

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

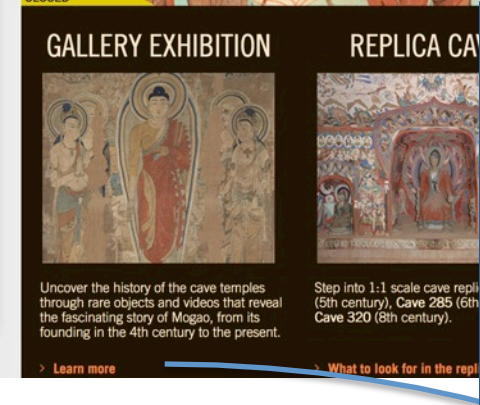
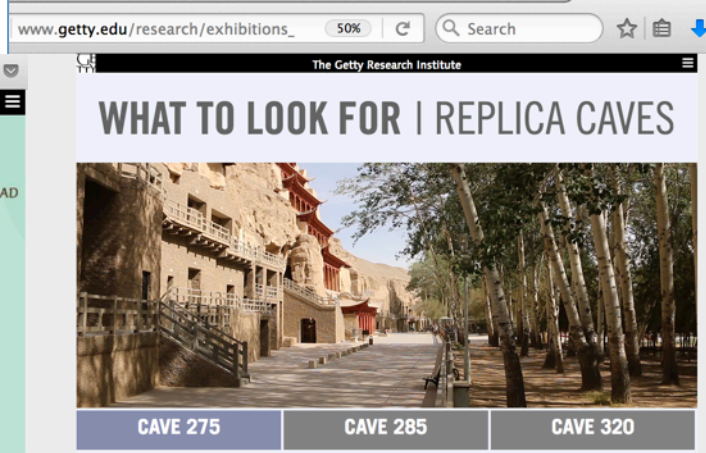
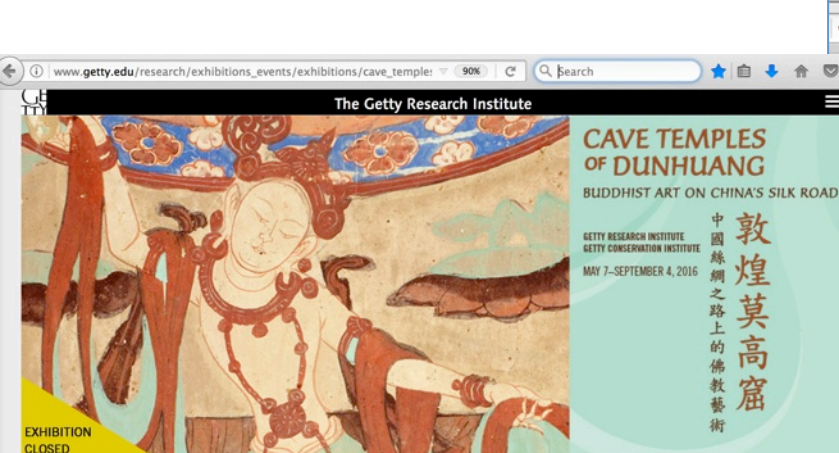
**Marcia Lei Zeng  
& Tao Hu**

Kent State University, USA

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



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



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 through the Getty Thesaurus of Geographic Names (TGN).



[http://www.getty.edu/research/exhibitions\\_events/exhibitions/cave\\_temples\\_dunhuang/index.html](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](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 on the shape of a horn or an animal's head, and were typically used as a drinking cup another vessel. Drinking was done by holding the rhyton above the drinker's head 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)
- rhúton** (C,U,Dutch-P,D,U,U)
- rytons** (C,U,Dutch,AD,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)
- ritón** (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, werf of om wijn in een ander vat te gieten.
- Spanish** .... Referirse a vasijas de la Antigua Grecia, Europa del Este, o del son cerradas pero con dos aberturas, una en el extremo superior para poder para que el líquido pudiera salir. A menudo tienen la forma de un cuerno o t 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 consuming Equipment (Hierarchy Name) [300043229]
- distinguished from **stirrup cups**
- ..... (drinking vessels, <vessels for serving and consuming Equipment (Hierarchy Name) [300197140]
- distinguished from **sturzbechers**
- ..... (beakers (drinking vessels), drinking vessels, ... Furni Name) [300197148]

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1 HTML

2 XML

3 RDF

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skos:note	Referirse 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 en el menudo tienen la forma de un cuerno o una cabeza de animal y eran por lo para vaciar vino en otras vasijas.
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# Example 1

## Learn through TGN Website

### 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)
- Chenfadun** (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)

“Mogao Caves” =>  
 “Related geographic places”  
 located on .... “Silk Road”

#### 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]





ID: 7031416

### Silk Road (road)

**Note:** Ancient trade route and caravanserai between China, the Middle East, and the northwest, bypassed the Takla Makan Desert in Afghanistan, and went on to the Levant and the Mediterranean Sea. Few persons travelled the entire route in the 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 ... **Aleppe** ..... (World, Asia, Syria) [7002264]
- is location of ... **Almaty** ..... (World, Asia, Kazakhstan) [7002264]
- is location of ... **Al-Mawşil** ..... (World, Asia, Iraq) [7002264]
- is location of ... **Andijon** ..... (World, Asia, Uzbekistan) [7002264]
- is location of ... **Anxi** ..... (World, Asia, China) [7002264]
- is location of ... **Ar Raqqah** ..... (World, Asia, Iraq) [7002264]
- is location of ... **Baghdad** ..... (World, Asia, Iraq) [7002264]
- is location of ... **Balkh** ..... (World, Asia, Afghanistan) [7002264]
- is location of ... **Bamiyan** ..... (World, Asia, Afghanistan) [7002264]
- is location of ... **Bamiyan Valley** ..... (World, Asia, Afghanistan) [7002264]
- is location of ... **Bezeklik Thousand** ..... (World, Asia, China) [7002264]
- is location of ... **Bisotūn** ..... (World, Asia, Iran) [7002264]
- is location of ... **Bukhara** ..... (World, Asia, Uzbekistan) [7002264]
- is location of ... **Bursa** ..... (World, Asia, Turkey) [7002264]
- is location of ... **Chardzhou** ..... (World, Asia, Turkmenistan) [7002264]
- is location of ... **Ctesiphon** ..... (World, Asia, Iraq) [7002264]
- is location of ... **Damascus** ..... (World, Asia, Syria) [7002264]
- is location of ... **Dānghān** ..... (World, Asia, Iran) [7002264]
- is location of ... **Debal** ..... (World, Asia, Pakistan) [7002264]
- is location of ... **Dunhuang** ..... (World, Asia, China) [7002264]
- is location of ... **Endere** ..... (World, Asia, China) [7002264]
- is location of ... **Fergana Valley** ..... (World, Asia, Uzbekistan) [7002264]
- is location of ... **Gaochang** ..... (World, Asia, China) [7002264]
- is location of ... **Guma** ..... (World, Asia, China) [7002264]
- is location of ... **Guozhen** ..... (World, Asia, China) [7002264]
- is location of ... **Hamadān** ..... (World, Asia, Iran) [7002264]
- is location of ... **Herāt** ..... (World, Asia, Afghanistan) [7002243]
- is location of ... **Hims** ..... (World, Asia, Syria) [7002264]
- is location of ... **Istanbul** ..... (World, Asia, Turkey) [7002473]

#### Record Terms Administ

- is location of ... **Jaisalmer** ..... (World, Asia, India) [7001569]
- is location of ... **Jiaohe** ..... (World, Asia, China) [8060343]
- is location of ... **Jiayuguan** ..... (World, Asia, China) [8060343]
- is location of ... **Jiayu Pass** ..... (World, Asia, China) [8060343]
- is location of ... **Kābul** ..... (World, Asia, Afghanistan) [7002264]
- is location of ... **Kandahar** ..... (World, Asia, Afghanistan) [7002264]
- is location of ... **Kashi** ..... (World, Asia, China) [7002264]
- is location of ... **Kermānshāh** ..... (World, Asia, Iran) [7002264]
- is location of ... **Khujand** ..... (World, Asia, Tajikistan) [7002264]
- is location of ... **Kokand** ..... (World, Asia, Uzbekistan) [7002264]
- is location of ... **Konya** ..... (World, Asia, Turkey) [7002264]
- is location of ... **Kucha** ..... (World, Asia, China) [7002264]
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- is location of ... **Kyōngju** ..... (World, Asia, North Korea) [7002264]
- is location of ... **Lanzhou** ..... (World, Asia, China) [7001874]
- is location of ... **Laochengli** ..... (World, Asia, China) [7002264]
- is location of ... **Leh** ..... (World, Asia, India) [7001569]
- is location of ... **Lhasa** ..... (World, Asia, China, Tibet) [7001874]
- is location of ... **Liqian** ..... (World, Asia, China, Gansu province) [8060328]
- is location of ... **Loulan Yiji** ..... (World, Asia, China, Xinjiang) [6003517]
- is location of ... **Mashhad** ..... (World, Asia, Iran, Khorāsān-e Razavī) [7002243]

- is location of ... (inhabited place) [7001569]
- is location of ... **Merv** ..... (deserted settlement) [7012244]
- is location of ... **Miran** ..... (inhabited place) [8060343]
- is location of ... **Mogao Caves** ..... (ancient site) [7029798]
- is location of ... **Mudurnu** ..... (inhabited place) [1086703]
- is location of ... **Multān** ..... (inhabited place) [7002481]
- is location of ... **Nisa** ..... (deserted settlement) [7032028]
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- is location of ... **Shache** ..... (inhabited place) [7002000]
- is location of ... **Patna** ..... (inhabited place) [1051509]
- is location of ... **Shahrisabz** ..... (inhabited place) [1051509]
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- is location of ... **Taxila** ..... (deserted settlement) [6005850]
- is location of ... **Qazvin** ..... (inhabited place) [6005850]
- is location of ... **Trabzon** ..... (inhabited place) [7002631]
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- is location of ... **Turfan Depression** ..... (depression) [1103342]
- is location of ... **Türkistan** ..... (inhabited place) [1060525]
- is location of ... **Qincheng** ..... (inhabited place) [1060525]
- is location of ... **Tyre** ..... (inhabited place) [7002862]
- is location of ... **Qinguan** ..... (inhabited place) [7002862]
- is location of ... **Ura-Tyube** ..... (inhabited place) [1060686]
- is location of ... **Urumqi** ..... (inhabited place) [7001978]
- is location of ... **Qetta** ..... (inhabited place) [7001978]
- is location of ... **Tūs** ..... (inhabited place) [6006159]
- is location of ... **Qumis** ..... (inhabited place) [6006159]
- is location of ... **Vārānasi** ..... (inhabited place) [7001509]
- is location of ... **Wensu** ..... (inhabited place) [7001746]
- is location of ... **Wuwei** ..... (inhabited place) [7018821]
- is location of ... **Xibeijie** ..... (inhabited place) [7018821]
- is location of ... **Yangguan** ..... (pass) [7001782]
- is location of ... **Yanguan** ..... (pass) [8060344]
- is location of ... **Yanqi** ..... (inhabited place) [7008917]
- is location of ... **Yazd** ..... (inhabited place) [7002173]
- is location of ... **Yumenguan** ..... (pass) [6006648]
- is location of ... **Zhangye** ..... (inhabited place) [7001844]

Learn from these entities through TGN, one by one

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, Iran, Khorāsān-e Razavī) [7002095]  
is location of .... **Niya** ..... (inhabited place)  
..... (World, Asia, China, Xinjiang) [1070479]  
is location of .... **Niya** ..... (deserted settlement)  
..... (World, Asia, China, Xinjiang) [8060339]  
is location of .... **Palmyra** ..... (deserted settlement)  
..... (World, Asia, Syria, Hims) [7018835]  
is location of .... **Patna** ..... (inhabited place)  
..... (World, Asia, India, Bihār state) [7001575]  
is location of .... **Peshāwar** ..... (inhabited place)  
..... (World, Asia, Pakistan, Northwest Frontier) [7002453]  
is location of .... **Pushkalavati** ..... (ancient site)  
..... (World, Asia, Pakistan, Northwest Frontier) [8060349]  
is location of .... **P'yŏngyang** ..... (inhabited place)  
..... (World, Asia, North Korea, P'yŏngyang) [7001329]  
is location of .... **Qazvīn** ..... (inhabited place)  
..... (World, Asia, Iran, Qazvīn) [1079247]  
is location of .... **Qiemo** ..... (inhabited place)  
..... (World, Asia, China, Xinjiang) [7018010]  
is location of .... **Qincheng** ..... (inhabited place)  
..... (World, Asia, China, Gansu province) [7018061]  
is location of .... **Qingquan** ..... (inhabited place)  
..... (World, Asia, China, Gansu province) [1071417]  
is location of .... **Quetta** ..... (inhabited place)  
..... (World, Asia, Pakistan, Balochistān) [7002461]  
is location of .... **Qumis** ..... (deserted settlement)  
..... (World, Asia, Iran, Semnān) [7016671]





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[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)
- ..... Hims (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, Hims) [7032452]

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

If you want to download the dataset →

# Palmyra

Source: <http://vocab.getty.edu/tgn/7018835>

Subject Predicate Object **All (83)**

Website Hierarchy Download in: JSON JSONLD RDF N3/Turtle N-Triples

Inference Implicit only

Statements in which the resource exists.

Subject	Predicate	Object
tgn:7018835	rdf:type	<a href="#">gvp:Subject</a>
tgn:7018835	rdf:type	<a href="#">skos:Concept</a>
tgn:7018835	rdfs:label	Palmyra
tgn:7018835	rdfs:label	Tadmor
tgn:7018835	rdfs:label	Palmira
tgn:7018835	rdfs:label	Tadmur
tgn:7018835	rdfs:label	Palmyre
tgn:7018835	rdfs:label	Tamar

Download the dataset

18835	rdfs:label	Tamar
18835	rdfs:label	Kharā'ib Tadmur
18835	rdfs:label	Tadmor
18835	rdfs:label	تدمر
18835	rdfs:label	Tabmur
18835	rdfs:label	Tudmur
18835	rdfs:label	خرائب تدمر
18835	gvp:broader	<a href="#">tgn:1002054</a>
18835	gvp:broaderPartitiveExtende...	<a href="#">tgn:6000039</a>
18835	gvp:broaderPartitiveExtende...	<a href="#">tgn:1000004</a>
18835	gvp:broaderPartitiveExtende...	<a href="#">tgn:1002054</a>
tgn:7018835	gvp:broaderPartitiveExtende...	<a href="#">tgn:7001526</a>
tgn:7018835	gvp:broaderPartitiveExtende...	<a href="#">tgn:1000140</a>
tgn:7018835	gvp:broaderPartitiveExtende...	<a href="#">tgn:7029392</a>
tgn:7018835	gvp:broaderExtended	<a href="#">tgn:6000039</a>
tgn:7018835	gvp:broaderExtended	<a href="#">tgn:1000004</a>



Download the dataset

vocab.getty.edu/tgn/7029798?inference=implicit

# Mogao Caves

Source:<http://vocab.getty.edu/tgn/7029798>

Inference

- Explicit and implicit
- Explicit only
- Implicit only

**Subject (121)** | Predicate | Object | All

Statements in which

Predicate	Object
rdf:type	<a href="#">gvp:Subject</a> , <a href="#">skos:Concept</a>
rdfs:label	Caves of the Thousand Buddhas@en, Ch'ien-fo-tung@zh-latn, Mogao Caves@en, Mogao Grottoes@en, Mogao Ku@zh-latn, Qianfudong@zh-latn, Shibendin@zh-latn
<a href="#">gvp:broader</a>	<a href="#">tgn:1001261</a>
<a href="#">gvp:broaderPartitiveExtended</a>	<a href="#">tgn:1000004</a> , <a href="#">tgn:1000111</a> , <a href="#">tgn:1001261</a> , <a href="#">tgn:7029798</a>
<a href="#">gvp:broaderExtended</a>	<a href="#">tgn:1000004</a> , <a href="#">tgn:1000111</a> , <a href="#">tgn:1001261</a> , <a href="#">tgn:7029798</a>
<a href="#">gvp:broaderPreferredExtended</a>	<a href="#">tgn:1000004</a> , <a href="#">tgn:1000111</a> , <a href="#">tgn:1001261</a> , <a href="#">tgn:7029798</a>
skos:note	<a href="#">tgn_rev:5004590598</a> , <a href="#">tgn_rev:5004590599</a> , <a href="#">tgn_rev:5004590609</a> , <a href="#">tgn_rev:5004602784</a> , <a href="#">tgn_rev:5004602785</a>

<a href="#">gvp:placeType</a>	<a href="#">aat:300000833</a> , <a href="#">aat:300008031</a> , <a href="#">aat:300008746</a> , <a href="#">aat:300263063</a> , <a href="#">aat:300387007</a>
<a href="#">dcterms:replaces</a>	<a href="#">tgn:7030168</a>
<a href="#">skos:prefLabel</a>	Mogao Caves@en, 莫高窟@zh
<a href="#">skos:altLabel</a>	Caves of the Thousand Buddhas@en, Ch'ien-fo-tung@zh-latn, Ch'ien-fu-tung@zh-latn, Ch'ien-fu-tung-miao@zh-latn, Chenfudun@zh-latn, Mogao, Mogao Grottoes@en, Mogao Ku, Mogao ku@zh-latn, Mokao Grottoes@en, Mògāo kū@zh-latn-pinyin, Qianfodong@zh-latn-pinyin-x-notone, Qianfudong@zh-latn, Shibendin@zh-latn, Thousand Buddah Grottoes@en, Thousand Buddhas, Caves of the@en, 千佛洞@zh
<a href="#">skos:broader</a>	<a href="#">tgn:1001261</a>
<a href="#">iso-thes:broaderPartitive</a>	<a href="#">tgn:1001261</a>
<a href="#">skos:related</a>	<a href="#">tgn:7031416</a>
<a href="#">skos:broaderTransitive</a>	<a href="#">tgn:1000004</a> , <a href="#">tgn:7031110</a> , <a href="#">tgn:1001261</a> , <a href="#">tgn:1000111</a>

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

**ID: 7031416**

**Silk Road (road)**

**Note:** Ancient trade route and caravanserai between China, the Middle East, and the Mediterranean, bypassed the Tianshan Mountains of northern Afghanistan, and went on to the Red Sea. Few persons travelled the entire route.

**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 ... **Aleppe** ..... (World, Asia, Syria, Aleppo) [7002264]
- is location of ... **Almaty** ..... (World, Asia, Kazakhstan, Almaty) [7002264]
- is location of ... **Al-Mawşil** ..... (World, Asia, Iraq, Al-Mawşil) [7002264]
- is location of ... **Andijon** ..... (World, Asia, Uzbekistan, Andijon) [7002264]
- is location of ... **Anxi** ..... (World, Asia, China, Xinjiang) [7002264]
- is location of ... **Ar Raqqah** ..... (World, Asia, Iraq, Ar Raqqah) [7002264]
- is location of ... **Baghdad** ..... (World, Asia, Iraq, Baghdad) [7002264]
- is location of ... **Balkh** ..... (World, Asia, Afghanistan, Balkh) [7002264]
- is location of ... **Bamiyan** ..... (World, Asia, Afghanistan, Bamiyan) [7002264]
- is location of ... **Bamiyan Valley** ..... (World, Asia, Afghanistan, Bamiyan Valley) [7002264]
- is location of ... **Bezeklik Thousand** ..... (World, Asia, China, Xinjiang) [7002264]
- is location of ... **Bisotūn** ..... (World, Asia, Iran, Bisotūn) [7002264]
- is location of ... **Bukhara** ..... (World, Asia, Uzbekistan, Bukhara) [7002264]
- is location of ... **Bursa** ..... (World, Asia, Turkey, Bursa) [7002264]
- is location of ... **Chardzhou** ..... (World, Asia, Turkmenistan, Chardzhou) [7002264]
- is location of ... **Ctesiphon** ..... (World, Asia, Iraq, Ctesiphon) [7002264]
- is location of ... **Damascus** ..... (World, Asia, Syria, Damascus) [7002264]
- is location of ... **Dānghān** ..... (World, Asia, Iran, Dānghān) [7002264]
- is location of ... **Debal** ..... (World, Asia, Pakistan, Debal) [7002264]
- is location of ... **Dunhuang** ..... (World, Asia, China, Dunhuang) [7002264]
- is location of ... **Endere** ..... (World, Asia, China, Xinjiang) [7002264]
- is location of ... **Fergana Valley** ..... (World, Asia, Uzbekistan, Fergana Valley) [7002264]
- is location of ... **Gaochang** ..... (World, Asia, China, Xinjiang) [7002264]
- is location of ... **Guma** ..... (World, Asia, China, Xinjiang) [7002264]
- is location of ... **Guozhen** ..... (World, Asia, China, Xinjiang) [7002264]
- is location of ... **Hamadān** ..... (World, Asia, Iran, Hamadān) [7002264]
- is location of ... **Herāt** ..... (World, Asia, Afghanistan, Herāt) [7002243]
- is location of ... **Hims** ..... (World, Asia, Syria, Hims) [7002264]
- is location of ... **Istanbul** ..... (World, Asia, Turkey, İstanbul) [7002473]

is location of ...	<b>Bamiyan</b> ..... (World, Asia, Afghanistan, Bamiyan) [7002264]
is location of ...	<b>Bamiyan Valley</b> ..... (World, Asia, Afghanistan, Bamiyan Valley) [7002264]
is location of ...	<b>Bezeklik Thousand</b> ..... (World, Asia, China, Xinjiang) [7002264]
is location of ...	<b>Bisotūn</b> ..... (World, Asia, Iran, Bisotūn) [7002264]
is location of ...	<b>Bukhara</b> ..... (World, Asia, Uzbekistan, Bukhara) [7002264]
is location of ...	<b>Bursa</b> ..... (World, Asia, Turkey, Bursa) [7002264]
is location of ...	<b>Chardzhou</b> ..... (World, Asia, Turkmenistan, Chardzhou) [7002264]
is location of ...	<b>Ctesiphon</b> ..... (World, Asia, Iraq, Ctesiphon) [7002264]
is location of ...	<b>Damascus</b> ..... (World, Asia, Syria, Damascus) [7002264]
is location of ...	<b>Dānghān</b> ..... (World, Asia, Iran, Dānghān) [7002264]
is location of ...	<b>Debal</b> ..... (World, Asia, Pakistan, Debal) [7002264]
is location of ...	<b>Dunhuang</b> ..... (World, Asia, China, Dunhuang) [7002264]
is location of ...	<b>Endere</b> ..... (World, Asia, China, Xinjiang) [7002264]
is location of ...	<b>Fergana Valley</b> ..... (World, Asia, Uzbekistan, Fergana Valley) [7002264]
is location of ...	<b>Gaochang</b> ..... (World, Asia, China, Xinjiang) [7002264]
is location of ...	<b>Guma</b> ..... (World, Asia, China, Xinjiang) [7002264]
is location of ...	<b>Guozhen</b> ..... (World, Asia, China, Xinjiang) [7002264]
is location of ...	<b>Hamadān</b> ..... (World, Asia, Iran, Hamadān) [7002264]
is location of ...	<b>Herāt</b> ..... (World, Asia, Afghanistan, Herāt) [7002243]
is location of ...	<b>Hims</b> ..... (World, Asia, Syria, Hims) [7002264]
is location of ...	<b>Istanbul</b> ..... (World, Asia, Turkey, İstanbul) [7002473]

## 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).

is location of ...	<b>Jaisi</b> ..... (World, Asia, India, Uttar Pradesh) [7001509]
is location of ...	<b>Jiaoli</b> ..... (World, Asia, China, Shaanxi) [7001810]
is location of ...	<b>Jiayu</b> ..... (World, Asia, China, Shaanxi) [7001810]
is location of ...	<b>Jiayu</b> ..... (World, Asia, China, Shaanxi) [7001810]
is location of ...	<b>Kābū</b> ..... (World, Asia, China, Xinjiang) [7001810]
is location of ...	<b>Kan</b> ..... (World, Asia, China, Shaanxi) [7001810]
is location of ...	<b>Kash</b> ..... (World, Asia, China, Shaanxi) [7001810]
is location of ...	<b>Kermānshāh</b> ..... (World, Asia, Iran, Kermānshāh) [7002264]
is location of ...	<b>Khujand</b> ..... (World, Asia, Tajikistan, Khujand) [7002264]
is location of ...	<b>Kokand</b> ..... (World, Asia, Tajikistan, Kokand) [7002264]
is location of ...	<b>Konya</b> ..... (World, Asia, Turkey, Konya) [7002264]
is location of ...	<b>Kucha</b> ..... (World, Asia, China, Xinjiang) [7002264]
is location of ...	<b>Kumul</b> ..... (World, Asia, China, Xinjiang) [7002264]
is location of ...	<b>Kyōngju</b> ..... (World, Asia, North Korea, Kyōngju) [7002264]
is location of ...	<b>Lanzhou</b> ..... (World, Asia, China, Gansu) [7002264]
is location of ...	<b>Laochengli</b> ..... (World, Asia, China, Xinjiang) [7002264]
is location of ...	<b>Leh</b> ..... (World, Asia, India, Ladakh) [7002264]
is location of ...	<b>Lhasa</b> ..... (World, Asia, China, Tibet) [7001874]
is location of ...	<b>Liqian</b> ..... (World, Asia, China, Gansu) [8060328]
is location of ...	<b>Loulan Yiji</b> ..... (World, Asia, China, Xinjiang) [6003517]
is location of ...	<b>Mashhad</b> ..... (World, Asia, Iran, Khorāsān-e Razavi) [7002243]
is location of ...	<b>Peshāwar</b> ..... (World, Asia, Pakistan, Peshāwar) [7002264]
is location of ...	<b>Pushkalavati</b> ..... (World, Asia, Pakistan, Peshāwar) [7002264]
is location of ...	<b>P'yōngyang</b> ..... (World, Asia, North Korea, P'yōngyang) [7002264]
is location of ...	<b>Qazvin</b> ..... (World, Asia, Iran, Qazvin) [7002264]
is location of ...	<b>Qiemo</b> ..... (World, Asia, China, Xinjiang) [1103342]
is location of ...	<b>Qincheng</b> ..... (World, Asia, China, Xinjiang) [1060525]
is location of ...	<b>Qingquan</b> ..... (World, Asia, China, Xinjiang) [7002264]
is location of ...	<b>Quetta</b> ..... (World, Asia, Pakistan, Quetta) [7001978]
is location of ...	<b>Qumis</b> ..... (World, Asia, Iran, Khorāsān-e Razavi) [6006159]
is location of ...	<b>Sian</b> ..... (World, Asia, Uzbekistan, Qashqadaryo province) [1051509]
is location of ...	<b>Taraz</b> ..... (World, Asia, Kazakhstan, Zhambyl) [7016637]
is location of ...	<b>Tashkent</b> ..... (World, Asia, Uzbekistan, Toshkent) [7010300]
is location of ...	<b>Taxila</b> ..... (World, Asia, Pakistan, Punjab) [6005850]
is location of ...	<b>Trabzon</b> ..... (World, Asia, Turkey, Trabzon) [7002631]
is location of ...	<b>Turfan Depression</b> ..... (World, Asia, China, Xinjiang) [1103342]
is location of ...	<b>Türkistan</b> ..... (World, Asia, Kazakhstan, Ongtüstik Qazaqstan) [1060525]
is location of ...	<b>Tyre</b> ..... (World, Asia, Lebanon, Liban-Sud) [7002862]
is location of ...	<b>Ura-Tyube</b> ..... (World, Asia, Uzbekistan, Qashqadaryo province) [1060686]
is location of ...	<b>Ürümqi</b> ..... (World, Asia, China, Xinjiang) [7001978]
is location of ...	<b>Tūs</b> ..... (World, Asia, Iran, Khorāsān-e Razavi) [6006159]
is location of ...	<b>Vārānasi</b> ..... (World, Asia, India, Uttar Pradesh) [7001509]
is location of ...	<b>Wensu</b> ..... (World, Asia, China, Xinjiang) [7001746]
is location of ...	<b>Wuwei</b> ..... (World, Asia, China, Gansu) [7018821]
is location of ...	<b>Xibeijie</b> ..... (World, Asia, China, Gansu) [7001782]
is location of ...	<b>Yangguan</b> ..... (World, Asia, China, Xinjiang) [8060344]
is location of ...	<b>Yanqi</b> ..... (World, Asia, China, Xinjiang) [7008917]
is location of ...	<b>Yazd</b> ..... (World, Asia, Iran, Yazd) [7002173]
is location of ...	<b>Yumenguan</b> ..... (World, Asia, China, Gansu) [600648]
is location of ...	<b>Zhangye</b> ..... (World, Asia, China, Gansu) [7001844]



## 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).



... 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**)
  - inhabited place (**H**)
  - capital (**H**)
  - episcopal see (**H**)
  - trade center (**H**)
- ..... from 1980
- ..... settled since 3500 BCE,  
 Aramaic times
- ..... of kingdom, 267-272 CE

**Related geographic places:**

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

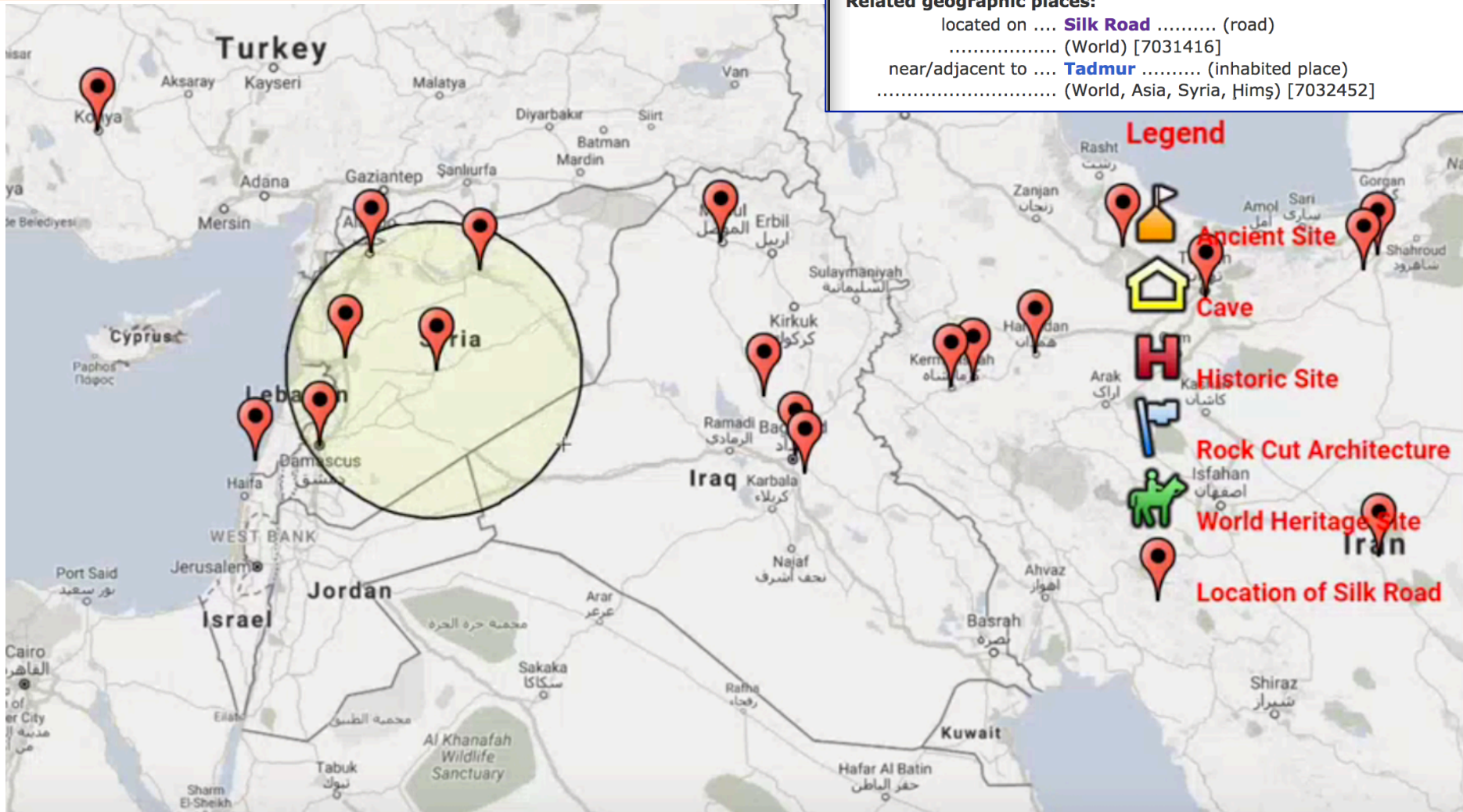


Image source: Screen captured from our experimental platform.



... 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

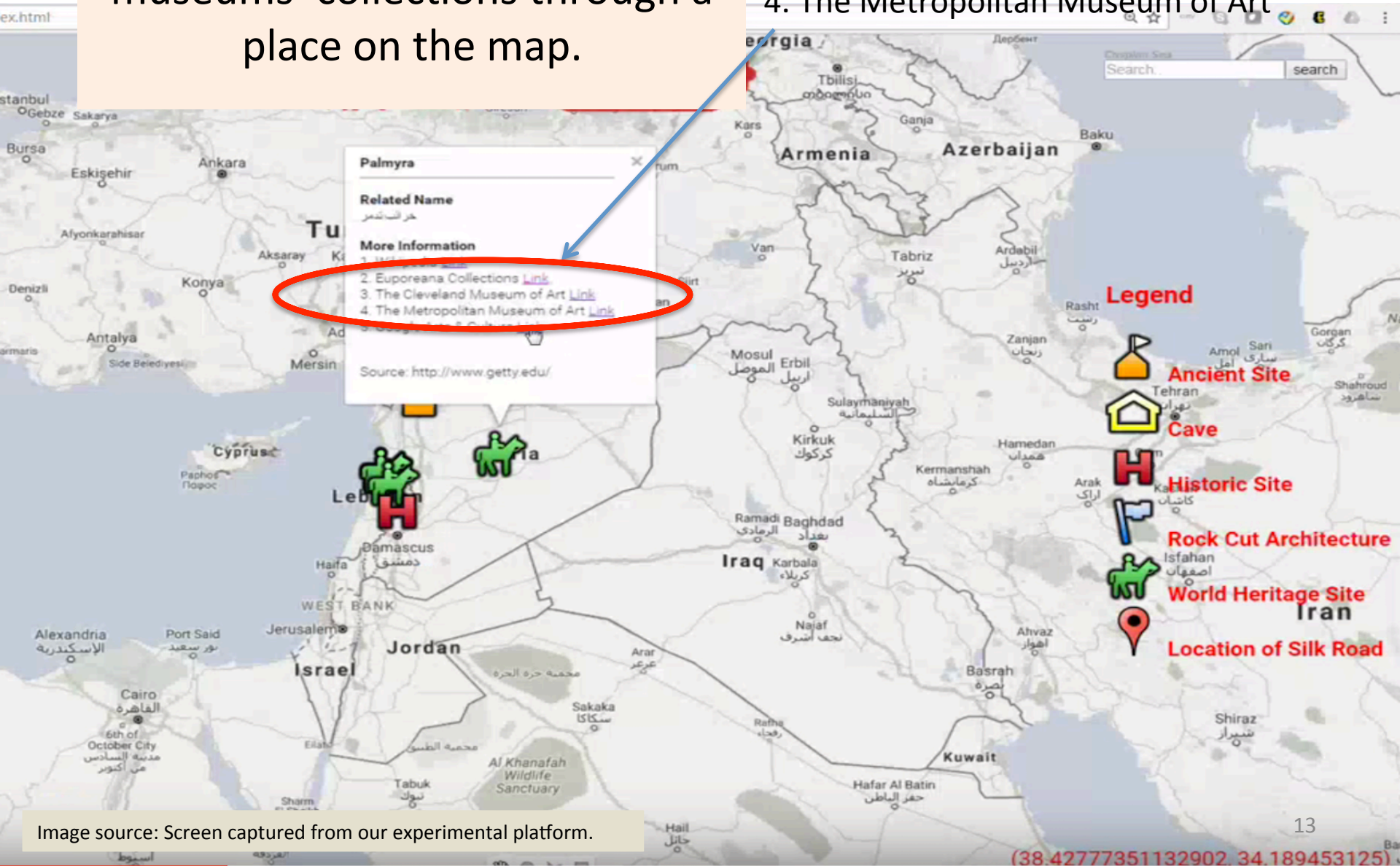


Image source: Screen captured from our experimental platform.



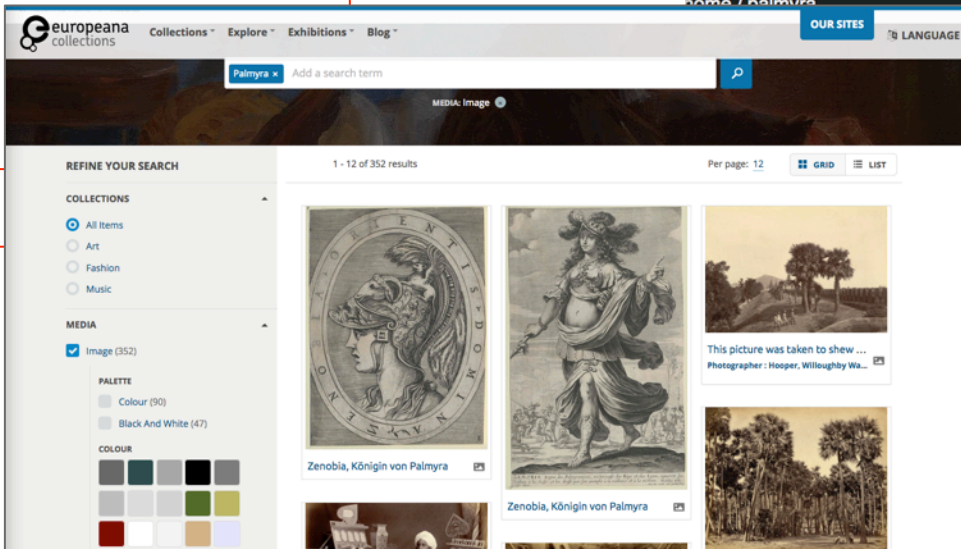
# “Palmyra”

The Cleveland Museum of Art:

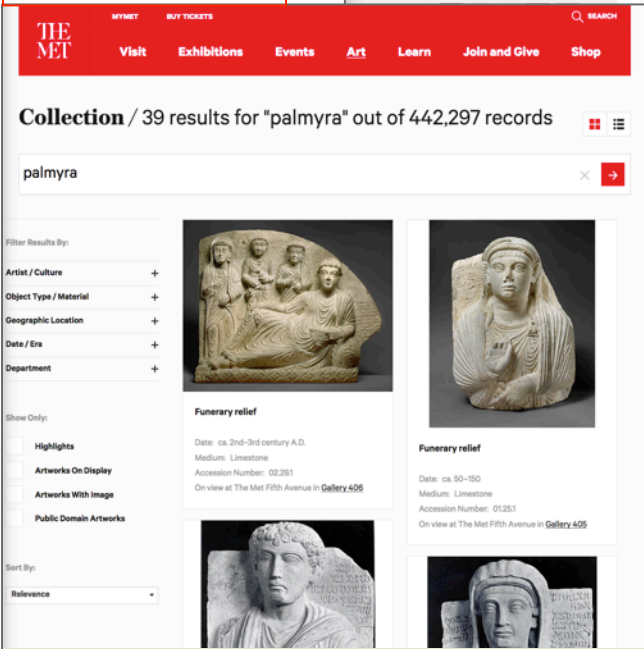
The Cleveland Museum of Art



Europeana:



MET:



Website

Search the Collection

ART OBJECT

**Procession of Nobles**

limestone, Overall: 57.7 x 120.7 x 34.5 cm (22 11/16 x 47 1/2 x 13 9/16 in). Purchase from the J. H. Wade Fund 1970.15

Syria, Palmyra 1970.15 Syria, Palmyra limestone, Overall: 57.7 x 12 ... de Fund 1970.15 Location: not on view Description Palmyra was a key ce ... en associated with Palmyra only through stylistic comparisons; it is not known wh ...

ART OBJECT

**Tomb Relief**

limestone, Overall: 55.3 x 73.7 x 18.5 cm (21 3/4 x 29 x 7 1/4 in). Leonard C. Hanna, Jr. Fund 1964.359

Syria, Palmyra, 3rd century 1964.359 Syria, Palmyra, 3rd century li ... of a mausoleum at Palmyra. It illustrates a blending of Roman and Pa ... ar Eastern Art Artist: Syria, Palmyra, 3rd century Type of art wo ...

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

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

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

# "Dunhuang"

Europeana:

MET:

Collection / 22 results for "Dunhuang" out of 441,819 records

Dunhuang

Filter Results By:

Artist / Culture +

Object Type / Material +

Geographic Location -

Asia 22

China 20

Gansu 1

Japan 2

Date / Era +

Department +

Asia X

Show Only:

Highlights



**Banner with Bodhisattva, possibly Mahamayuri**

Date: 9th–10th century  
Medium: Ink and pigment on silk  
Accession Number: 2007.294a, b  
Not on view



**Rubbing of a Relief at Dunhuang**

Date: 20th century  
Medium: Ink on paper  
Accession Number: 56.34  
Not on view



**Bodhisattva Manjusri (Wenshu)**

Date: 10th century  
Medium: Woodblock print; ink and color on paper  
Accession Number: CP4  
Not on view

CAN I USE IT? [?](#)

Free Re-use (2)

Limited Re-use (35)

No Re-use (79)

Show specific rights statements ▾

PROVIDING COUNTRY ▾

LANGUAGE ▾

AGGREGATOR ▾

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

The screenshot shows the Europeana Collections search interface. At the top, there's a navigation bar with 'Collections', 'Explore', 'Exhibitions', and 'Blog'. Below the search bar, the results are displayed in a grid. On the left, there's a 'REFINE YOUR SEARCH' sidebar with filters for 'COLLECTIONS' (All Items, Art, Fashion, Music) and 'MEDIA' (Image, 116). The main search results area shows 1-12 of 116 results. The first three items are visible: 'The Sutra of Filial Piety (1550)', 'Badakshan, Konsolbro, Zebag (...)', and 'Buddha, Marmor, Simenta (1976)'. Below the search results, there's a 'CAN I USE IT?' section with options for 'Free Re-use (2)', 'Limited Re-use (35)', and 'No Re-use (79)'. At the bottom, there are sections for 'PROVIDING COUNTRY', 'LANGUAGE', and 'AGGREGATOR'.

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



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

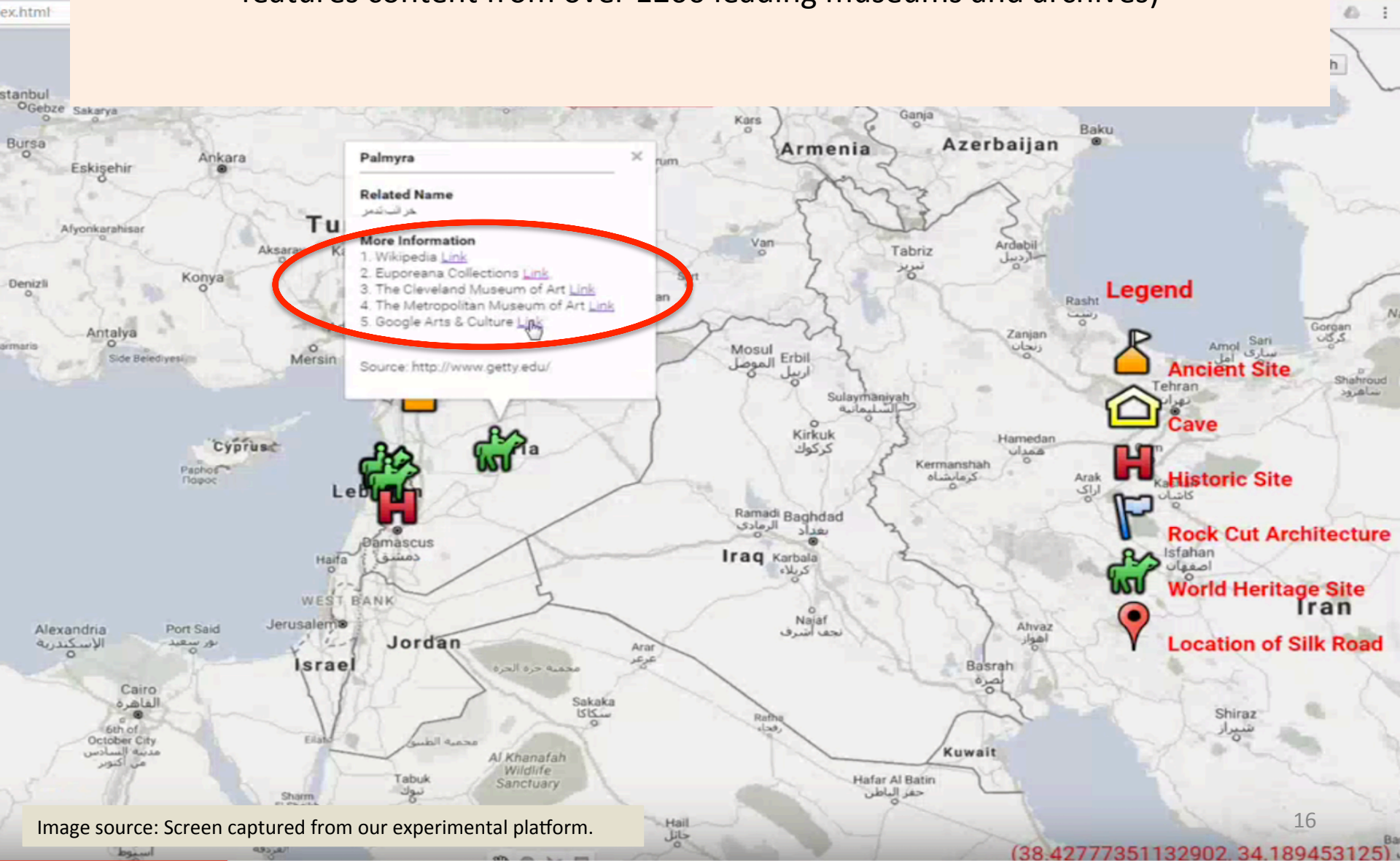


Image source: Screen captured from our experimental platform.



# Google Arts & Culture

← → ⓘ | <https://www.google.com/culturalinstitute/beta/search?q=Palmyra> | 50% | Search | ☆ | ⬇️ | 🏠 | 📧 | ☰

← Palmyra

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Best match for "Palmyra"

## Palmyra

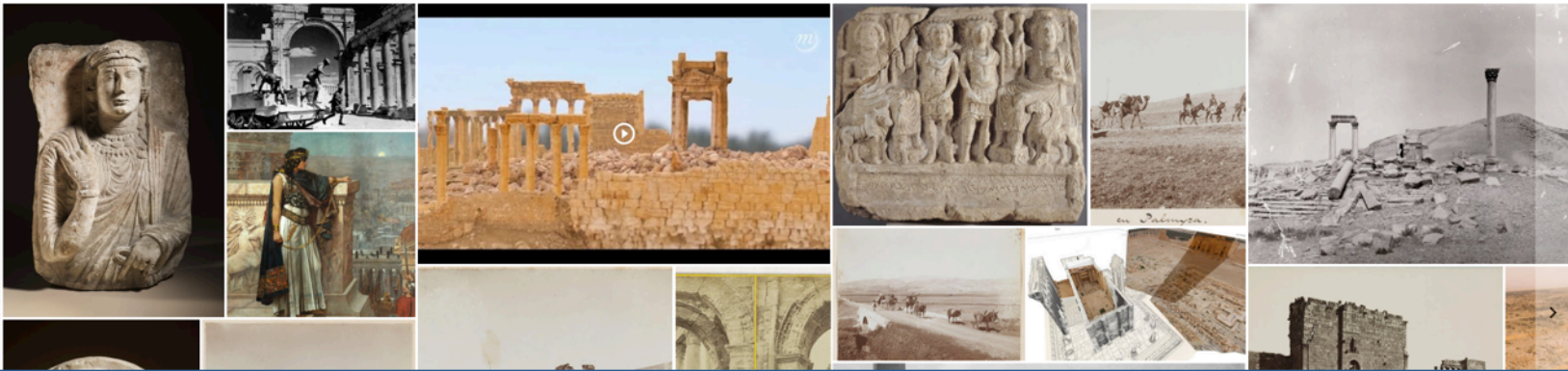
Palmyra is an ancient Semitic city in present day Homs Governorate, Syria. Archaeological finds date back to the Neolithic period and the city was first documented in the early second millennium BC. Palmyra changed hands between the different empires that ruled the area becoming a subject of the Roman Empire in the first century AD. Palmyra's wealth enabled the construction of monumental projects, such as the Great Colonnade, the Temple of Bel and the distinctive tower tombs. Palmyra grew wealthy from trade caravans; the Palmyrenes, renowned merchants, established

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7 exhibits [VIEW ALL](#)

-   
A Testament to Love: Palmyra in the North of Freer and Sackler Galleries
-   
A Collection of Excellence Fondazione Cariplo
-   
Palmyra Ilmoo Grand Palais
-   
Eternal Sites Ilmoo Grand Palais
-   
SUPERPOSITIONS Institut du monde arabe


139 items



Google Cultural Institute


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

# Google Arts & Culture



Visit Palmyra in 360 degrees

© Iconem DGAM, this video has been made in partnership with Google Arts & Culture  
Palmyra, Khorsabad, the Umayyad Mosque and the Krak des Chevaliers are in danger because they are located in regions of conflict. The exhibit invites visitors to travel to these Syrian and Iraqi archeological treasures thanks to immersive technology. A captivating 360-degree video is projected on the walls of the space which intertwine art and music. This exhibition offers a unique experience and the dangers that threaten our heritage. We must preserve them.  
#siteséternels  
From 14 December 2016 to 9 January 2017



Le site de Palmyre

Iconem & DGAM 2016

From the collection of Rmn-Grand Palais

Photo du site et reconstitution 3D

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 **APIs\*** 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)

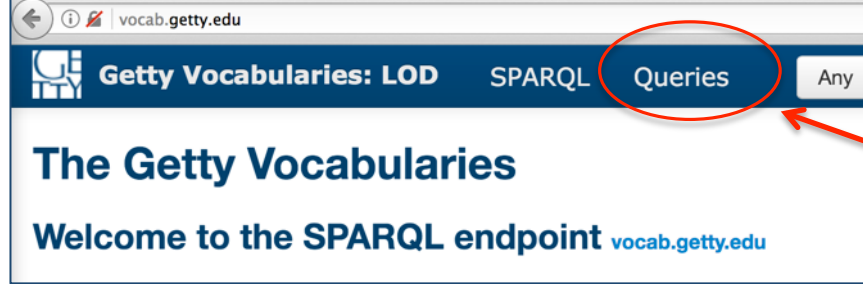
*I would like to get something like "caves on or around the Silkroad", or, "UNESCO Heritage sites on or around the Silkroad".*

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

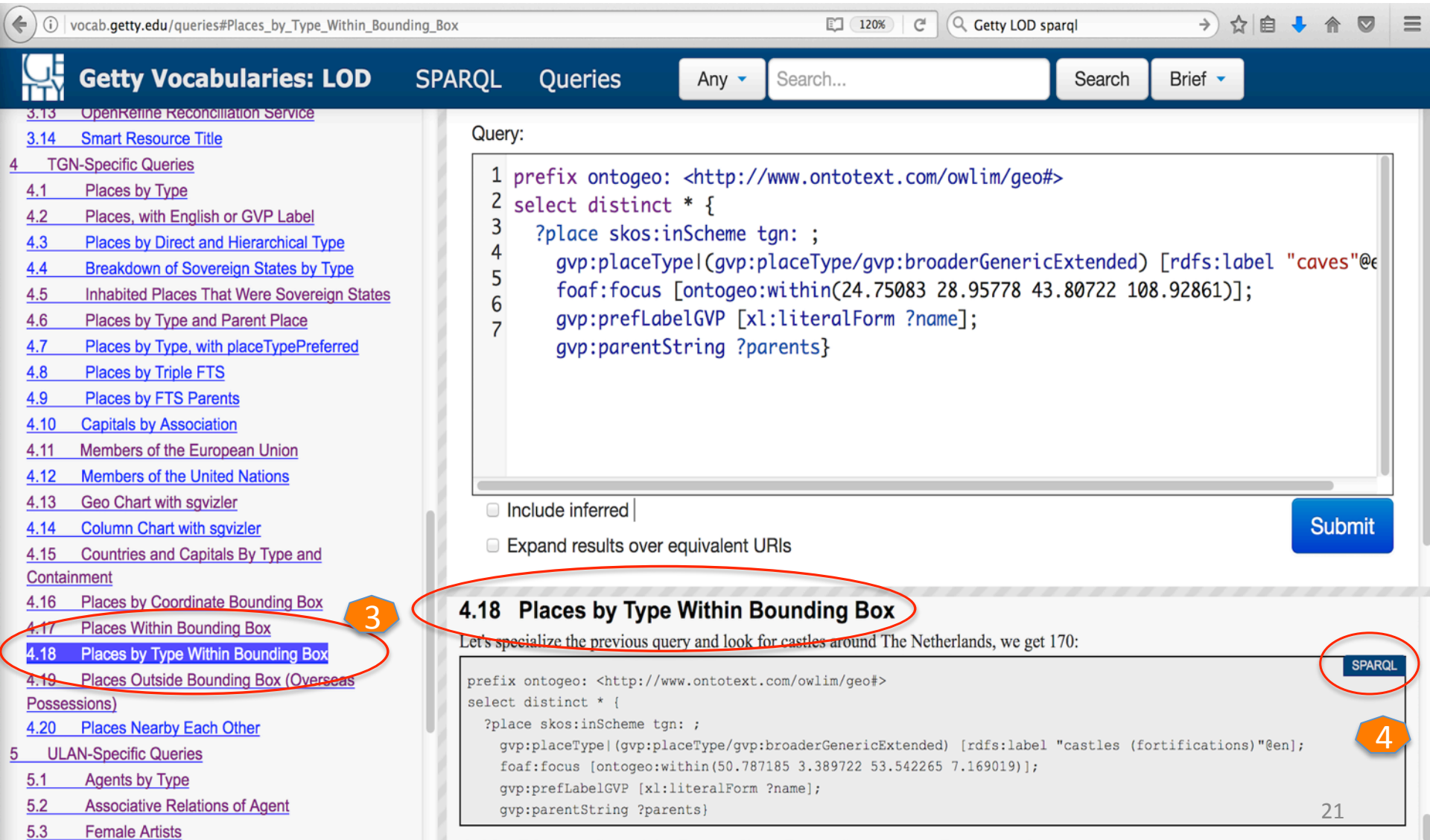
ancient sites [aat:300387007](#)  
rock-cut architecture [aat:300008031](#)  
World Heritage Sites [aat:300263063](#)  
historic sites [aat:300000833](#)  
caves [aat:300008746](#)

1 Go to:

<http://vocab.getty.edu/>



2 Choose "Queries"



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](#)

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"@en;
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:

```
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}
```

SPARQL

21

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

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

```
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}
```

#### 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]



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

Got the results & downloadable datasets:

6

Caves  
within(24.750  
83 28.95778  
43.80722  
108.92861)

Results: (200 of 219)

Download SPARQL Results in: [JSON](#) | [XML](#) | [CSV](#) | [TSV](#)

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

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
<a href="#">tgn:7059176</a>	Mausoleum of Khoja Ahmed Yasawi	Ongtüstik Qazaqstan, Qazaqstan, A
<a href="#">tgn:1056987</a>	Mtskheta	Mtskheta Mtianeti, Sakartvelo, Asia
<a href="#">tgn:7032530</a>	Aramus	Kotayk', Hayastan, Asia, World
<a href="#">tgn:7032531</a>	Zart'onk'	Armavir, Hayastan, Asia, World
<a href="#">tgn:4004270</a>	Geghard	Kotayk', Hayastan, Asia, World
<a href="#">tgn:1054029</a>	Qobustan	Baki, Azərbaycan, Asia, World
<a href="#">tgn:7029798</a>	Qianfodong@zh-latn-pinyin-x-notone	Gansu, Zhongguo, Asia, World
<a href="#">tgn:7059150</a>	Sulaiman-Too	Osh, Kyrgyzstan, Asia, World
<a href="#">tgn:1100582</a>	Humayun's Tomb	Delhi, Bhārat, Asia, World
<a href="#">tgn:6003937</a>	Mohenjo-Daro	Sindh, Pākistān, Asia, World
<a href="#">tgn:7032815</a>	Rummin-dei	Lumbinī, Nepāl, Asia, World
<a href="#">tgn:7032812</a>	Kathmandu Valley	Nepāl, Asia, World
<a href="#">tgn:4011486</a>	Um er-Rasas	Al 'Ašimah, Al Urdun, Asia, World
<a href="#">tgn:7001309</a>	Abū Mīnā@en	Al Gharbīyah, Mišr, Africa, World
<a href="#">tgn:7002856</a>	Baalbek	Baalbek-Hermel, Lubnān, Asia, Wo

<a href="#">tgn:7032896</a>	Tchogha Zanbil	Khūzestān, Īrān, Asia, World
<a href="#">tgn:7002862</a>	Tyre@en	Liban-Sud, Lubnān, Asia, World
<a href="#">tgn:7059151</a>	Aanjar	Béqaa, Lubnān, Asia, World
<a href="#">tgn:7016516</a>	Jubayl	Mont-Liban, Lubnān, Asia, World
<a href="#">tgn:6005850</a>	Taxila@en	Punjab, Pākistān, Asia, World
<a href="#">tgn:7059152</a>	Wādī Qādīshā	Lubnān, Asia, World
<a href="#">tgn:1103449</a>	Arz Lebnâne	Liban-Nord, Lubnān, Asia, World
<a href="#">tgn:7032332</a>	Minaret of Jam	Ghōr, Afghānestān, Asia, World
<a href="#">tgn:7018835</a>	Palmyra	Ḥimṣ, Sūriyah, Asia, World
<a href="#">tgn:7002383</a>	Petra	Ma'ān, Al Urdun, Asia, World
<a href="#">tgn:7002205</a>	Takht-e Jamshīd	Fārs, Īrān, Asia, World
<a href="#">tgn:7001297</a>	Thebes@en	Qinā, Mišr, Africa, World
<a href="#">tgn:7032359</a>	Qal'at al 'Ajāj	Al Baḥrayn, Asia, World
<a href="#">tgn:6003070</a>	Choirokoitia	Lemesós, Kypriakí Dimokratía, Asia, World
<a href="#">tgn:7012244</a>	Merv	Mary, Türkmenistan, Asia, World
<a href="#">tgn:6000442</a>	Kharā'ib al Ashūrīyīn@ar-latn	Ṣalāḥ ad Dīn, Al-'Irāq, Asia, World
<a href="#">tgn:6000612</a>	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](mailto: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.