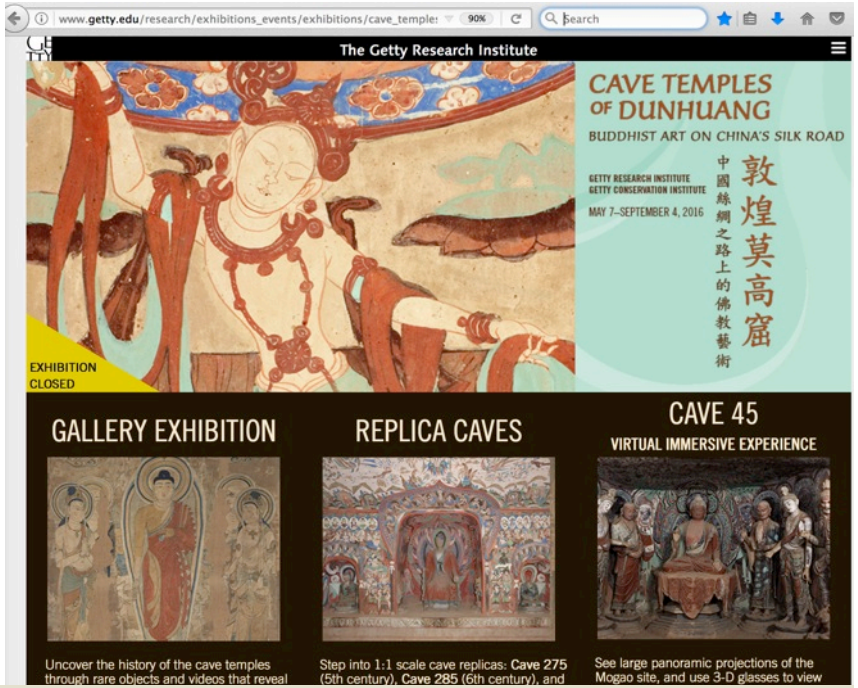

Image source: Captured from: http://www.getty.edu/research/exhibitions_events/exhibitions/cave_temples_dunhuang/index.html

Image source: Photo taken by Marcia Zeng, 2016-08-24 @Getty Center's *Cave Temples of Dunhuang* Exhibition

Extending Exhibitions to Historical Journeys through Data [in the Semantic Web]

Marcia Lei Zeng & Tao Hu

Kent State University, USA

Museums and the Web 2017 Conference
Cleveland, OH, 2017-04

From the exhibition of the Mogao Caves and the website of the exhibition, *Cave Temples of Dunhuang**, let's start the exploration of information related to the Silk Road though the ***Getty Thesaurus of Geographic Names (TGN)***.

http://www.getty.edu/research/exhibitions_events/exhibitions/cave_temples_dunhuang/index.html

Image source: Captured from: http://www.getty.edu/research/exhibitions_events/exhibitions/cave_temples_dunhuang/index.html

Getty Thesaurus of Geographic Names (TGN) and other Getty vocabularies are available in multiple formats

-- Let's see how to use them through three examples

ID: 300198841

rhyta (drinking vessels, <vessels for serving and consuming food>, ... Furni
Name))

Note: Refers to vessels from Ancient Greece, eastern Europe, or the Middle East
with two openings, one at the top for filling and one at the base so that liquid co
the shape of a horn or an animal's head, and were typically used as a drinking cu
another vessel. Drinking was done by holding the rhyton above the drinker's hea
liquid in the mouth.

Terms:

rhyta (**preferred**,C,U,LC,English-P,D,U,
(Greek (transliterated)-P,D,U,PN)
(Spanish,AD,U,SN)
rhyton (C,U,English,AD,U,SN)
(Greek (transliterated),AD,U,SN)
(Spanish,AD,U,SN)
rhytons (C,U,English,UF,U,N)
(French-P,D,U,PN)
(Spanish-P,D,U,PN)
rhea (vessels) (C,U,English,UF,U,N)
rheons (C,U,English,UF,U,N)
rheon (C,U,English,UF,U,N)
ῥυτόν (C,U,Ancient Greek,UF,U,U)
rhūtón (C,U,Ancient Greek (transliterated),UF,U,U)
rytons (C,U,Dutch-P,D,U,U)
ryton (C,U,Dutch,AD,U,U)
ritons (C,U,French,UF,U,N)
riton (C,U,French,UF,U,N)
ritóns (C,U,Spanish,UF,U,N)
rítón (C,U,Spanish,UF,U,SN)
escanciadora (C,U,Spanish,UF,U,SN)

Facet/Hierarchy Code: V.TQ

Hierarchical Position:

Objects Facet
.... Furnishings and Equipment (Hierarchy Name) (G)
..... Containers (Hierarchy Name) (G)
..... containers (receptacles) (G)
..... <containers by function or context> (G)
..... <culinary containers> (G)
..... <containers for serving and consuming food> (G)
..... <vessels for serving and consuming food> (G)
..... drinking vessels (G)
..... rhyta (G)

Additional Parents:

Objects Facet
.... Furnishings and Equipment (Hierarchy Name) (G)
..... Containers (Hierarchy Name) (G)
..... containers (receptacles) (G)
..... <containers by function or context> (G)
..... ceremonial containers (G)
..... ceremonial vessels (G)
..... rhyta (G)

Objects Facet
.... Furnishings and Equipment (Hierarchy Name) (G)
..... Containers (Hierarchy Name) (G)
..... containers (receptacles) (G)
..... <containers by form> (G)
..... vessels (containers) (G)
..... vases (G)
..... plastic vases (ancient vessels) (G)
..... rhyta (G)

Additional Notes:

Dutch ..... Vaten uit de Griekse oudheid in de vorm van een dierenkop, were
of om wijn in een ander vat te gieten.
Spanish ..... Refiérase a vasijas de la Antigua Grecia, Europa del Este, o del
son cerradas pero con dos aberturas, una en el extremo superior para pod
para que el líquido pudiera salir. A menudo tienen la forma de un cuerno o u
lo común usadas como copas para beber o para vaciar vino en otras vasijas

Related concepts:

distinguished from .... **drinking horns**
..... (drinking vessels, <vessels for serving and consumin
Equipment (Hierarchy Name)) [300043229]
distinguished from .... **stirrup cups**
..... (drinking vessels, <vessels for serving and consumin
Equipment (Hierarchy Name)) [300197140]
distinguished from .... **sturzbechers**
..... (beakers (drinking vessels), drinking vessels, ... Furni
Name)) [300197148]

1 HTML

2 XML

```
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  xsi:noNamespaceSchemaLocation="http://vocabsservices.getty.edu
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          <Relationship_Type>Parent/Child</Relationship_Type>
          <Historic_Flag>Current</Historic_Flag>
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          [300198938], containers
          containers [300197577],
          (receptacles) [30019719
          and Equipment (Hierarch
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          <Hier_Rel_Type>Genus/Sp
        </Preferred_Parent>
      - <Non-Preferred_Parent>
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          vessels (containers) [300193015], containers by form [30
          (receptacles) [300197197], Containers (Hierarchy Name)
          and Equipment (Hierarchy Name) [300264551], Objects Fa
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          that typically have a closed form with two openings, one at
          at the base so that liquid could stream out. They are often
          an animal's head, and were typically used as a drinking cup
          another vessel. Drinking was done by holding the rhyton al
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        </Descriptive_Note>
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        + <Note_Sources>
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          menudo tienen la forma de un cuerno o una cabeza de ani
          usadas como copas para beber o para vaciar vino en otras
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3 RDF

SUBJECT #300198841

Resource URI: http://karma.getty.edu:2020/resource/AAT/Subject/300

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skosxl:altLabel	rhea
skosxl:altLabel	rheon
skosxl:altLabel	rheons
skosxl:altLabel	rhyton
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skosxl:altLabel	rhūtón
skosxl:altLabel	riton
skosxl:altLabel	ritons
skosxl:altLabel	ritón
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rdfs:label	SUBJECT #300198841
skos:note	Refers to vessels from Ancient Greece, eastern Europe, or the Middle East openings, one at the top for filling and one at the base so that liquid could st an animal's head, and were typically used as a drinking cup or for po by holding the rhyton above the drinker's head and catching the strea
skos:note	Refi$00erase a vasijas de la Antigua Grecia, Europa del Este, o del Medio con dos aberturas, una en el extremo superior para poder llenarlas, y otra e menudo tienen la forma de un cuerno o una cabeza de animal y eran por lo para vaciar vino en otras vasijas.
skos:note	Vaten uit de Griekse oudheid in de vorm van een dierenkop, werden vaak g gieten.
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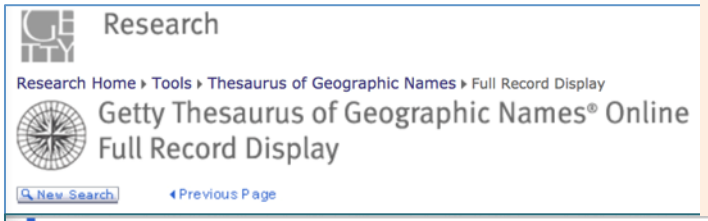
Example 1
Learn through TGN Website


Research

Research Home ▸ Tools ▸ Thesaurus of Geographic Names ▸ Full Record Display

Getty Thesaurus of Geographic Names® Online
Full Record Display

New Search Previous Page

Mogao Caves (ancient site)

Coordinates:
Lat: 40 02 01 N *degrees minutes* Lat: 40.0335 *decimal degrees*
Long: 094 55 09 E *degrees minutes* Long: 94.9192 *decimal degrees*

Note: System of over 735 caves, with manmade alterations and excavation; 492 caves are decorated; located outside of Dunhuang city. Carved and painted beginning in 4th century CE.

Names:

Qianfodong (**preferred**,C,V,Chinese (transliterated Pinyin without tones),U)
Mogao Caves (C,V,display,English-P,U,N)
Mogao Grottoes (C,V,English,U,N)
Mogao (C,V)
Mokao Grottoes (C,V,English,U)
Mogao Ku (C,V)
Mògāo kū (C,V,Chinese (transliterated Pinyin),U)
Caves of the Thousand Buddhas (C,V,English,U)
Thousand Buddhas, Caves of the (C,V,English,U)
Thousand Buddah Grottoes (C,V,English,U,N)
Shibendin (C,V,Chinese (transliterated),U)
Ch'ien-fu-tung-miao (C,V,Chinese (transliterated),U)
Ch'ien-fu-tung (C,V,Chinese (transliterated),U)
Ch'ien-fo-tung (C,V,Chinese (transliterated),U)
Chenfudun (C,V,Chinese (transliterated),U)
莫高窟 (C,V,Chinese-P,U)
Mogao ku (C,V,Chinese (transliterated),U)
Qianfudong (C,V,Chinese (transliterated),U)
千佛洞 (C,V,Chinese,U)

Hierarchical Position:

World (facet)
.... Asia (continent) (P)
..... China (nation) (P)
..... Gansu (province) (P)
..... Mogao Caves (ancient site) (P)

Place Types:

ancient site (**preferred**, C)
rock-cut architecture (C)
World Heritage Site (C)
historic site (C)
caves (C)

Related geographic places:

located on .... **Silk Road** ..... (road)
..... (World) [7031416]
near/adjacent to .... **Dunhuang** ..... (inhabited place)
..... (World, Asia, China, Gansu province) [7001969]

"Mogao Caves" =>
"Related geographic places"
located on …. "Silk Road"

TGN gives us …

Research

Research Home ▸ Tools ▸ Thesau

Getty Thesaurus of Geographic Names® Online
Full Record Display

New Search ◂ Previous Page

ID: 7031416

Silk Road (road)

Note: Ancient trade route and car
between China, the Middle East, a
to the northwest, bypassed the Ta
Afghanistan, and went on to the L
Sea. Few persons travelled the ent
middlemen.

Names:
Silk Road (preferred,C,V)
Silk Route (C,V)
Great Silk Road (C,V)

Hierarchical Position:
World (facet)
.... Silk Road (road) (P)

Place Types:
road (**preferred**, H) .....
route (H)

Related geographic places:
is location of .... **Aleppo** .....
..... (World, Asia
is location of .... **Almaty** .....
..... (World, Asia
is location of .... **Al-Mawṣil** .
..... (World, Asia
is location of .... **Andijon** ....
..... (World, Asia
is location of .... **Anxi** .....
..... (World, Asia
is location of .... **Ar Raqqah**
..... (World, Asia
is location of .... **Baghdad** ...
..... (World, Asia
is location of .... **Balkh** .....
..... (World, Asia

is location of .... **Bamiyan** ..... (i
..... (World, Asia, Afghar
is location of .... **Bamiyan Valley** ...
..... (World, Asia, Afghar
is location of .... **Bezeklik Thousand**
..... (World, Asia, China,
is location of .... **Bīsotūn** ..... (in
..... (World, Asia, Iran, K
is location of .... **Bukhara** ..... (ir
..... (World, Asia, Uzbeki
is location of .... **Bursa** ..... (inha
..... (World, Asia, Turkey
is location of .... **Chardzhou** .....
..... (World, Asia, Turkm
is location of .... **Ctesiphon** .....
..... (World, Asia, Iraq, B
is location of .... **Damascus** .....
..... (World, Asia, Syria,
is location of .... **Dāmghān** ..... (
..... (World, Asia, Iran, S
is location of .... **Debal** ..... (dese
..... (World, Asia, Pakista
is location of .... **Dunhuang** .....
..... (World, Asia, China,
is location of .... **Endere** ..... (des
..... (World, Asia, China,
is location of .... **Fergana Valley** ....
..... (World, Asia, Uzbeki
is location of .... **Gaochang** ..... (
..... (World, Asia, China,
is location of .... **Guma** ..... (inha
..... (World, Asia, China,
is location of .... **Guozhen** ..... (i
..... (World, Asia, China,
is location of .... **Hamadān** ..... (
..... (World, Asia, Iran, H
is location of .... **Herāt** ..... (inha
..... (World, Asia, Afghanistan, Herāt) [7002243]
is location of .... **Ḥimṣ** ..... (inhabited place)
..... (World, Asia, Syria, Ḥimṣ) [7002264]
is location of .... **Istanbul** ..... (inhabited place)
..... (World, Asia, Turkey, İstanbul) [7002473]

is location of .... **Jaisalmer**
..... (World, Asia
is location of .... **Jiaohe** ....
..... (World, Asia
is location of .... **Jiayuguan**
..... (World, Asia
is location of .... **Jiayu Pass**
..... (World, Asia
is location of .... **Kābul** .....
..... (World, Asia
is location of .... **Kandahar**
..... (World, Asia
is location of .... **Kashi** .....
..... (World, Asia
is location of .... **Kermānsh**
..... (World, Asia
is location of .... **Khujand** ..
..... (World, Asia
is location of .... **Kokand** ...
..... (World, Asia
is location of .... **Konya** .....
..... (World, Asia
is location of .... **Kucha** .....
..... (World, Asia
is location of .... **Kumul** .....
..... (World, Asia
is location of .... **Kyŏngju** ..
..... (World, Asia
is location of .... **Lanzhou** ..
..... (World, Asia
is location of .... **Laochengl**
..... (World, Asia
is location of .... **Leh** .....
..... (World, Asia
is location of .... **Lhasa** ..... (inhabited place)
..... (World, Asia, China, Tibet) [7001874]
is location of .... **Liqian** ..... (deserted settlement)
..... (World, Asia, China, Gansu province) [8060328]
is location of .... **Loulan Yiji** ..... (deserted settlement)
..... (World, Asia, China, Xinjiang) [6003517]
is location of .... **Mashhad** ..... (inhabited place)
..... (World, Asia, Iran, Khorāsān-e Raẓavī) [700224

is location of .... **Mathura** ..... (inhabited place)
..... (World, Asia, India, Uttar Pradesh) [7001569]
is location of .... **Merv** ..... (deserted settlement)
..... (World, Asia, Turkmenistan, Mary) [7012244]
is location of .... **Miran** ..... (inhabited place)
..... (World, Asia, China, Xinjiang) [8060343]
is location of .... **Mogao Caves** ..... (ancient site)
..... (World, Asia, China, Gansu province) [7029798]
is location of .... **Mudurnu** ..... (inhabited place)
..... (World, Asia, Turkey, Bolu) [1086703]
is location of .... **Multān** ..... (inhabited place)
..... (World, Asia, Pakistan, Punjab) [7002481]
is location of .... **Nisa** ..... (deserted settlement)
..... (World, Asia, Turkmenistan, Ahal) [7032028]
is location of .... **Nīshābūr** ..... (inhabited place)
..... (World, Asia, Ira
is location of .... **Niya** ..... (in
..... (World, Asia, Ch
is location of .... **Niya** ..... (d
..... (World, Asia, Ch
is location of .... **Palmyra** .....
..... (World, Asia, Sy
is location of .... **Patna** ..... (
..... (World, Asia, In
is location of .... **Peshāwar** .....
..... (World, Asia, Pa
is location of .... **Pushkalavati** .
..... (World, Asia, Pa
is location of .... **P'yŏngyang** ...
..... (World, Asia, No
is location of .... **Qazvīn** .....
..... (World, Asia, Ira
is location of .... **Qiemo** .....
..... (World, Asia, Ch
is location of .... **Qincheng** .....
..... (World, Asia, Ch
is location of .... **Qingquan** .....
..... (World, Asia, Ch
is location of .... **Quetta** .....
..... (World, Asia, Pa
is location of .... **Qumis** .....
..... (World, Asia, Ira

is location of .... **Ruoqiang** ..... (inhabited place)
..... (World, Asia, China, Xinjiang) [1071254]
is location of .... **Sabzevār** ..... (inhabited place)
..... (World, Asia, Iran, Khorāsān-e Raẓavī) [1079294]
is location of .... **Samarkand** ..... (inhabited place)
..... (World, Asia, Uzbekistan, Samarqand) [7012290]
is location of .... **Sāmarrā'** ..... (inhabited place)
..... (World, Asia, Iraq, Şalāḥ ad Dīn) [7002480]
is location of .... **Shache** ..... (inhabited place)
..... (World, Asia, China, Xinjiang) [7002000]
is location of .... **Shahrisabz** ..... (inhabited place)
..... (World, Asia, Uzbekistan, Qashqadaryo province) [1051509]
is location of .... **Sian** ..... (inhabited place)
..... (World, Asia, China, Shaanxi) [7001810]
is location of .... **Taraz** ..... (inhabited place)
..... (World, Asia, Kazakhstan, Zhambyl) [7016637]
is location of .... **Tashkent** ..... (inhabited place)
..... (World, Asia, Uzbekistan, Toshkent) [7010300]
is location of .... **Taxila** ..... (deserted settlement)
..... (World, Asia, Pakistan, Punjab) [6005850]
is location of .... **Trabzon** ..... (inhabited place)
..... (World, Asia, Turkey, Trabzon) [7002631]
is location of .... **Turfan Depression** ..... (depression)
..... (World, Asia, China, Xinjiang) [1103342]
is location of .... **Türkistan** ..... (inhabited place)
..... (World, Asia, Kazakhstan, Ongtüstik Qazaqstan) [1060525]
is location of .... **Tyre** ..... (inhabited place)
..... (World, Asia, Lebanon, Liban-Sud) [7002862]
is location of .... **Ura-Tyube** ..... (inhabited place)
..... (World, Asia, Tajikistan, Leninobod, Viloyati) [1060686]
is location of .... **Ürümqi** ..... (inhabited place)
..... (World, Asia, China, Xinjiang) [7001978]
is location of .... **Ṭūs** ..... (inhabited place)
..... (World, Asia, Iran, Khorāsān-e Raẓavī) [6006159]
is location of .... **Vārānasi** ..... (inhabited place)
..... (World, Asia, India, Uttar Pradesh) [7001509]
is location of .... **Wensu** ..... (inhabited place)
..... (World, Asia, China, Xinjiang) [7001746]
is location of .... **Wuwei** ..... (inhabited place)
..... (World, Asia, China, Gansu province) [7018821]
is location of .... **Xibeijie** ..... (inhabited place)
..... (World, Asia, China, Gansu province) [7001782]
is location of .... **Yangguan** ..... (pass)
..... (World, Asia, China, Xinjiang) [8060344]
is location of .... **Yanqi** ..... (inhabited place)
..... (World, Asia, China, Xinjiang) [7008917]
is location of .... **Yazd** ..... (inhabited place)
..... (World, Asia, Iran, Yazd) [7002173]
is location of .... **Yumenguan** ..... (pass)
..... (World, Asia, China, Gansu province) [6006648]
is location of .... **Zhangye** ..... (inhabited place)
..... (World, Asia, China, Gansu province) [7001844]

Learn from these entities through TGN, one by one

Getty Thesaurus of Geographic Names® Online
Full Record Display

New Search | Previous Page | Help

Vernacular Display | **English Display**

Click the icon to view the hierarchy.

Semantic View (JSON, JSONLD, RDF, N3/Turtle, N-Triples)

ID: 7018835 **Record Type: administrative**

Palmyra (deserted settlement)

Coordinates:
Lat: 34 33 12 N *degrees minutes* Lat: 34.5530 *decimal degrees*
Long: 038 16 05 E *degrees minutes* Long: 38.2680 *decimal degrees*

Note: Ruins of an ancient city adjacent to the modern town of Tadmur; both the ancient ruins and the modern city are known as both Tadmur and Palmyra. The city is said to have been built by Solomon, but may be confused with Tamar in Palestine. Palmyra is mentioned as early as the 19th century BCE, but developed at the beginning of Christian Era. It was under Roman suzerainty from the 1st century CE, and gained prominence and prosperity as a city from 130-270. After the assassination of Odaenathus and his son, the city was ruled by Zenobia, from 267-272, during which the city's army conquered Anatolia. The city was destroyed in 273 by the emperor Aurelian. Today, Palmyra is viewed as a bridge between the cultures of the east and west, and it was an important stop along the ancient Silk Road. Ruins include a Grand Colonnade with a double portico, temples, the Senate House (agora), a sanctuary, several Christian churches, and a theatre. In May of 2015, the area was overtaken by extremists, and several important temples have been confirmed destroyed.

Names:

Palmyra (**preferred**,C,V)
Palmyre (C,V)
Palmira (C,V)
Tadmur (C,V)
Kharā'ib Tadmur (C,V)
Tadmor (H,V) ..... Biblical name
Tamar (C,V)
Tabmur (H,V)
Tedmor (C,V)
Tudmur (C,V)
تدمر (C,V)
خرائب تدمر (C,V)

Hierarchical Position:

World (facet)
.... Asia (continent) (P)
..... Syria (nation) (P)
..... Ḥimṣ (governorate) (P)
..... Palmyra (deserted settlement) (P)

Place Types:

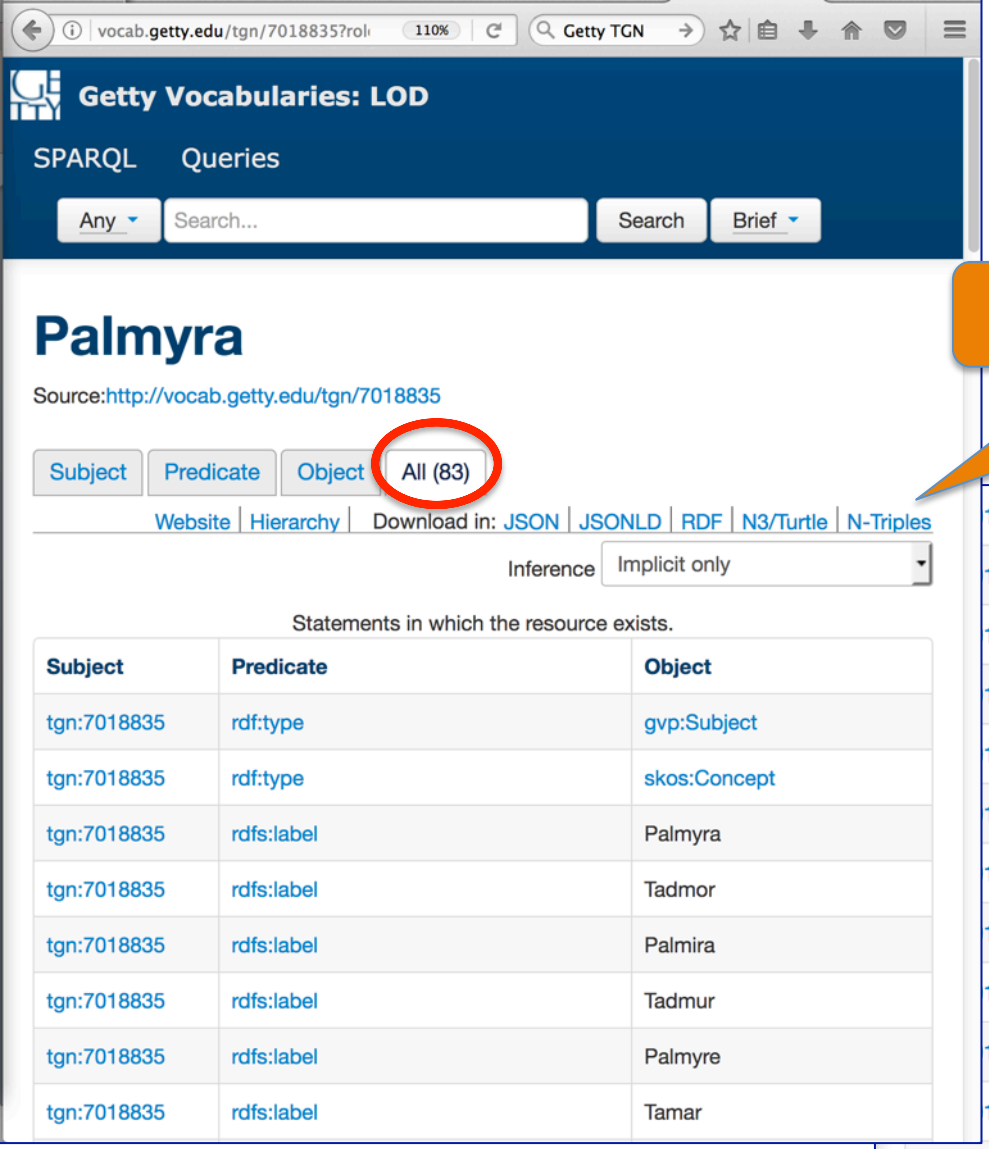
deserted settlement (**preferred**, C)
archaeological site (C)
World Heritage Site (C) ..... from 1980
inhabited place (H) ..... settled since 3500 BCE, was larger town in ancient Aramaic times
capital (H) ..... of kingdom, 267-272 CE
episcopal see (H)
trade center (H)

Related geographic places:

located on .... **Silk Road** ..... (road)
..... (World) [7031416]
near/adjacent to .... **Tadmur** ..... (inhabited place)
..... (World, Asia, Syria, Ḥimṣ) [7032452]

Learn from these entities through TGN, one by one, &,

If you want to download the dataset →



Download the dataset

18835	rdfs:label	Tamar
18835	rdfs:label	Kharā'ib Tadmur
18835	rdfs:label	Tedmor
18835	rdfs:label	تدمر
18835	rdfs:label	Tabmur
18835	rdfs:label	Tudmur
18835	rdfs:label	خرائب تدمر
18835	gvp:broader	tgn:1002054
18835	gvp:broaderPartitiveExtende...	tgn:6000039
18835	gvp:broaderPartitiveExtende...	tgn:1000004
18835	gvp:broaderPartitiveExtende...	tgn:1002054
tgn:7018835	gvp:broaderPartitiveExtende...	tgn:7001526
tgn:7018835	gvp:broaderPartitiveExtende...	tgn:1000140
tgn:7018835	gvp:broaderPartitiveExtende...	tgn:7029392
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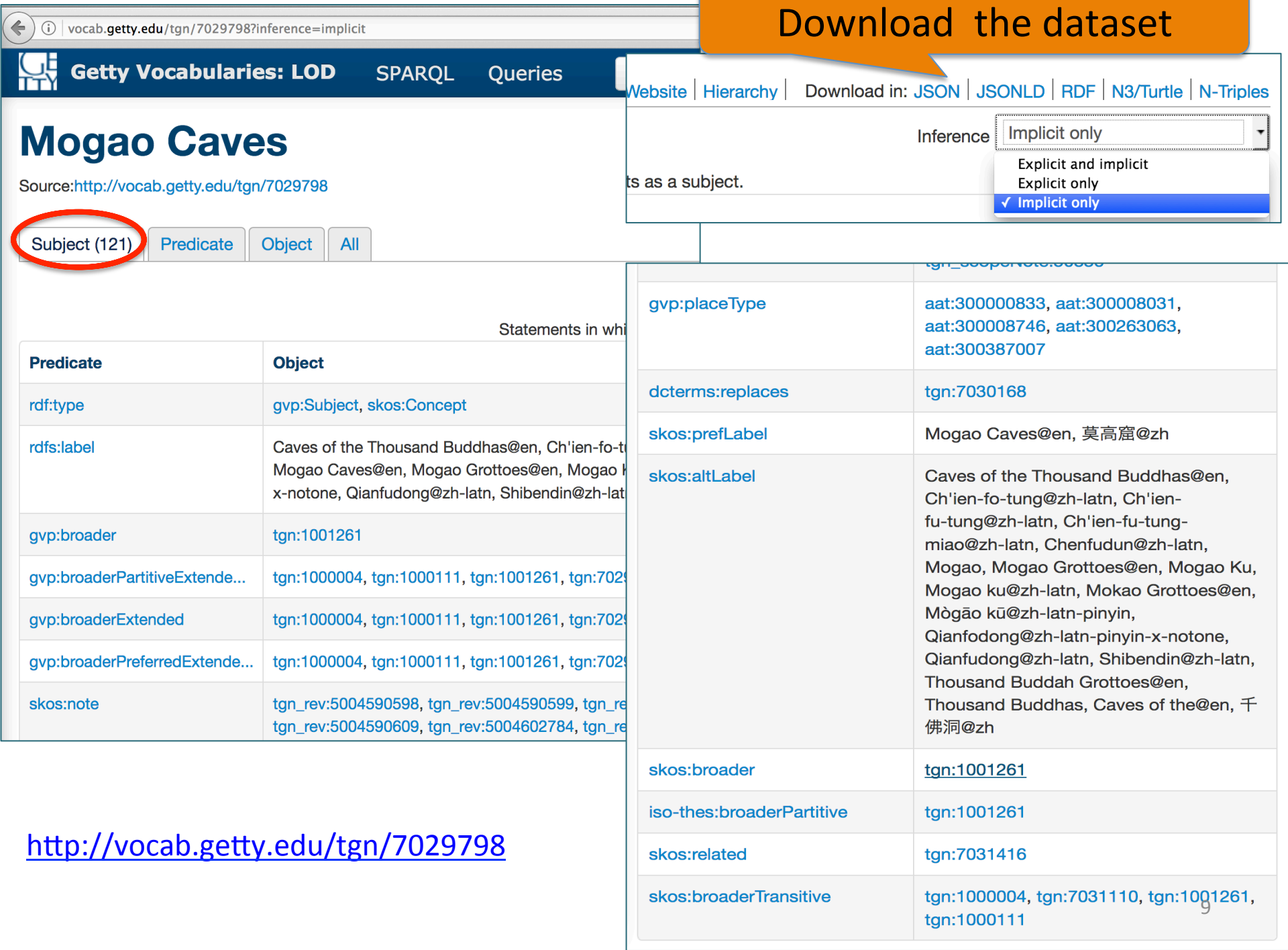
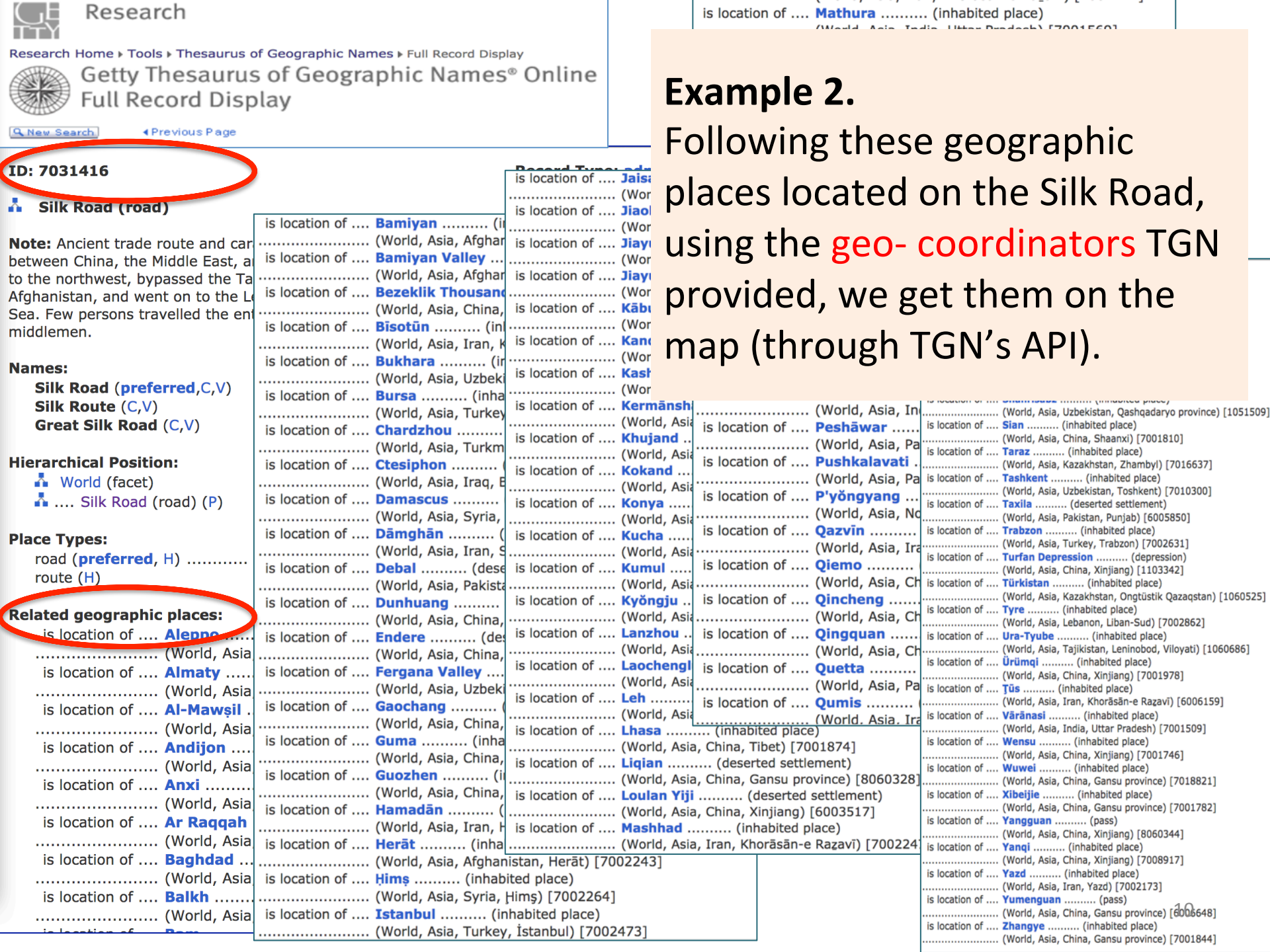


http://vocab.getty.edu/tgn/7029798



Example 2.

Following these geographic places located on the Silk Road, using the geo- coordinators TGN provided, we get them on the map (through TGN's API).

Example 2.

Following these geographic places located on the Silk Road, using the geo- coordinators TGN provided, we get them on the map (through TGN's API).

Image source: Screen captured from our experimental platform.

… find places in a boundary
(through the “near/adjacent to” relationship provided by TGN)

Place Types:

deserted settlement (**preferred**, C)
archaeological site (C)
World Heritage Site (C) ..... from 1980
inhabited place (H) ..... settled since 3500 BCE, Aramaic times
capital (H) ..... of kingdom, 267-272 CE
episcopal see (H)
trade center (H)

Related geographic places:

located on .... **Silk Road** ..... (road)
..... (World) [7031416]
near/adjacent to .... **Tadmur** ..... (inhabited place)
..... (World, Asia, Syria, Ḥimṣ) [7032452]

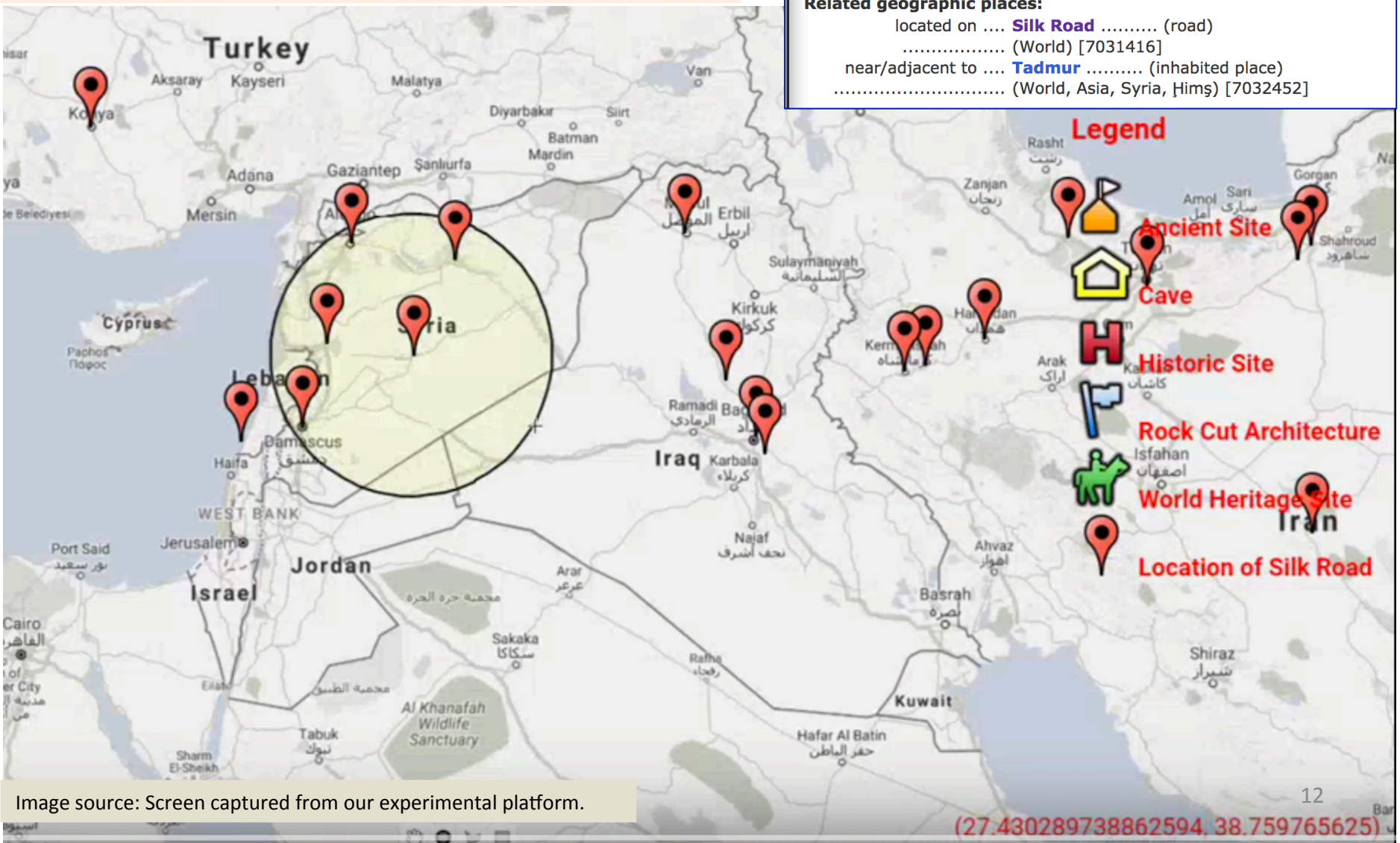


Image source: Screen captured from our experimental platform.

… launch the search for museums' collections through a place on the map.

Examples:
2. Europeana Collections
3. The Cleveland Museum of Art
4. The Metropolitan Museum of Art

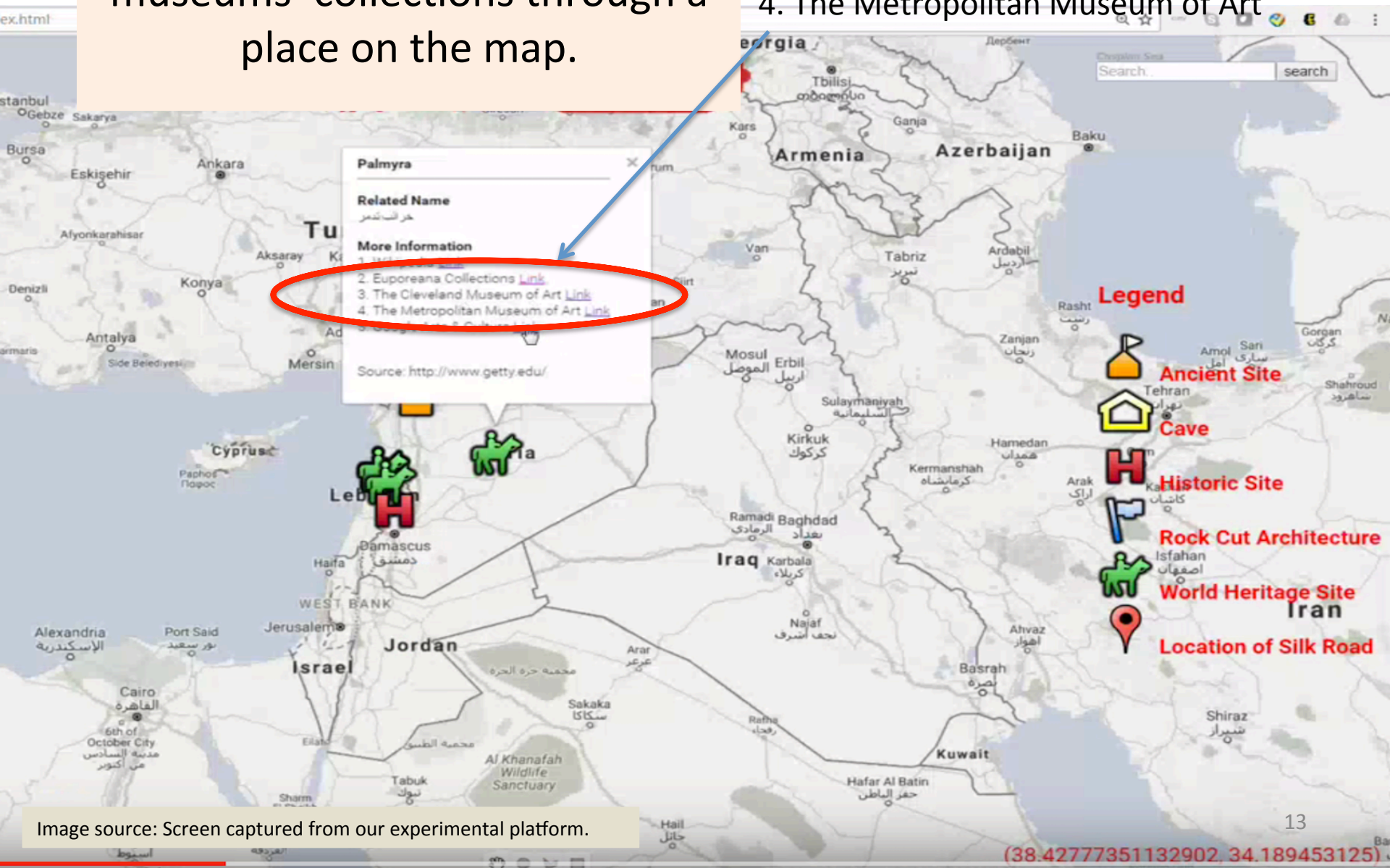


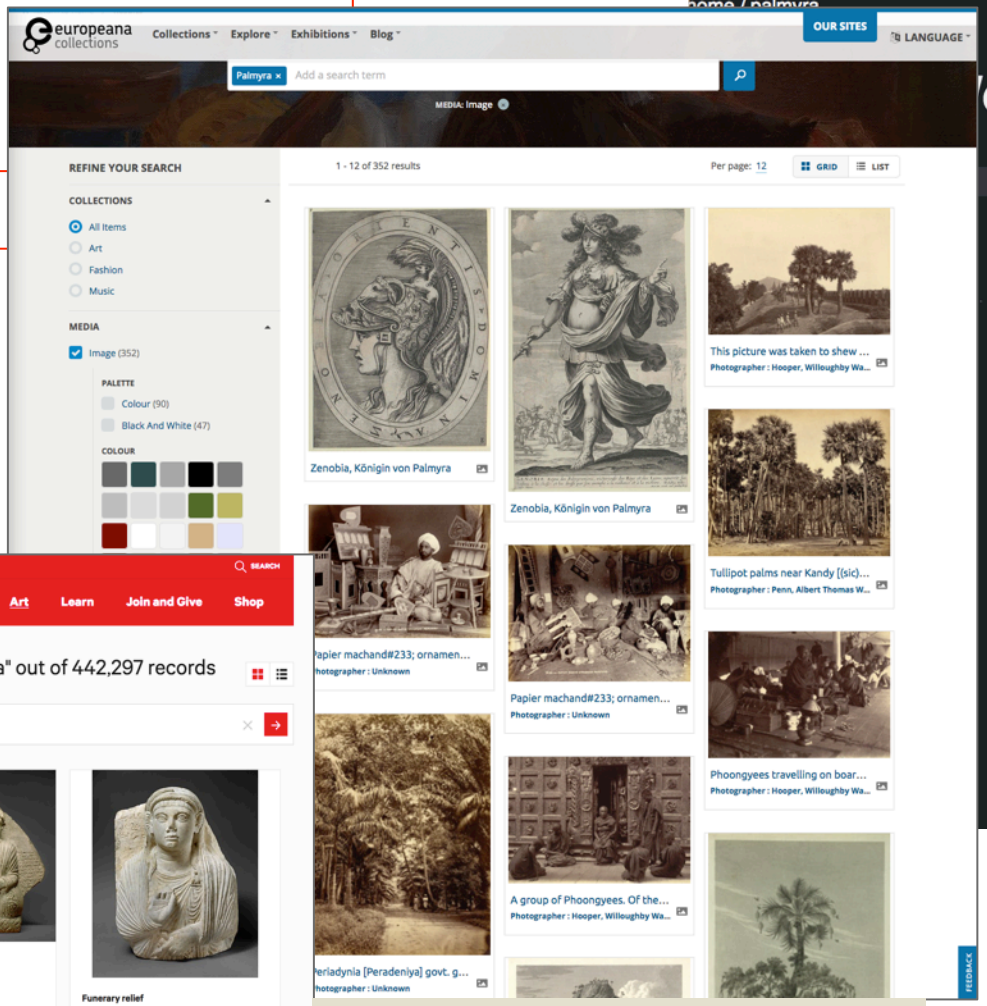
Image source: Screen captured from our experimental platform.

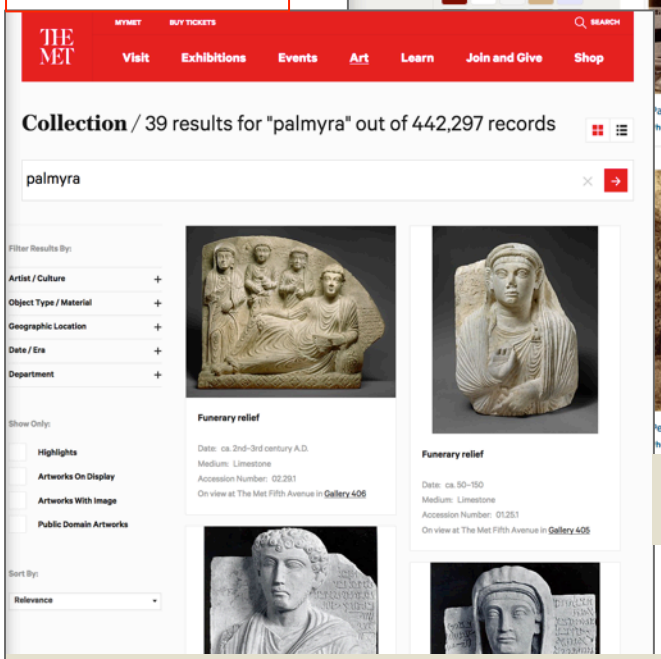
“Palmyra”

The Cleveland Museum of Art:

Europeana:

MET:





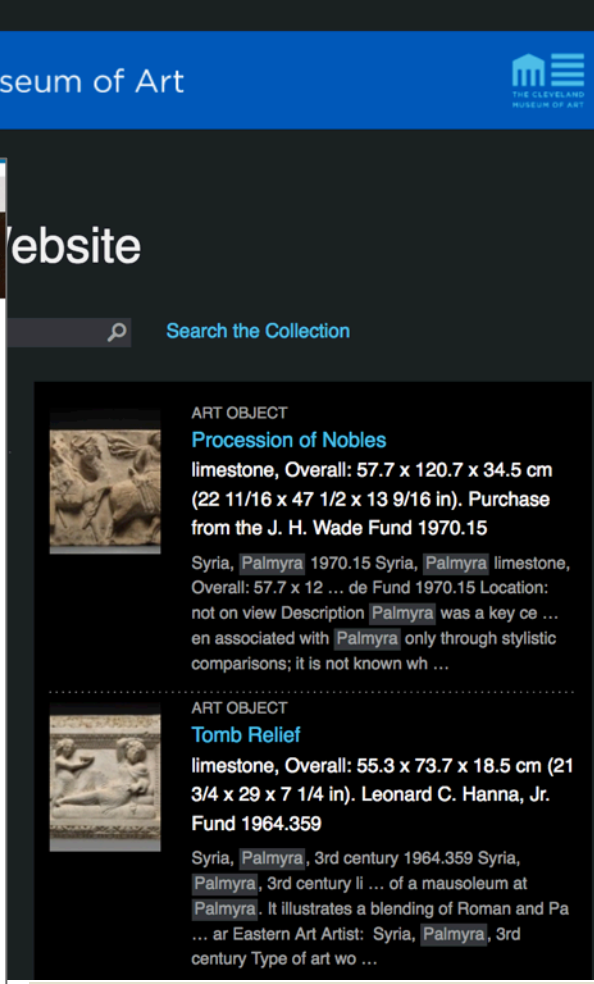


Image source: Screen captured from searching http://www.clevelandart.org/art/collections

Image source: Screen captured from searching http://www.europeana.eu/portal/en

Image source: Screen captured from searching http://www.metmuseum.org/art/collection/search

“Dunhuang”

Europeana:

MET:

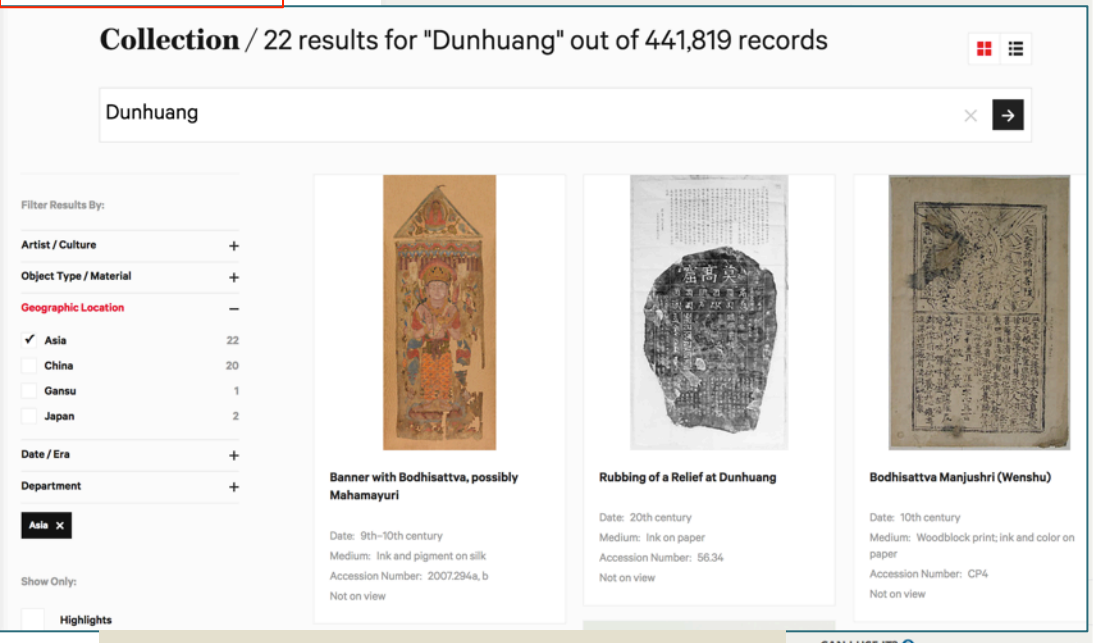


Image source: Screen captured from searching http://www.metmuseum.org/art/collection/search

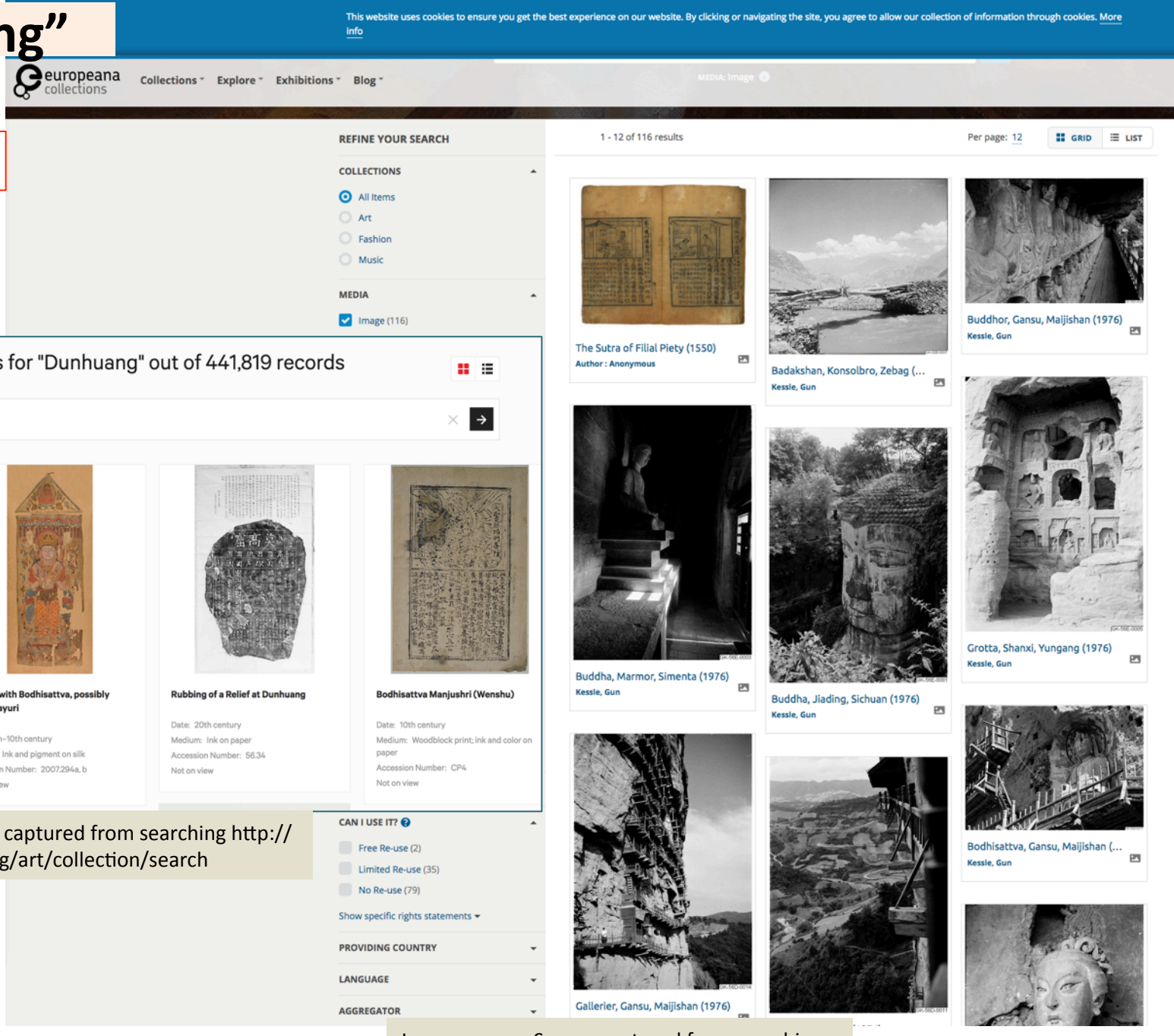


Image source: Screen captured from searching http://www.europeana.eu/portal/en

… or connect with Wikepedia or Google Arts & Culture (which features content from over 1200 leading museums and archives)

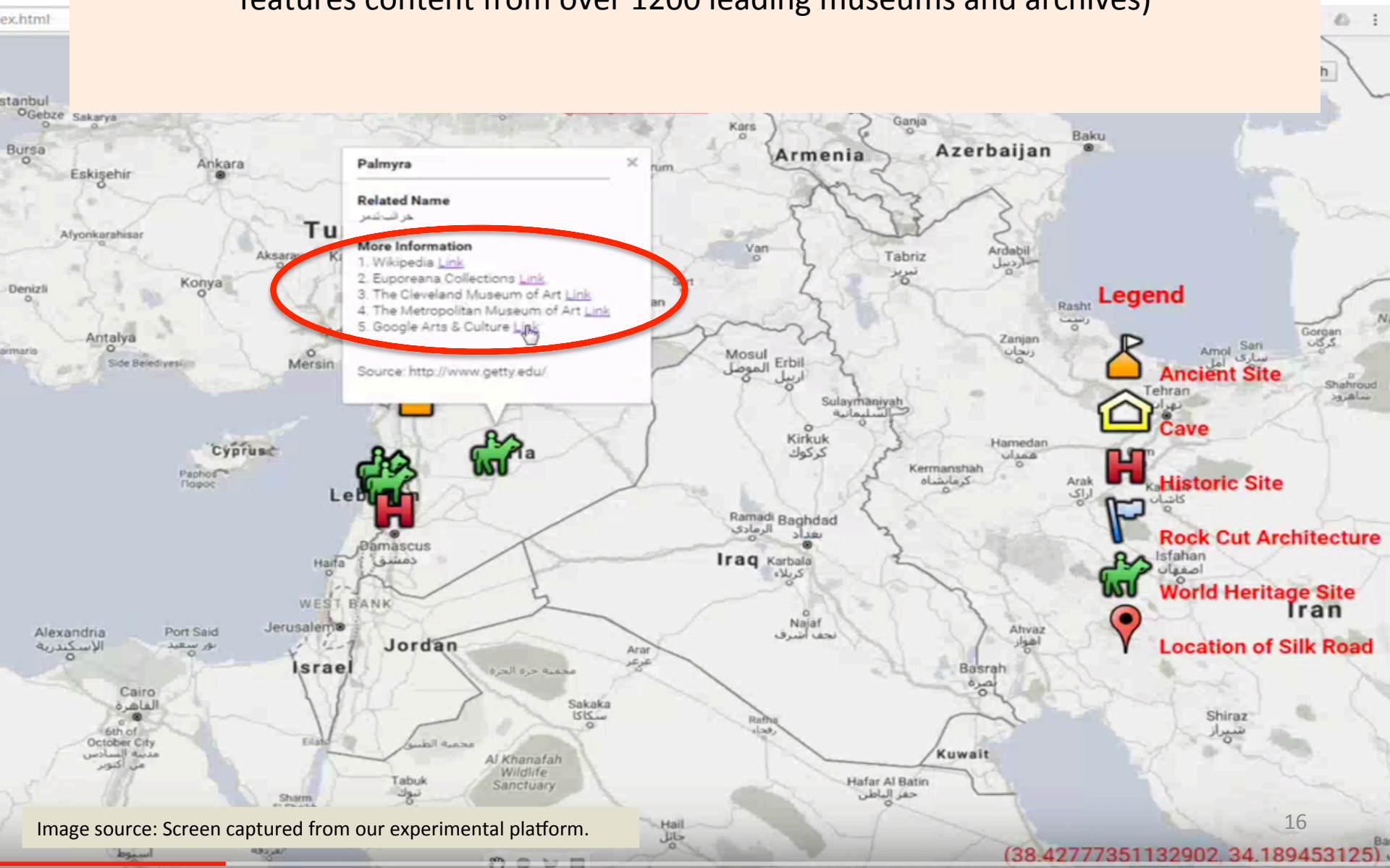


Image source: Screen captured from our experimental platform.

Google Arts & Culture

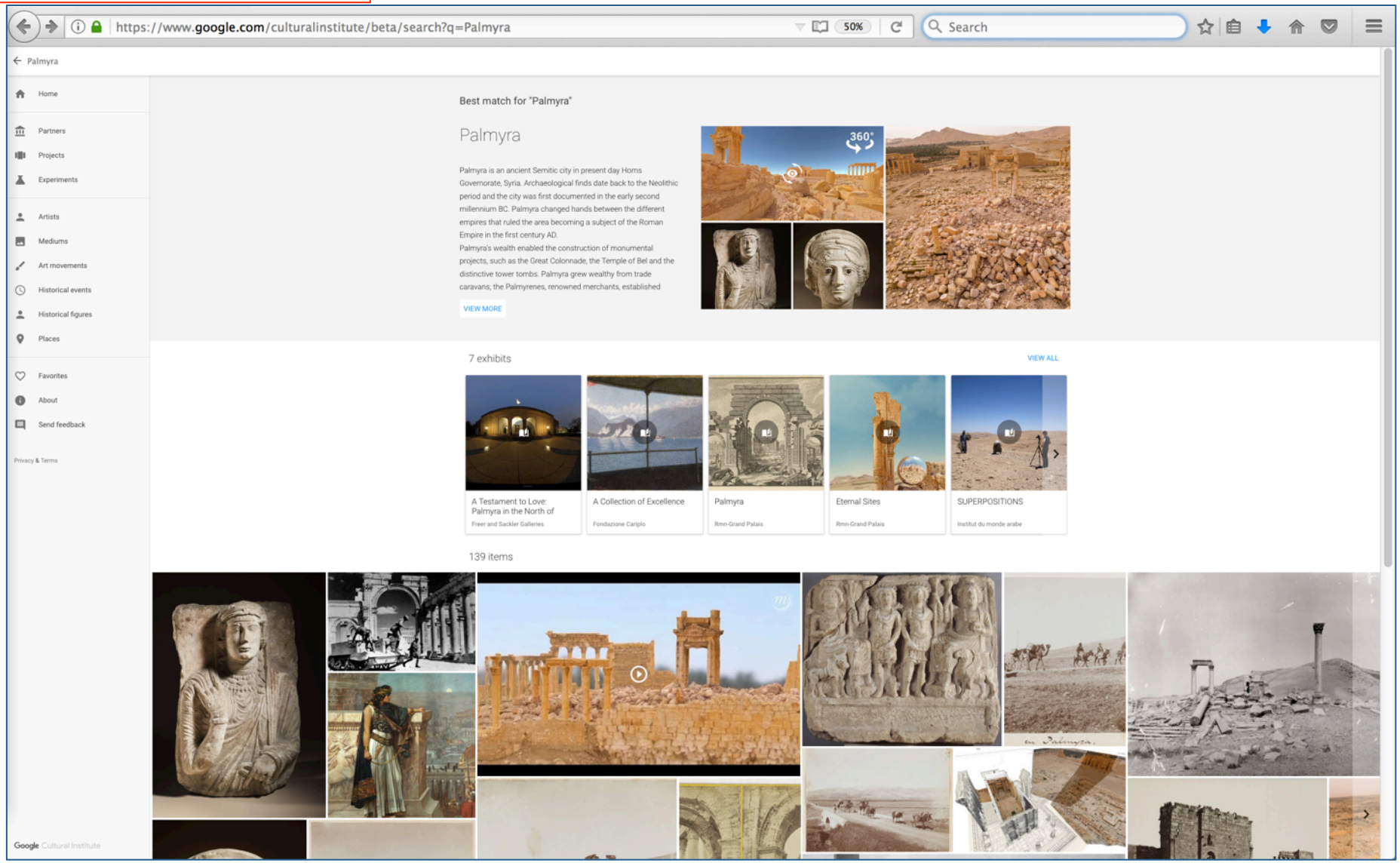


Image source: Screen captured from https://www.google.com/culturalinstitute/beta/search/?q=Palmyra

Google Arts & Culture

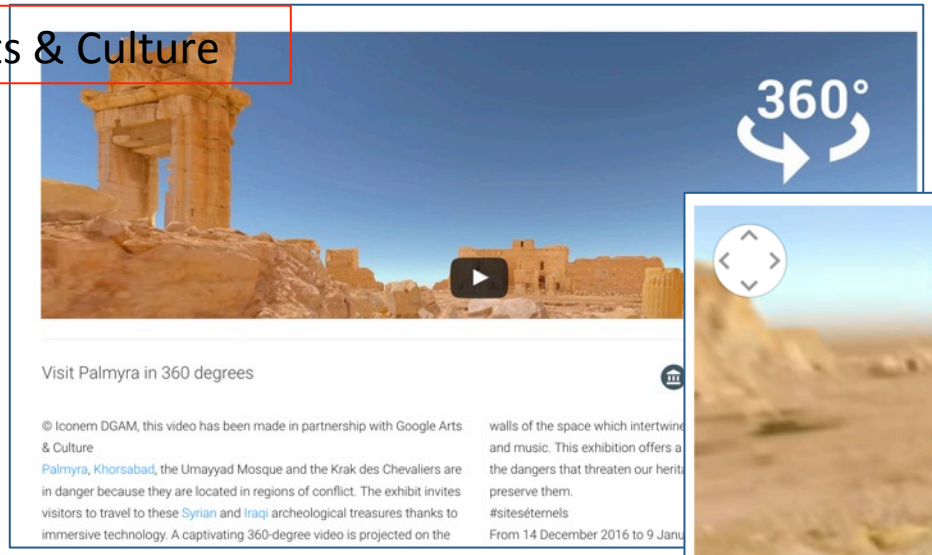


Image source: https://www.google.com/culturalinstitute/beta/asset/visit-palmyra-in-360-degrees/NwF-s44E5l-rQg

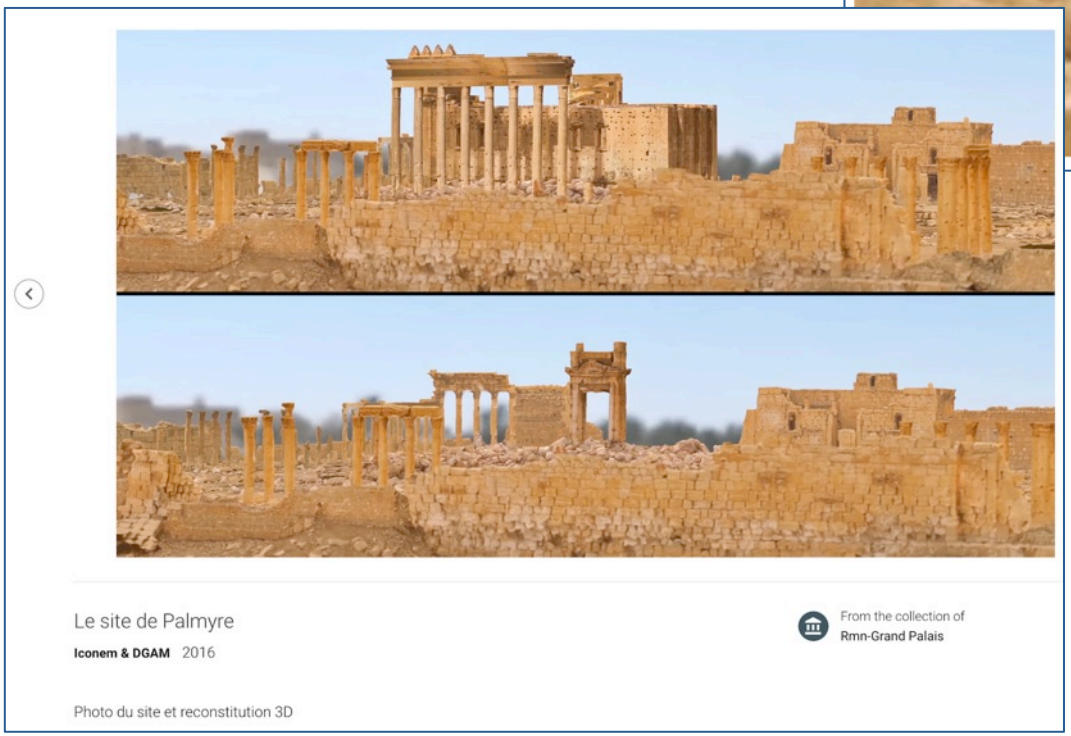


Image source: https://www.google.com/culturalinstitute/beta/asset/le-site-de-palmyre/qAFluUwVe880Mg

Procedures (for example 2)

(1) Obtain the "Silk Road" **ID** from TGN;

(2) Using the **ID** to request through Getty Vocabularies Web Services **API**s* to get data of locations related to the "Silk Road"; obtain the datasets in XML format;

(3) Extract *preferred name, non-prefer name, type of place*, and *Coordinates* from **XML file**; store data in the **PostgreSQL** spatial database;

(4) Present data on and interact with the defined geographical area on the map using **Google Map API**.

*The data files may be accessed through Web services APIs (application programming interfaces), which provide access to data that is refreshed every two weeks. Note that the data is subject to frequent additions and updates.

Example 3
Find certain place types around the Silk Road through a LOD Sparql Query platform
http://vocab.getty.edu/

Hierarchical Position:

- World (facet)
- .... Asia (continent) (P)
- ..... China (nation) (P)
- ..... Gansu (province) (P)
- ..... Mogao Caves (ancient site) (P)

Place Types:

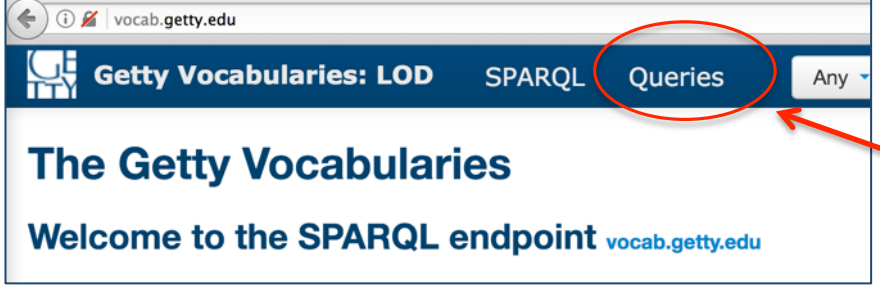
ancient site (**preferred**, C)
rock-cut architecture (C)
World Heritage Site (C)
historic site (C)
caves (C)

All these place types are defined in the Getty Art and Architecture Thesaurus (AAT)

I would like to get something like "caves on or around the Silkroad", or, "UNESCO Heritage sites on or around the Silkroad".

ancient sites aat:300387007
rock-cut architecture aat:300008031
World Heritage Sites aat:300263063
historic sites aat:300000833
caves aat:300008746

1 Go to:
http://vocab.getty.edu/



2 Choose “Queries”

vocab.getty.edu/queries#Places_by_Type_Within_Bounding_Box

Getty Vocabularies: LOD SPARQL Queries Any Search... Search Brief

3.13 OpenRefine Reconciliation Service
3.14 Smart Resource Title
4 TGN-Specific Queries
4.1 Places by Type
4.2 Places, with English or GVP Label
4.3 Places by Direct and Hierarchical Type
4.4 Breakdown of Sovereign States by Type
4.5 Inhabited Places That Were Sovereign States
4.6 Places by Type and Parent Place
4.7 Places by Type, with placeTypePreferred
4.8 Places by Triple FTS
4.9 Places by FTS Parents
4.10 Capitals by Association
4.11 Members of the European Union
4.12 Members of the United Nations
4.13 Geo Chart with sgvizler
4.14 Column Chart with sgvizler
4.15 Countries and Capitals By Type and Containment
4.16 Places by Coordinate Bounding Box
4.17 Places Within Bounding Box
4.18 Places by Type Within Bounding Box
4.19 Places Outside Bounding Box (Overseas Possessions)
4.20 Places Nearby Each Other
5 ULAN-Specific Queries
5.1 Agents by Type
5.2 Associative Relations of Agent
5.3 Female Artists

3

Query:

```
1 prefix ontogeo: <http://www.ontotext.com/owlim/geo#>
2 select distinct * {
3   ?place skos:inScheme tgn: ;
4     gvp:placeType|(gvp:placeType/gvp:broaderGenericExtended) [rdfs:label "caves"@e
5     foaf:focus [ontogeo:within(24.75083 28.95778 43.80722 108.92861)];
6     gvp:prefLabelGVP [xl:literalForm ?name];
7     gvp:parentString ?parents}
```

Include inferred

Expand results over equivalent URIs

Submit

4.18 Places by Type Within Bounding Box

Let's specialize the previous query and look for castles around The Netherlands, we get 170:

SPARQL

```
prefix ontogeo: <http://www.ontotext.com/owlim/geo#>
select distinct * {
  ?place skos:inScheme tgn: ;
    gvp:placeType|(gvp:placeType/gvp:broaderGenericExtended) [rdfs:label "castles (fortifications)"@en];
    foaf:focus [ontogeo:within(50.787185 3.389722 53.542265 7.169019)];
    gvp:prefLabelGVP [xl:literalForm ?name];
    gvp:parentString ?parents}
```

4

Query a specific place type (e.g., caves) in a geographic boundary

5 Replace the place type you choose, put your geo coordinators

Place Types:

ancient site (**preferred**, C)
rock-cut architecture (C)
World Heritage Site (C)
historic site (C)
caves (C)

Related geographic places:

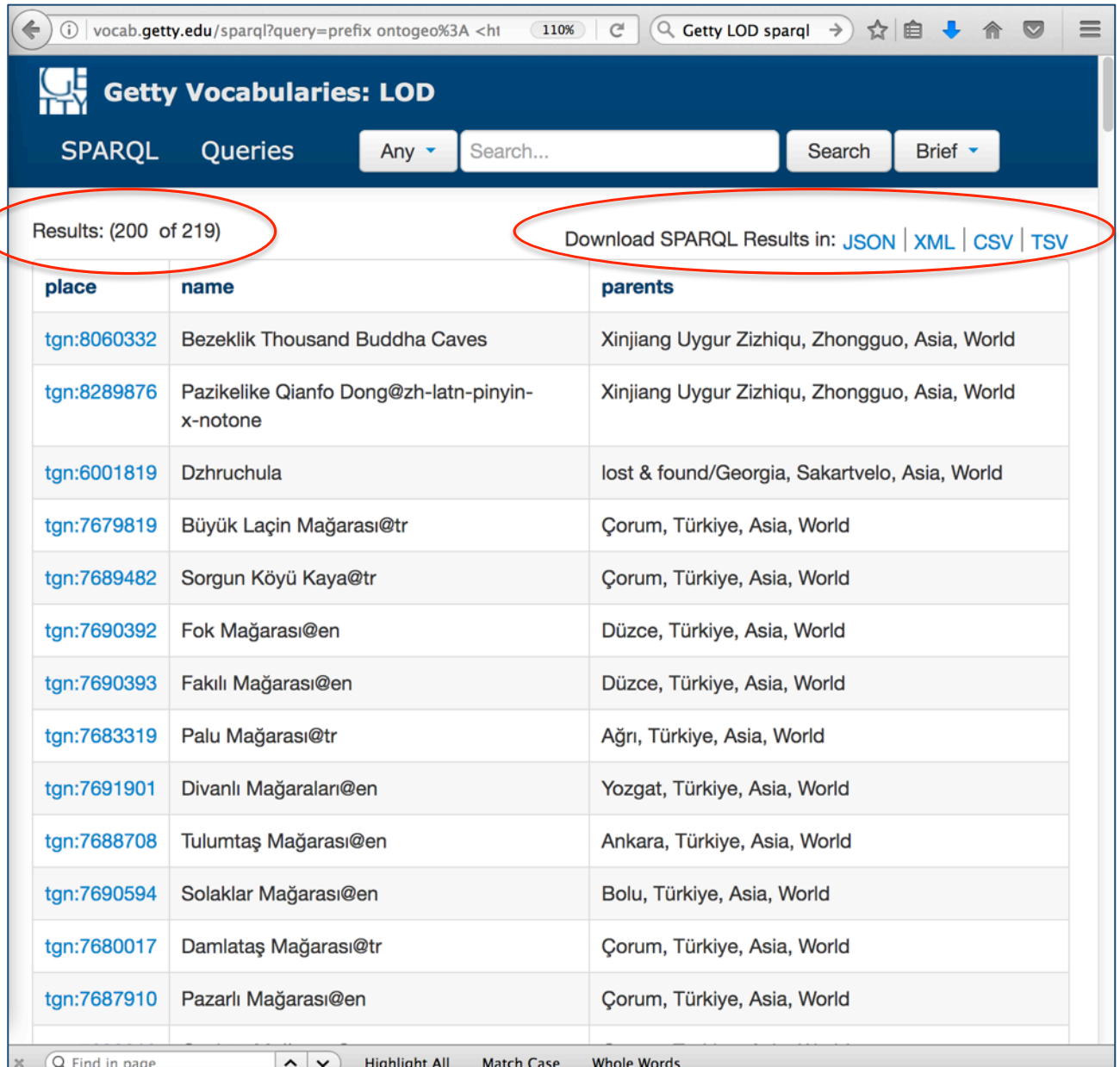
located on .... **Silk Road** ..... (road)
..... (World) [7031416]
near/adjacent to .... **Dunhuang** ..... (inhabited place)
..... (World, Asia, China, Gansu province) [7001969]

```
select distinct * {
  ?place skos:inScheme tgn: ;
    gvp:placeType|(gvp:placeType/gvp:broaderGenericExtended)
[rdfs:label "caves"@en];
    foaf:focus [ontogeo:within(24.75083 28.95778 43.80722
108.92861)];
    gvp:prefLabelGVP [xl:literalForm ?name];
    gvp:parentString ?parents}
```

Query a specific place type (e.g., caves) in a geographic boundary

Got the results & downloadable datasets:

6



place	name	parents
tgn:8060332	Bezeklik Thousand Buddha Caves	Xinjiang Uygur Zizhiqu, Zhongguo, Asia, World
tgn:8289876	Pazikelike Qianfo Dong@zh-latn-pinyin-x-notone	Xinjiang Uygur Zizhiqu, Zhongguo, Asia, World
tgn:6001819	Dzhruchula	lost & found/Georgia, Sakartvelo, Asia, World
tgn:7679819	Büyük Laçin Mağarası@tr	Çorum, Türkiye, Asia, World
tgn:7689482	Sorgun Köyü Kaya@tr	Çorum, Türkiye, Asia, World
tgn:7690392	Fok Mağarası@en	Düzce, Türkiye, Asia, World
tgn:7690393	Fakılı Mağarası@en	Düzce, Türkiye, Asia, World
tgn:7683319	Palu Mağarası@tr	Ağrı, Türkiye, Asia, World
tgn:7691901	Divanlı Mağaraları@en	Yozgat, Türkiye, Asia, World
tgn:7688708	Tulumtaş Mağarası@en	Ankara, Türkiye, Asia, World
tgn:7690594	Solaklar Mağarası@en	Bolu, Türkiye, Asia, World
tgn:7680017	Damlataş Mağarası@tr	Çorum, Türkiye, Asia, World
tgn:7687910	Pazarlı Mağarası@en	Çorum, Türkiye, Asia, World

Caves within(24.75083 28.95778 43.80722 108.92861)

Query a specific place type (e.g., World Heritage Sites) in a geographic boundary .

Got the results & downloadable datasets:

World Heritage Sites within (24.75083 28.95778 43.80722 108.92861)

SPARQL Queries

Any | Search... | Search | Brief

Results: (32)

Download SPARQL Results in: JSON | XML | CSV | TSV

place	name	parents
tgn:7059176	Mausoleum of Khoja Ahmed Yasawi	Ongtüstik Qazaqstan, Qazaqstan,
tgn:1056987	Mtskheta	Mtskheta Mtianeti, Sakartvelo, Asia
tgn:7032530	Aramus	Kotayk', Hayastan, Asia, World
tgn:7032531	Zart'onk'	Armavir, Hayastan, Asia, World
tgn:4004270	Geghard	Kotayk', Hayastan, Asia, World
tgn:1054029	Qobustan	Bakı, Azərbaycan, Asia, World
tgn:7029798	Qianfodong@zh-latn-pinyin-x-notone	Gansu, Zhongguo, Asia, World
tgn:7059150	Sulaiman-Too	Osh, Kyrgyzstan, Asia, World
tgn:1100582	Humayun's Tomb	Delhi, Bhārat, Asia, World
tgn:6003937	Mohenjo-Daro	Sindh, Pākistān, Asia, World
tgn:7032815	Rummin-dei	Lumbinī, Nepāl, Asia, World
tgn:7032812	Kathmandu Valley	Nepāl, Asia, World
tgn:4011486	Um er-Rasas	Al ‘Āṣimah, Al Urdun, Asia, World
tgn:7001309	Abū Mīnā@en	Al Gharbīyah, Miṣr, Africa, World
tgn:7002856	Baalbek	Baalbek-Hermel, Lubnān, Asia, Wo
tgn:7032896	Tchogha Zanbil	Khūzestān, Īrān, Asia, World
tgn:7002862	Tyre@en	Liban-Sud, Lubnān, Asia, World
tgn:7059151	Aanjar	Béqaa, Lubnān, Asia, World
tgn:7016516	Jubayl	Mont-Liban, Lubnān, Asia, World
tgn:6005850	Taxila@en	Punjab, Pākistān, Asia, World
tgn:7059152	Wādī Qādīshā	Lubnān, Asia, World
tgn:1103449	Arz Lebnâne	Liban-Nord, Lubnān, Asia, World
tgn:7032332	Minaret of Jam	Ghōr, Afghānestān, Asia, World
tgn:7018835	Palmyra	Ḥimş, Sūrīyah, Asia, World
tgn:7002383	Petra	Ma‘ān, Al Urdun, Asia, World
tgn:7002205	Takht-e Jamshīd	Fārs, Īrān, Asia, World
tgn:7001297	Thebes@en	Qinā, Miṣr, Africa, World
tgn:7032359	Qal‘at al ‘Ajāj	Al Baḥrayn, Asia, World
tgn:6003070	Choirokoitia	Lemesós, Kypriakí Dimokratía, Asia, World
tgn:7012244	Merv	Mary, Türkmenistan, Asia, World
tgn:6000442	Kharā’ib al Ashūrīyīn@ar-latn	Şalāḥ ad Dīn, Al-‘Irāq, Asia, World
tgn:6000612	Bāmyān	Bāmyān, Afghānestān, Asia, World

Summary

1. Learn through TGN Website
   http://www.getty.edu/research/tools/vocabularies/tgn/
   (Anyone can do!)
2. Following these geographic places located on the Silk Road, using the geo- coordinators TGN provided, get them on the map (through TGN's API)*.
   (Need someone who can play with API and write a little bit Java.)
   - The APIs are available to any institution having a login, which may be obtained by writing to vocab@getty.edu. See details in the Web Services User's Instructions (PDF).
3. Find certain place types around the Silk Road through a LOD Sparql Query platform
   http://vocab.getty.edu/
   (Anyone can use the template to query; follow our simple demos; some knowledge of SPARQL queries will be ideal.)

*The data files may be accessed through Web services APIs (application programming interfaces), which provide access to data that is refreshed every two weeks. Note that the data is subject to frequent additions and updates.