

WIKIDATA

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# ABOUT ME

- From: Elbasan, Albania
- Profession: ICT engineer
- Editor at Wikipedia since 2013.



# Today agenda

## Part I

### Greta

Wikidata – introduction

- ▶ Usage of Wikidata
- ▶ Tools
- ▶ Queries
- ▶ How-to

## Part II

### Daniel

- ▶ Queries
- ▶ Pratical examples
- ▶ Q&A

WIKIDATA

# INTRODUCTION

- ▶ launched 2012
- ▶ maintained by Wikimedia Deutschland
- ▶ funded by „Allen Institute for Artificial Intelligence“, „Gordon and Betty Moore Foundation“, Google and Yandex

# DATABASE OF WORLD'S KNOWLEDGE

## **Wikipedia**

World's knowledge in form of an encyclopedia with edited articles for humans

## **Wikidata**

World's knowledge in form of a database with structured data for „computers“

# WIKIDATA – FAST FACTS

- ▶ sister project of Wikipedia
- ▶ structured data
- ▶ anyone can edit
- ▶ 24,5 millions data items
- ▶ multilingual
- ▶ CC0 license



IMAGE: SANDRA FAUCONNIER CC0

# DATA USAGE

- ▶ anybody can use for free
- ▶ usage in Wikipedia
- ▶ tools
- ▶ self-made queries



important

EACH NEW ARTICLE SHOULD ALSO BE  
ADDED TO WIKIDATA!

## ADVANTAGES

- ▶ structured data
- ▶ managing interwiki links
- ▶ helps Wikipedia editing
- ▶ reduces risk of duplicate entries
- ▶ consistent data in all projects
- ▶ future usage in Wikipedia

An aerial photograph of a coastal town and beach. The town is built on a hillside, with a large parking lot filled with cars along the beach. The sea is a deep blue. In the foreground, a person is sitting on a rocky cliff overlooking the town and beach.

# Wikidata

## USAGE OF DATA

# tools.wmflabs.org/reasonator



## Princess Sophie of Schönburg-Waldenburg (Q287857)

Sophie of Schönburg-Waldenburg | ソフィー・フォン・ショーンブルク=ヴァルデンブルク | Sofia de Schönburg-Waldenburg | Sophie van Schoenburg-Waldenburg | Sophie van Schonburg-Waldenburg | Sophie von Schönburg-Waldenburg | ソフィー・フォン・シェーンブルク=ヴァルデンブルク | Princesha Sofi | Zofia Schönburg-Waldenburg | Prințesa Sofia de Schönburg-Waldenburg | Sofia di Schönburg-Waldenburg | Sophie van Schönburg-Waldenburg | Sophie de Schonbourg-Waldenbourg

German opera singer

**Princess Sophie of Schönburg-Waldenburg** was a German opera singer.

She was born on [May 21, 1885](#) in [Potsdam](#).

She married [William, Prince of Albania](#). Her children include [Carol Victor, Hereditary Prince of Albania](#).

She died on [February 3, 1936](#) in [Hemeiuș](#).

### Relatives

Parents

Siblings

Children

Other

**child** ♂ [Carol Victor, Hereditary Prince of Albania](#)

**spouse** ♂ [William, Prince of Albania](#)

See the full family tree: [inline/new page](#)

### Other properties

**place of birth** [Potsdam](#) capital city of the German state of Brandenburg

**place of death** [Hemeiuș](#) commune in Bacău County, Romania



### External sources

Freebase [/m/03by8ld](#)  
GND [117347582](#)  
VIAF [8163238](#)

### Wikimedia projects

**Current language Wikipedias**  
en [Princess Sophie of Albania](#)  
**Big Wikipedias**  
de [Sophie von Schönburg-Waldenburg](#)  
es [Sofia de Albania](#)

# Histropedia.com

BETA v1.0

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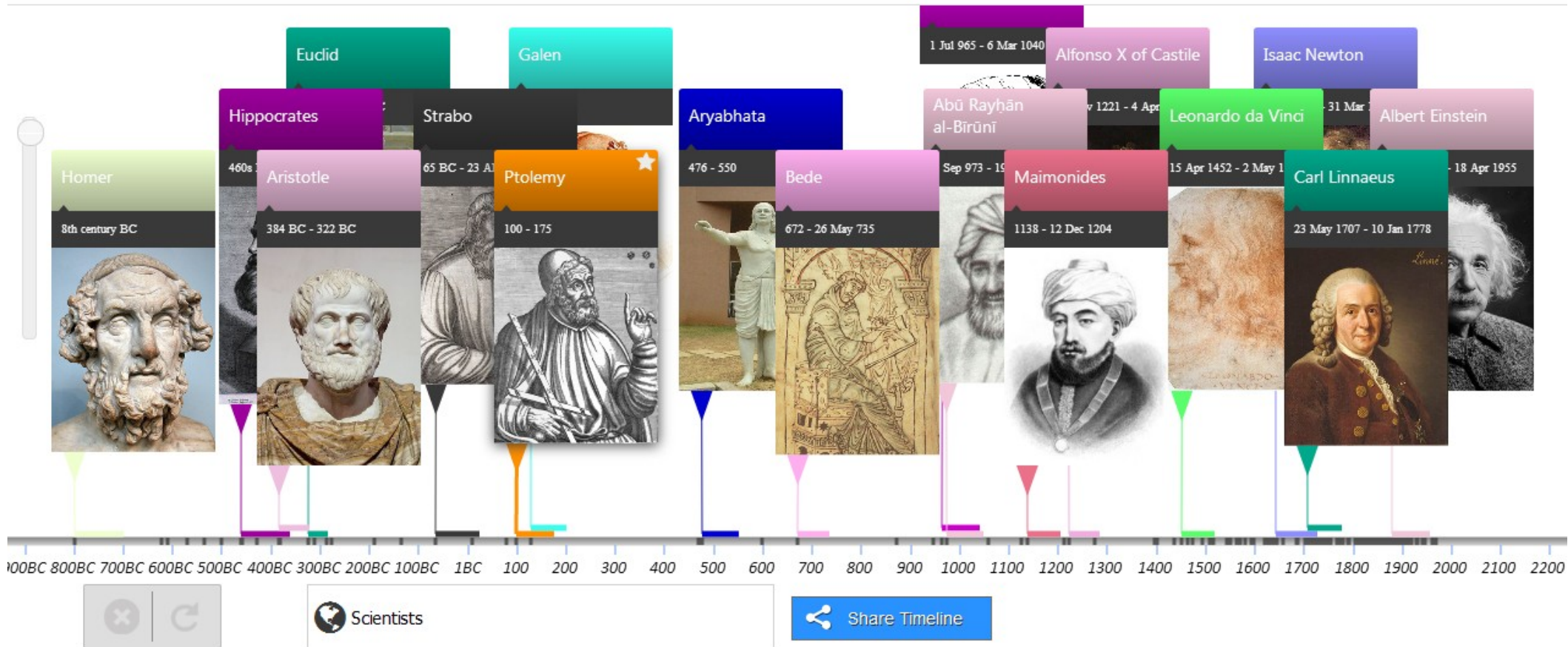


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Start searching for your topic...


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 Save








# Histropedia.com

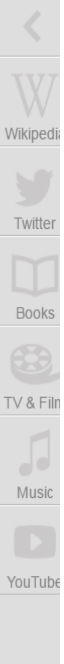
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 [Top 20 Timelines](#)    chaos communita|

Event Spacing           

-  Chaos Communication Congress 1984 - Present
-  Chaos communications
-  Chaos Communication Camp
-  Chaos or Community 1967





# Askplatyp.us

Ask me anything alpha version





who is the president of Central African Republic|



## Result

Show internal results

Catherine Samba-Panza  

Catherine Samba-Panza (born 26 June 1956) was interim President of the Central African Republic from 2014 to 2016, and the first woman to hold the post. Prior to becoming head of state, she was Mayor of Bangui from 2013 to 2014. [Wikipedia](#)



This query engine is the result of the Master's degree project of seven students.

If you are interested by some technical aspects, please have a look at the [project website](#).

# WIKIDATA QUERIES

▶ *query.wikidata.org*

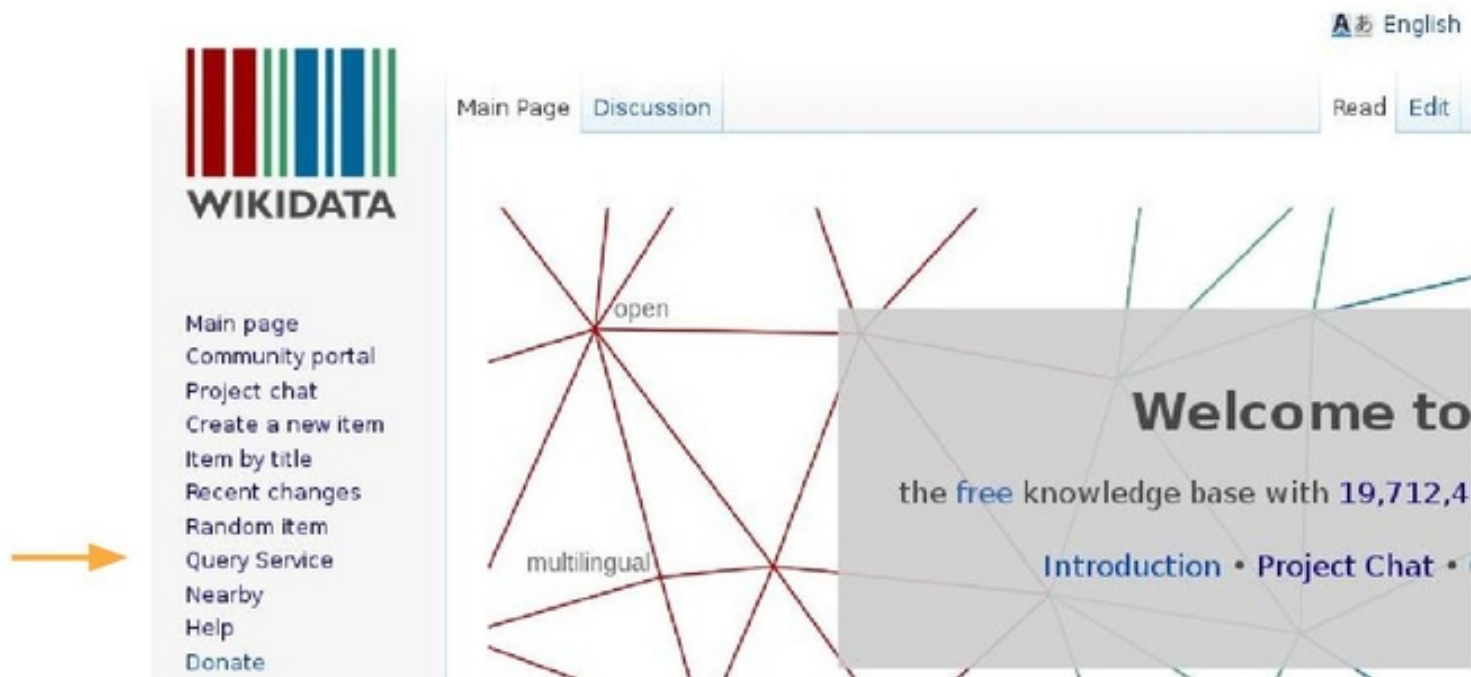
search database with SPARQL — use > Help >  
Examples

▶ much more tools

▶ your own queries



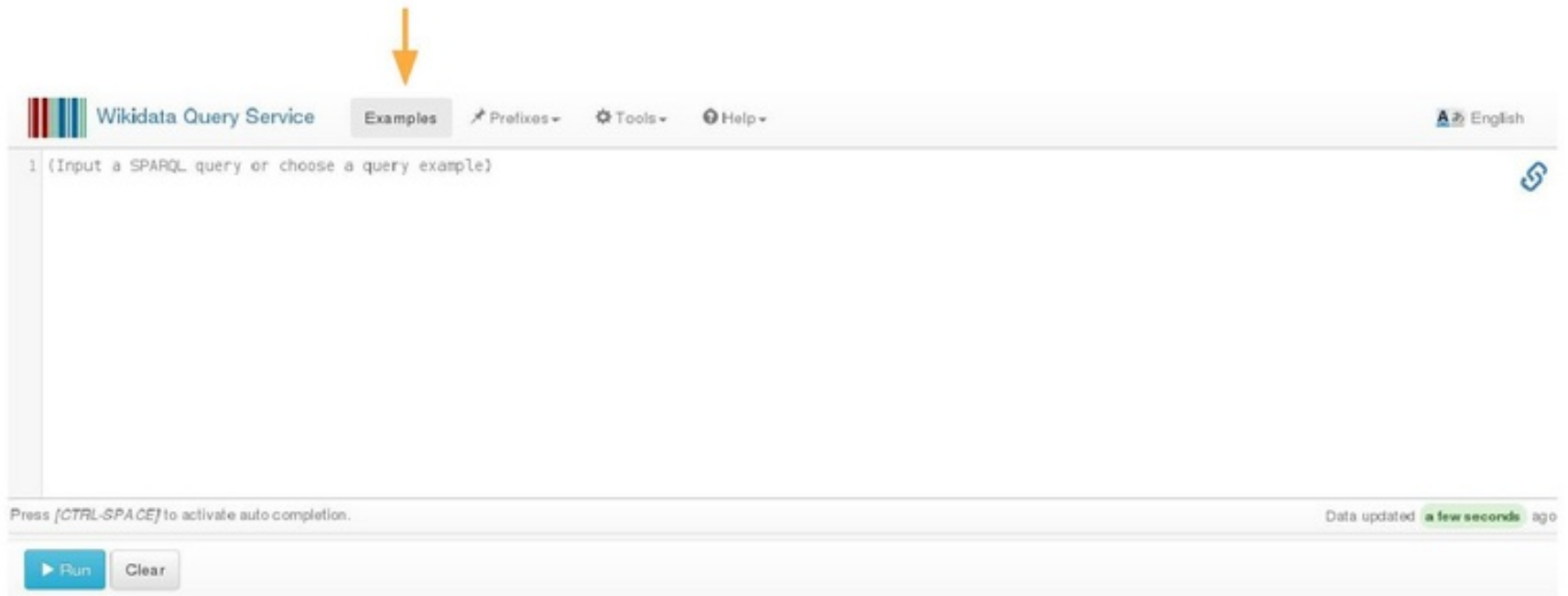
Open the query interface: query.wikidata.org



The image shows a screenshot of the Wikidata website. On the left side, there is a vertical navigation menu with the Wikidata logo at the top. The menu items are: Main page, Community portal, Project chat, Create a new item, Item by title, Recent changes, Random item, Query Service, Nearby, Help, and Donate. An orange arrow points to the 'Query Service' link. The main content area on the right features a header with 'Main Page' and 'Discussion' tabs, and 'Read' and 'Edit' buttons. Below the header is a large graphic with a network of red and green lines. A grey semi-transparent box is overlaid on the graphic, containing the text: 'Welcome to the free knowledge base with 19,712,4' and 'Introduction • Project Chat •'. The word 'multilingual' is visible in the network graphic below the box.

# QUERY.WIKIDATA.ORG

Learn from the existing examples



The screenshot shows the Wikidata Query Service interface. At the top, there is a navigation bar with the Wikidata logo, the text "Wikidata Query Service", and several tabs: "Examples", "Prefixes", "Tools", and "Help". An orange arrow points down to the "Examples" tab. To the right of the navigation bar, there is a language selector set to "English". Below the navigation bar is a large text input area with the placeholder text "1 (Input a SPARQL query or choose a query example)". At the bottom of the interface, there is a status bar with the text "Press [CTRL-SPACE] to activate auto completion." on the left and "Data updated a few seconds ago" on the right. Below the status bar are two buttons: "Run" and "Clear".

# What do these triplets mean?

How the Mind Works (Q2621068) ?item

No description defined [edit](#)

in more languages

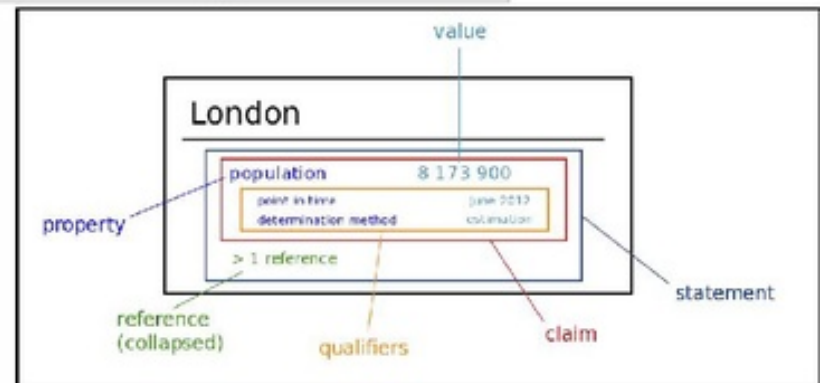
Language	Label	Description	Also known as
English	How the Mind Works	No description defined	

ISBN-13 978-0-393-04535-2 ?value [edit](#)

+ 1 reference

+ add

```
SELECT ?item ?value ?itemLabel WHERE {
  ?item wdt:P212 ?value .
}
```



# List of monuments in Kosova-map

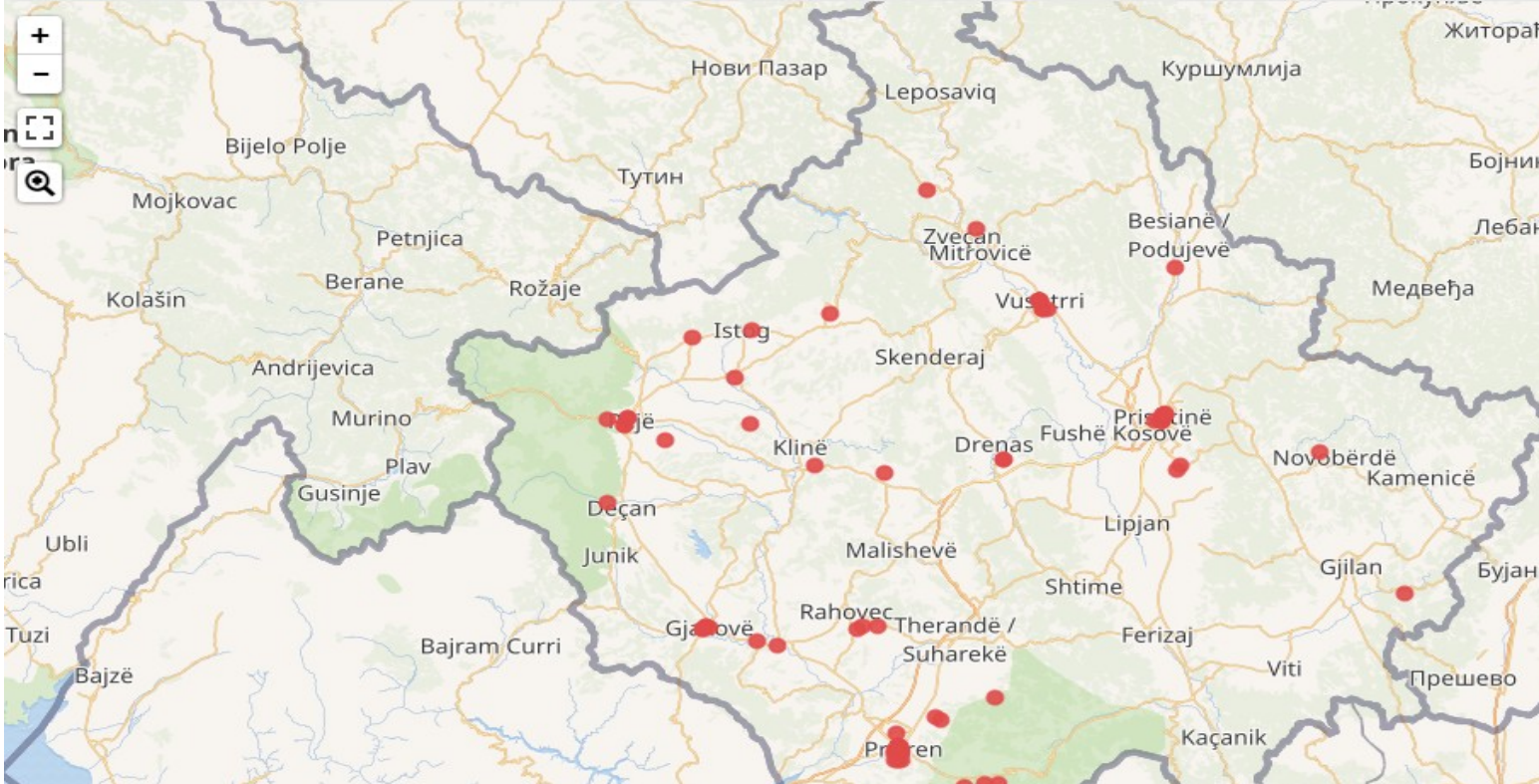
Wikidata Query

Examples Prefixes Tools Help

```
1 # All items that have p3170 set and some other optional information. Also works as a map
2 SELECT DISTINCT ?item ?itemLabel ?heritageId ?adminLabel ?coord ?image ?typeLabel ?sitelink
3 WHERE
4 {
5   ?item wdt:P3227 ?heritageId .
6   OPTIONAL { ?item wdt:P131 ?admin }
7   OPTIONAL { ?item wdt:P625 ?coord }
8   OPTIONAL { ?item wdt:P18 ?image }
9   OPTIONAL { ?item wdt:P31 ?type }
10  OPTIONAL { ?sitelink schema:about ?item . ?sitelink schema:inLanguage "sq" }
11  SERVICE wikibase:label { bd:serviceParam wikibase:language "en,sq,fr,de,sr" }
12 }
13 ORDER BY ?itemLabel
```


Press [CTRL-SPACE] to activate auto completion.

Run Clear 1173 Results in 1281 ms



The map displays the geographical distribution of 1173 monuments across Kosovo. Red dots indicate the locations of these monuments, with a higher concentration in the central and southern parts of the country. The map is labeled with the names of municipalities and regions in both Albanian and Cyrillic. Key locations include Novi Pazar, Leposaviq, Kurshumlija, Zvečan Mitrovicë, Vushtrri, Prishtinë, and Prizren. The map also shows major roads and geographical features like rivers and mountains.


# List of monuments in Kosova-table

 [Wikidata Query](#) Examples Prefixes Tools Help


```
1 # All items that have p3170 set and some other optional information. Also works as a map
2 SELECT DISTINCT ?item ?itemLabel ?heritageId ?adminLabel ?coord ?image ?typeLabel ?sitelink
3 WHERE
4 {
5   ?item wdt:P3227 ?heritageId .
6   OPTIONAL { ?item wdt:P131 ?admin }
7   OPTIONAL { ?item wdt:P625 ?coord }
8   OPTIONAL { ?item wdt:P18 ?image }
9   OPTIONAL { ?item wdt:P31 ?type }
10  OPTIONAL { ?sitelink schema:about ?item . ?sitelink schema:inLanguage "sq" }
11  SERVICE wikibase:label { bd:serviceParam wikibase:language "en,sq,fr,de,sr" }
12 }
13 ORDER BY ?itemLabel
```

Press [CTRL-SPACE] to activate auto completion.

▶ Run Clear 1173 Results in 1281 ms

<b>item</b>	<a href="#">wd:Q3324856</a>
<b>itemLabel</b>	Bajrakli Mosque, Peć
<b>heritageId</b>	354
<b>adminLabel</b>	Peć District
<b>coord</b>	Point(20.2938 42.6531)
<b>image</b>	 commons:Bajrakli Mosque, Peć, Kosovo.JPG
<b>sitelink</b>	< <a href="https://sq.wikipedia.org/wiki/Xhamia%20Bajrakli%20n%C3%AB%20Pej%C3%AB">https://sq.wikipedia.org/wiki/Xhamia%20Bajrakli%20n%C3%AB%20Pej%C3%AB</a> >

<b>item</b>	<a href="#">wd:Q3324856</a>
<b>itemLabel</b>	Bajrakli Mosque, Peć
<b>heritageId</b>	354
<b>adminLabel</b>	Pejë
<b>coord</b>	Point(20.2938 42.6531)
<b>image</b>	 commons:Bajrakli Mosque, Peć, Kosovo.JPG
<b>sitelink</b>	< <a href="https://sq.wikipedia.org/wiki/Xhamia%20Bajrakli%20n%C3%AB%20Pej%C3%AB">https://sq.wikipedia.org/wiki/Xhamia%20Bajrakli%20n%C3%AB%20Pej%C3%AB</a> >

<b>item</b>	<a href="#">wd:Q279689</a>
<b>itemLabel</b>	Banjska monastery
<b>heritageId</b>	2880
<b>adminLabel</b>	Banjska
<b>coord</b>	Point(20.7825 42.971388888)
<b>image</b>	 commons:View on Monastery Banjska.jpg
<b>typeLabel</b>	monastery
<b>sitelink</b>	< <a href="https://sq.wikipedia.org/wiki/Manastiri%20i%20Banisk%C3%ABs">https://sq.wikipedia.org/wiki/Manastiri%20i%20Banisk%C3%ABs</a> >

# List of people who discovered most planets-table

Wikidata Query Examples Prefixes Tools Help

```

1 #Who discovered the most planets? (with list)
2 #added before 2016-10
3 SELECT
4   ?discoverer ?discovererLabel
5   (COUNT(DISTINCT ?planet) as ?count)
6   (GROUP_CONCAT(DISTINCT(?planetLabel); separator=", ") as ?planets)
7 WHERE
8 {
9   ?ppart wdt:P279* wd:Q634 .
10  ?planet wdt:P31 ?ppart .
11  ?planet wdt:P61 ?discoverer .
12  SERVICE wikibase:label {
13    bd:serviceParam wikibase:language "en" .
14    ?discoverer rdfs:label ?discovererLabel .
15    ?planet rdfs:label ?planetLabel
16  }
17 }
18 GROUP BY ?discoverer ?discovererLabel
19 ORDER BY DESC(?count)

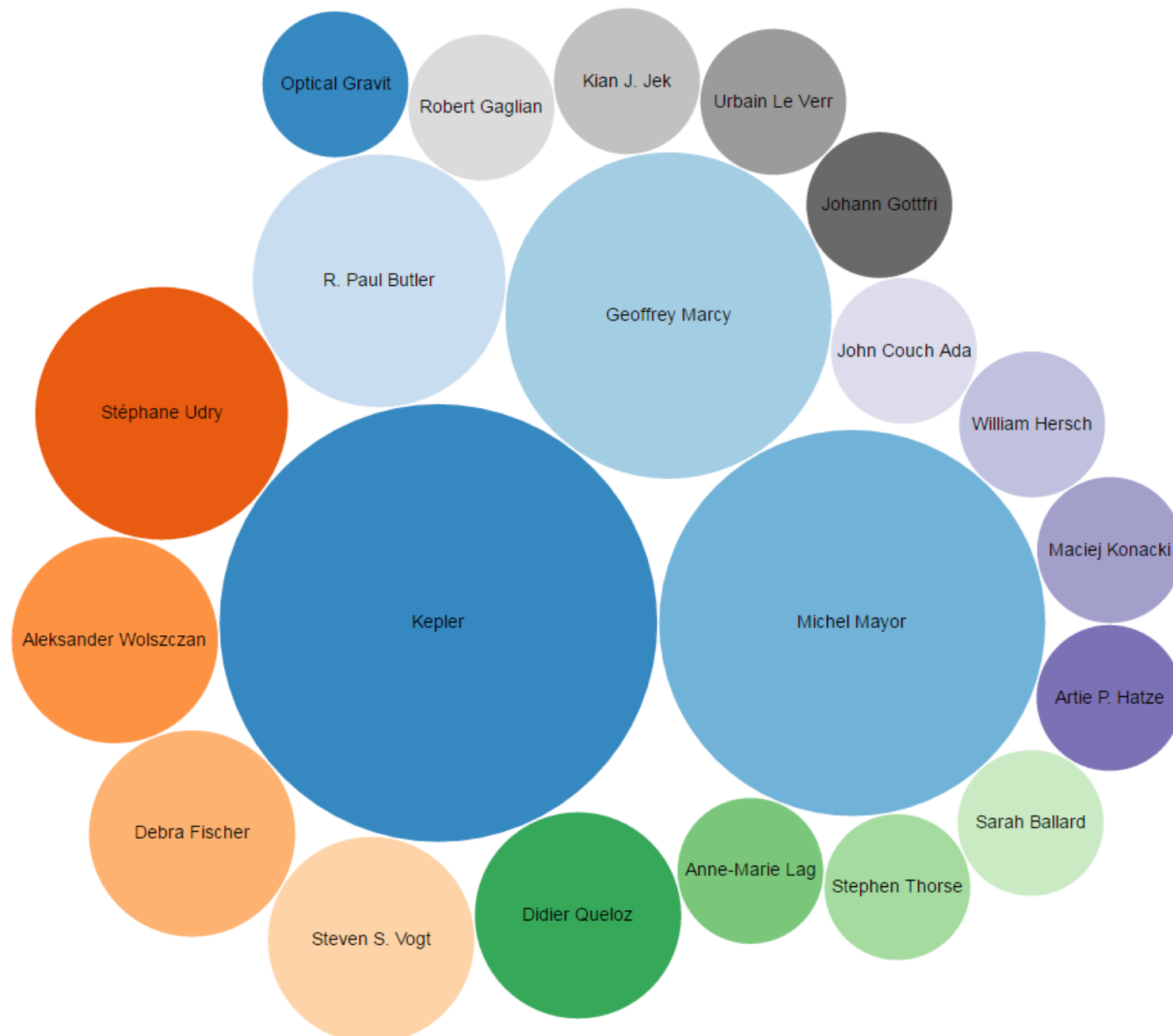
```

Press [CTRL-SPACE] to activate auto completion.

Run Clear 21 Results in 515 ms

discoverer	discovererLabel	count	planets
<a href="#">wd:Q47272</a>	Kepler	9	KOI-1686.01, Kepler-62f, Kepler-62e, Kepler-296f, Kepler-296e, Kepler-18
<a href="#">wd:Q123975</a>	Michel Mayor	7	HD 121504 b, HD 82943 c, HD 82943 b, HD 169830 b, HD 114386 b, HD 8
<a href="#">wd:Q736811</a>	Geoffrey Marcy	5	Upsilon Andromedae b, HD 89307 b, Gliese 436 b, HD 52265 b, HD 11478
<a href="#">wd:Q1387698</a>	R. Paul Butler	3	Upsilon Andromedae b, HD 52265 b, HD 114783 b
<a href="#">wd:Q120389</a>	Stéphane Udry	3	HD 82943 c, HD 82943 b, HD 169830 b
<a href="#">wd:Q311958</a>	Aleksander Wolszczan	2	PSR B1257+12 A, PSR B1257+12 B
<a href="#">wd:Q456119</a>	Debra Fischer	2	HD 92788 b, HD 40979 b
<a href="#">wd:Q2347721</a>	Steven S. Vogt	2	HD 52265 b, HD 114783 b
<a href="#">wd:Q124013</a>	Didier Queloz	2	HD 6434 b, 51 Pegasi b
<a href="#">wd:Q2850870</a>	Anne-Marie Lagrange	1	Beta Pictoris b
<a href="#">wd:Q7610684</a>	Stephen Thorsett	1	PSR B1620-26 b

# List of people who discovered most planets-bubble



# Birthplaces/Name:Antoine

```
1 #Birthplaces of people named Antoine
2 #added before 2016-10
3
4 # Coordinates of the birth places of people named Antoine
5 #defaultView:Map
6 SELECT ?item ?itemLabel ?coord
7 WHERE
8 {
9   ?item wdt:P735 wd:Q15235674.
10  ?item wdt:P19 ?place.
11  ?place wdt:P625 ?coord.
12  SERVICE wikibase:label { bd:serviceParam wikibase:language "fr". }
13 }
```

Press [CTRL-SPACE] to activate auto completion.

▶ Run

Clear

1447 Results in 748 ms





# Birthplaces/Name:Erik



Wikidata Query

Examples

Prefixes

Tools

Help

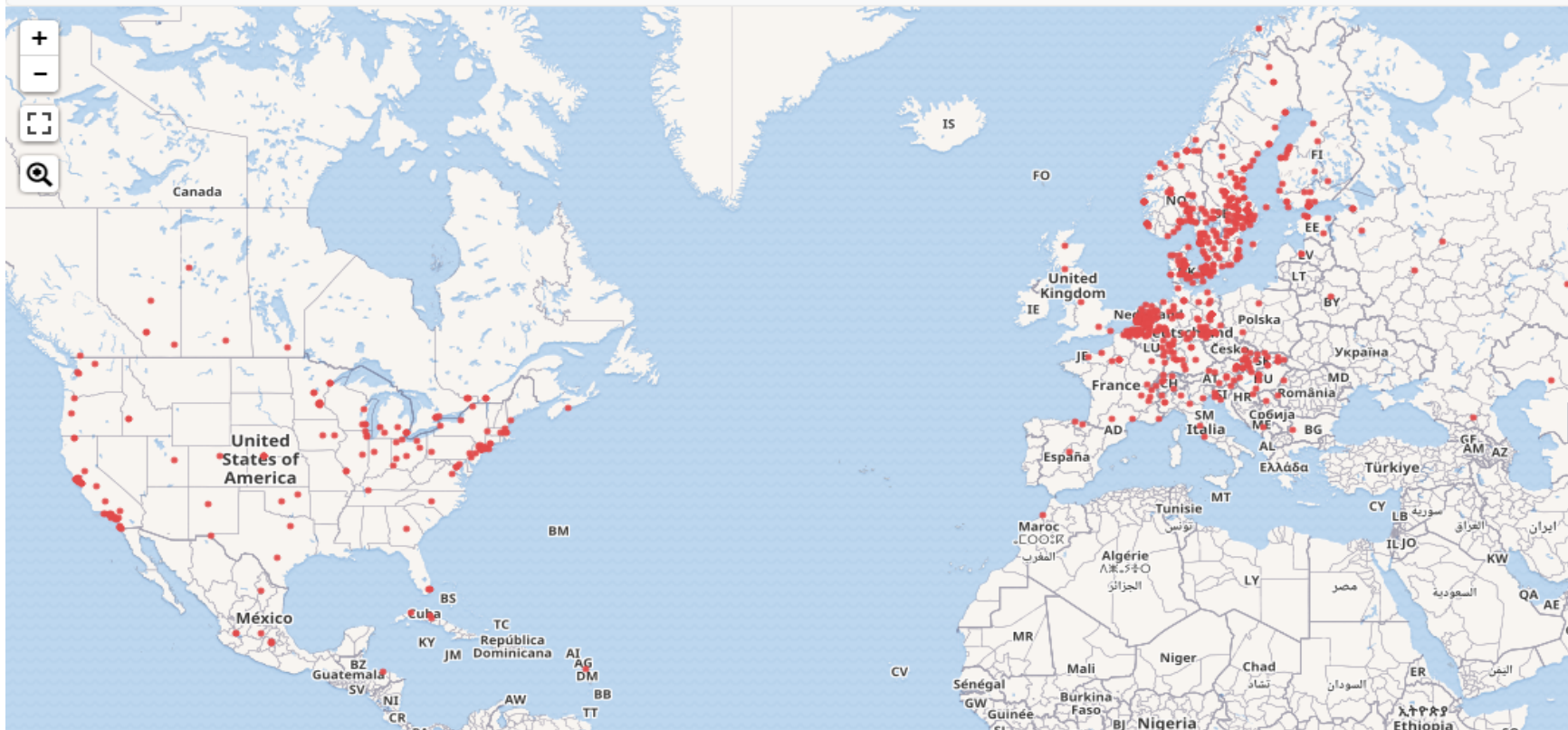
```
1 #Birthplaces of people named Erik
2 #added before 2016-10
3
4 # Coordinates of the birth places of people named Erik
5 #defaultView:Map
6 SELECT ?item ?itemLabel ?coord
7 WHERE
8 {
9   ?item wdt:P735 wd:Q750186.
10  ?item wdt:P19 ?place.
11  ?place wdt:P625 ?coord.
12  SERVICE wikibase:label { bd:serviceParam wikibase:language "en". }
13 }
```

Press [CTRL-SPACE] to activate auto completion.

Run

Clear

948 Results in 855 ms



**Wikidata first steps**

**HOW-TO**

## BEST PRACTICES

- ▶ Check for Wikidata entry
- ▶ Add new Wikidata entry if missing
- ▶ Add description in your language
- ▶ Add additional data (+ sources)

### Tools

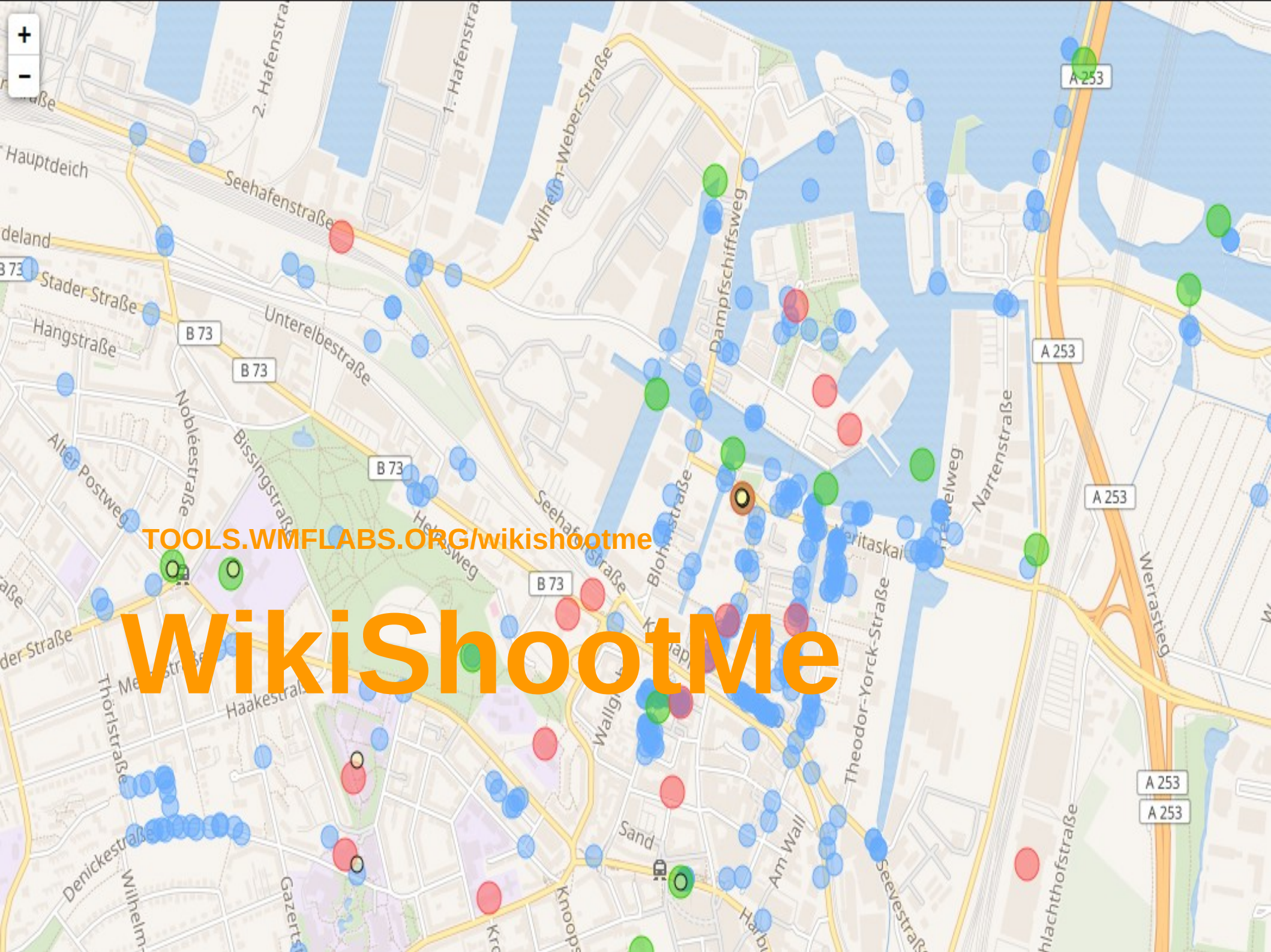
[What links here](#)  
[Related changes](#)  
[Upload file](#)  
[Special pages](#)  
[Permanent link](#)  
[Page information](#)  
[Wikidata item](#)

## PRACTICAL TEST

- ▶ Add new item
- ▶ Add Wikipedia language  
(maybe necessary to merge items)
- ▶ Add description in your language

# FUN WAYS TO IMPROVE WIKIDATA

- ▶ WikiShootMe
- ▶ Wikidata Game



TOOLS.WMFLABS.ORG/wikishootme

# WikiShootMe

# Wikidata Game

TOOLS.WMFLABS.ORG/wikidata-game

## Wikidata Game Margott

This item has no "instance of", and could be a person.



Item [Q25040725](#)

Harlem Artists Guild

enwiki: Harlem Artists Guild

[en.wikipedia.org: Harlem Artists Guild](https://en.wikipedia.org/wiki/Harlem_Artists_Guild)

The Harlem Artists Guild (1935–41) was an African-American organization founded by artists including Augusta Savage, Charles Alston, Elba Lightfoot and bibliophile Arthur Schomburg with the aims of encouraging young talent, providing a forum for the discussion of the visual arts in the community, fostering understanding between artists and the public through education towards an appreciation of art, focusing on issues of general concern to Black artists such as racism, poverty and unemployment, and cooperating with agencies to improve conditions and raise standards of living and achievement among African-American artists. It is said to have had its origins in the dissatisfaction of African-American artists with the activities of the Harmon Foundation, and was described by co-founder Alston as "a pressure group to get more black artists on the federal projects." == History == Formed in early 1935 by artists including Augusta Savage, Charles Alston and Elba Lightfoot, the Harlem Artists Guild...

Person

Not sure

Not a person

# NEED HELP?

ASK

- PROJECT CHAT
- IRC CHANNEL: #WIKIDATA
- @WIKIDATA