



FindingGLAMs:

# Wikidata, Librarians & Linked Open Data

Pathways To Reuse And Integrate Wikidata Data.

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*Global Open Initiative Foundation*  
*27 February 2020*



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# Outline

Wikipedia and Wikimedia projects

Structured Data & Linked Open Data

Library Metadata, Wikidata & Wikibase

Scholia as a tool for visualizing Wikidata data

Basic SPARQL queries

Next Steps

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Workshop page

<https://w.wiki/JEw>

## *our handles*



*instagram: goi\_foundation*

*facebook: GOIFoundation*

*twitter: GOIFoundation*

*LinkedIn: global-open-initiative*

*WhatsApp group for this session: <http://bit.ly/WDGhLib>*

# Reference Questions

## Single facts

## Background

## In Depth



Google kofi annan

About 8,760,000 results (0.85 seconds)

Showing results for kofi annan  
Search instead for kofi annan

en.wikipedia.org · wiki · Kofi\_Annan ▾  
**Kofi Annan - Wikipedia**  
Kofi Atta Annan (/ˈkoʊfiː ˈænən/; 8 April 1938 – 18 August 2018) was a Ghanaian diplomat who served as the seventh Secretary-General of the United Nations from January 1997 to December 2006. **Annan** and the UN were the co-recipients of the 2001 Nobel Peace Prize.  
Deputy: Louise Fréchette, Mark Malloch Brown **Died** 18 August 2018 (aged 80); Bern, Switzer...  
Occupation: Diplomat **Children** 3, including Kojo Annan  
Early years and education **Career** Secretary-General of the ... **Post-UN career**

**People also ask**

Why is Kofi Annan famous? ▾

What illness did Kofi Annan die from? ▾

Where does Kofi Annan come from? ▾

Is Kofi Annan still alive? ▾

Feedback

www.kofifannanfoundation.org · kofi-annan ▾  
**Kofi Annan Biography - Kofi Annan Foundation**  
"Long after he had broken barriers, Kofi never stopped his pursuit of a better world, and made time to motivate and inspire the next generation of leaders." ... **Kofi Annan** was a Nobel Peace Prize laureate, Secretary-General of the United Nations between 1997 and 2006, and the ...

**Images for kofi annan**

WIKIPEDIA The Free Encyclopedia

4,210 wikis since 2002-10-10 (10 days), 427 editors, 114,580 watchers, 304,896,705 pageviews (30 days), created by TheOneTwo (2,135) See full page statistics

Welcome to Wikipedia, the free encyclopedia that anyone can edit. 8,821,387 articles in English

**1 From today's featured article**

**The Cabinet of Dr. Caligari** is a German silent horror film, first released on 26 February 1920. It was directed by Robert Wiene and written by Hans Janowitz and Carl Mayer. Considered the quintessential work of German Expressionist cinema, it tells the story of an insane hypnotist (Herr Kaligari) who uses a somnambulist (Conrad Veidt) to commit murders. The film features a dark and twisted visual style. The sets have sharp-pointed forms, oblique and curving lines, and structures that lean and twist in unusual angles. The film's design team, Hermann Warm, Walter Reimann and Walter Röhrig, recommended a fantastic, graphic style over a naturalistic one. With a violent and insane authority figure as its antagonist, the film expresses the theme of brutal and irrational authority. Considered a classic, it helped draw worldwide attention to the artistic merit of German cinema and had a major influence on American films, particularly in the genres of horror and film noir. **(Full article...)**

**2 Did you know ...**

- ... that **Adolf Hitler** and Nazi propagandist **Oscar Pless** (pictured) once served in the U.S. Army?
- ... that 2019 concerts in the 18th-century **Bergkirche** in **Wiesbaden**, Germany, included **Papa's Pass** and **Hande's Messias**?
- ... that **Dorothy Doolittle**, winner of the inaugural **Chicago Marathon**, was later an assistant coach for the U.S. team at the 1932 **Summer Olympics**?
- ... that in a **Empire-wide** study, the **boreal ensign scale** was found to be the most common **scale insect** present in soil?

**3 In the news**

- At least 23 people are killed and 189 others are injured in riots in **North East Delhi** as part of the Citizenship Amendment Act protests.
- Former Egyptian president **Hosni Mubarak** (pictured) dies at the age of 91.
- American former film producer **Harvey Weinstein** is convicted of two felony sex crimes.
- **Shootings in Hanau**, Germany, leave eleven people dead and five others wounded.

**Ongoing** *Conservative cabinet*  
Recent deaths: **Diid Thunberg** · **Katherine Johnson** · **Jane Daly-Watkins** · **Trish Gunning DQ** · **B. Smith** · **Nike Hughes**

**Nominate an article**

**4 On this day**

February 26: **Ash Wednesday** (Western Christianity, 2020), First day of **Ayyam-Idha** (Bani's Faith, 2020)

- 1156 – Wars of the **Guelphs and Gibelins**, Manfred, King of Sicily, was killed in the **Battle of Benevento** against the forces of Charles of Anjou.
- 1835 – Dutch explorer **Willem Jacobson** made the **first recorded European landing in Australia**, although he believed that he was on New Guinea.
- 1933 – Imperial Japanese Army troops attempted a **coup d'état**, occupying parts of Tokyo, and killing several politicians, including Finance Minister **Takashi** **Hayashi**.

Google Search


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Wiki page Talk

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# A central storage location

Interconnected databases lets us keep facts up-to-date across multiple platforms.



# (un)structuredness

Structured data makes it possible to

Share information across platforms.

Query/ interrogate/ question a resource for relevant information.

**A free,**

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**collaborative,  
multilingual,  
secondary database,  
collecting structured data  
to provide support for Wikipedia,  
the other Wikimedia wikis,  
and to anyone in the world.**

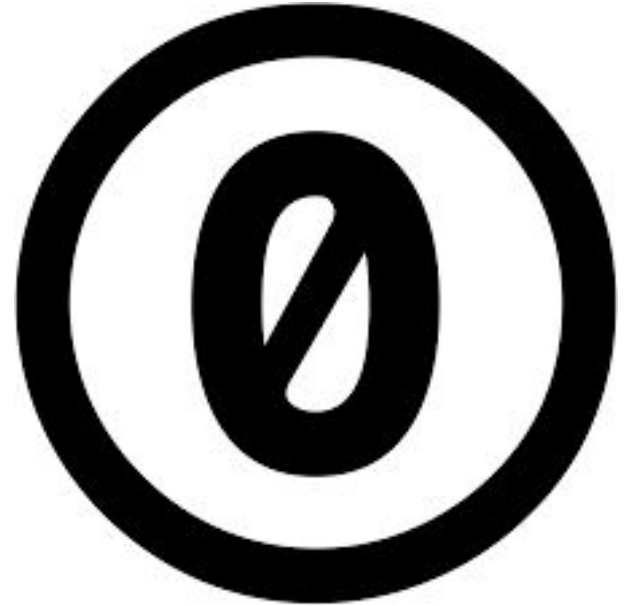


**Free**

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public domain  
data**

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Collaborative

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Ability to  
provide input  
& access  
Wikidata is  
open to  
everyone





1 000 000+ articles

العربية	English	Français	Nederlands	Polski	Русский	Sinugboanong	Svenska	Winaray
Deutsch	Español	Italiano	日本語	Português		Binisaya	Tiếng Việt	中文

100 000+ articles

Asturiano	Беларуская	Ελληνικά	हिन्दी	Latviešu	Bahasa	O‘zbekcha /	Simple English	Suomi	Українська
Azərbaycanca	(Акадэмічная)	Esperanto	Hrvatski	Lietuvių	Minangkabau	Ўзбекча	Slovenčina	தமிழ்	اردو
Български	Català	Euskara	Bahasa Indonesia	Magyar	<b>Norsk</b> (bokmål · nynorsk)	Қазақша / Qazaqşa	Slovenščina	ภาษาไทย	Volapük
Bân-lâm-gú / Hó-ló-oē	Čeština	فارسی	عربي	Македонски		قازاقشا /	Српски / Srpski	Тоҷикӣ	한국어
	Dansk	Galego	தமிழ்	مصرى	Нохчийн	Română	Srpskohrvatski /	تۆرکجه	
	Eesti	Հայերեն	Latina	Bahasa Melayu		Cymraeg	Српскохрватски	Türkçe	

10 000+ articles

Bahasa Acèh	Беларуская	Emigliàn–	Ido	Kurdî / كوردی	Malagasy	Монгол	ଓଡ଼ିଆ	Саха Тыла	Kiswahili	שׂוֹפֵר
Afrikaans	(Тарашкевіца)	Rumagnòl	Ilokano	کوردیی ناوەندی	മലയാളം	မြန်မာဘာသာ	ਪੰਜਾਬੀ (ਗੁਰਮੁਖੀ)	Scots	Tagalog	Yorùbá
Alemannisch	বিশ্বপ্রিয়া মণিপুরী	Føroyskt	Interlingua	Кыргызча	文言	नेपाल भाषा	(شاه مکھی)	Shqip	Tatarça / Tatarça	粵語
АԥсӀэ	Boarisch	Frysk	Ирон æвзаг	Кырык Мары	मराठी	नेपाली	پښتو	Sicilianu	తెలుగు	Zazaki
Aragonés	Bosanski	Gaeilge	Íslenska	Lëtzebuergesch		მარტვილური	Piemontèis	සිංහල	ខេមរភាសា / Basa Ugi	Žemaitėška
বাংলা	Brezhoneg	Gàidhlig	Jawa	Limburgs	مازرونی	Nnapulitano	Plattdüütsch	سنڌي	Veneto	
Basa Banyumasan	Чӕвашла	ગુજરાતી	Jawa	Lumbaart	Ming-dêng-ngî /	Nordfriisk	Occitan	Runa Simi	Wàlon	
Башҡортса	Diné Bizaad	Hornjoserbsce	Kreyòl Ayisyen	मैथिली	閩東語	Марий	संस्कृतम्	Basa Sunda	吳語	

1 000+ articles

Адыгэбзэ	Авар	Corsu	Gagauz	Kalaallisut	කළමනාකරණ	Malti	Novial	Qaraqalpaqsha	Sranantongo	Vepsän
Ænglisc	Aymar	Vahcuengh / 話僮	Gikúyú	Karampangan	Dzhudezmo /	Reo Mā'ohi	असमীয়া	Qırımtatarca	Taqbaylit	Võro
Арыса	Bahasa Banjar	Davvisámegiella	گۈلکۈ	Kaszëbsczi	גאליע	Māori	पालि	Ripoarisch	Tarandine	West-Vlams
Արեւմտահայերէլս	भोजपुरी	Deutsch	ꨀꨂꨛꨍꨉ	Kernewek	Лакку	Mirandés	Pangasinán	Rumantsch	Tetun	Wolof
Armãneashtce	Bikol Central	Dolnoserbski	Hak-kâ-ngî / 客家	ಕನ್ನಡ	Лезги	Мокшень	Pariamentu	Русиньскый Язык	Tok Pisin	isiXhosa
Arpitan	Bislama	Эрзянь	話	Kinyarwanda	Лингала	Náhuatlāhtōlli	Перем Коми	Sardu	faka Tonga	Zeêuws
asụsụ bekee	ꠘꠞꠞꠞ	Estremeñu	Хальмг	Коми	lojban	Dorerin Naoero	Pfälzisch	Seeltersk	Türkmençe	isiZulu
maḙḙ asụsụ oyibo	Буряад	Fiji Hindi	Hausa / 豪薩	Kongo	لۆرى شومالی	Nedersaksisch	Picard	Sesotho sa Leboa	Тыва дыл	زۆرۈش
ᱠᱷᱚᱨ	Shavacano de	Furlan	ʻŌlelo Hawaiʻi	कोंकणी / Konknni	Luganda	Nouormand /	Къарачай–	ChiShona	Удмурт	
Avañe'ê	Zamboanga	Gaelg	Interlingue	Kriyòl Gwiyannen	Ligure	Normaund	Малкъар	Soomaaliga	ئۇيغۇرچە	

100+ articles

Akan	Eoegbe	Iñupiak	Néhiyawéwin /	Ποντιακά	Gagana Sāmoa	Словѣньскъ /	Tséhesenéstsetotse	Twi
Bamanankan	Fulfulde	كشميري	ᱠᱟᱨᱥᱤ	ஐசா	Sängó	ᱥᱟᱱᱛᱟᱲᱤ	Tshivenḑa	ᱥᱤᱞᱞᱟ
Chamoru	ᱵᱟᱹᱰᱟ	Latgaju	Norfuk / Pitkern	Romani	Sesotho	SiSwati	Xitsonga	ᱥᱟᱱᱛᱟᱲ
Chichewa	ᱠᱷᱚᱨᱥᱤ	Na Vosa Vaka-Viti	Afaan Oromoo	Kirundi	Setswana	CWY	chiTumbuka	

# Multi lingual

www.wikidata.org

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**Not a place to  
put original  
research**

- **secondary  
database, that**
- **collects  
structured data**

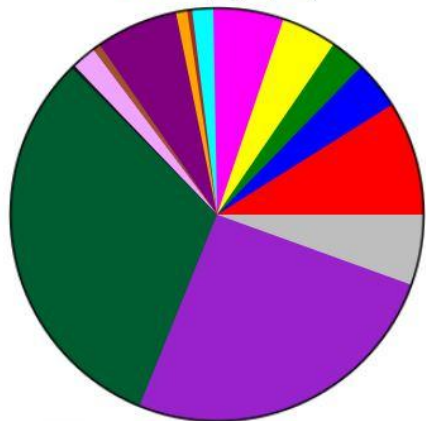
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**Wikidata has  
overgrown its  
original purpose**

**Provides support for**

- **Wikipedia**
- **other Wikis, and**
- **a whole lot more**

Wikidata (71,611,020)



- human: 6,376,879 (8.9%)
- taxon: 2,726,046 (3.8%)
- administrative territorial entity: 1,943,285 (2.7%)
- architectural structure: 3,159,472 (4.4%)
- occurrence: 3,898,674 (5.4%)
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- astronomical object: 4,601,733 (6.4%)
- Wikimedia list article: 404,454 (0.6%)
- Wikimedia disambiguation page: 1,358,230 (1.9%)
- Wikinews article: 195,900 (0.3%)
- scientific article: 22,574,314 (31.5%)
- other P31/P279: 18,284,676 (25.5%)
- no P31/P279: 3,973,469 (5.5%)

Wikidata is  
**BIG**

**63M** items

**20K** active editors

**300** languages

**> 1B** edits



Item Discussion

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# Barriers to Successful University Library Automation in Ghana with Particular Reference to the Balme Library (Q58539121)

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In more languages

Configure

Language	Label	Description	Also known as
English	Barriers to Successful University Library Automation in Ghana with Particular Reference to the Balme Library	No description defined	
Akan	No label defined	No description defined	
Ewe	No label defined	No description defined	

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## Statements

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title [Barriers to Successful University Library Automation in Ghana with Particular Reference to the Balme Library \(English\)](#) [edit](#)

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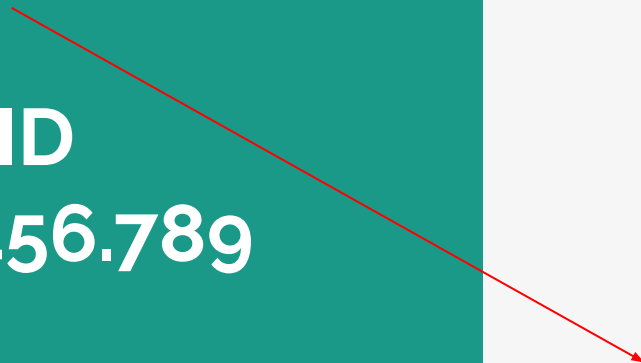
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- Permanent link
- Page information
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- Cite this page

has DOI identifier

10.1080/1057231  
7.1995.10762366

GNL ID

123.456.789



wikidata.org/wiki/Q58539121

author name string	J.O. Amekuedee series ordinal 1 ~ 0 references	<a href="#">edit</a> <a href="#">+ add reference</a> <a href="#">+ add value</a>
publication date	June 1995 ~ 0 references	<a href="#">edit</a> <a href="#">+ add reference</a> <a href="#">+ add value</a>
published in	International Information and Library Review ~ 0 references	<a href="#">edit</a> <a href="#">+ add reference</a> <a href="#">+ add value</a>
volume	27 ~ 0 references	<a href="#">edit</a> <a href="#">+ add reference</a> <a href="#">+ add value</a>
page(s)	171-181 ~ 0 references	<a href="#">edit</a> <a href="#">+ add reference</a> <a href="#">+ add value</a>
issue	2 ~ 0 references	<a href="#">edit</a> <a href="#">+ add reference</a> <a href="#">+ add value</a> <a href="#">+ add statement</a>
<b>Identifiers</b>		
DOI	10.1080/10572317.1995.10762366 ~ 0 references	<a href="#">edit</a> <a href="#">+ add reference</a>

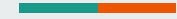


Q22253877

A novel  
family of  
mammalian  
taste  
receptors

## Identifiers

PubMed ID	 10761934  edit
	<a href="#">▶ 1 reference</a>
	<a href="#">+ add value</a>
OpenCitations bibliographic resource ID	 2333202  edit
	<a href="#">▶ 1 reference</a>
	<a href="#">+ add value</a>
DOI	 10.1016/S0092-8674(00)80705-9  edit
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ResearchGate publication identifier	 12554455  edit
	<a href="#">▼ 0 references</a>
	<a href="#">+ add reference</a>
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	<a href="#">+ add statement</a>



**Efua Theodora  
Sutherland**


**Q274741**

**Barack Obama**

**Q76**

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**Libraries will get to concentrate efforts on unique collections.**



**Wikidata is a hub  
for linking  
Authority data  
across  
institutions.**

**... libraries will get to  
concentrate efforts  
on unique  
collections.**



**Exposure in the  
Landscape of  
Scholarly  
Communication**

**... limitations of  
traditional tools  
available to faculty,  
researchers, and  
their institutions for  
sharing their  
scholarly activities**

---

**make them visible, searchable and discoverable in interesting ways that they would not necessarily be, just on the collection of your own institution.**

Questions?



# Scholia



A bibliographic  
reference  
management tool

<https://tools.wmflabs.org/scholia/>

**...allows for live  
browsing of the  
relationships  
between works,  
authors, institutions,  
and other metadata  
about the works and  
their creators.**



---

**Let's edit  
Wikidata**

— ...and run  
some Wikidata  
Query



## Next steps

- systematically add data for faculty & their publications
- export from Zotero into the QuickStatements tool
- consider running Wikidata edit-a-thons (for staff or as public events)
- Run independent instances of Wikibase

Questions?

