

Hands-on (Details)

Obtain Data Using SPARQL



TGN Thesaurus for Geographic Names (TGN)

Demo. Using TGN

<http://vocab.getty.edu>

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

The Getty Vocabularies

Welcome to the SPARQL endpoint vocab.getty.edu

The Getty Vocabularies: The AAT, TGN, ULAN, and CONA contain structured terminology for art and other materials. Compliant with international standards, they provide authoritative access to databases and Web sites. The Getty Vocabularies are products of the Getty Research Institute.

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

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

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

Getty Vocabularies: LOD Sample Queries

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HTML version: <http://vocab.getty.edu/doc/queries>
Queries UI: <http://vocab.getty.edu/queries>
Parent document: <http://vocab.getty.edu/doc>
Author: Vladimir Alexiev

Include inferred
 Expand results over equivalent URIs

Query:

1

Include inferred
 Expand results over equivalent URIs **Submit**

2 Finding Subjects

2.1 Top-level Subjects

The top-level Subjects of AAT are gvp:Facets, so the query is easy:

```
select * (?f a gvp:Facet; skos:inScheme aat; ; gvp:prefLabelGVP/xl:literalForm ?l)
```

The same holds of TGN (there's only two: World and Extraterrestrial Places):

```
select * (?f a gvp:Facet; skos:inScheme tgn; ; gvp:prefLabelGVP/xl:literalForm ?l)
```

The same holds of ULAN (there are 5 facets, see [ULAN Hierarchy and Classes](#)):

```
select * (?f a gvp:Facet; skos:inScheme ulan; ; gvp:prefLabelGVP/xl:literalForm ?l)
```

2.2 Descendants of a Given Parent

Let's look for AAT descendants of 300194567 "drinking vessels". This finds "hyta" and other interesting records, including "Fichtelgebirgehumpen":

```
select * (?x gvp:broaderExtended aat:300194567; skos:inScheme aat; ; gvp:prefLabelGVP/xl:literalForm ?l)
```

2.3 Subjects by Contributor Id

You can easily find subjects contributed by a particular Contributor if you know the id. E.g. the Getty Conservation Institute (GCI) in AAT is aat_contrib:10000088. Let's find their contributions to aat:300033618 paintings (visual works):

```
select * ( ?x a gvp:Subject; dot:contributor aat_contrib:10000088; gvp:broaderExtended aat:300033618; gvp:prefLabelGVP/xl:literalForm ?l)
```

Marcia Zeng, 2018 D15

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



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](#)
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- [4.20 Places Nearby Each Other](#) ←

Query:

```
1 select ?place
2 ?place skos
```

Browse the examples of queries

You can obtain special RDF graphs or datasets for very complicated questions, and reveal unknown relationships.

- Include inferred
- Expand results over

4.16 Places by C

Find places whose coordi

```
select ?place ?name
```

Steps: (1) Click section 4.18 on the left. Then a template on the lower right will show up. (2) Click on that SPARQL sign on top corner of 4.18's template. Once you click, the queries will jump to the top query box. (3) Click "Submit".

Note: Since this is a complicated query, it will run a few seconds. Be patient.

E.g., Look for **castles around The Netherlands**
 (within the boundary of 50.787185 3.389722 53.542265 7.169019)

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3.14 [Smart Resource Title](#)

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5 ULAN-Specific Queries

- [5.1 Agents by Type](#)
- [5.2 Associative Relations of Agent](#)
- [5.3 Female Artists](#)
- [5.4 Female Artists as a Hobby](#)



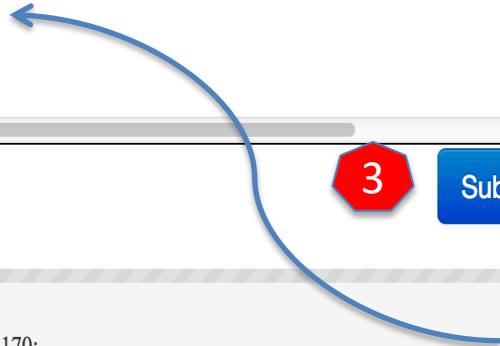
Query:

```

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 "castles (fortific
5   foaf:focus [ontogeo:within(50.787185 3.389722 53.542265 7.169019)];
6   gvp:prefLabelGVP [xl:literalForm ?name];
7   gvp:parentString ?parents}
  
```

Include inferred
 Expand results over equivalent URIs

3



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}
  
```

2



4.19 Places Outside Bounding Box (Overseas Possessions)

E.g., Look for **castles** around **The Netherlands**

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SPARQL Queries Any Search...

Results: (170)

place	name	parents
tgn:7267137	Oldenaller@nl	Gelderland, Nederland, Eur
tgn:7267925	Nijenrode@nl	Utrech
tgn:7259882	Kasteel Ampsen@nl	Gelde
tgn:7268095	Panser@nl	Groni
tgn:7269751	Mattensesse@nl	Groni
tgn:7272454	Verhildersum@nl	Groni
tgn:7269594	Menkemaborg@nl	Groni

(4) Download the datasets in a selected format.
The best way is to download the **CSV** file.
(5) You should either keep the query in your CSV file or make a note of what you searched for and in which boundary.

Finished.

6

Optional:
(6) Click on any castle's ID, & open the single data record for this concept.
(7) Click on the Website to see its normal html view.

4

Download SPARQL Re

Muiderslot

6

Source: <http://vocab.getty.edu/tgn/7270110>

Subject (27) Predicate Object All

[Website](#) | [Hierarchy](#) | [Download](#)

Statements in which the resource e

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Predicate	Object
rdf:type	gvp:Subject , skos:Concept
rdfs:label	Muiderslot@nl
gvp:broader	tgn:7006951
gvp:broaderPartitiveExtended	tgn:1000003 , tgn:7006951
gvp:broaderExtended	tgn:1000003 , tgn:7006951
gvp:broaderPreferredExtended	tgn:1000003 , tgn:7006951
skos:note	tgn_rev:5011873219 , tgn_rev:5011907189 , tgn_rev:5011907189 , tgn_rev:5011907189
gvp:placeType	aat:300006891
skos:prefLabel	Muiderslot@nl
skos:broader	tgn:7006951
iso-thes:broaderPartitive	tgn:7006951
skos:broaderTransitive	tgn:1000003 , tgn:7006951 , tgn:7016845

ID: 7270110

Muiderslot (castle)

Coordinates:
Lat: 52 20 00 N degrees minutes Lat: 52.3333 decimal degrees
Long: 005 04 00 E degrees minutes Long: 5.0667 decimal degrees

Names:
Muiderslot (**preferred**, NA, V, Dutch, U)

Hierarchical Position:

- World (facet)
- Europe (continent) (P)
- Netherlands (nation) (P)
- North Holland (province) (P)
- Muiderslot (castle) (P, U)

Place Types:
castle (**preferred**, C)

Sources and Contributors:
Muiderslot..... [VP Preferred]
..... NGA/NIMA database (2003-)

Subject: [VP]
..... NGA/NIMA database (2003-) -2149724

Europe
North Holland
Netherlands

Advanced uses of TGN that are released with multiple services: Website, APIs, and SPARQL endpoint

Refer to a presentation at:

http://www.getty.edu/research/tools/vocabularies/zeng_silk_road_tgn.pdf

which shows the steps and results of:

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 of 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; knowledge of SPARQL queries will be ideal.)