



# Wikidata and its community

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December 2017  
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**Giving more  
people  
more  
access to  
more  
knowledge!**

# What is Wikidata?

- A knowledge base
- Part of the Wikimedia projects
- Structured data
- Linked to other databases
- Multilingual
- Collaborative
- Released under public domain (CC0)
- Based on facts and references
- Made for humans and machines

# Why Wikidata?

- Provide structured data for Wikipedia
- ...and the other Wikimedia projects
- ...and the rest of the world

## South Pole Telescope

From Wikipedia, the free encyclopedia

Coordinates: 90°S 0°E﻿ / ﻿90°S 0°E﻿ / -90; 0﻿ / -90; 0

The **South Pole Telescope (SPT)** is a 10 meter (394 in) diameter telescope located at the **Amundsen–Scott South Pole Station**, Antarctica. The telescope is designed for observations in the **microwave**, **millimeter-wave**, and **submillimeter-wave** regions of the electromagnetic spectrum, with the particular design goal of measuring the faint, diffuse emission from the **cosmic microwave background (CMB)**.<sup>[1]</sup> The first major survey with the SPT—designed to find distant, massive, **clusters of galaxies** through their interaction with the CMB, with the goal of constraining the **dark energy** equation of state—was completed in October 2011. In early 2012, a new camera was installed on the SPT with even greater sensitivity and the capability to measure the polarization of incoming light. This camera is designed to measure the so-called "B-mode" or "curl" component of the polarized CMB, leading to constraints on the mass of the **neutrino** and the energy scale of **inflation**.<sup>[2]</sup>

The SPT collaboration is made up of over a dozen (mostly North American) institutions, including the **University of Chicago**, the **University of California–Berkeley**, **Case Western Reserve University**, **Harvard-Smithsonian Astrophysical Observatory**, the **University of Colorado–Boulder**, **McGill University**, the **University of Illinois at Urbana-Champaign**, **University of California at Davis**, **Ludwig Maximilian University of Munich**, **Argonne National Laboratory**, and the **National Institute for Standards and Technology**. It is funded by the **National Science Foundation**.

### Contents

- Microwave/millimeter-wave observations at the South Pole
- The telescope
- The SPT-SZ camera
- The SPTpol camera
- Science goals
- Funding
- Current status
- See also
- References
- External links

## Microwave/millimeter-wave observations at the South Pole

The South Pole is the premier observing site in the world for millimeter-wavelength observations. The Pole's high altitude (2.8 km/1.7 mi above sea level) means the atmosphere is thin, and the extreme cold keeps the amount of water vapor in the air low.<sup>[3]</sup> This is particularly important for observing at millimeter wavelengths, where incoming signals can be **absorbed by water vapor**, and where water vapor emits radiation that can be confused with astronomical signals. Because the sun does not rise and set daily, the atmosphere at the pole is particularly stable. Further, there is no interference from the sun in the millimeter range during the months of polar night.

## The telescope

The telescope is a 10-meter (394 in) diameter off-axis **Gregorian telescope** in an **altazimuth mount** (at the poles, an altazimuth mount is effectively identical to an **equatorial mount**). It

## South Pole Telescope



The South Pole Telescope in November 2009

**Location(s)** Amundsen–Scott South Pole Station, Antarctic Treaty area<sup>[\*]</sup>

**Coordinates** 90°S 0°E﻿ / ﻿90°S 0°E﻿ / -90; 0﻿ / -90; 0

**Altitude** 2.8 kilometre

**Built** November 2006–February 2007

**First light** 16 February 2007

**Telescope style** Gregorian telescope, radio telescope

**Diameter** 10.0 metre

**Collecting area** 78.5 square metre

**Website** poles.uchicago.edu/

Related media on Wikimedia Commons

[edit on Wikidata]

# Douglas Adams (Q42)

English writer and humorist

[edit](#)

[Douglas Noël Adams](#) | [Douglas Noel Adams](#) | [Douglas N. Adams](#) | [DNA](#)

**▼ In more languages**

Language	Label	Description	Also known as
English	Douglas Adams	English writer and humorist	Douglas Noël Adams Douglas Noel Adams Douglas N. Adams DNA
German	Douglas Adams	britischer Schriftsteller	Douglas Noël Adams Douglas Noel Adams
French	Douglas Adams	écrivain anglais de science-fiction	Douglas Noel Adams Douglas Noël Adams
Italian	Douglas Adams	scrittore inglese	Douglas Noel Adams Douglas N. Adams

[All entered languages](#)

## Statements

**instance of**  human [edit](#)

[▶ 2 references](#)

[+ add value](#)

**image**  Douglas adams portrait cropped.jpg [edit](#)

[media legend](#)

Portræt af Douglas Adams (Danish)

Douglas Adams portrait. (English)

Portrait de Douglas Adams. (French)

## Wikipedia (71 entries) [edit](#)

- [ar](#) دوڭلاس آدمز
- [arz](#) دوڭلاس ادامز
- [ast](#) Douglas Adams
- [azb](#) دافلاس آدامز
- [az](#) Duqlas Adams
- [bar](#) Douglas Adams
- [be\\_x\\_old](#) Дуглас Адамз
- [be](#) Дуглас Адамс
- [bg](#) Дъглас Адамс
- [bn](#) ডগলাস অ্যাডামস
- [bs](#) Douglas Adams
- [ca](#) Douglas Adams
- [cs](#) Douglas Adams
- [cy](#) Douglas Adams
- [da](#) Douglas Adams
- [de](#) Douglas Adams
- [el](#) Ντάρκλας Άνταμς
- [en](#) Douglas Adams
- [eo](#) Douglas Adams
- [es](#) Douglas Adams
- [et](#) Douglas Adams
- [eu](#) Douglas Adams
- [fa](#) داگلاس آدامز
- [fi](#) Douglas Adams
- [fr](#) Douglas Adams
- [ga](#) Douglas Adams
- [gl](#) Douglas Adams
- [he](#) דאָגלס אַדמס
- [hr](#) Douglas Adams

- [Main page](#)
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- [Create a new item](#)
- [Recent changes](#)
- [Random item](#)
- [Query Service](#)
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- [Tools](#)
- [What links here](#)
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- [Permanent link](#)
- [Page information](#)
- [Concept URI](#)
- [Cite this page](#)
- [Automatic addition](#)



height



1.96 metre

[edit](#)

[▶ 1 reference](#)

[+ add value](#)

nominated for



Hugo Award for Best Dramatic Presentation

[edit](#)

for work

The Hitchhiker's Guide to the Galaxy

point in time

1979

[▼ 0 references](#)

[+ add reference](#)



Locus Award for Best Science Fiction Novel

[edit](#)

point in time

1983

for work

Life, the Universe and Everything

[▼ 0 references](#)

[+ add reference](#)

[+ add value](#)

educated at



St John's College

[edit](#)

end time

1974

academic major

English literature

academic degree

Bachelor of Arts

start time

1971

[▶ 2 references](#)



Brentwood School

[edit](#)

end time

1970

start time









1959

[▼ 0 references](#)

[+ add reference](#)

[+ add value](#)

## Identifiers

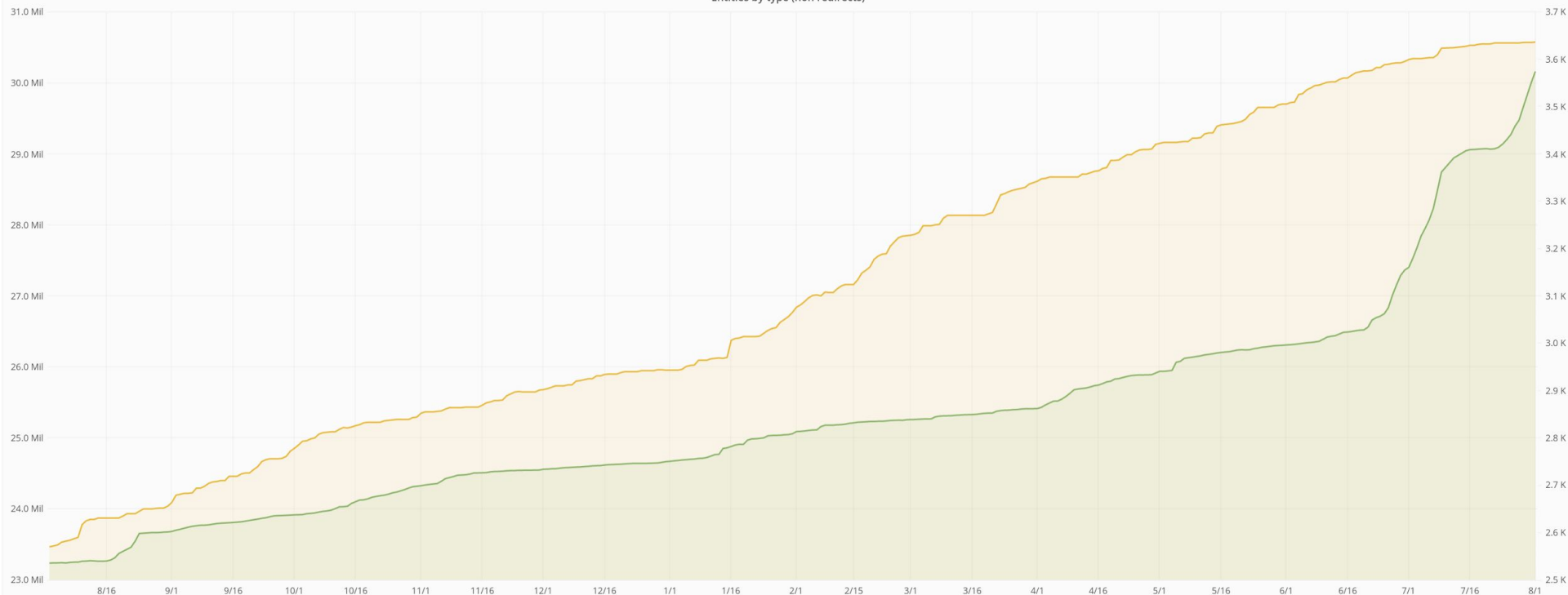
BIBSYS ID	 90196888	 edit
	▼ 0 references	+ add reference
		+ add value
LNB ID	 000057405	 edit
	▶ 1 reference	
		+ add value
Library of Congress authority identifier	 n80076765	 edit
	▶ 1 reference	
		+ add value
RSL ID (person)	 000002833	 edit
	▶ 1 reference	
		+ add value
VIAF ID	 113230702	 edit
	▶ 1 reference	
		+ add value
IMDb ID	 nm0010930	 edit
	▶ 1 reference	
		+ add value

# Wikidata over the last year





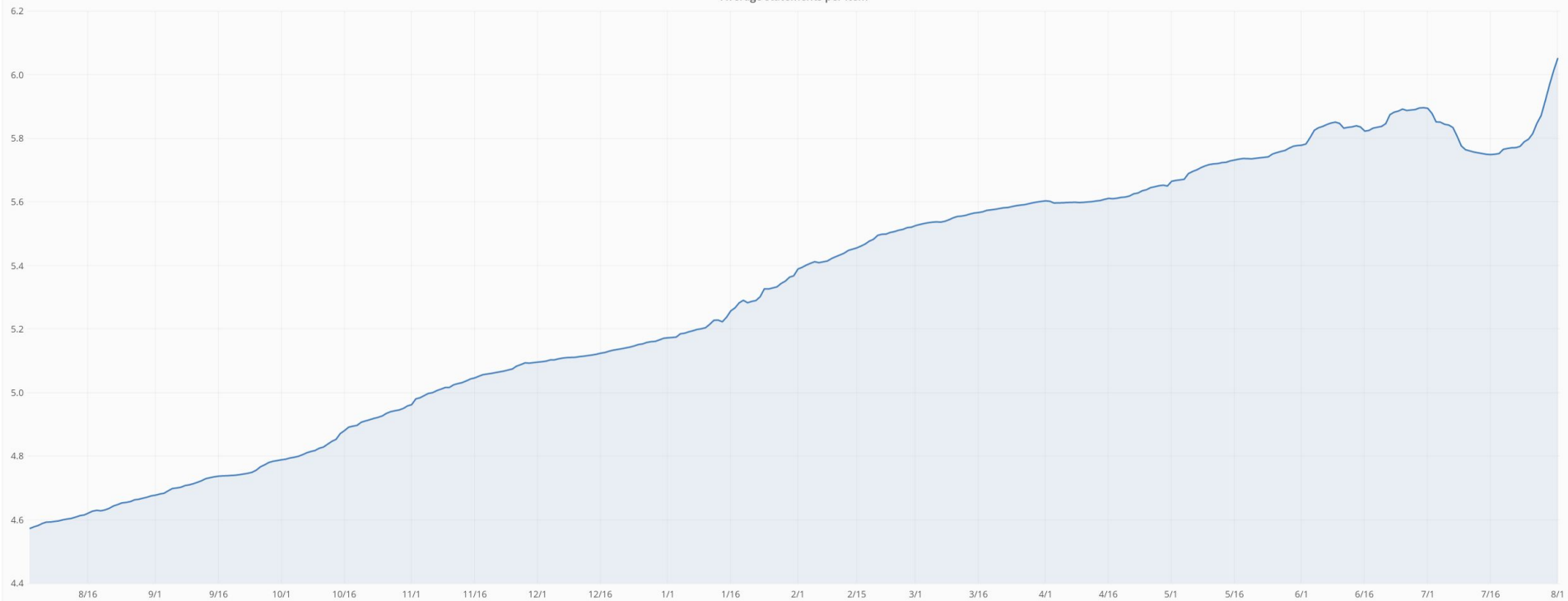
Entities by type (non redirects)



**39 Mil** items

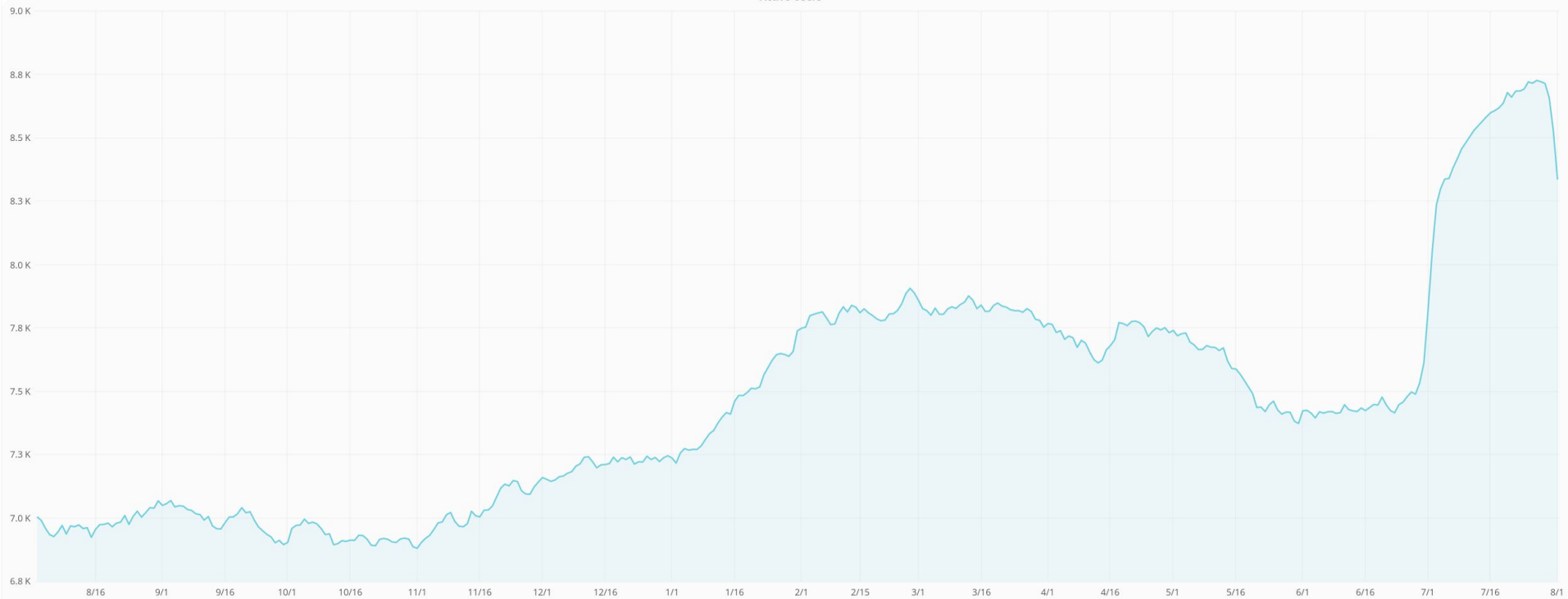
**3700** properties

Average statements per item



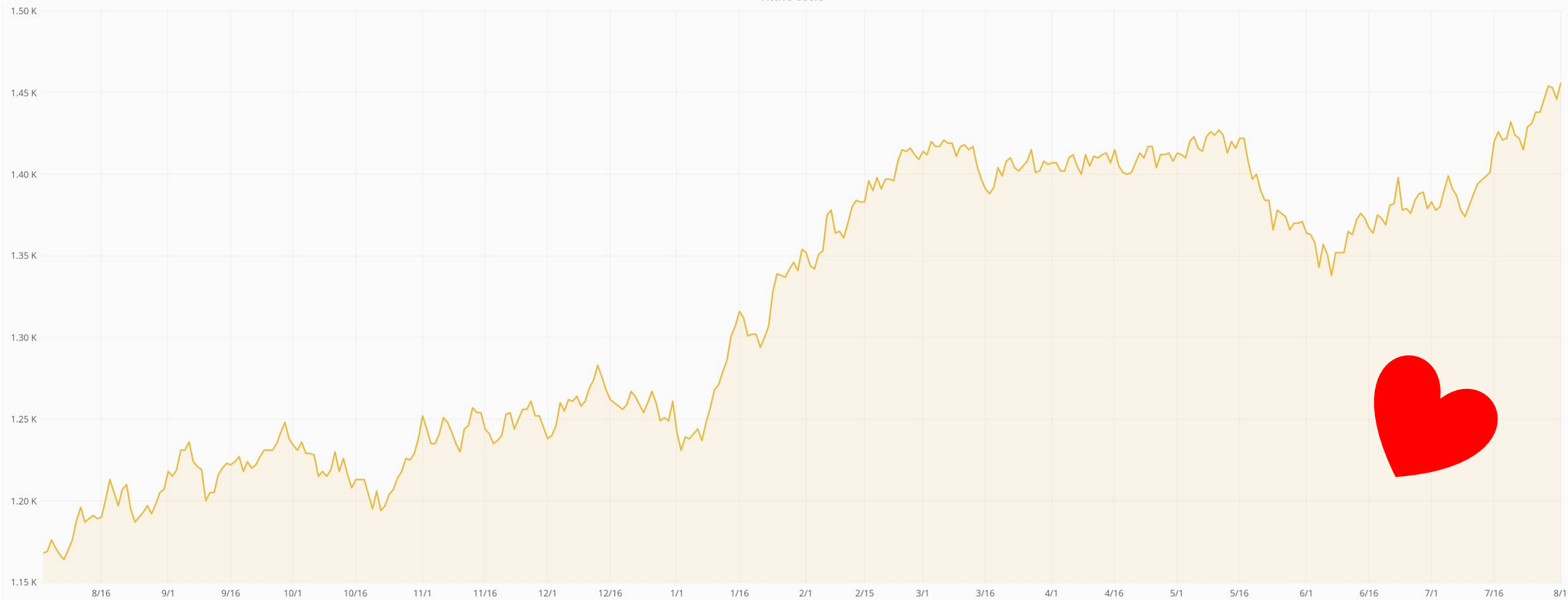
**7** statements/item

Active Users



**8700** active editors

Active Users



**1400** very active editors



# A galaxy of tools

## Add data

- Wikidata Games
- QuickStatements
- DuplicateReferences

## Match with other databases

- Mix'n'Match

## Query

- Query service
- API

## Watch

- Constraint reports
- COOL-WD
- ORES



## Reuse data

- Inventaire
- Histropedia
- Reasonator
- WikiShootMe

...and way more: <https://www.wikidata.org/wiki/Wikidata:Tools>



# Wikidata games



## Wikidata - The game!

Here, you can find a set of "games" that help to improve Wikidata, one statement at a time.



## Random game

A random game, from the list below, is selected each time.  
Makes for more variety.



## Merge items

Some topics have duplicate items on Wikidata. Two items with the same title or alias will be suggested to you.  
Merge identical topics, tag items as different, or skip an item pair if you are not sure. Please be very careful!



## Person

Many items about people on Wikidata have no "instance of" property.  
Decide if one of them is a **human**, or skip the item if you are not sure.



## Gender

Many items about people on Wikidata have no **gender property** set.  
Add a sex/gender statement "male" or "female", or skip the item if you are not sure.



## Occupation

These people have no **occupation**, but their articles suggest some.



## Alma mater

These people have no **alma mater**, but their articles suggest some.



## Country of citizenship

These people have a birth place, but no country of citizenship (P27).



## Disambiguation items

These items could represent **disambiguation pages**, and should be marked as such!



## Date

These people have birth and/or death date missing.



## Image

These items have no image, but their Wikipedia articles do.



## Commons category

These items have no Commons category, but one with the exact same name exists.



## Books without author

These books have no author on Wikidata, but their Wikipedia articles might.



## Statistics

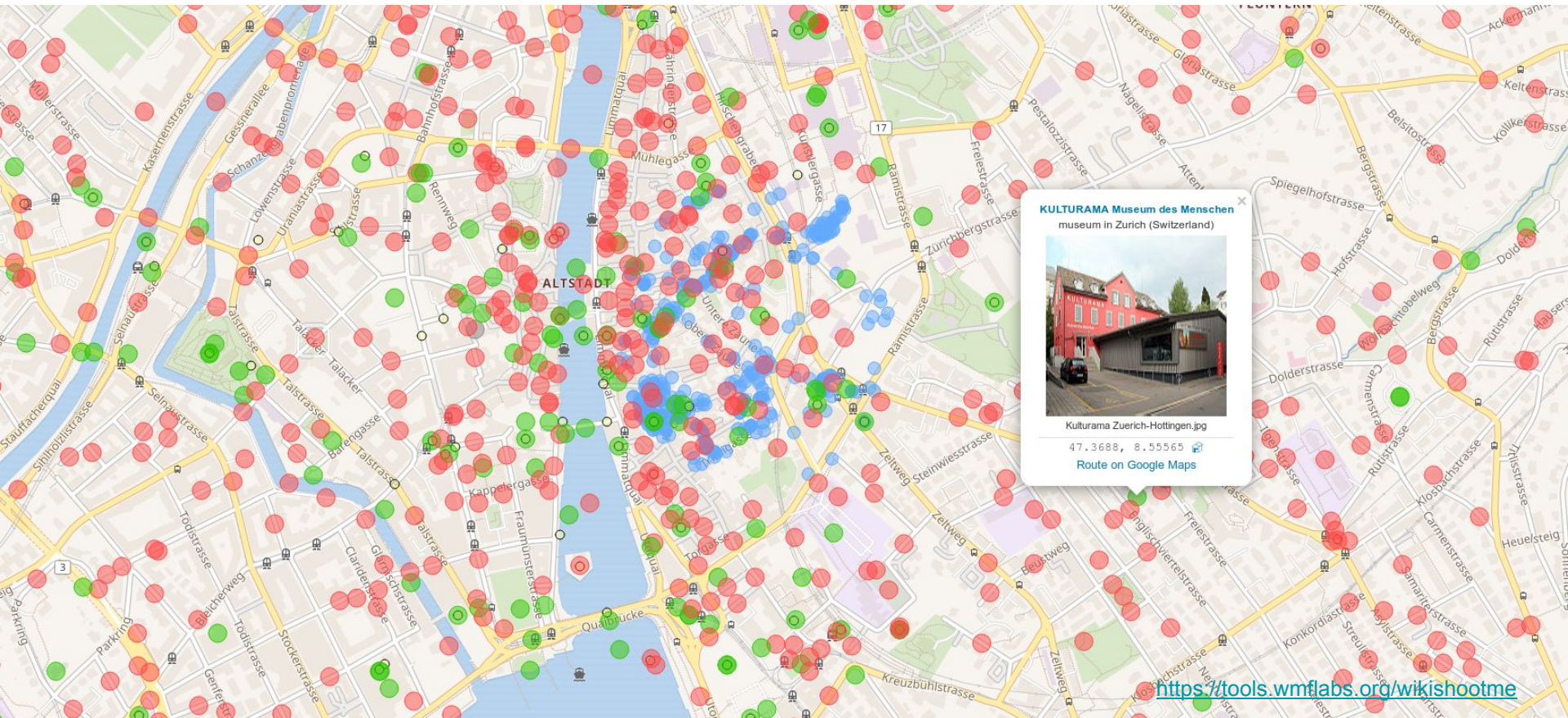
See how you've done so far, how others have done, and how the gamification is doing.



## Settings

Your personal game settings, such as language preferences.

# WikiShootMe



# ArticlePlaceholder



WICIPEDIA  
Y Cychydauddu Rhyd

Hafan  
Porth y Gymuned  
Y Cafi  
Materion cyfws  
Newidiadau diweddar  
Erthygl ar hap  
Cymorth  
Rhoi

Mewn prosiectau eraill  
Wikimedia Commons

Bwlch offery  
Uwchwytho ffeil  
Tudalennau arbennig  
Ffensiwn argyffu  
Eitem Wikidata

Ieithoedd eraill

- Français
- Nederlands
- Deutsch
- English
- Pycccaik
- Italiano
- Polski
- Español
- Português
- 9 eraill

LydiaPintscher Sgers Dewsiadau Beta Rhestr wylio Fy nghyfraniadau Allgofnodi

Chwilio

Tudalen arbennig

## Habitat 67

housing complex originally built for Expo 67 in Montreal

enghraifft o'r canlynol

revenue house

mudiad

brutalism

gwladwriaeth

Canada

lleolir yn yr ardal weinyddol

Ville-Marie

cyfesurynnau'r lleoliad

45°30′3″N, 73°32′37″W

perchennog

Canada Mortgage and Housing Corporation  
housing cooperative

pensaer

Moshe Safdie

arddull pensaernïol

brutalism

defnydd

revenue house  
Expo 67 pavilions

cyfeiriad stryd

2600 Avenue Pierre-Dupuy<sup>[2]</sup>

gwefan swyddogol

<http://www.habitat67.com#>

statws treftadaeth

recognized heritage immovable<sup>[3]</sup>  
cadarnhawyd gan: **Montréal**  
dyddiad cychwyn: 17 Medi 2007  
classified heritage immovable<sup>[3]</sup>  
dyddiad cychwyn: 26 Chwefror 2009



### Adnoddau allanol

dynodwr Freebase /m/011  
\_02#<sup>[1]</sup>  
Cofrestr Ddymodi Canada o 40465  
Lleceidd Hanesyddol 12446#  
dynodwr Quora Habitat-  
67#  
Banque de noms de lieux du 40465  
Québec ID 6#  
Cyfeiriadur ID o drefntadaeth 98890#  
ddwyliannol Quebec

categori Comin

Habitat 67

### Cyfeiriadau

- ↑ Freebase Data Dumps, 28 Hydref 2013
- ↑ Banque de noms de lieux du Québec
- ↑ 3.03.1 Cultural heritage register of Quebec, 98890#, 20 Awst 2014

Creu ennygl!



# Guessr



Make Your Guess

Current Round: 1/5  
Last Round Score: 0  
Total Score: 0  
[View project on GitHub](#)  
Start new game...

# Query Service

Wikidata Query Examples Help Tools English

**Query Helper**

instance of human

+ Filter

place of birth place of death residence Vienna

image

+ Show

composer tonality

Limit

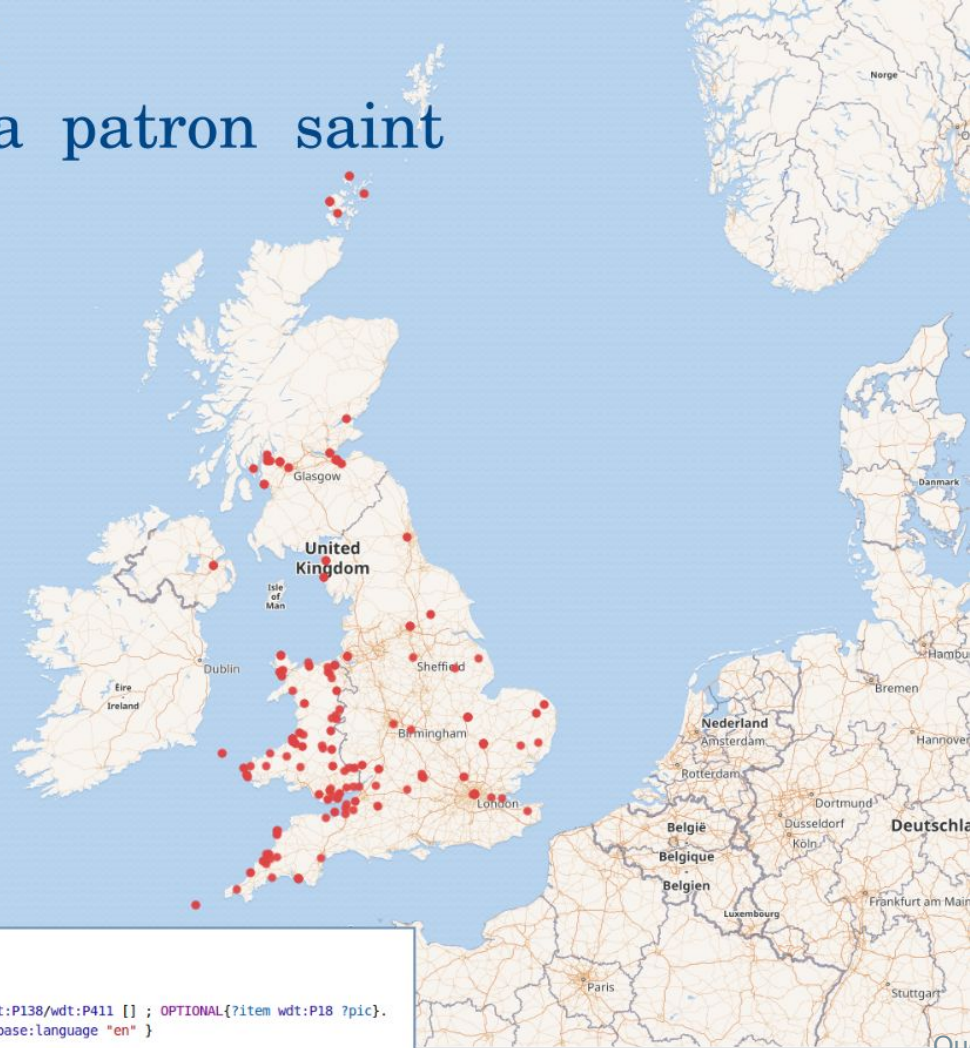
```
1 #Viennese composers and their compositions by tonality
2
3 #defaultView:Tree
4 SELECT ?composer ?composerLabel ?composerImage ?tonality ?tonalityLabel ?composition ?compositionLabel WHERE {
5   ?composer wdt:P31 wd:Q5;
6     wdt:P19|wdt:P20|wdt:P551 wd:Q1741.
7   OPTIONAL { ?composer wdt:P18 ?composerImage. }
8   ?composition wdt:P86 ?composer;
9     wdt:P826 ?tonality.
10  SERVICE wikibase:label { bd:serviceParam wikibase:language "[AUTO_LANGUAGE],de-at,de". }
11 }
12 ORDER BY ?composerLabel ?tonalityLabel
```

649 Results in 1483 ms Download Link

Tree

- Alban Berg
  - atonality
    - Wozzeck
- Alexander von Zemlinsky
  - A minor
- Anton Bruckner
- Antonio Vivaldi
- Arnold Schoenberg
- Franz Schubert
- Gustav Mahler
- Johann Strauss I
- Johannes Brahms
- Joseph Haydn
- Karl Goldmark
- Ludwig van Beethoven
- Wolfgang Amadeus Mozart

# Places in UK named after a patron saint



```
SELECT ?item ?itemLabel ?coord ?pic
WHERE
{
  ?item wdt:P17 wd:Q145 ; wdt:P625 ?coord ; wdt:P138/wdt:P411 [] ; OPTIONAL{?item wdt:P18 ?pic}.
  SERVICE wikibase:label { bd:serviceParam wikibase:language "en" }
}
```

Query: <http://tinyurl.com/y74tnokk>





Antigua and Barbuda  
[commons:Flag of Antigua and Barbuda.svg](#)



Ecuador  
[commons:Flag of Ecuador.svg](#)



Kiribati  
[commons:Flag of Kiribati.svg](#)



Mongolia  
[commons:Flag of Mongolia.svg](#)



Philippines  
[commons:Flag of the Philippines.svg](#)



Argentina  
[commons:Flag of Argentina.svg](#)



El Salvador  
[commons:Flag of El Salvador.svg](#)



Kurdistan  
[commons:Flag of Kurdistan.svg](#)



Namibia  
[commons:Flag of Namibia.svg](#)



Republic of Macedonia  
[commons:Flag of Macedonia.svg](#)



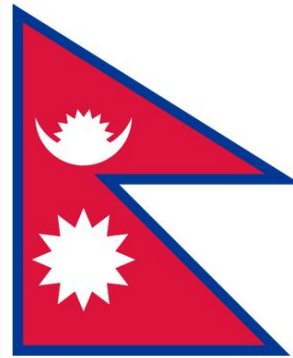
Bangladesh  
[commons:Flag of Bangladesh.svg](#)



Greenland  
[commons:Flag of Greenland.svg](#)



Kyrgyzstan  
[commons:Flag of Kyrgyzstan.svg](#)



Nepal  
[commons:Flag of Nepal.svg](#)



Rwanda  
[commons:Flag of Rwanda.svg](#)



Republic of China  
[commons:Flag of the Republic of China.svg](#)



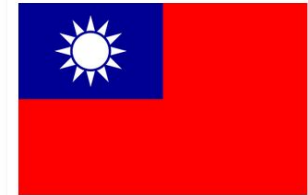
Malawi  
[commons:Flag of Malawi.svg](#)



Malawi  
[commons:Flag of Malawi.svg](#)



Republic of China  
[commons:Flag of the Republic of China.svg](#)



Taiwan  
[commons:Flag of the Republic of China.svg](#)

## Country flags including a sun



[commons:Johannes Vermeer - De Soldaat en het Lachende Meisje - Google Art Project.jpg](#)  
United States of America  
Frick Collection  
50.5×46  
1657  
Officer and Laughing Girl  
[Q wd:Q467376](#)



[commons:Jan Vermeer van Delft 011.jpg](#)  
Austria  
Kunsthistorisches Museum  
120×100  
1660  
The Art of Painting  
[Q wd:Q588695](#)



[commons:J. VERMEER - El geógrafo \(Museo Städel, Fráncfort del Meno, 1669\).jpg](#)  
Germany  
Städel  
53×46.6  
1668  
The Geographer  
[Q wd:Q45130](#)



[commons:Vermeer, Johannes - Woman reading a letter - ca. 1662-1663.jpg](#)  
Netherlands  
Rijksmuseum  
46.6×39.1  
1660  
Woman in Blue Reading a Letter  
[Q wd:Q166937](#)



[commons:Jan Vermeer van Delft 019.jpg](#)  
United States of America  
Metropolitan Museum of Art  
45.7×40.6  
1660  
Woman with a Water Jug  
[Q wd:Q386453](#)



[commons:El astrónomo.jpg](#)  
France



[commons:Johannes Vermeer -](#)



[commons:Vermeer, Johannes - Woman](#)

[Paintings by Vermeer depicting maps](#)

# A diverse community

- International and multilingual
- Representing diverse countries, languages, cultures
- Interested in many specific topics
- Not only editors: also reusers, coders, partners, data providers
- Some have technical skills (coding tools, scripts...)
- Some have knowledge about ontologies
- Some are editors on other Wikimedia projects, some aren't

# Their motivations

- Provide a database that anyone can reuse
- Provide a strong and reliable source of information
- Committed to free knowledge and open data
- Concerned about data completeness and quality
- Attracted by novelty and blank field

# Different tasks and roles

- Add new information and references
- Add labels in their languages
- Organize the content: propose and discuss new properties
- Import mass data from another free source
- Clean and fix the information

# Different tasks and roles

- Connect items to Wikipedia articles
- Create tools to reuse data
- Create tools to help the work of other editors
- Take care of the social part, solve issues
- Write help pages and help newcomers



# Projects to come

- Improve the access from Wikipedia
- Lexicographical data
- Structured data for Commons
- Focus on quality and completeness
- Wikidata 6th birthday and other events



# Thank you!

[www.wikidata.org](http://www.wikidata.org)  
@Wikidata



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@Auregann  
December 2017  
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