

# Wicked data with Wikidata

Dan Scott, Laurentian University  
@denials

100 ‡a We love  
authorities

# Unifying and disambiguating

100 1 \_ ‡a Trump, Donald, ‡d 1946-

400 1 \_ ‡a Tramps, D. Dž. ‡q (Donalds Džons), ‡d  
1946- National Library of Latvia

<https://viaf.org/viaf/49272447>

## Hot cross references

‡150 \_ \$a Dictators

‡450 \_ \$a Tyrants

‡550 \_ \$w g \$a Heads of state

# Authorities / overlords

Library of Congress

MeSH (NLM)

ISNI (ISO)

VIAF (OCLC)



The screenshot shows the homepage of the Library of Congress Authorities. At the top right, it says "LIBRARY OF CONGRESS AUTHORITIES" and "HELP PAGES". Below that, a yellow banner says "use the browser's [Back] button to resume searching". The main content area has a red background and features a large illustration of a classical figure holding a staff and a sphere. The page is titled "Frequently Asked Questions" in red. Under "Access to Authority Records", there is a numbered list of 7 questions. Under "Searching Authority Records", there is a numbered list of 12 questions.

**LIBRARY OF CONGRESS AUTHORITIES**

**HELP PAGES**

use the browser's [Back] button to resume searching

## Frequently Asked Questions

### Access to Authority Records

1. What is an **Authority Record**?
2. Are authority records **available free of charge**?
3. Are authority records **up-to-date**?
4. Are **bibliographic records and holdings information** available?
5. Is **Z39.50 access** available for Library of Congress Authorities?
6. Are **LCCN Permalinks** available for authority records?
7. Are authority records available as **linked data**?

### Searching Authority Records

8. Can authority records be **searched by LCCN**?
9. Can **name and subject authorities** be searched in a single query?
10. Can authority records be **searched by keyword(s)**?
11. How can I search for **headings with punctuation, diacritics, or special characters**?
12. Is it possible to **search subject subdivisions** and the display of full subject heading

# Google Knowledge Graph



## Donald Trump



45th U.S. President



[donaldjtrump.com](http://donaldjtrump.com)

Donald John Trump is an American businessman, television personality, politician, and the 45th President of the United States. [Wikipedia](#)

**Born:** June 14, 1946 (age 70 years), [Jamaica Hospital Medical Center](#)

**Net worth:** 3.7 billion USD (2017) [Forbes](#)

**Spouse:** [Melania Trump](#) (m. 2005), [Marla Maples](#) (m. 1993–1999), [Ivana Trump](#) (m. 1977–1992)

**Children:** [Ivanka Trump](#), [Tiffany Trump](#), [Eric Trump](#), [Donald Trump Jr.](#), [Barron Trump](#)

**Education:** [Wharton School of the University of Pennsylvania](#) (1968), more

### Profiles



Twitter



Facebook



Instagram



YouTube



Google+

### Movies and TV shows

[View 5+ more](#)



The



The



54



The



The

[Basic Search](#)[Advanced Search](#)

# Browse

Browse through a virtual index of titles, authors, subjects, or series for a particular library, for a library system, or for all of PINES. If browsing by author, type in the first letters of the last name.

Browse for **Authors** ▾ starting with **trump, donald** in

All PINES Libraries ▾

**Browse**

← Back      Next →

- [Trumbull, James 1927-](#) (1)
- [Trumbull, John 1756-1843](#) (3)
- [Trumbull, Peter](#) (4)
- [Trumbull, Robert.](#) (9)
- [TRUMBULL, ROBERT OLIVER.](#) (1)
- [Trumbull Stickney/](#) (1)
- [Trumbull Stickney \(1874-1904\) /](#) (1)
- Trumén, G., 1884-1972
  - See Also From Tracing -- Corporate Name [United States. President \(1945-1953 : Truman\)](#) (1)
  - Heading -- Personal Name [Truman, Harry S., 1884-1972](#) (164)
- [Trump, David H.](#) (2)
- [Trump, Donald 1946-](#) (51)
- [TRUMP DONALD J.](#) (1)
- [Trump, Donald J.](#) (2)
- [Trump, Donald J..](#) (1)
- [Trump, Fred.](#) (1)
- [Trump, Ivana](#) (7)
- [Trump, Ivanka 1981-](#) (3)
- [Trump, Kenneth S.](#) (1)
- [Trump, Richard F. 1912-](#) (1)
- [Trump, Shawn.](#) (2)
- [Trump University.](#) (4)

← Back      Next →

# Rich relationships



[More images](#)

## Donald Trump



45th U.S. President



[donaldjtrump.com](http://donaldjtrump.com)

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### Profiles



[Twitter](#)



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[Google+](#)

### Movies and TV shows

[View 5+ more](#)



The



The



54



The



The

1,191,376,874

Facts  
(and counting)

A community-curated database of well-known people, places, and things

[Sign in](#) with your Google account to join the community[Data](#)[Schema](#)[Queries](#)[Apps](#)[Loads](#)[Review Tasks](#)[Users](#)

## Explore Freebase Data

Domain	ID	Topics	Facts
Music	/music	24M	161M
Media	/media_common	7M	23M
Books	/book	6M	37M
People	/people	3M	13M
TV	/tv	1M	15M
Film	/film	1M	13M
Location	/location	1M	16M
Organization	/organization	772K	4M
Business	/business	711K	2M
Fictional Universes	/fictional_universe	538K	846K
Sports	/sports	361K	2M
Biology	/biology	278K	3M
Education	/education	244K	2M
Awards	/award	199K	2M
Government	/government	142K	795K
Soccer	/soccer	127K	1M
Architecture	/architecture	124K	401K
Video Games	/cvg	118K	915K

## How can you get started?

## Learn how it works

Discover what kind of information Freebase contains, how it's organized, and how Freebase allows you to uniquely identify identities anywhere on the web

[Keep reading »](#)

## Use Freebase data

Freebase data is free to use under an [open license](#). You can:

- Query Freebase using our [Search](#), [Topic](#), or [MQL APIs](#)
- [Download](#) our weekly data dumps

## Join the Community

- Follow [Freebase on G+](#)
- Subscribe to the mailing list for community discussion:

[Subscribe](#)[Read the List Archive](#)

"We believe  
strongly in a robust  
community-driven  
effort to collect  
and curate  
structured  
knowledge about  
the world" - [Google](#)



100,000 requests  
per day, free



## Google Knowledge Graph Search API

### Contents

Typical use cases

Sample request

Knowledge Graph entities

The Knowledge Graph Search API lets you find entities in the [Google Knowledge Graph](#). The API uses standard [schema.org](#) types and is compliant with the [JSON-LD](#) specification.

### Typical use cases



Some examples of how you can use the Knowledge Graph Search API include:

- Getting a ranked list of the most notable entities that match certain criteria.
- Predictively completing entities in a search box.
- Annotating/organizing content using the Knowledge Graph entities.



**Note:** The Knowledge Graph Search API is a read-only API.

For detailed information about the API methods and parameters, see the [API Reference](#).

## Google Knowledge Graph Search API result != Knowledge Graph card info

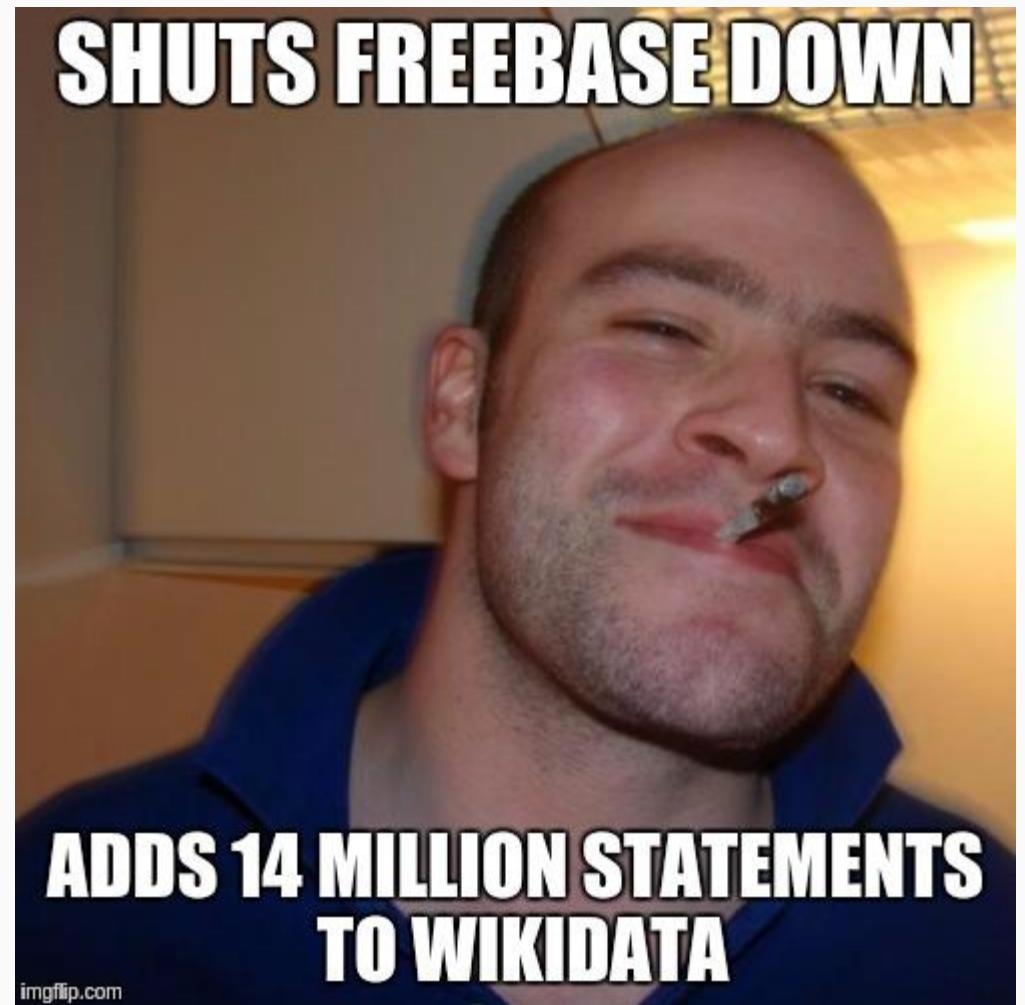
```
{  
  "@type": "EntitySearchResult",  
  "result": {  
    "@id": "kg:/m/0cqt90",  
    "name": "Donald Trump",  
    "@type": [ "Person", "Thing" ],  
    "description": "45th U.S. President",  
    "image": {  
      "contentUrl":  
"http://t2.gstatic.com/images?q=tbn:ANd9GcRJNzU33KiweQzfVzmlUgMp8vXBA5jGMRFylj5FQ7  
TwJz0JlNui",  
      "url":  
"https://en.wikipedia.org/wiki/Donald_Trump_and_Billy_Bush_recording",  
      "license": "http://creativecommons.org/licenses/by-sa/2.0"  
    },  
    "detailedDescription": {  
      "articleBody": "Donald John Trump is an American businessman, television personality, politician, and the 45th President of the United States.\nBorn and raised in Queens, New York City, Trump received an economics degree from the Wharton School of the University of Pennsylvania in 1968. ",  
      "url": "https://en.wikipedia.org/wiki/Donald_Trump",  
      "license":  
"https://en.wikipedia.org/wiki/Wikipedia:Text_of_Creative_Commons_Attribution-Shar  
eAlike_3.0_Unported_License"  
    },  
    "url": "https://www.donaldjtrump.com/"  
  },  
  "resultScore": 1670.089844  
}
```

Google Knowledge Graph Search API result != Knowledge Graph card info

```
{  
  "@type": "EntitySearchResult",  
  "result": {  
    "@id": "kg:/m/0cqt90",  
    "name": "Donald Trump",  
    "@type": [ "Person", "Thing" ],  
    "description": "45th U.S. President",  
    "image": {  
      "contentUrl":  
        "http://t2.gstatic.com/.../TwJz0JlNuI",  
      "url":  
        "https://en.wikipedia.org/wik.../Donald_Trump",  
      "license": "https://creativecommons.org/licenses/by-sa/3.0/",  
    },  
    "detailedDescription":  
      "articleBody":  
        "personality, political views, and business interests. He was raised in Queens, New York, and attended the Wharton School of the University of Pennsylvania, where he graduated with a degree in finance. He has also studied at the University of Michigan and the University of Texas at Austin.",  
      "url": "https://en.wikipedia.org/wik.../Donald_Trump",  
      "license": "https://creativecommons.org/licenses/by-sa/3.0/",  
    "resultScore": 1670.089844  
  }  
}
```

# No facts or relationships

Bad guy Google /  
good guy Google?



# Wikidata growing nicely

Wikidata Stats

Tools Git Talk



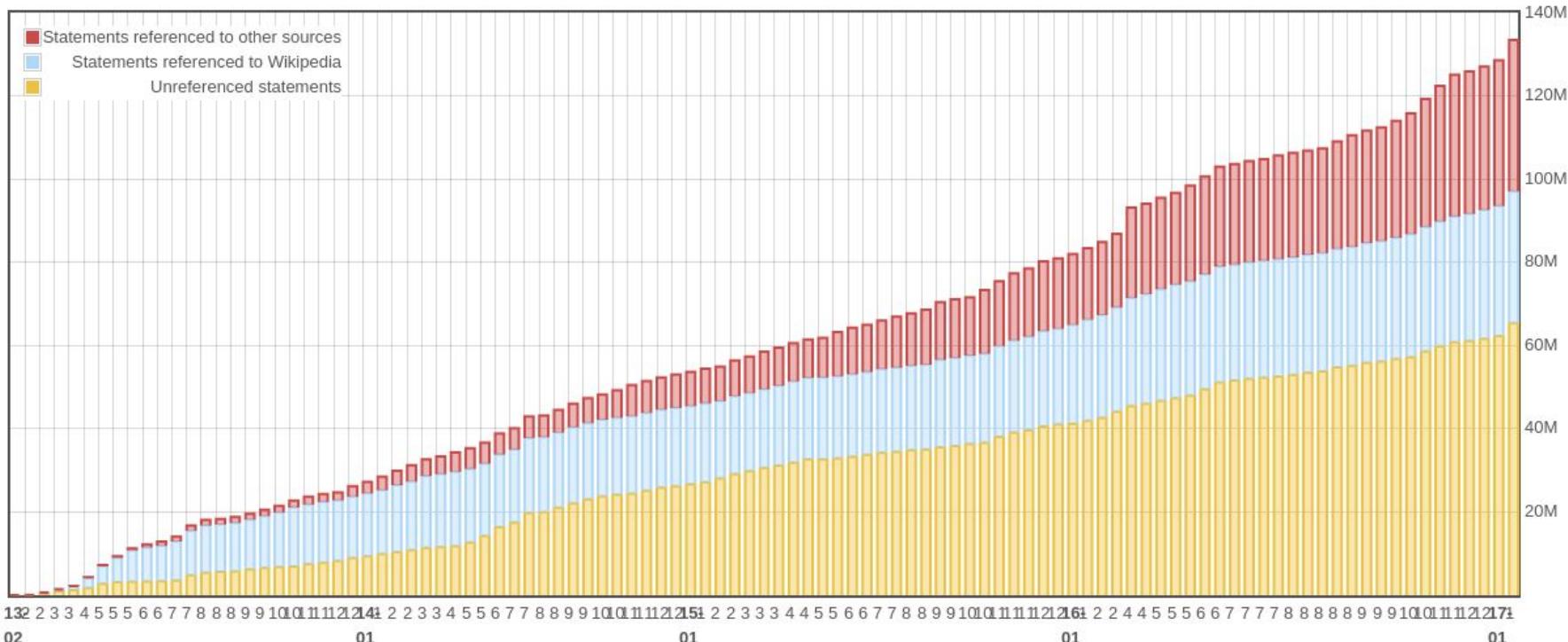
These statistics are based on bi-weekly Wikimedia snapshots. Note: Statements can be referenced to both Wikipedia and other sources.

Show reverse stacks

## Overview

Table

Plot



<https://tools.wmflabs.org/wikidata-todo/stats.php>



Main Page Discussion

A あ English Dan scott Talk Preferences Beta Watchlist Contributions Log out

Read View source View history

Search Wikidata



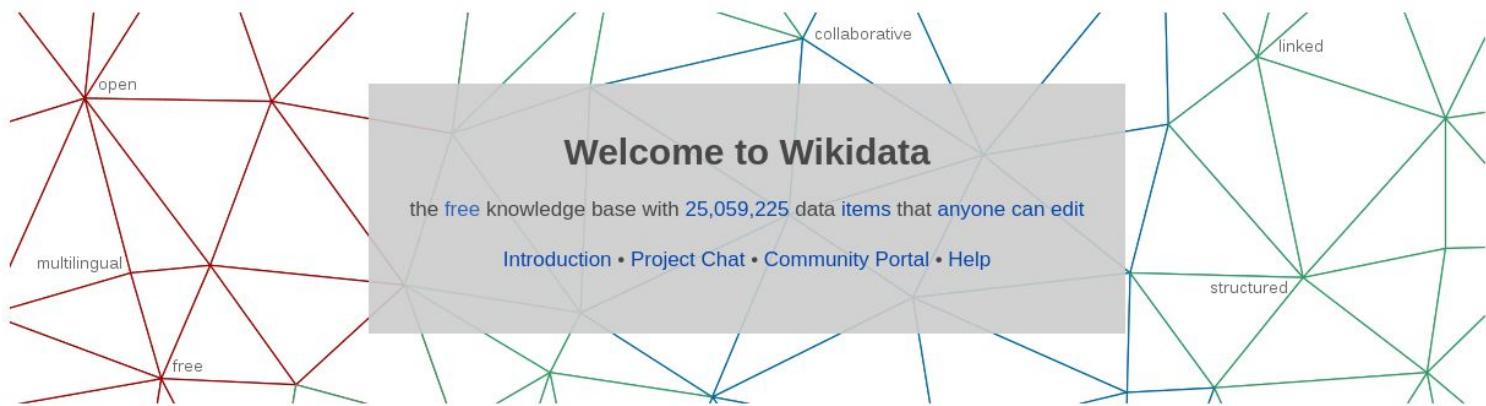
Main page  
Community portal  
Project chat  
Create a new item  
Item by title  
Recent changes  
Random item  
Query Service  
Nearby  
Help  
Donate

Print/export  
Create a book  
Download as PDF  
Printable version

In other projects  
Wikimedia Commons  
MediaWiki  
Meta-Wiki  
Wikispecies  
Wikibooks  
Wikinews  
Wikipedia  
Wikiquote  
Wikisource  
Wikiversity  
Wikivoyage

Tools  
What links here  
Related changes  
Special pages  
Permanent link  
Page information  
Wikidata item

In Wikipedia  
Qaфар af  
Аҧсшәа  
Acéh  
Адыгабзэ  
Afrikaans



## Welcome!

Wikidata is a free and open knowledge base that can be read and edited by both humans and machines.

Wikidata acts as central storage for the **structured data** of its Wikimedia sister projects including Wikipedia, Wikivoyage, Wikisource, and others.

Wikidata also provides support to many other sites and services beyond just Wikimedia projects! The content of Wikidata is available under a free license, exported using standard formats, and can be interlinked to other open data sets on the linked data web.

## Get involved

### Explore the project:

- Learn all about Wikidata and how it works
- Check out a showcase item for author Douglas Adams
- Browse the Frequently Asked Questions
- Understand how to navigate the site
- Test out the software at the Wikidata sandbox
- Find help and relevant documentation

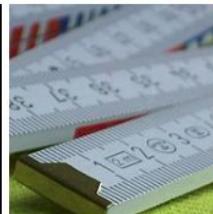
[Start contributing](#)

## Learn about data

New to the wonderful world of data? Develop and improve your data literacy through content designed to get you up to speed and feeling comfortable with the fundamentals in no time.



item: *Earth* (Q2)



property: *highest point* (P610)



custom value: *Mount Everest* (Q513)

## Popular items

- John Hurt (Q200405) (pictured)
- Brunhilde Pomsel (Q21005215)
- 2017 Quebec City mosque shooting (Q28549976)



# DBpedia is not Wikidata

The screenshot shows the official DBpedia website. At the top, there is a blue header bar with the DBpedia logo (a stylized yellow and blue node graph) on the left. The header includes navigation links: ABOUT, PROJECTS & USE CASES (with a dropdown arrow), SERVICES & RESOURCES (with a dropdown arrow), EVENTS, PUBLICATIONS (with a dropdown arrow), GET INVOLVED (with a dropdown arrow), SUPPORT, and a link to "Subscribe to our newsletter...". To the right of the header is a search bar with the placeholder "Search this website..." and a magnifying glass icon.

Below the header, the main content area has a large blue background featuring a stylized gear or interconnected nodes. In the center, the DBpedia logo is displayed with the word "DBpedia" in a large, bold, dark blue sans-serif font. Above the logo is a smaller version of the node graph icon. To the right of the logo is a circular badge with the text "CLICK GET INVOLVED HERE" in a stylized font.

On the left side of the main content area, there is a vertical sidebar with two items: "Projects" and "Use Cases".

Below the main title, there is a subtitle: "Towards a Public Data Infrastructure for a Large, Multilingual, Semantic Knowledge Graph".

At the bottom of the main content area, there are social media sharing icons for Facebook, Google+, Twitter, YouTube, and RSS feed.

A white callout box is overlaid on the bottom left of the page, containing the heading "FEATURED PROJECTS" and a section titled "PROJECT RelFinder". It includes a small icon of a computer monitor with an arrow pointing out from it, the name "RelFinder", and a brief description: "Are you interested in how things are related with each other? The flash-based RelFinder helps to get an overview: It extracts and visualizes relationships between given objects in RDF data and makes these relationships interactively explorable." Below the callout box, there is a horizontal ellipsis consisting of five small gray dots.

# Searching Wikidata for entities

A あ English Dan scott Talk Preferences Beta Watchlist Contributions Log out

Read View source View history Search Wikidata

Welcome to Wikidata

>Welcome to Wikidata

collaborative linked structured

Search Wikidata

The screenshot shows the main page of Wikidata. At the top, there is a navigation bar with links for English, user profile, and various site features. Below the navigation bar is a search bar labeled "Search Wikidata" with a magnifying glass icon and a dropdown arrow. A yellow box highlights the search bar. The main content area features a large, semi-transparent gray box containing the text "Welcome to Wikidata". Behind the box, there is a network diagram consisting of several green lines connecting nodes, with three specific nodes labeled "collaborative", "linked", and "structured". The bottom of the page has a footer with links to "Introduction", "Project Chat", "Community Portal", and "Help".

Complete with auto-complete

The screenshot shows the Wikidata homepage with a search bar containing "donald t". A dropdown menu lists several suggestions:

- Donald Trump**  
45th President of the United States of America
- Donald Tansley**
- Donald Tusk**  
polish politician
- Donald Trump Jr.**  
US businessman, son of President Donald Trump
- Donald Tsang**  
Hong Kong politician
- Donald Thomas**  
Athletics competitor
- Donald Regan (Donald Thomas Regan)**  
American cabinet official

At the bottom of the dropdown, it says "containing..." followed by "donald t". The page also features a large "Welcome to Wikidata" banner and a "collaborative" network diagram.

# Item page - human readable



Main page  
Community portal  
Project chat  
Create a new item  
Item by title  
Recent changes  
Random item  
Query Service  
Nearby  
Help  
Donate

Tools  
What links here  
Related changes  
Special pages  
Permanent link  
Page information  
Concept URI  
Cite this page

English Dan scott Talk Preferences Beta Watchlist Contributions Log out

Item Discussion Read View history Search Wikidata

## Donald Duck (Q6550)

animal cartoon character

Donald Fauntleroy Duck

In more languages Configure

Language	Label	Description	Also known as
English	Donald Duck	animal cartoon character	Donald Fauntleroy Duck
French	Donald Duck	personnage de l'univers de Disney	
Italian	Paperino	personaggio immaginario della Disney	Paolino Paperino
German	Donald Duck	Comic- und Zeichentrick-Figur aus dem Disney-Studio	

All entered languages

### Statements

instance of

- fictional duck
  - 0 references
  - + add reference
- funny animal
  - 0 references
  - + add reference

image

- The Spirit of 43-Donald Duck, cropped version.jpg
  - 0 references
  - + add reference
  - + add

Wikipedia (80 entries) edit

af	Donald Duck
als	Donald Duck
ar	بطوطة
az	Donald Dak (personaj)
bg	Доналд Дък
bo	ପାତୋଙ୍କ
br	Donald Duck
bs	Pajo Patak
ca	Ànec Donald
ceb	Donald Duck
cs	Kačer Donald
da	Anders And
de	Donald Duck
el	Ντόναλντ Ντόκ
en	Donald Duck
eo	Donaldo Anaso
es	Pato Donald
et	Piilupart Donald
eu	Donald ahatea
fa	دانلد داک
fi	Aku Ankka
fo	Dunnaldur Dunna
fr	Donald Duck
fy	Donald Duck
ga	Donald Duck
gl	Pato Donald
gu	દોનાલ્ડ ડુક
he	דונלד דונגן
hi	डोनाल्ड डक
hr	Paško Patak
hu	Donald kacska



Main page  
Community portal  
Project chat  
Create a new item  
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Tools  
What links here  
Related changes  
Special pages  
Permanent link  
Page information  
Concept URI  
Cite this page

Item Discussion

A あ English 🇺🇸 Dan scott 💬 Talk Preferences Beta Watchlist Contributions Log out

## Donald Duck (Q6550)

animal cartoon character

Donald Fauntleroy Duck

edit

▼ In more languages [Configure](#)

Language	Label	Description	Also known as
English	Donald Duck	animal cartoon character	Donald Fauntleroy Duck
French	Donald Duck	personnage de l'univers de Disney	
Italian	Paperino	personaggio immaginario della Disney	Paolino Paperino
German	Donald Duck	Comic- und Zeichentrick-Figur aus dem Disney-Studio	

[All entered languages](#)

### Statements

instance of	<a href="#">fictional duck</a> <a href="#">edit</a> ▼ 0 references <a href="#">+ add reference</a>
	<a href="#">funny animal</a> <a href="#">edit</a> ▼ 0 references <a href="#">+ add reference</a> <a href="#">+ add</a>

image	<a href="#">The Spirit of 43-Donald Duck, cropped version.jpg</a> <a href="#">edit</a> ▼ 0 references <a href="#">+ add reference</a> <a href="#">+ add</a>
-------	---

Wikipedia (80 entries) [edit](#)

af	Donald Duck
als	Donald Duck
ar	بطوطة
az	Donald Dak (personaj)
bg	Доналд Дък
bo	ପାତୋପାତାକ
br	Donald Duck
bs	Pajo Patak
ca	Ànec Donald
ceb	Donald Duck
cs	Kačer Donald
da	Anders And
de	Donald Duck
el	Ντόναλντ Ντόκ
en	Donald Duck
eo	Donaldo Anaso
es	Pato Donald
et	Piilupart Donald
eu	Donald ahatea
fa	دانلد داک
fi	Aku Ankka
fo	Dunnaldur Dunna
fr	Donald Duck
fy	Donald Duck
ga	Donald Duck
gl	Pato Donald
gu	દોનાલ્ડ ડુક
he	דונלד דונק
hi	ডোনাল্ড ডক
hr	Paško Patak
hu	Donald kacska

<https://www.wikidata.org/wiki/Q6550.json>

```
{  
  "entities": {  
    "Q6550": {  
      "pageid": 7674,  
      "ns": 0,  
      "title": "Q6550",  
      "lastrevid": 439312714,  
      "modified": "2017-01-30T10:54:43Z",  
      "type": "item",  
      "id": "Q6550",  
      "labels": {  
        "fr": { "language": "fr", "value": "Donald Duck" },  
        "en": { "language": "en", "value": "Donald Duck" },  
        "ar": { "language": "ar", "value": "بطوطة" }  
      },  
      "claims": {  
        "P1080": [  
          {  
            "mainsnak": {  
              "snaktype": "value",  
              "property": "P1080",  
              "datavalue": {  
                "value": {  
                  "entity-type": "item",  
                  "numeric-id": 12301358,  
                  "id": "Q12301358"  
                },  
                "type": "wikibase-entityid"  
              }  
            }  
          }  
        ]  
      }  
    }  
  }  
}
```

SPARQL is magic



## Awards received by Donald Trump

```
SELECT ?awardLabel ?year ?forWorkLabel  
WHERE {  
  BIND ( wd:Q22686 as ?human ) .  
  ?human p:P166 ?awardStmt .  
  ?awardStmt ps:P166 ?award .  
  ?awardStmt pq:P585 ?date .  
  BIND(YEAR(?date) AS ?year) .  
  OPTIONAL { ?awardStmt pq:P1686 ?forWork . }  
  SERVICE wikibase:label { bd:serviceParam wikibase:language "en"  
}  
}  
  
ORDER BY DESC(?year)
```

<http://tinyurl.com/gmpeen5z>

awardLabel	year	forWorkLabel
Time Person of the Year	2016	
Star on Hollywood Walk of Fame	2007	
Golden Raspberry Award for Worst Supporting Actor	1990	Ghosts Can't Do It
Ellis Island Medal of Honor	1986	
Jewish National Fund Tree of Life Award	1983	

# Other humans who have received the same awards

<http://tinyurl.com/hd2wv2m>

Wikidata Query Examples Prefixes Tools Help English

```
1 SELECT ?humanLabel ?awardLabel ?year ?forWorkLabel
2 WHERE {
3   ?human p:P166 ?awardStmt .
4   ?human wdt:P31 wd:Q5 .
5   ?awardStmt ps:P166 ?award .
6   ?awardStmt pq:P585 ?date .
7   wd:Q22686 wdt:P166 ?award .
8   BIND(YEAR(?date) AS ?year) .
9   OPTIONAL { ?awardStmt pq:P1686 ?forWork . }
10  SERVICE wikibase:label { bd:serviceParam wikibase:language "en" }
11 }
12 ORDER BY DESC(?year)
```

Find instance of human with Donald Trump award received

Show award received , for work

Limit

Press [CTRL-SPACE] to activate auto completion.

Data updated **a few seconds** ago

Run

Clear

33 Results in 294 ms

Display

Download

Link

humanLabel	awardLabel	year	forWorkLabel
Donald Trump	Time Person of the Year	2016	
Angela Merkel	Time Person of the Year	2015	
Ellen DeGeneres	Star on Hollywood Walk of Fame	2012	
Barack Obama	Time Person of the Year	2012	
Billy Ray Cyrus	Golden Raspberry Award for Worst Supporting Actor	2009	Hannah Montana: The Movie
Barack Obama	Time Person of the Year	2008	
Vladimir Putin	Time Person of the Year	2007	



Item Discussion

Read

View history



Search Wikidata



# Mother Mother (Q2739716)

No description defined



## In more languages Configure

Language	Label	Description	Also known as
English	Mother Mother	No description defined	
French	Mother Mother	groupe de musique canadien	

## Statements

inception

2005



### 2 references

imported from English Wikipedia

reference URL [https://www.thestar.com/entertainment/music/2011/03/08/mother\\_mothers\\_musical\\_moves.html](https://www.thestar.com/entertainment/music/2011/03/08/mother_mothers_musical_moves.html)

stated in Toronto Star

title Mother Mother's musical moves (English)  
publication date 8 March 2011

+ add reference

+ add

[Main page](#)[Community portal](#)[Project chat](#)[Create a new item](#)[Item by title](#)[Recent changes](#)[Random item](#)[Query Service](#)[Nearby](#)[Help](#)[Donate](#)[Tools](#)[What links here](#)[Related changes](#)[Special pages](#)[Permanent link](#)[Page information](#)[Concept URI](#)[Cite this page](#)

## Notability

Wikidata in its first phases has two main goals: **to centralize interlanguage links** across Wikimedia projects and **to serve as a general knowledge base** for the world at large.

An item is notable if "[i]t fulfills some structural need, for example: it is needed to make statements made in other items more useful."

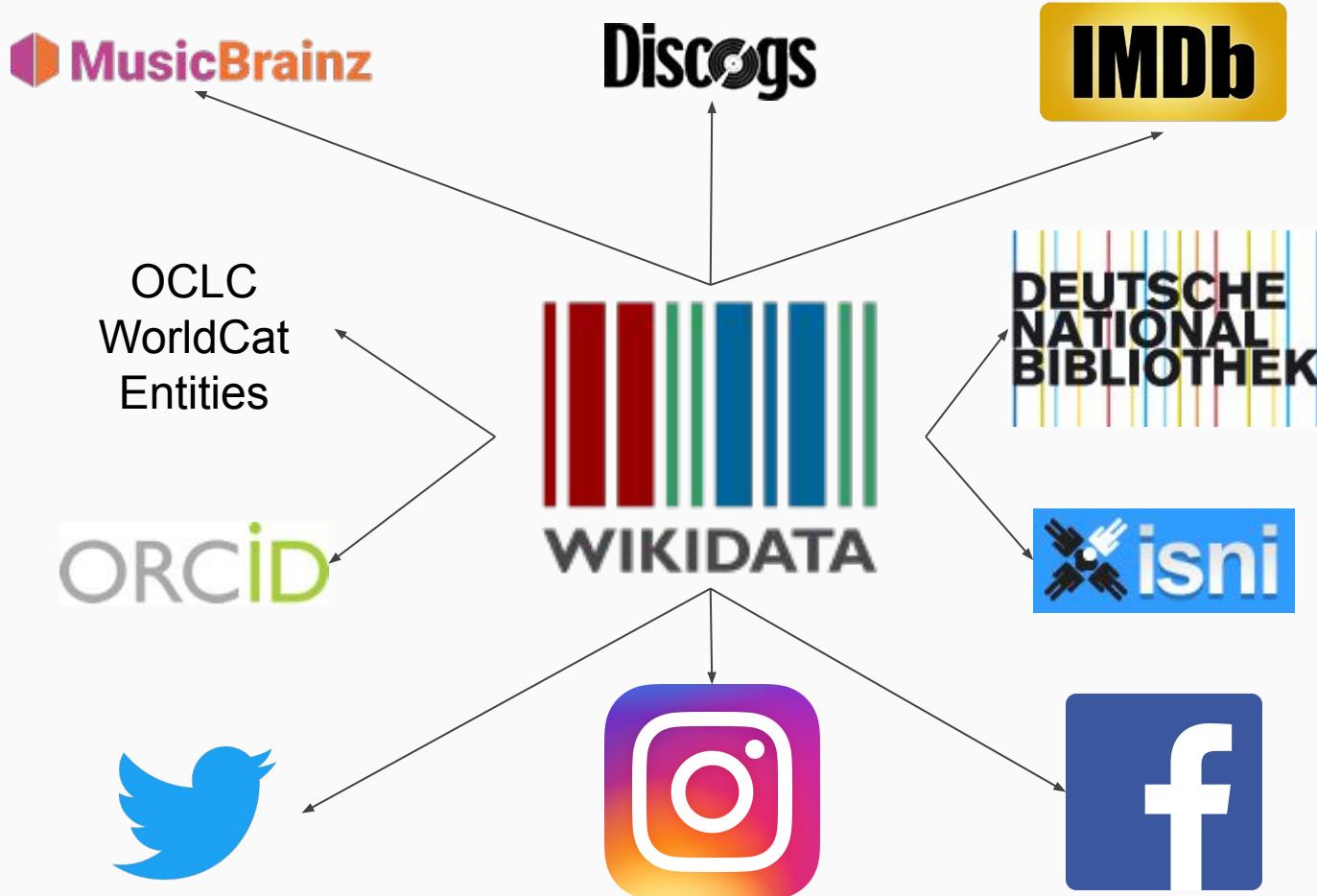
<https://www.wikidata.org/wiki/Wikidata:Notability>

## Anonymous or authenticated edits



[https://commons.wikimedia.org/wiki/File:Anonymous\\_Guy\\_Fawkes\\_Mask\\_Scientology\\_Protest\\_Minneapolis\\_2255698712.jpg](https://commons.wikimedia.org/wiki/File:Anonymous_Guy_Fawkes_Mask_Scientology_Protest_Minneapolis_2255698712.jpg)

## Promiscuous authority linkage



## From old inline Wikipedia markup:

```
{ {Authority control |VIAF=xxxxxx |LCCN=n/xx/xxxxxx |ISNI=xxxx  
xxxx xxxx xxxx |ORCID=xxxx-xxxx-xxxx-xxxx |GND=xxxxxx  
|SELIBR=xxxxxx |SUDOC=xxxxxxxxx |BNF=xxxxxx |BPN=xxxxxx  
|RID=xxxxx |BIBSYS=xxxxx |ULAN=xxxxx |MBA=xxxxxx |NLA=xxxxxxx  
|NDL=xxxxxxxx } }
```

## To new inline Wikipedia markup:

```
{ {Authority control} }
```

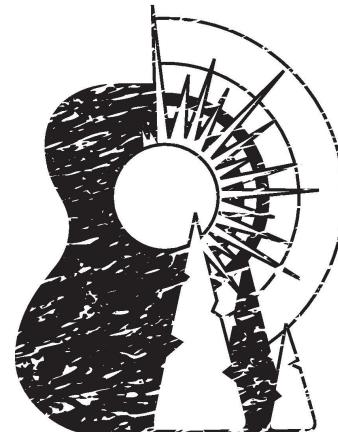
# Opportunity:

- Rich local collections
- Autonomy
- Authority control
- Globally visible

Amplify  
Canadian music  
in Wikipedia!

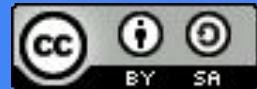


MARIPOSA  
FOLK FESTIVAL



NORTHERN  
LIGHTS  
FESTIVAL  
BORÉAL

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