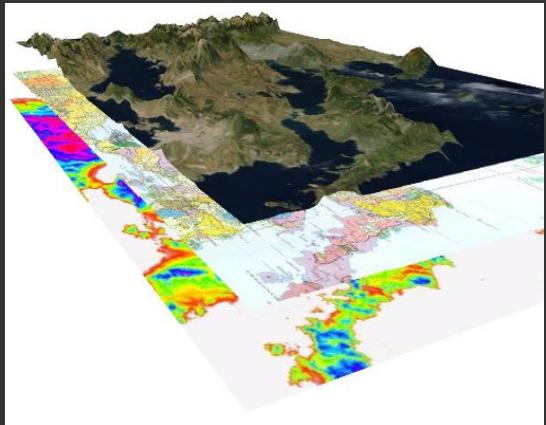


Harvard Libraries
Linked Data Discussion Group

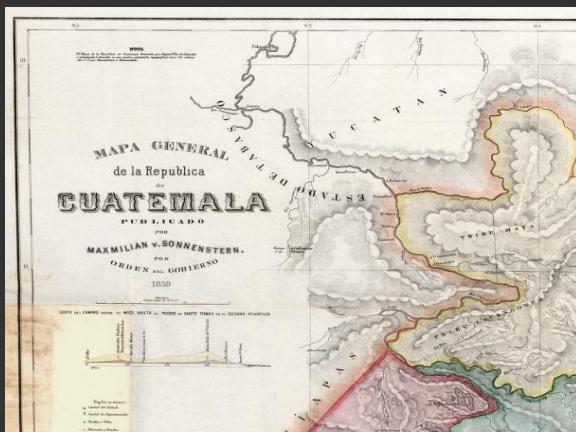
Nov 10th 2016

Merrick Lex Berman
Center for Geographic Analysis, Harvard

Geospatial datasets - GIS



Maps and scanned maps



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>

Geocoding toponyms

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651 1|a Georgia |x History |y 20th century |v Fiction.
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|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] |z 22
100 1|a Kadohata, Cynthia.
245 10|a Kira-kira / le Cynthia Kadohata
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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>

245 – Title

260 – Place of Publication

651 - Geographic Name

Geocoded records → georss → openlayers

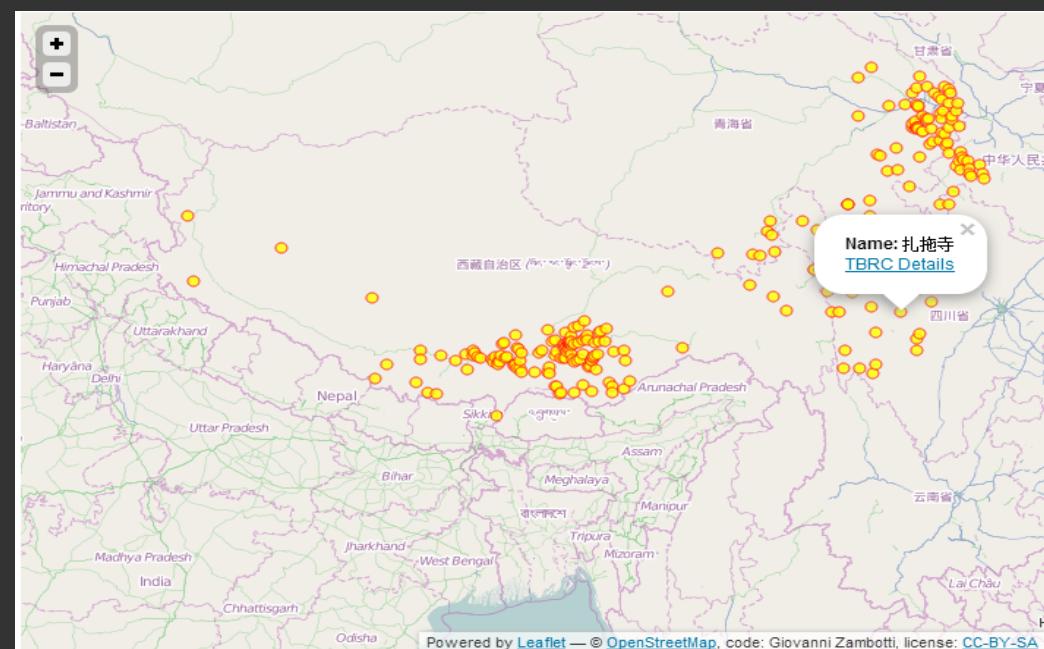
```
1 <?xml version="1.0" encoding="UTF-8"?>
2
3 <rss version="2.0"
4   xmlns:geo="http://www.w3.org/2003/01/geo/wgs84_pos#"
5   xmlns:dc="http://purl.org/dc/elements/1.1/">
6
7 <channel>
8   <title>Asian Newspapers in Harvard College Library</title>
9   <description></description>
10  <link>http://www.fas.harvard.edu/~chgis</link>
11  <dc:publisher>China Historical GIS</dc:publisher>
12  <pubDate>2007</pubDate>
13
14 <item>
15   <title>Air Force Academy press</title>
16   <pubDate>2008-02-01</pubDate>
17   <description><![CDATA[공사학보<br> language=Korean <br> place of publication=Ch'ungbuk Cheongweon-gun <br> newspaper id=102]]></description>
18   <link>http://hollisclassic.harvard.edu/F/?func=find-b&request=9452557&find_code(SYS)</link>
19   <geo:lat>36.75</geo:lat>
20   <geo:long>127.75</geo:long>
21 </item>
22 <item>
23   <title>Akahata</title>
24   <pubDate>2008-02-01</pubDate>
25   <description><![CDATA[赤旗<br> language=Japanese <br> place of publication=Tokyo <br> newspaper id=689]]></description>
26   <link>http://hollisclassic.harvard.edu/F/?func=find-b&request=7773470&find_code(SYS)</link>
27   <geo:lat>35.68</geo:lat>
28   <geo:long>139.75</geo:long>
29 </item>
30 <item>
31   <title>Akahata</title>
32   <pubDate>2008-02-01</pubDate>
33   <description><![CDATA[赤旗縮刷版<br> language=Japanese <br> place of publication=Tokyo <br> newspaper id=111]]></description>
34   <link>http://hollisclassic.harvard.edu/F/?func=find-b&request=8266710&find_code(SYS)</link>
35   <geo:lat>35.68</geo:lat>
```



<http://maps.cga.harvard.edu/georss/newspapers/>

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>

TIBETAN BUDDHIST RESOURCE CENTER

Places Works Genres Subjects Persons Places

Places » Place Types » Sites » Monastery » brag thog dgon

brag thog dgon

Details Associated Places Associated Works Associated Persons Literary Production

TBRC Resource ID
G4106

Place type
monastery

Names

| | |
|---------|----------------|
| Tibetan | brag thog dgon |
| Chinese | 扎拖寺 |
| Chinese | zhatuo si |

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: Harvard

Location accuracy level: High Accuracy

Maximum number of records to return: 300

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 100 kilometers of that location!

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

 FEEDBACK

Send Us Feedback!

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.

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

By: Macaulay, Thomas Babington Macaulay. Champaign, Ill. [P.O. Box 2782, Champaign 61825] : Project Gutenberg. eBook , Database: eBook Collection (EBSCOhost)

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9. Memoirs of Extraordinary Popular Delusions

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

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

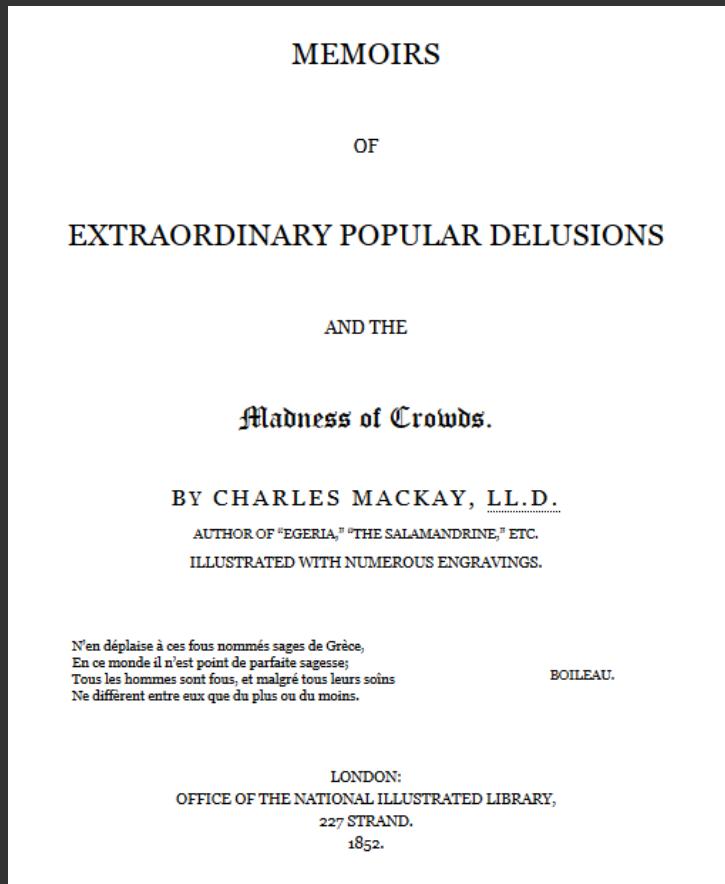
No cover available

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| Read this book online: HTML | 144 kB | | | |
| Read this book online: HTML | 855 kB | | | |
| Read this book online: HTML | 843 kB | | | |
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| EPUB (no images) | 737 kB | | | |
| Kindle (with images) | 9.4 MB | | | |
| Kindle (no images) | 3.0 MB | | | |
| Plain Text UTF-8 | 1.6 MB | | | |
| More Files... | | | | |

traversing {internal structures}



LIST OF ENGRAVINGS IN VOL. I.

- Frontispiece—Gardens of the Hotel de Soissons. (From a print in Mr. Hawkins' collection.)
- Vignette—The Bubblers' 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*)

Denver Public Library – Horses, biography.
John Allen, “Farewell Cards,” *On Wisconsin Magazine*, Summer 2012.



*This evil Solomon espid
Among the Rabbie rout
That beggers did on Horseback
Whilſt Princes walke onfoot^{ride}
South-Sea has verſy dy same,
Tor Mighty Men of late —
Are brought to Poverty & Shame
Whilſt Scoundrels ride in state*

CARICATURE.²²

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

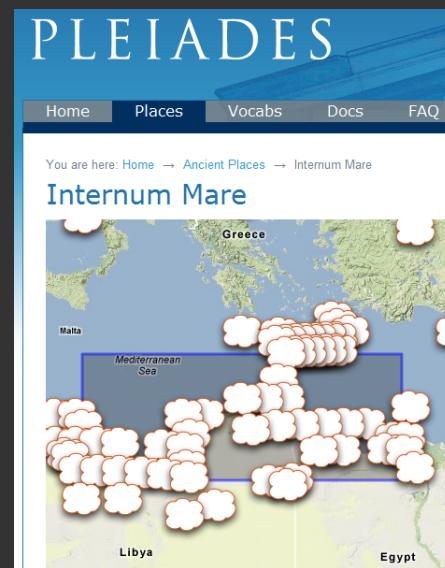


*This evil Solomon espid
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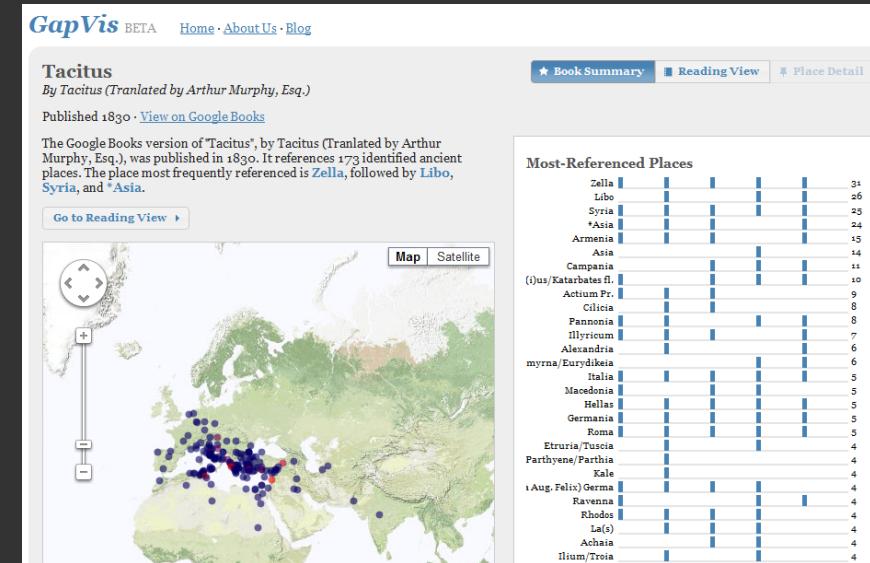
Locations in Classical Texts and Atlases



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](#)



Map data ©2013 Basarsoft, Google, ORION-ME

770 References to Mycenae

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



Map data ©2013 Basarsoft, Google, ORION-ME

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[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>Fangguang 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>

```

Faceted search web service for historical placenames

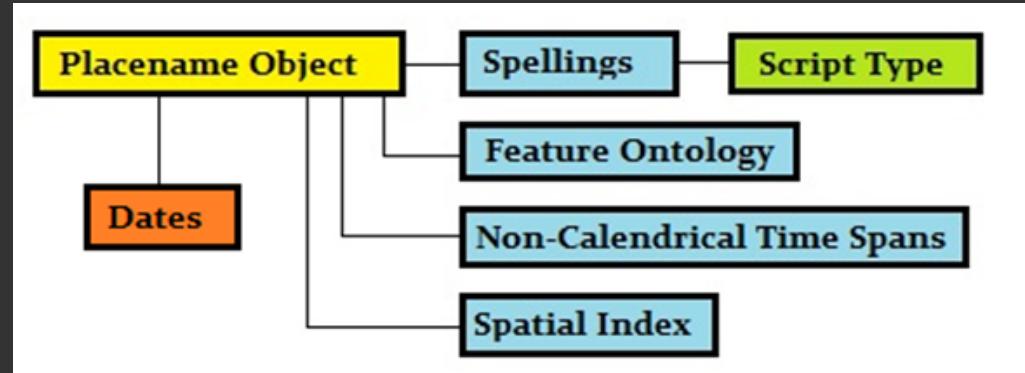
CHGIS Gazetteer Web Service



Temporal Gazetteer Web Service



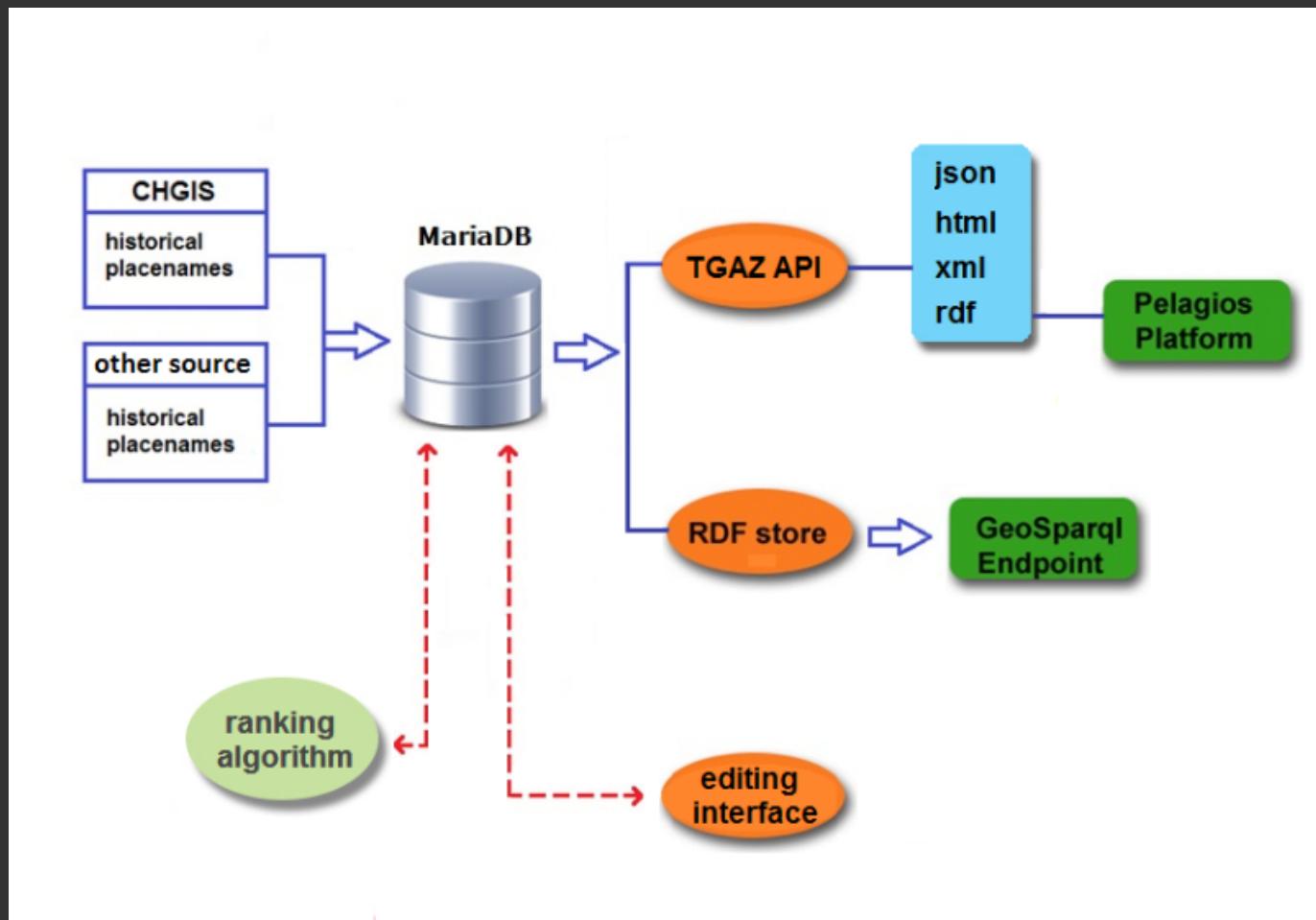
```
<item id="32084">
  <placename>
    <name_romanized>Fu Zhou</name_romanized>
    <name_vernacular>福州</name_vernacular>
    <name_alternate>福州</name_alternate>
  </placename>
  <feature_type>
    <type_english>prefecture</type_english>
    <type_romanized>Zhou</type_romanized>
    <type_vernacular>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



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

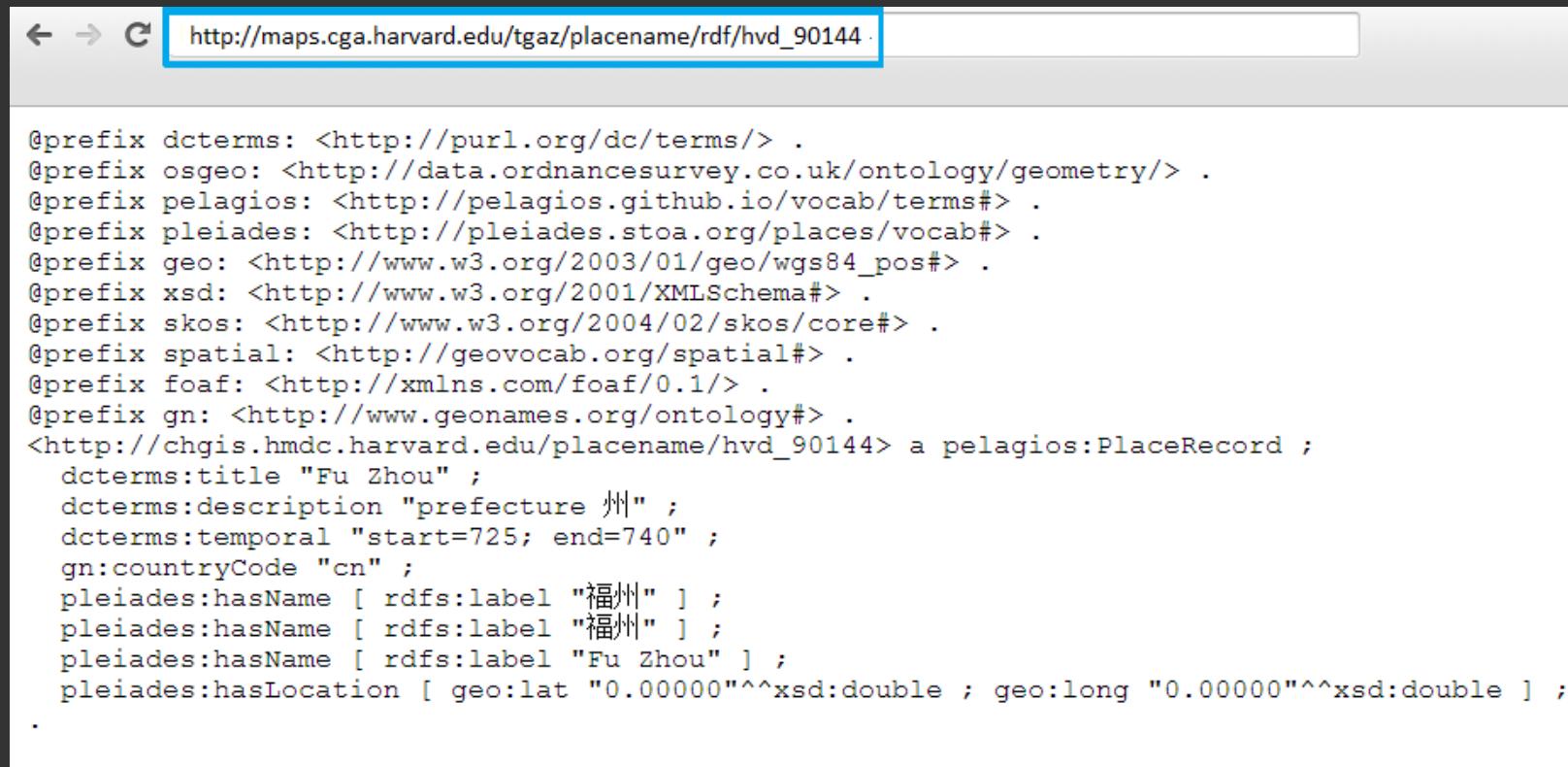
<http://chgis.hmdc.harvard.edu/tgaz/api>

TGAZ overview



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

RDF gazetteer interchange format

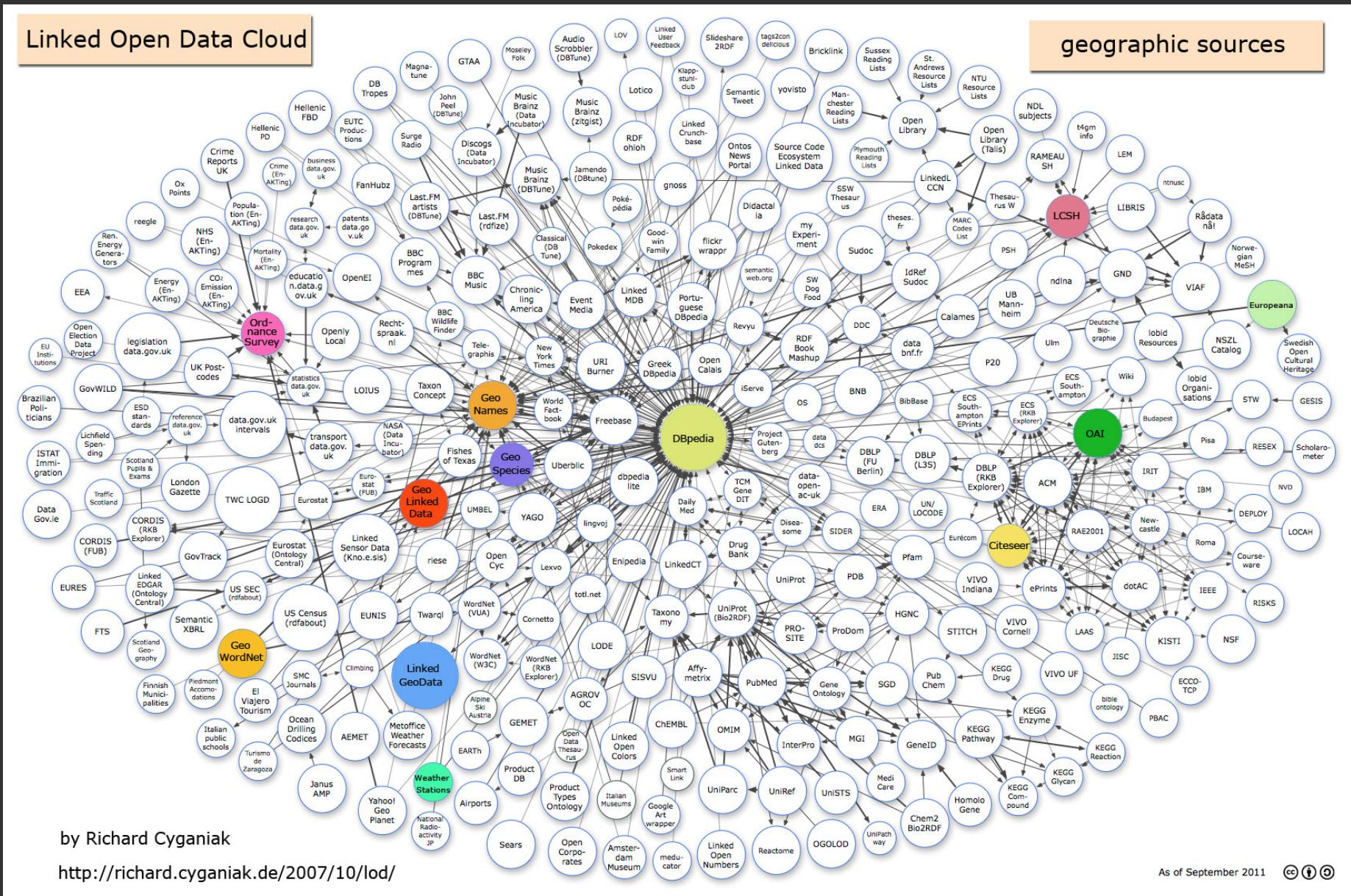


The screenshot shows a web browser window with a URL bar containing http://maps.cga.harvard.edu/tgaz/placename/rdf/hvd_90144. The main content area displays an RDF triple store query results for the place record of Fu Zhou. The results are presented in a standard RDF triple format with prefixes defined at the top.

```
@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 ] ;  
    .
```

Moving forward: the semantic web

linking geodata {rdf}



What can we DO with geo-LOD ?

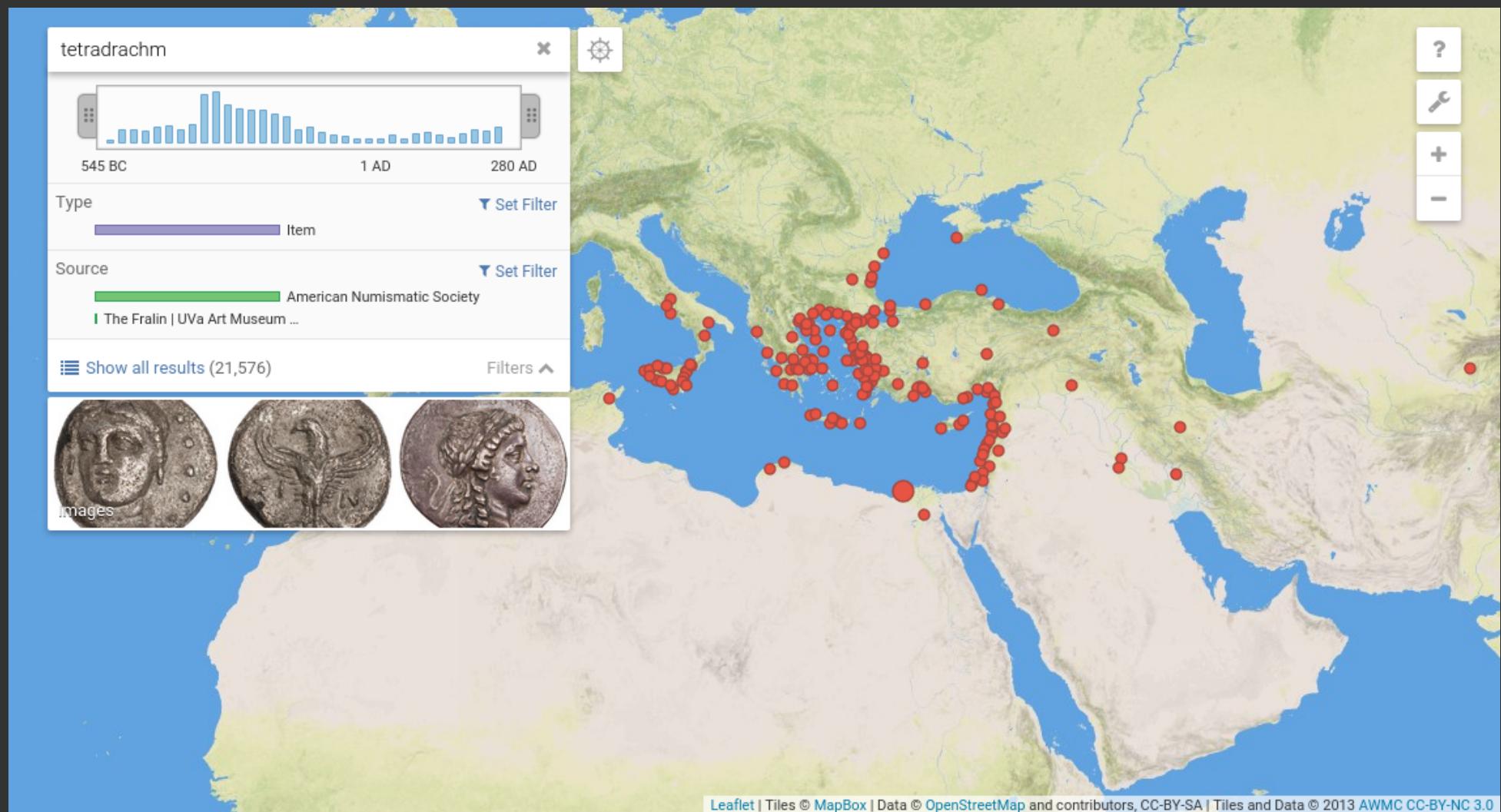
Geosparql is “not easy for laymen to use correctly”

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 / **topotime**

Watch 16 Star 54 Fork 5

Code Issues 3 Pull requests 0 Projects 0 Wiki Pulse Graphs

Branch: master → **topotime** / data / GeometryCollection / incanto-journeys50.json Find file Copy path

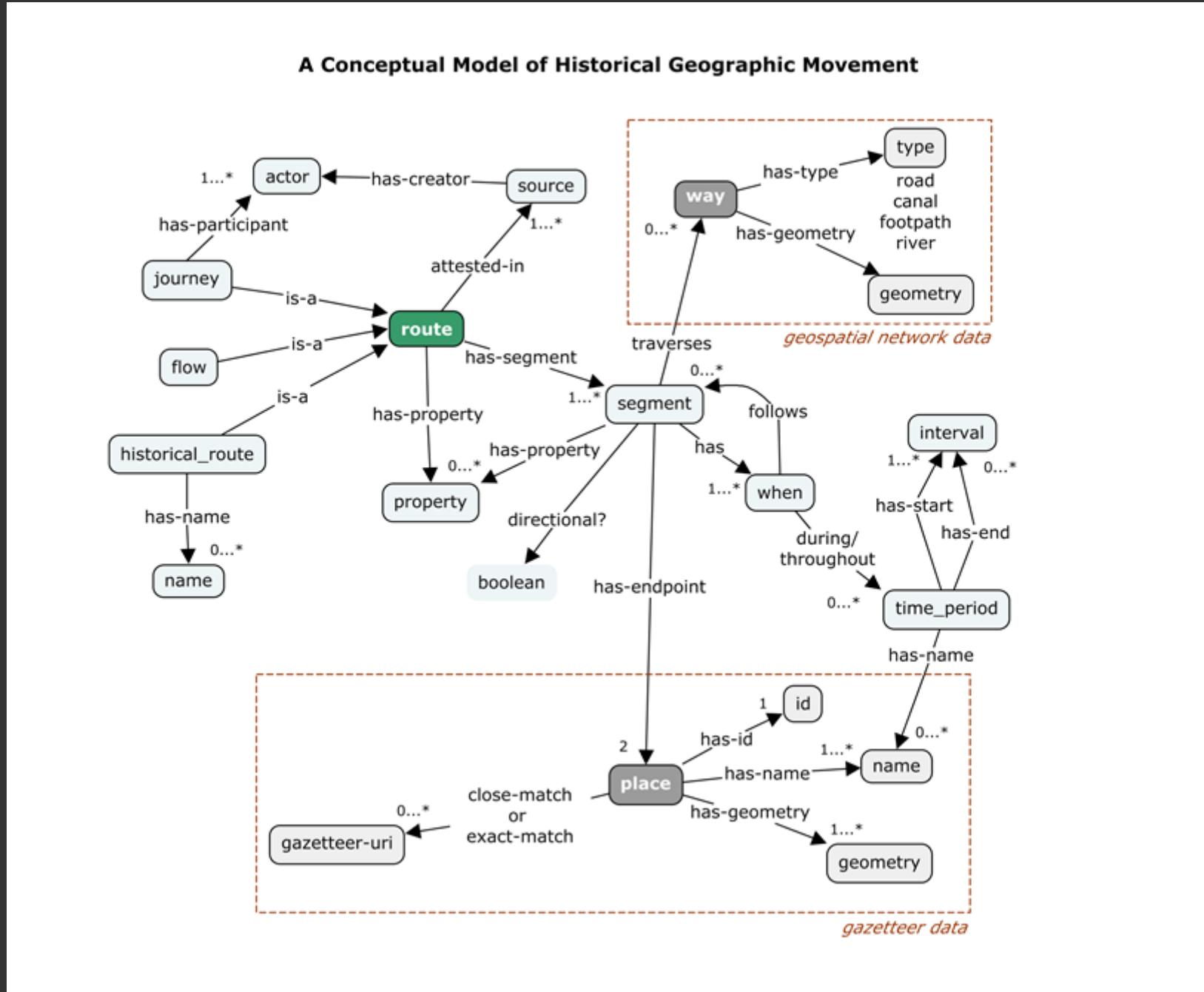
karlg convert-csv focus 3a7bdb 18 days ago

0 contributors

20938 lines (20938 sloc) | 483 KB

Raw Blame History

Mapbox ©OpenStreetMap Improve the underlying map



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

© Mapbox © OpenStreetMap Improve the underlying map

The image shows a GitHub code review interface for a file named 'baikonur_sample.json'. The file contains 129 lines of JSON with a size of 3.37 KB. A note indicates that 'vajlex fixed collection end' was committed 35 seconds ago. The commit hash is 75854b0. There is one contributor listed. The main content is a map of Central Asia, specifically Kazakhstan and parts of Uzbekistan and Kyrgyzstan. The map features a dashed orange line connecting two locations: Baikonur (in Kazakhstan) and Almaty (also in Kazakhstan). Both locations are marked with blue location pins. The map also shows several other cities labeled, such as Tashkent, Andijan, Khujand, Karatay, Taraz, Shu, Bishkek, Karakol, and Aksu. The map is a combination of Mapbox and OpenStreetMap data, with a copyright notice at the bottom right. The GitHub interface includes standard navigation buttons like Raw, Blame, and History, as well as a toolbar with icons for file operations.

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baikonur Search 

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Class: Organization
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| 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 Kazakhstan | 6 |
| Launch complexes (Astronautics)--Kazakhstan--Baïkonur | 4 |
| Astronautics--International cooperation | 3 |
| Baïkonur (Kazakhstan : Space center)--History. | 3 |
| Intercontinental ballistic missiles--Soviet Union--History | 3 |

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

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| Launch complexes (Astronautics)--Kazakhstan | 7 |
| e-ur-kz | 7 |
| Astronautics--Soviet Union Kazakhstan | 6 |
| Launch complexes (Astronautics)--Kazakhstan--Baïkonur | 4 |
| Astronautics--International cooperation | 3 |
| Baïkonur (Kazakhstan : Space center)--History | 3 |
| Intercontinental ballistic missiles--Soviet Union--History | 3 |

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3. Baïkonur
Library:  HARVARD LIBRARY
Class: Instance
RDF linked data: <http://draft.ld4l.org/harvard/n693172270e9e1926>




Baikonur

City in Kazakhstan

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](#)

Area: 22.01 mi²
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)

Images for Baikonur Kazakhstan

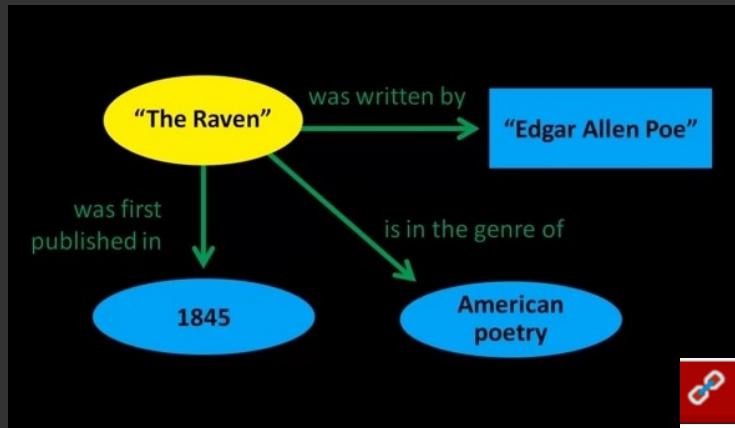




Mano Marks “Geospatial Data and Linked Data”
W3C LGD, Shoreditch 2014

<https://www.w3.org/2014/03/lgd/agenda>

Graphs for Linked Data



LD4L

edgar allen poe, the raven Search

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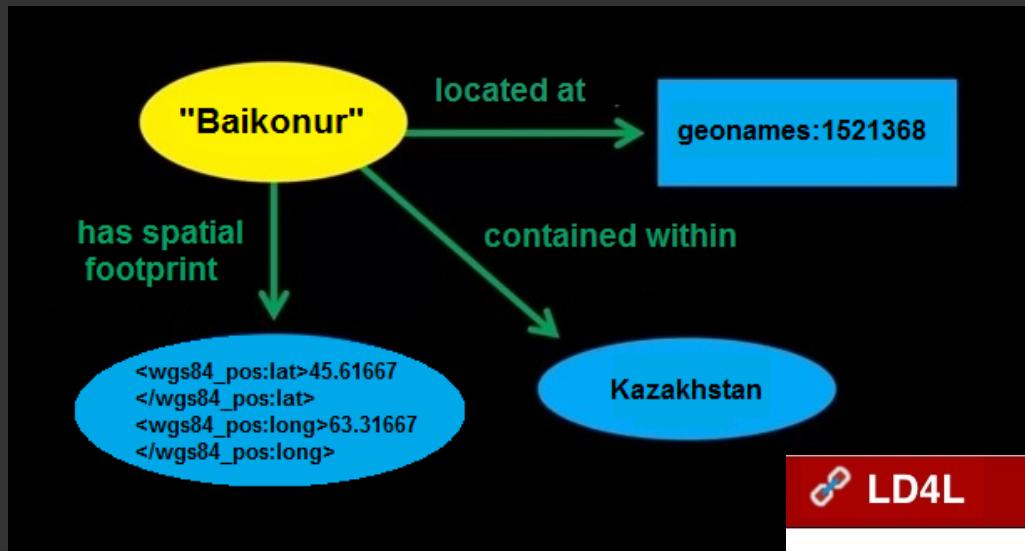
1. The raven and the nightingale : a modern mystery of Edgar Allen Poe / Joanne Dodson
Library: HARVARD LIBRARY
Class: Monograph, Text, Work
RDF linked data: <http://draft.ld4l.org/harvard/n3ba00fb36f25c90c>

2. The raven; a melodrama. [Words by] Edgar Allan Poe
Library: HARVARD LIBRARY
Class: Instance
RDF linked data: <http://draft.ld4l.org/harvard/n115264825db65276>

3. The raven and the nightingale : a modern mystery of Edgar Allan Poe / Joanne Dodson
Library: HARVARD LIBRARY
Class: Instance
RDF linked data: <http://draft.ld4l.org/harvard/nf2ac6fecb7f41834>

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Graphs for Geographic Linked Data



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baikonur Search

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- Language >
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You searched for: baikonur X

1. Baikonur

Library: HARVARD LIBRARY
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2. Baikonur

Library: Stanford University LIBRARIES
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RDF linked data: <http://draft.ld4l.org/stanford/n6bf8d8af9dcc49e>

ADDING TO THE GRAPH

Integration with other geospatial services

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baikonur Search

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1. Baikonur

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Class: Organization

RDF linked data: <http://draft.ld4l.org/harvard/n6bf8d8af9dc>

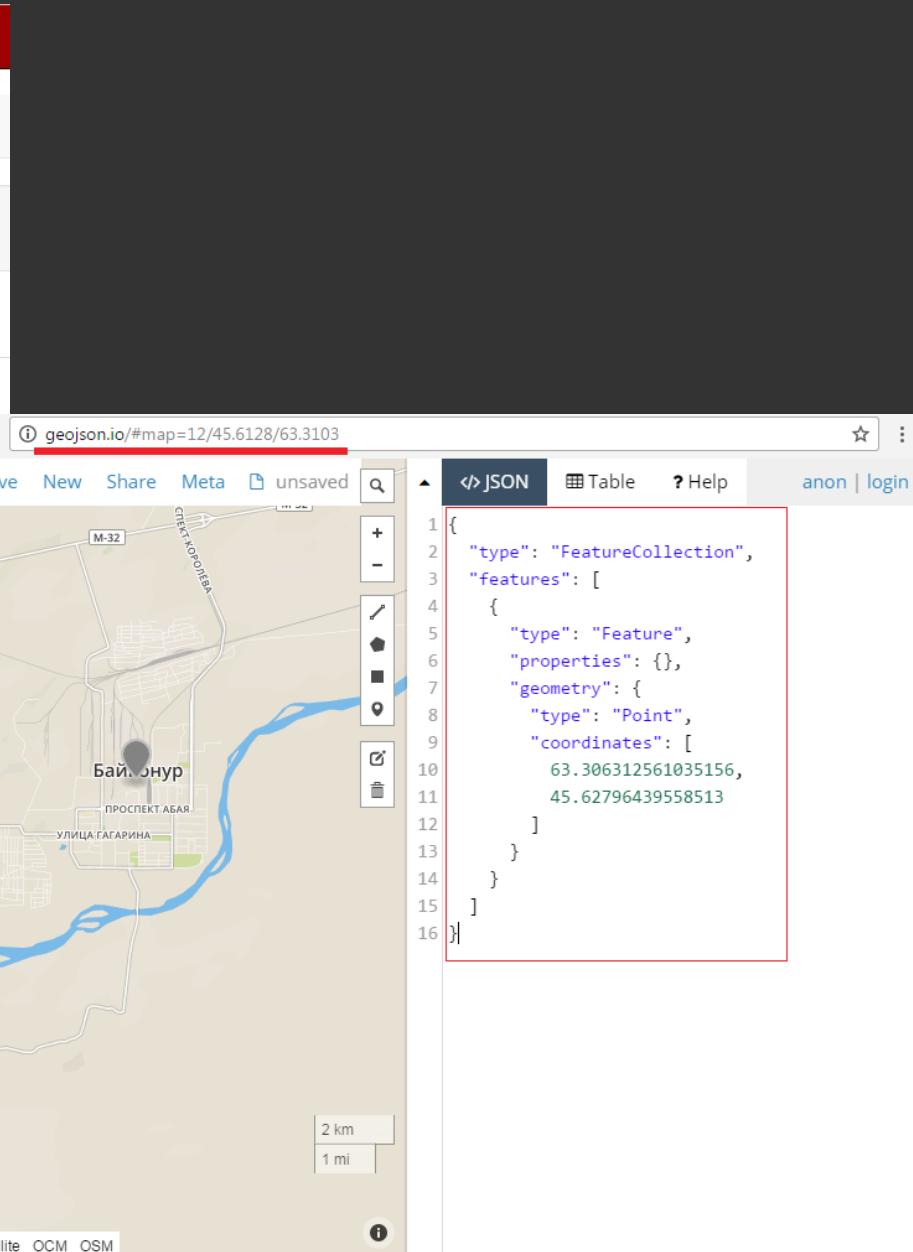
2. Baikonur

Library: Stanford University LIBRARIES

Class: Organization

RDF linked data: <http://draft.ld4l.org/stanford/n6bf8d8af9dc>

GeoJSON >

 geojson.io/#map=12/45.6128/63.3103

Open Save New Share Meta [unsaved](#) Search

JSON Table ? Help anon | login

```
1 {  
2   "type": "FeatureCollection",  
3   "features": [  
4     {  
5       "type": "Feature",  
6       "properties": {},  
7       "geometry": {  
8         "type": "Point",  
9         "coordinates": [  
10            63.306312561035156,  
11            45.62796439558513  
12          ]  
13        }  
14      }  
15    }  
16 }
```

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