

Wikidata

The free and open knowledge base



Wikidata for Research: Enabling Open Science and Resource Discovery

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Slides: <http://tinyurl.com/SummerOfData>

Wikimedia's family of open knowledge projects



WIKIPEDIA
The Free Encyclopedia



WIKIBOOKS
Open books for an open world



Wiktionary
The free dictionary



WIKISPECIES
free species directory



WIKINEWS



Wikiquote



WIKIDATA



MediaWiki



**WIKIMEDIA
COMMONS**



**WIKIMEDIA
INCUBATOR**



**Wikimedia
Tool Labs**



**WIKIMEDIA
META-WIKI**



WIKISOURCE



WIKIVERSITY

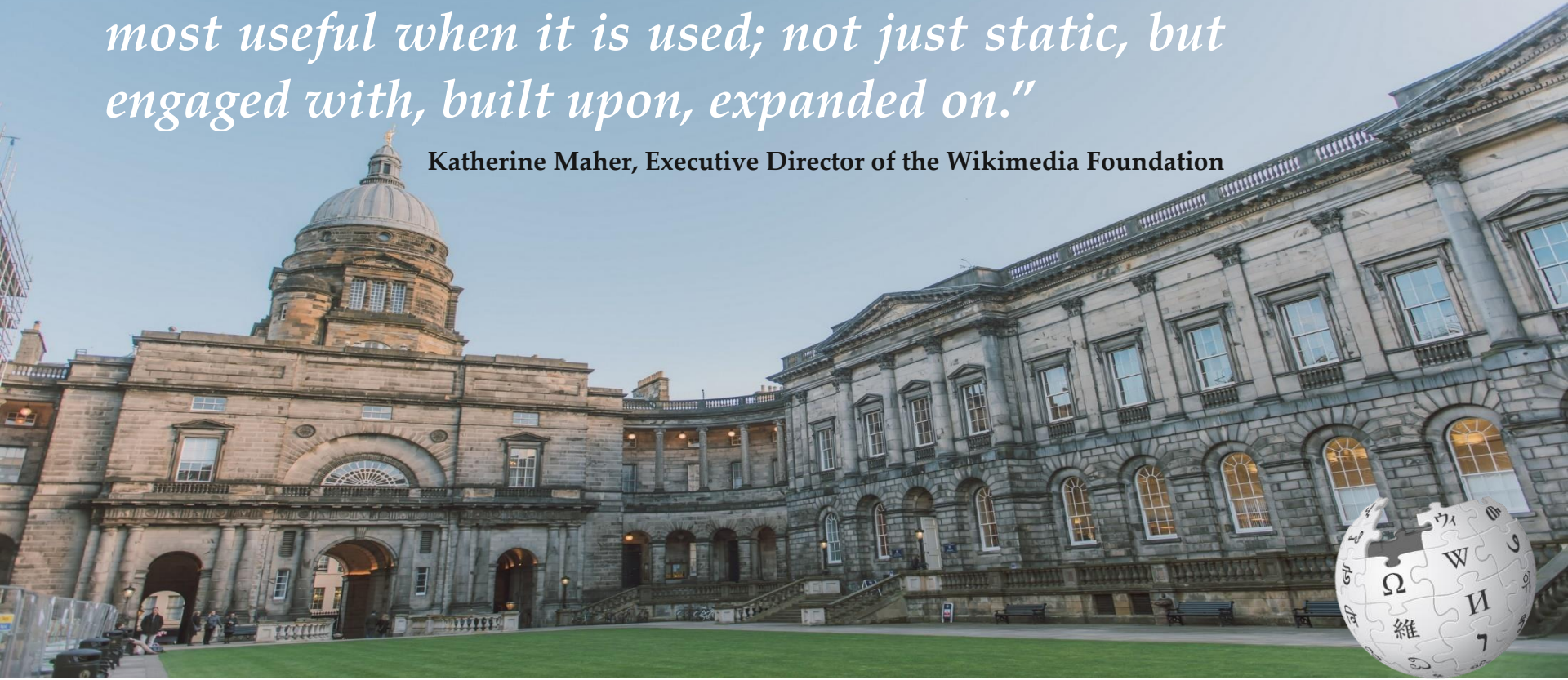


**wiki
voyage**

https://wikimediafoundation.org/wiki/Our_projects

“Knowledge is alive and growing and... it is most useful when it is used; not just static, but engaged with, built upon, expanded on.”

Katherine Maher, Executive Director of the Wikimedia Foundation



Robert Louis Stevenson

From Wikipedia, the free encyclopedia

Robert Louis Balfour Stevenson (13 November 1850 – 3 December 1894) was a Scottish novelist, poet, essayist, and *travel writer*. His most famous works are *Treasure Island*, *Kidnapped*, *Strange Case of Dr Jekyll and Mr Hyde* and *A Child's Garden of Verses*.

A literary celebrity during his lifetime, Stevenson now ranks among the 26 most translated authors in the world.^[1] His works have been admired by many other writers, including Jorge Luis Borges, Bertolt Brecht, Marcel Proust, Arthur Conan Doyle, Henry James, Cesare Pavese, Ernest Hemingway, Rudyard Kipling, Jack London, Vladimir Nabokov,^[2] J. M. Barrie,^[3] and G. K. Chesterton, who said of him that he "seemed to pick the right word up on the point of his pen, like a man playing spillikins."^[4]

Works [edit | edit source]

Novels [edit | edit source]

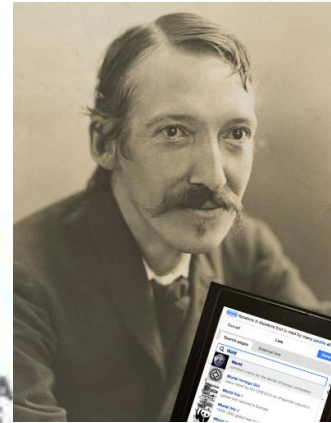
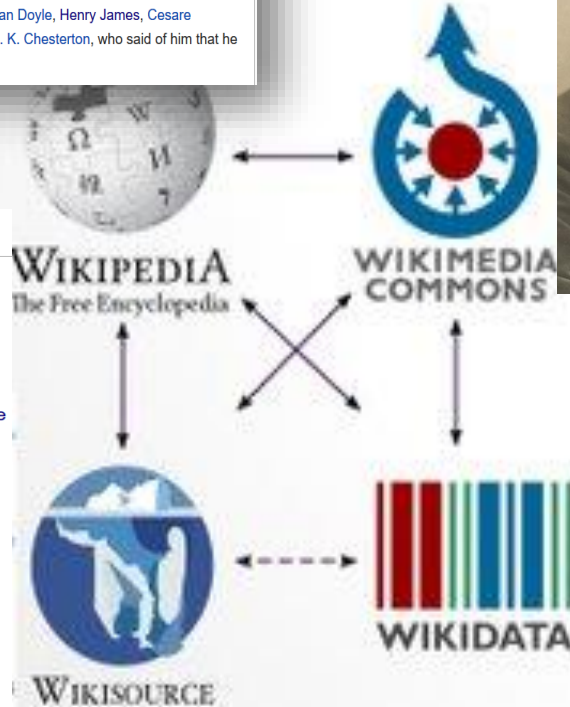
- *Treasure Island* (1883)
- *Prince Otto* 📖 (1885)
- *Strange Case of Dr Jekyll and Mr Hyde* 📖 (1886)
 - *The Annotated Strange Case of Dr Jekyll and Mr Hyde*
- *Kidnapped* (*Adventures of David Balfour*, 1886)
- *The Black Arrow* (1888)
- *The Master of Ballantrae* (1889) (External scan🔗)
- *Catriona* (*Adventures of David Balfour*, 1893)
- *Weir of Hermiston* 📖 (1896, unfinished)
- *St. Ives* 📖 (1898, unfinished)

with **Lloyd Osbourne** [edit | edit source]

- *The Wrong Box* (1889) (External scan🔗)
- *The Wrecker* 📖 (1892)
- *The Ebb-Tide* (1894) (External scan🔗)

Short stories [edit | edit source]

- *A Lodging for the Night* (1877)
- *The Sire de Maletroit's Door* (1878)
- *Will of the Mill* (1878)



Public Domain pic of Robert Louis Stevenson

https://commons.wikimedia.org/wiki/File:Robert_Louis_Stevenson_by_Henry_Walter_Barnett.jpg

ROBERT LOUIS STEVENSON (Q1512)

Spouse (P26): Fanny Stevenson Q3066501
Place of birth (P19): Edinburgh Q23436
Place of death (P20): Vailima, Samoa Q548806
Father (P22): Thomas Stevenson Q325068
Educated at (P69): Edinburgh Uni Q160302
Occupation (P106): Writer Q38180
Poet Q49757
Novelist Q6625963
Essayist Q11774202
Traveler Q22812252

What is Wikidata?



Established 2012.

All data is CC-0 licensed.

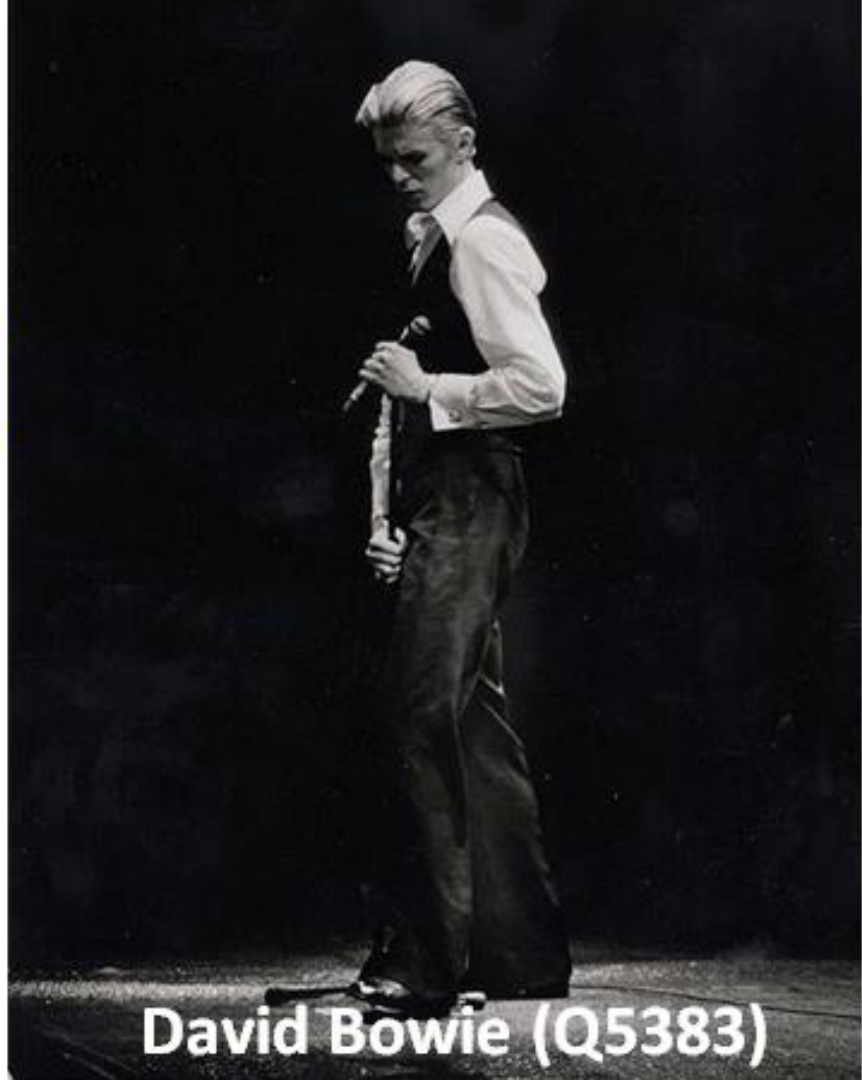
Wikidata is a free **linked** database of structured secondary data that can be read and edited by both humans and machines.

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

- Bibliographic
- Biographic
- Biomedical
- Geographic
- Taxonomic
- Authority file
- And more besides

date of birth (P569)

8 January 1947



David Bowie (Q5383)

English language label for Q34

Sweden (Q34)

Unique Q no. for item

Value

population
(P1082)

9,747,355

Reference

according to: Statistics Sweden
method: estimation
point in time: 31 Dec 2014

Qualifier

Property



picture by Hector Melo A.

A provenance-preserving Answer Engine



The sum of all **human knowledge**

+



WIKIDATA

The sum of all **data and sources** backing human knowledge

Wikidata key stats – data and community

- 33 million items
- 195 million statements
- 541 million edits
- 17,792 active editors
- 14 million more items since August 2016
- 95 million more statements since August 2016.
- 1200 more active editors since August 2016.

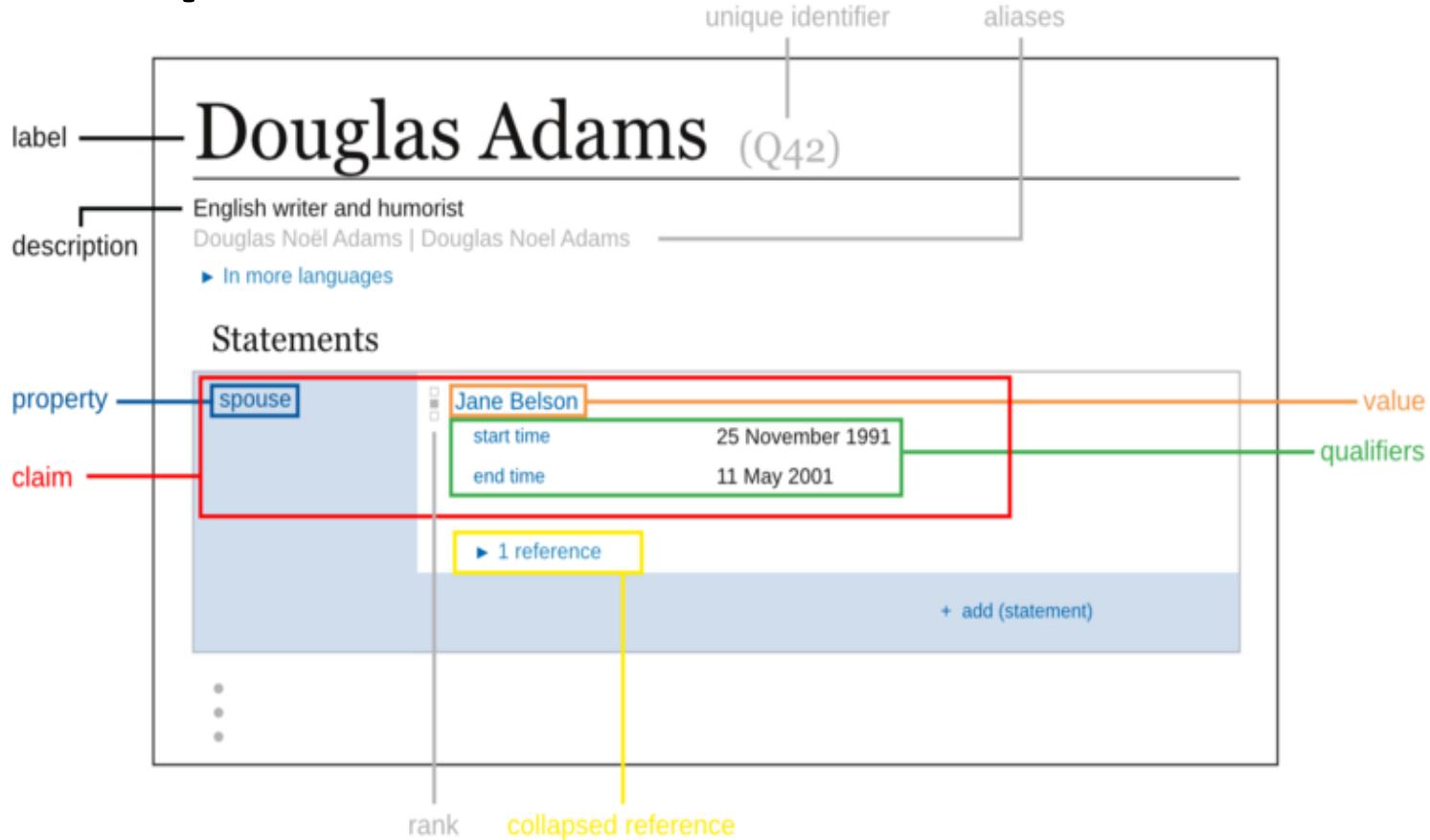


“Data is beautiful. Data is information.”

[Official Wikidata stats](#)

[More stats](#)

Example Wikidata item & statement



wikidata.org/wiki/Q42

Adding data to Wikidata



Firstly consult Wikidata's [Data Import Hub](#).

1. **Manual editing** by user. ([Video tutorial 1](#)) ([Video tutorial 2](#)).
2. **Mass editing** using tools e.g.
 - a) The [Mix n Match tool](#) allows you to match an external data set to Wikidata items.
 - b) Importing data from Google Spreadsheets into the [Quickstatements](#) tool. ([Video tutorial 1](#)) ([Video tutorial 2](#)). ([Exemplar sheet](#)). The syntax you need is explained in [QuickStatements v.1](#) and you can use the [Wikidata plug-in](#) for Google Sheets to make formatting the data in Google Sheets easier.
3. **Bot editing** (making edits over the API) e.g. [ProteinBoxBot](#)

See the [Bots request](#) section of the Data Import Guide.

Enabling Open Science e.g. The Gene Wiki project

circa 2008

ITK (gene)

From Wikipedia, the free encyclopedia

IL2-inducible T-cell kinase, also known as **ITK**, is a protein which in humans is encoded by the *ITK* gene.^[1]

Contents [hide]

- Function
- Structure
- Interactions
- References
- Further reading

Function [edit]

This gene encodes an intracellular tyrosine kinase expressed in T-cells. The protein is thought to play a role in T-cell proliferation and differentiation.^{[2][3]}

Structure [edit]

This protein contains the following domains, which are often found in intracellular kinases.^[4]

- N-terminus – PH (pleckstrin homology domain)
- BTX – Bruton's tyrosine kinase Cys-rich motif
- SHT – (Src homology 3)
- SH2 – (Src homology 2)
- C-terminus – tyrosine kinase, catalytic domain

Interactions [edit]

ITK (gene) has been shown to interact with FYN,^{[5][6]} Wiskott-Aldrich syndrome protein,^{[7][8]} KHDRBS1,^{[9][10]} PLAGL1,^{[10][11]} Lymphocyte cytosolic protein 2,^{[11][12]} Linker of activated T cells,^{[12][13]} Karyopherin alpha 2,^[14] Grb2^[15] and Peptidylprolyl isomerase A.^[14]

References [edit]

- ^a ^b Gibson S, Leung B, Squire JA, Hill M, Arima N, Goss P, Hogg D, Mills GB (September 1993). "Identification, cloning, and characterization of a novel human T-cell-specific tyrosine kinase located at the hematopoietin complex on chromosome 5q". *Blood* **82** (5): 1561–72. PMID 8364206.
- ^a ^b Kosaka Y, Felices M, Berg LJ (October 2006). "Itk and Th2 responses: action but no reaction". *Trends Immunol.* **27** (10): 453–60. doi:10.1016/j.it.2006.08.006. PMID 16931156.
- ^a "Entrez Gene: ITK IL2-inducible T-cell kinase".
- ^a ^b Hawkins J, Marcy A (July 2001). "Characterization of Itk tyrosine kinase: contribution of noncatalytic domains to enzymatic activity". *Protein Expr. Purif.* **22** (2): 211–9. doi:10.1006/prep.2001.1447. PMID 11437596.
- ^a ^b ^c ^d ^e ^f ^g ^h ⁱ ^j ^k ^l ^m ⁿ ^o ^p ^q ^r ^s ^t ^u ^v ^w ^x ^y ^z ^{aa} ^{ab} ^{ac} ^{ad} ^{ae} ^{af} ^{ag} ^{ah} ^{ai} ^{aj} ^{ak} ^{al} ^{am} ^{an} ^{ao} ^{ap} ^{aq} ^{ar} ^{as} ^{at} ^{au} ^{av} ^{aw} ^{ax} ^{ay} ^{az} ^{ba} ^{bb} ^{bc} ^{bd} ^{be} ^{bf} ^{bg} ^{bh} ^{bi} ^{bj} ^{bk} ^{bl} ^{bm} ^{bn} ^{bo} ^{bp} ^{bq} ^{br} ^{bs} ^{bt} ^{bu} ^{bv} ^{bw} ^{bx} ^{by} ^{bz} ^{ca} ^{cb} ^{cc} ^{cd} ^{ce} ^{cf} ^{cg} ^{ch} ^{ci} ^{cj} ^{ck} ^{cl} ^{cm} ^{cn} ^{co} ^{cp} ^{cq} ^{cr} ^{cs} ^{ct} ^{cu} ^{cv} ^{cw} ^{cx} ^{cy} ^{cz} ^{da} ^{db} ^{dc} ^{dd} ^{de} ^{df} ^{dg} ^{dh} ^{di} ^{dj} ^{dk} ^{dl} ^{dm} ^{dn} ^{do} ^{dp} ^{dq} ^{dr} ^{ds} ^{dt} ^{du} ^{dv} ^{dw} ^{dx} ^{dy} ^{dz} ^{ea} ^{eb} ^{ec} ^{ed} ^{ee} ^{ef} ^{eg} ^{eh} ^{ei} ^{ej} ^{ek} ^{el} ^{em} ^{en} ^{eo} ^{ep} ^{eq} ^{er} ^{es} ^{et} ^{eu} ^{ev} ^{ew} ^{ex} ^{ey} ^{ez} ^{fa} ^{fb} ^{fc} ^{fd} ^{fe} ^{ff} ^{fg} ^{fh} ^{fi} ^{fj} ^{fk} ^{fl} ^{fm} ^{fn} ^{fo} ^{fp} ^{fq} ^{fr} ^{fs} ^{ft} ^{fu} ^{fv} ^{fw} ^{fx} ^{fy} ^{fz} ^{ga} ^{gb} ^{gc} ^{gd} ^{ge} ^{gf} ^{gg} ^{gh} ^{gi} ^{gj} ^{gk} ^{gl} ^{gm} ^{gn} ^{go} ^{gp} ^{gq} ^{gr} ^{gs} ^{gt} ^{gu} ^{gv} ^{gw} ^{gx} ^{gy} ^{gz} ^{ha} ^{hb} ^{hc} ^{hd} ^{he} ^{hf} ^{hg} ^{hh} ^{hi} ^{hj} ^{hk} ^{hl} ^{hm} ^{hn} ^{ho} ^{hp} ^{hq} ^{hr} ^{hs} ^{ht} ^{hu} ^{hv} ^{hw} ^{hx} ^{hy} ^{hz} ^{ia} ^{ib} ^{ic} ^{id} ^{ie} ^{if} ^{ig} ^{ih} ⁱⁱ ^{ij} ^{ik} ^{il} ^{im} ⁱⁿ ^{io} ^{ip} ^{iq} ^{ir} ^{is} ^{it} ^{iu} ^{iv} ^{iw} ^{ix} ^{iy} ^{iz} ^{ja} ^{jb} ^{jc} ^{jd} ^{je} ^{jf} ^{jj} ^{jk} ^{jl} ^{jm} ^{jn} ^{jo} ^{jp} ^{jq} ^{jr} ^{js} ^{jt} ^{ju} ^{jv} ^{jw} ^{jx} ^{ky} ^{kz} ^{la} ^{lb} ^{lc} ^{ld} ^{le} ^{lf} ^{lg} ^{lh} ^{li} ^{lj} ^{lk} ^{ll} ^{lm} ^{ln} ^{lo} ^{lp} ^{lq} ^{lr} ^{ls} ^{lt} ^{lu} ^{lv} ^{lw} ^{lx} ^{ly} ^{lz} ^{ma} ^{mb} ^{mc} ^{md} ^{me} ^{mf} ^{mg} ^{mh} ^{mi} ^{mj} ^{mk} ^{ml} ^{mm} ^{mn} ^{mo} ^{mp} ^{mq} ^{mr} ^{ms} ^{mt} ^{mu} ^{mv} ^{mw} ^{mx} ^{my} ^{mz} ^{na} ^{nb} ^{nc} nd ^{ne} ^{nf} ^{ng} ^{nh} ⁿⁱ ^{nj} ^{nk} ^{nl} ^{nm} ⁿⁿ ^{no} ^{np} ^{nq} ^{nr} ^{ns} ^{nt} ^{nu} ^{nv} ^{nw} ^{nx} ^{ny} ^{nz} ^{oa} ^{ob} ^{oc} ^{od} ^{oe} ^{of} ^{og} ^{oh} ^{oi} ^{oj} ^{ok} ^{ol} ^{om} ^{on} ^{oo} ^{op} ^{oq} ^{or} ^{os} ^{ot} ^{ou} ^{ov} ^{ow} ^{ox} ^{oy} ^{oz} ^{pa} ^{pb} ^{pc} ^{pd} ^{pe} ^{pf} ^{pg} ^{ph} ^{pi} ^{pj} ^{pk} ^{pl} ^{pm} ^{pn} ^{po} ^{pp} ^{pq} ^{pr} ^{ps} ^{pt} ^{pu} ^{pv} ^{pw} ^{px} ^{py} ^{pz} ^{qa} ^{qb} ^{qc} ^{qd} ^{qe} ^{qf} ^{qg} ^{qh} ^{qi} ^{qj} ^{qk} ^{ql} ^{qm} ^{qn} ^{qo} ^{qp} ^{qq} ^{qr} ^{qs} ^{qt} ^{qu} ^{qv} ^{qw} ^{qx} ^{qy} ^{qz} ^{ra} ^{rb} ^{rc} rd ^{re} ^{rf} ^{rg} ^{rh} ^{ri} ^{rj} ^{rk} ^{rl} ^{rm} ^{rn} ^{ro} ^{rp} ^{rq} ^{rr} ^{rs} ^{rt} ^{ru} ^{rv} ^{rw} ^{rx} ^{ry} ^{rz} ^{sa} ^{sb} ^{sc} ^{sd} ^{se} ^{sf} ^{sg} ^{sh} ^{si} ^{sj} ^{sk} ^{sl} sm ^{sn} ^{so} ^{sp} ^{sq} ^{sr} ^{ss} st ^{su} ^{sv} ^{sw} ^{sx} ^{sy} ^{sz} ^{ta} ^{tb} ^{tc} ^{td} ^{te} ^{tf} ^{tg} th ^{ti} ^{tj} ^{tk} ^{tl} tm ^{tn} ^{to} ^{tp} ^{tq} ^{tr} ^{ts} ^{tt} ^{tu} ^{tv} ^{tw} ^{tx} ^{ty} ^{tz} ^{ua} ^{ub} ^{uc} ^{ud} ^{ue} ^{uf} ^{ug} ^{uh} ^{ui} ^{uj} ^{uk} ^{ul} ^{um} ^{un} ^{uo} ^{up} ^{uq} ^{ur} ^{us} ^{ut} ^{uu} ^{uv} ^{uw} ^{ux} ^{uy} ^{uz} ^{va} ^{vb} ^{vc} ^{vd} ^{ve} ^{vf} ^{vg} ^{vh} ^{vi} ^{vj} ^{vk} ^{vl} ^{vm} ^{vn} ^{vo} ^{vp} ^{vq} ^{vr} ^{vs} ^{vt} ^{vu} ^{vv} ^{vw} ^{vx} ^{vy} ^{vz} ^{wa} ^{wb} ^{wc} ^{wd} ^{we} ^{wf} ^{wg} ^{wh} ^{wi} ^{wj} ^{wk} ^{wl} ^{wm} ^{wn} ^{wo} ^{wp} ^{wq} ^{wr} ^{ws} ^{wt} ^{wu} ^{wv} ^{ww} ^{wx} ^{wy} ^{wz} ^{xa} ^{xb} ^{xc} ^{xd} ^{xe} ^{xf} ^{fg} ^{xh} ^{xi} ^{xj} ^{xk} ^{xl} ^{xm} ^{xn} ^{xo} ^{xp} ^{xq} ^{xr} ^{xs} ^{xt} ^{xu} ^{xv} ^{xw} ^{xx} ^{xy} ^{xz} ^{ya} ^{yb} ^{yc} ^{yd} ^{ye} ^{yf} ^{yg} ^{yh} ^{yi} ^{yj} ^{yk} ^{yl} ^{ym} ^{yn} ^{yo} ^{yp} ^{yq} ^{yr} ^{ys} ^{yt} ^{yu} ^{yv} ^{yw} ^{yx} ^{yy} ^{yz} ^{za} ^{zb} ^{zc} ^{zd} ^{ze} ^{zf} ^{zg} ^{zh} ^{zi} ^{zj} ^{zk} ^{zl} ^{zm} ^{zn} ^{zo} ^{zp} ^{zq} ^{zr} ^{zs} ^{zt} ^{zu} ^{zv} ^{zw} ^{zx} ^{zy} ^{zz}
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Summarized knowledge via crowdsourcing

Data imported from structured databases

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4795929/>

Reelin

From Wikipedia, the free encyclopedia

Reelin is a large secreted [extracellular matrix glycoprotein](#) that helps regulate processes of [neuronal migration](#) and positioning in the developing brain by controlling [cell–cell interactions](#).

Besides this important role in early [development](#), reelin continues to work in the adult brain. It

modulates [synaptic plasticity](#) by

^{[2][3]} It also stimulates dendrite^[4]

migration of [neuroblasts](#) genera

zones. It is found not only in the

tissues.

Reelin has been suggested to be

expression of the protein has be

[bipolar disorder](#), but the cause of this observation remains uncertain as studies show that

[psychotropic medication itself affects reelin expression](#). Moreover, epigenetic hypotheses aimed at

explaining the changed levels of reelin expression^[6] are controversial.^{[7][8]} Total lack of reelin

causes a form of [lissencephaly](#). Reelin may also play a role in [Alzheimer's disease](#), [temporal lobe](#)

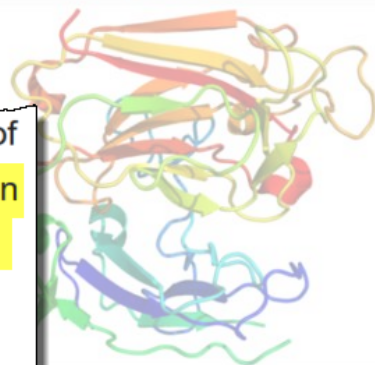
[epilepsy](#) and [autism](#).

Reelin's name comes from the abnormal reeling [gait](#) of *reeler* mice,^[9] which were later found to

have a deficiency of this brain [protein](#) and were [homozygous](#) for mutation of the RELN gene. The

Reelin has been suggested to be implicated in pathogenesis of several brain diseases. The expression of the protein has been found to be significantly lower in schizophrenia and psychotic bipolar disorder, but the cause of this observation remains uncertain as studies show that psychotropic medication itself

Reelin



3D ribbon structure of the third reelin repeat domain.^[1]

Available structures

PDB Ortholog search: [PDBe](#) [RCSB](#)

List of PDB id codes [\[show\]](#)

Identifiers

Symbols RELN ; LIS2; PRO1598; RL

External OMIM: 600514 MGI: 103022



Reelin — Q13561329

human protein (annotated by UniProtKB/Swiss-Prot P78509)

uniprot:P78509

Statements

- [Main page](#)
- [Community portal](#)
- [Project chat](#)
- [Create a new item](#)
- [Item by title](#)
- [Recent changes](#)
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Tools

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- [Special pages](#)
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- [Page information](#)
- [Concept URI](#)
- [Cite this page](#)

Property:P279

subclass of [protein](#) edit

Subclass of [Protein](#) edit — Q8054

▶ 1 reference

Property:P129

physically interacts with [Very low-density lipoprotein receptor](#) edit

Physically interacts with [VLDL receptor](#) — Q1979313

▼ 0 references

[Amyloid beta A4 protein](#) edit

Amyloid beta A4 — Q423510

▼ 0 references

Property:P128

regulates (molecular biology) [Neural development](#) edit

Regulates [Neural development](#) edit — Q1345738

▼ 0 references

Property:P1910

decreased expression in [schizophrenia](#) edit

Decreased expression in [Schizophrenia](#) — Q41112

▶ 1 reference

[bipolar disorder](#) edit

Bipolar disorder — Q131755

▶ 1 reference

Getting data out of Wikidata

- **API**

For getting data about individual Wikidata items (or groups of up to 50)

- **SPARQL Endpoint**

Run advanced queries and get back data for up to around 200k items

- **Data Dump**

Download all available data for large scale local processing of any size

[Read more about Wikidata data access →](#)

SPARQL endpoint for [querying Wikidata](#)

SPARQL is a programming language for querying 'linked data' stored on the web.

Learning SPARQL will allow you to query Wikidata, but also the countless other data sources offering a SPARQL query service.

[Timeline of people educated at the University of St. Andrews](#) [\(View as Wikidata query\)](#)

- [People born on this day](#) →
- [List of countries ordered by the number of their cities with female mayor](#) →
- [Children of Genghis Khan](#) →
- [Map of female writers around the world by birthplace](#)

Useful links

[Wikidata Query Service Beta](#) – Official query service

[SPARQL Query Examples](#)

[WDQ](#) – Third party query service which is simple to learn

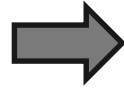
[Video tutorial 1 – Getting started with SPARQL queries.](#)

[Video tutorial 2 – SPARQL query workshop.](#)

Simple data retrieval – Try these example queries

39 genes

**“Retrieve genes with genetic association with asthma”
(According to GWAS).**

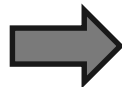


gene	geneLabel	gene	geneLabel	gene	geneLabel	gene	geneLabel
Q5013317	COL22A1	Q18027370	IGSF3	Q18053559	CDHR3	Q14903974	SMAD3
Q14912759	SLC22A5	Q18045382	HPSE2	Q18045669	ATG3	Q18033889	IL1RL1
Q14914243	PSAP	Q18048437	IL33	Q18035037	RAD50	Q17917202	ERBB4
Q14907990	SLC30A8	Q18051900	PYHIN1	Q18036984	FBXL7	Q18027836	IL6R
Q18025002	GAB1	Q17709208	ACO1	Q18033919	XPR1	Q18030185	NOTCH4
Q18035589	C6orf10	Q18027822	IL2RB	Q15326496	RORA	Q18030409	PDE4D
Q18054256	GSDMA	Q18030364	PBX2	Q18042132	GSDMB	Q18045645	IKZF4
Q18058487	C5orf56	Q18037773	ABI3BP	Q18029145	MKLN1	Q18039979	KLHL5
Q18030785	PRKG1	Q18039623	CTNNA3	Q18036729	RAP1GAP2	Q18026947	HLA-DQA1
Q18033424	IL18R1	Q18046350	ZNF665	Q14878303	IL13		

```
1 SELECT DISTINCT ?gene ?geneLabel where {  
2   ?gene wdt:P2293 wd:Q35869 . # gene has genetic association to "asthma"  
3   ?gene wdt:P31 wd:Q7187 . # gene is subclass of "gene"  
4   SERVICE wikibase:label { bd:serviceParam wikibase:language "en". }  
5 }
```

Data integration

“Retrieve genes with
GWAS association
with asthma **and**
gene product is
localized to
membrane”



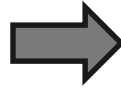
22 genes

gene	geneLabel	gene	geneLabel	gene	geneLabel	gene	geneLabel
Q1491275	SLC22A5	Q1802737	IGSF3	Q1803503	RAD50	Q1802783	IL6R
9		0		7		6	
Q1491424	PSAP	Q1803342	IL18R1	Q1803391	XPR1	Q1803040	PDE4D
3		4		9		9	
Q1490799	SLC30A8	Q1804538	HPSE2	Q1804213	GSDMB	Q1803018	NOTCH4
0		2		2		5	
Q1803558	C6orf10	Q1802782	IL2RB	Q1803672	RAP1GAP2	Q1802694	HLA-DQA1
9		2		9		7	

```
1 SELECT DISTINCT ?gene ?geneLabel where {
2   ?gene wdt:P2293 wd:Q35869 . # gene has genetic association to "asthma"
3
4   ?gene wdt:P31 wd:Q7187 . # gene is subclass of "gene"
5
6   ?gene wdt:P688 ?protein . # gene encodes a protein
7   ?protein wdt:P681 ?cc . # protein has a cellular component
8   ?cc wdt:P279*|wdt:P361* wd:Q14349455 . # cell component is 'part of' or 'subclass of' membrane
9
10 SERVICE wikibase:label { bd:serviceParam wikibase:language "en". }
11 }
```

Leveraging the Disease Ontology structure

“Retrieve genes with GWAS association with **any respiratory disease** and gene product is localized to membrane (non-IEA)”



31 genes / 8 diseases

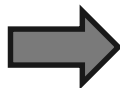
diseaseGALabel	gene_counts	geneList
asthma	15	SMAD3, RAP1GAP2, IL18R1, HPSE2, SLC30A8, SLC22A5, PSAP, ERBB4, HLA-DQA1, IGSF3, IL2RB, IL6R, NOTCH4, PDE4D, RAD50
chronic obstructive pulmonary disease	5	HLA-C, SFTPD, ANXA5, ANXA11, ATP2C2
lung cancer	3	TGM5, VTI1A, PHACTR2
interstitial lung disease	2	DSP, ATP11A
non-small-cell lung carcinoma	2	NALCN, DLST
nasopharynx carcinoma	2	ITGA9, TNFRSF19
adenocarcinoma of the lung	1	BTNL2
pulmonary emphysema	1	BICD1

```
1 SELECT ?diseaseGALabel (count (DISTINCT ?geneLabel)) as ?gene_count
2 (group_concat(DISTINCT ?geneLabel; separator=" ") as ?geneList)
3 ?gene wdt:P2293 ?diseaseGA . # gene is subclass of "gene" and encodes protein
4 ?diseaseGA wdt:P279* wd:Q3286546 . # to a type of respiratory system disease
5
6 ?gene wdt:P31 wd:Q7187 ; wdt:P688 ?protein ; # gene is subclass of "gene" and encodes protein
7 rdfs:label ?geneLabel .
8 FILTER (lang(?geneLabel) = "en")
9 ?protein p:P681 ?s . # protein's cell component statement
10 ?s ps:P681 ?cp . # get statement value
11 FILTER NOT EXISTS ( ?cp rdfs:subproperty p:P681 )
```


Opportunistic integration

4 diseases / 6 chemical hazards

“Retrieve genes with
GWAS association with any
respiratory disease and
gene product is localized to
membrane (non-IEA) **and**
**show causative chemical
hazards”**

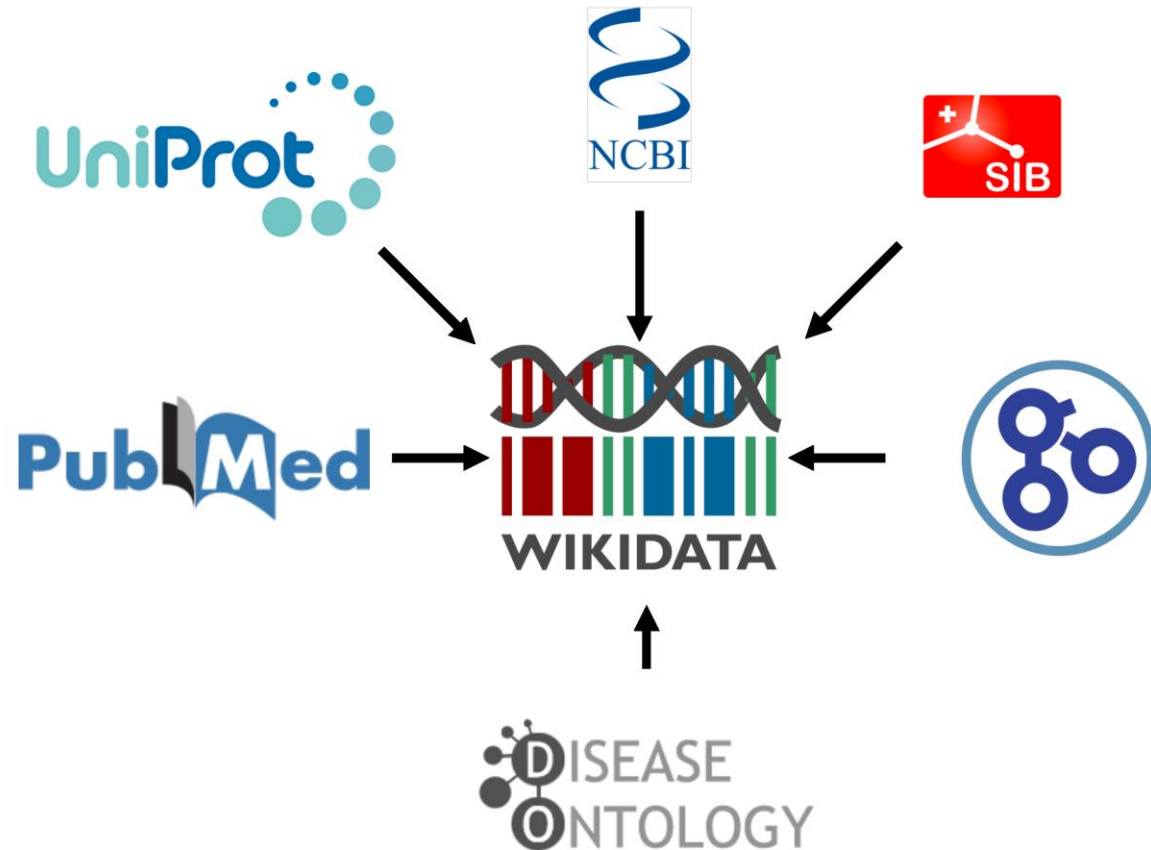


diseaseGALabel	exposureLabel
lung cancer	arsenic pentoxide exposure
lung cancer	HN1 exposure
lung cancer	mechlorethamine exposure
lung cancer	HN3 exposure
asthma	Phenacyl chloride exposure
pulmonary emphysema	phosgene exposure

```
11 .cp wdt:P279 | wdt:P301 wd:Q1434945 . # statement value is part of or o
12
13 ?exposure wdt:P1542 ?diseaseGA . # something causes disease
14 ?exposure wdt:P279 wd:Q21167512 . # and that something is a chemical hazard
15
16 SERVICE wikibase:label { bd:serviceParam wikibase:language "en". }
17 }
```

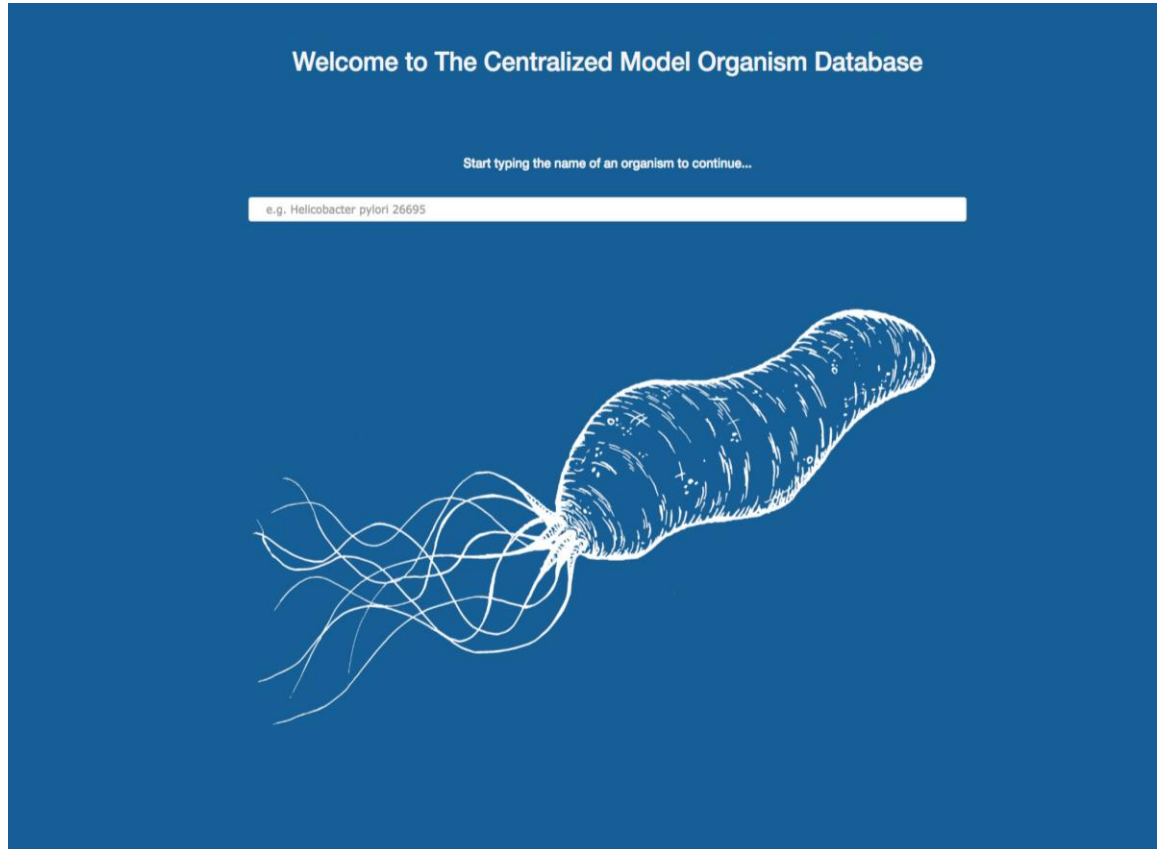
http://bit.ly/bosc2017_wikidata

Centralizing and Linking the Data



[Federated SPARQL queries](#)
[Currently allowed external databases for federated queries.](#)

<http://wikigenomes.org/>



Two Main Functions

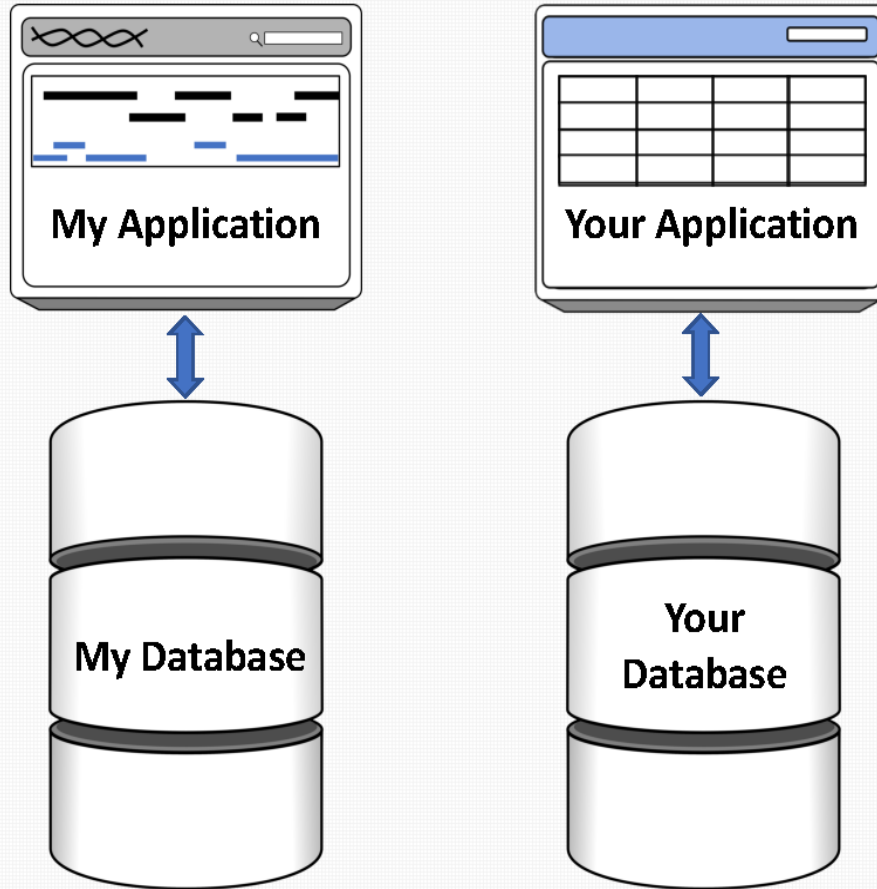


View Data  Write Data 



[WikiGenomes: an open Web application for community consumption and curation of gene annotation data in Wikidata.](#) – Article on Biorxiv.org

The Way it's Always Been



The sum of all human citations

{ } wikicite

INTERNAL INTEGRATION



Build a structured repository of sources to serve as a foundation of free knowledge



3.3 million+ citation links in Wikidata

SCHOLARLY DATA PROVIDERS



EXTERNAL INTEGRATION

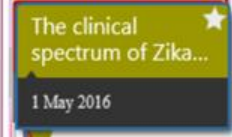
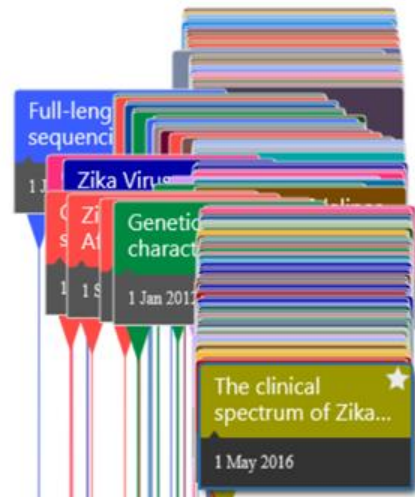


ALTMETRICS SERVICES





[The ZikaCorpus timeline](#)
[The Zika Corpus project on Wikidata](#)
[Most cited publications on Zika virus or Zika fever.](#)
[Most cited authors who have published on Zika.](#)



The Zika Corpus – Histropedia timeline of scientific articles by publication date, colour-coded by publication and filtered by author and original language of work. In February 2016, the World Health Organization [declared a public health emergency](#) over the [Zika virus outbreak](#)

AUTO

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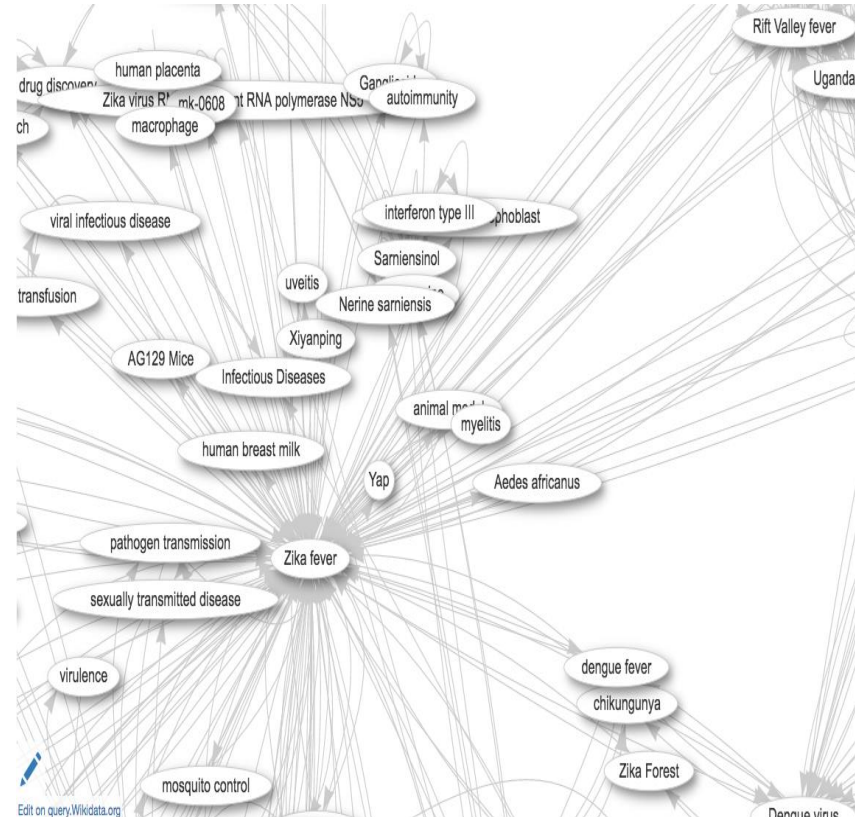
-

Scholia - 2.3 million scientific articles in Wikidata

The Scholia Web service creates on-the-fly scholarly profiles for researchers, organizations, journals, publishers, individual scholarly works, and for research topics.

Among several display formats available are lists of publications for individual researchers and organizations, publications per year, employment timelines, co-author networks and citation graphs.

[Example](#), [Blog article](#) + [Video presentation](#)
[Paper on arxiv.org](#) by Finn Årup Nielsen.



Wikidata: enabling discovery

How can I find reference materials about Jane Austen?

Project Gutenberg, Librivox, Find A Grave, WikiQuote, Kindred Britain (family tree), 103 different language Wikipedias, The Huygens database of Works

- “Jane Austen”
- “Austen, Jane”
- “jane-austen”
- “Аустен, Джен”
- ~~“Jane G. Austin”~~

Authority control

VIAF: 102333412 · LCCN: n79032879 · ISNI: 0000 0001 2283 635X · GND: 118505173 · SELIBR: 207420 · SUDOC: 02669719X · BNF: cb118896036 · ULAN: 500249665 · NLA: 35010277 · NDL: 00431922 · NKC: jn19990000321 · SBN: IT\CCU\CFIV017136 · DBNL: aust003 · PTBNP: 8531 · NTA: 068721722 · BAV: ADV10179859 · NUKAT: n93080119 · IBDB: 6642 · ISFDB: 31095 · LibriVox: 155 · Project Gutenberg: 68 · Find a Grave: 44 · BNE: XX1124986 · NLR: RUNLRAUTH770143336 · Open Library: OL21594A · IMDb: nm0000807 · Freebase: /m/040dv · ODNB: 101000904 · GEC: 0006187 · English Wikisource: 941 · WorldCat

Jane Austen (Q36322)



Enabling discoverability - Doctoral Thesis Metadata

Oxford Research Archive has **3237** Oxford doctoral theses on open access for anyone to download and read.

ORA are sharing their doctoral thesis metadata with Wikidata (title, author, subject, publisher, links to WP)

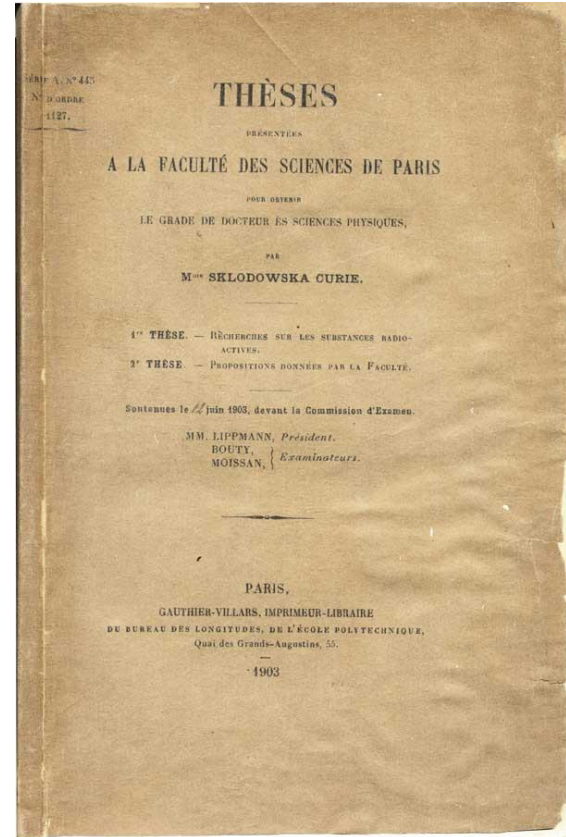
[Query](#) showing all doctoral theses on Wikidata.

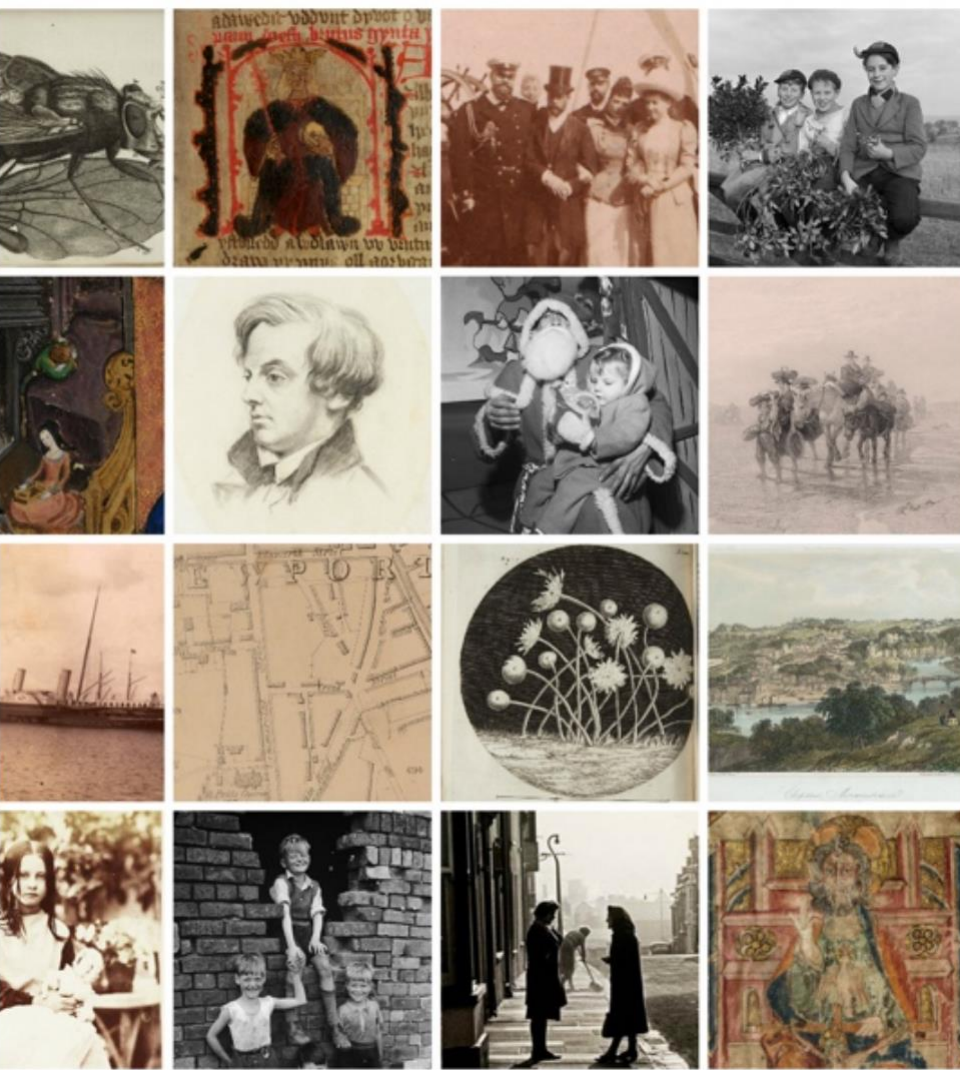
New property: [P4101](#) - *Dissertation submitted to*

How Wikidata links the Oxford theses - [query result](#)

And the [query](#) itself.

See also: [WikiProject:Source Metadata](#)





265 Million Views
on Wikipedia



National Library of Wales ID – (P2966)

<http://tinyurl.com/NLWtimeline>



Accelerate the *discoverability, reusability,* and *societal impact* of open access



EGC LLYFRGELL GENEDLAETHOL CYMRU
NEW THE NATIONAL LIBRARY OF WALES

New Search Re

Any welsh landscape collection AND contains

Publication Date:

Material Type:

Language:

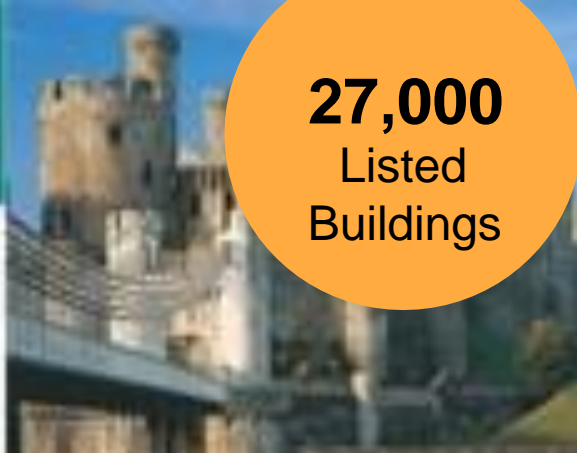
Start Date:

End Date:

Search Scope:



Cadw



27,000
Listed
Buildings

Dictionary of Welsh Biography



4500
People



500
Merchant
ships



4500
Welsh
Landscapes

Edith Eleanor (Q24027483)

merchant ship

Other properties

location of final assembly	Aberystwyth town in Ceredigion, Wales
described by source	Aberystwyth shipping records collection of shipping records
manufacturer	Warren and Co. ship builders
length	80.4 (80.3–80.5)
width	21.3 (21.2–21.4)
mass	105 ± 1
instance of	merchant vessel base class that inherits from ship that transports cargo or carries passengers for hire topsail schooner ship type
catalog code	85261 catalog Aberystwyth shipping records [%]
port of registry	Aberystwyth town in Ceredigion, Wales
inception	1880
significant event	maiden voyage first journey made by a craft point in time 1881 [%] destruction concept of damage to an object, system or an idea point in time 1921 [%] location Bristol Channel [%] has cause shipwrecking [%]

Timeline

1881

significant event: maiden voyage

first journey made by a craft

1921

significant event
destruction



significant event
maiden voyage

significant event
destruction

1880

1890

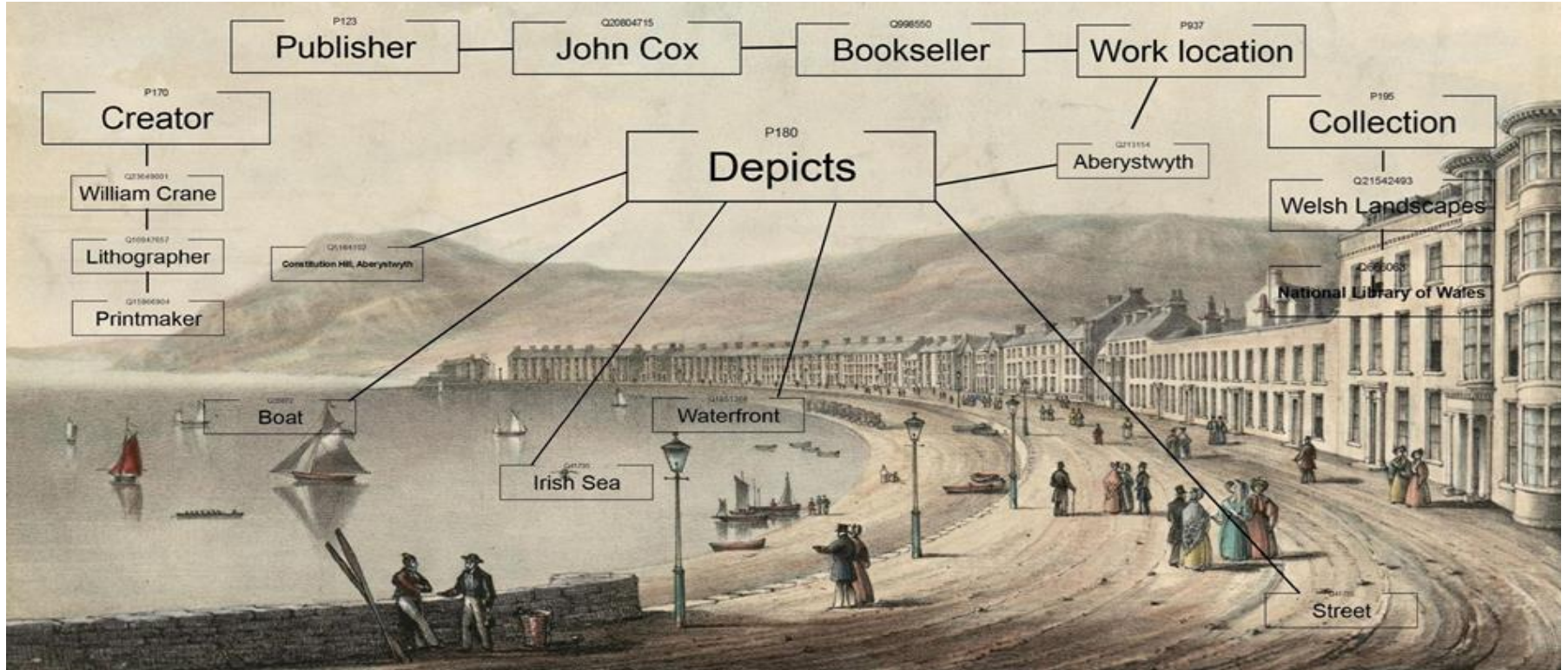
1900

1910

1920



National Library of Wales



[Timeline of NLW collection works](#)

[Link to Crotos](#)

[Sum of all paintings project Lists.](#)

Crotos
Cosmos
Callisto
L&D

cardiff

66 Ergebnisse

Alle Sammlung: National Library of Wales

1 2 3 4 Zufall

-40000 2016

Sprache Deutsch
العربية
אנגליש
Brezhoneg
Català
Čeština
Cymraeg
Dansk
Deutsch
EŬryved
English
Esperanto
Español
فارسی
Suomi
Français
עברית
עברית
Bahasa Indonesia
Italiano
日本語
Basa Jawa
한국어
Nederlands
עברית
Polski
Portugués
Pycckий
Kiswahili

cardiff castle, Gwynedd
Anelka de Sutfren - National Library of Wales

The south gate of Cardiff castle in Glamorgan shire
Paul Sandby - National Library of Wales

Caerdyf
William Byrne - National Library of Wales

Red castle
National Library of Wales

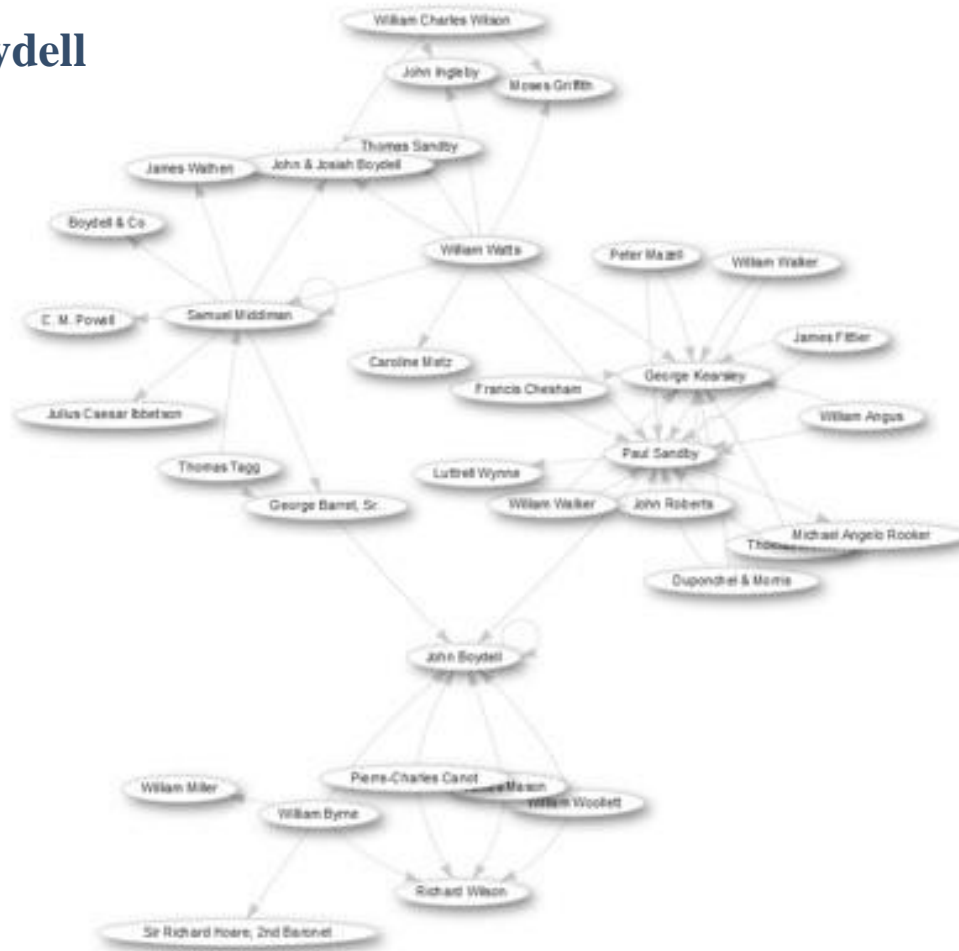
1802
Druck
Inventarnummer: 1129763
Sammlung: National Library of Wales
Ist Teil von: Welsh Landscape Collection
Standort: National Library of Wales
Schlagwort: Cardiff
Motiv: Cardiff Castle - Teil
National Library of Wales <https://www.blc.org.uk/>

1. Images with boats

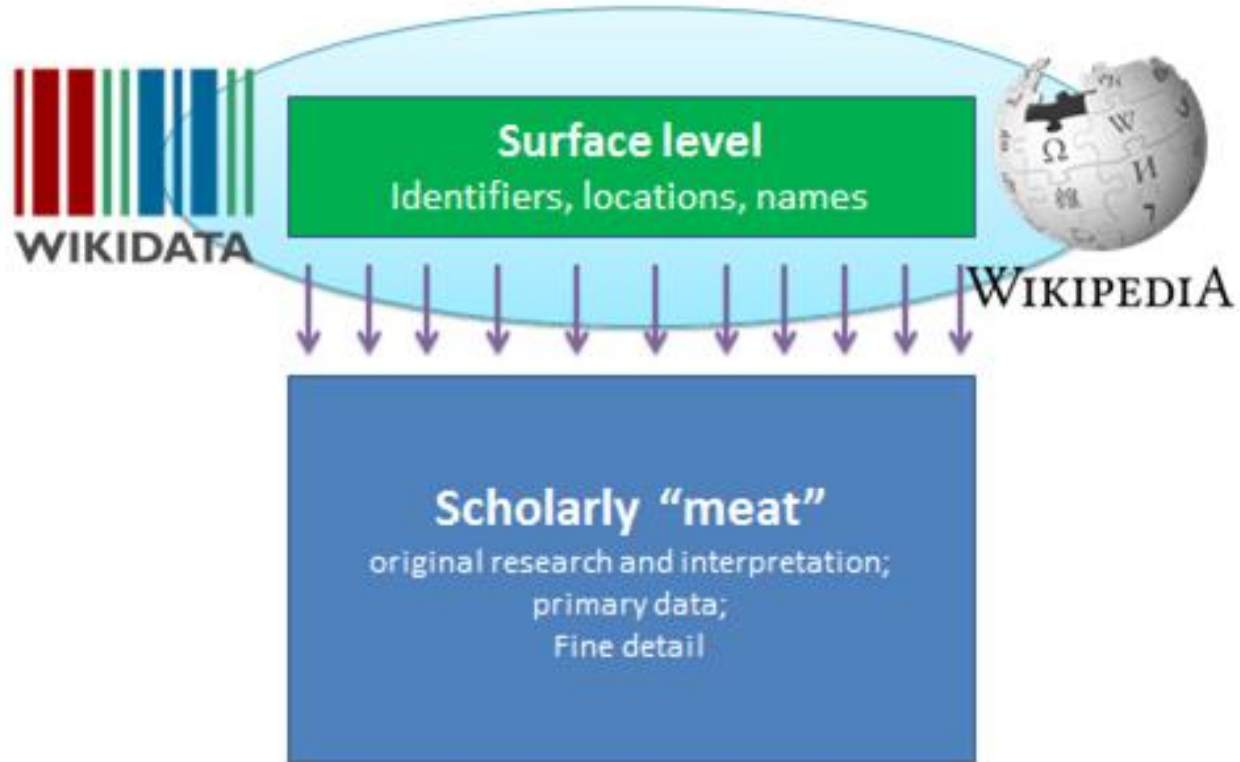
2. Images of Carnarvon Castle

3. Filtering to just the images featuring Eagle Tower at Carnarvon Castle

Links between John Boydell and other Printers/publishers & engravers



Why contribute to another repository?
Enrich **both** repositories by combining datasets.



Wikidata

The free and open knowledge base



Thanks for listening!
Any questions?

ewan.mcandrew@ed.ac.uk



Federated queries

Run queries that combine data from Wikidata and other selected data sources on the web.

[List of 3rd party services supported for federated queries inc. Europeana](#), [Bibliothèque nationale de France](#), [Biblioteca Virtual Miguel de Cervantes](#) and [UK Office for National Statistics](#) among others.

Simple example federated query:

[Works by Lope de Vega, retrieved from the BVMC digital library](#)

1. Lope de Vega's unique [BVMC](#) id is determined from Wikidata
2. This id is then used to retrieve works by Lope de Vega on the BVMC digital library

Links and further reading

- [https://www.wikidata.org/wiki/Wikidata:Data Import Guide](https://www.wikidata.org/wiki/Wikidata:Data_Import_Guide)
- [https://www.wikidata.org/wiki/Wikidata:Database download](https://www.wikidata.org/wiki/Wikidata:Database_download)
- <https://www.wikidata.org/wiki/Property:P2966> – National Library of Wales ID.
- <https://www.wikidata.org/w/api.php>
- <https://tools.wmflabs.org/reasonator/> - Wikidata made 'pretty'
- <https://tools.wmflabs.org/reasonator/?q=Q42> – Reasonator page for Douglas Adams (Q42) by way of example.
- <https://www.mediawiki.org/wiki/Extension:ArticlePlaceholder> – another way of placeholdering articles using structured data from wikidata to populate information in the meantime until an article can be created.
- [Wikidata: Current trends and priorities](#) (May 2017 presentation with current stats)
- [Wikidata video presentations on Media Hopper.](#)

Developer links

#wikidata on chat.freenode.net

wikidata-l@lists.wikimedia.org

[Wikidata – The New Rosetta Stone](#) (article).

[Google closes Freebase](#) (article).

[Google's sketchy attempt to control the world's knowledge](#) (article).

api @ wikidata.org/w/api.php

sandbox @ wikidata.org/wiki/Special:ApiSandbox

The Wikidata Game: <https://tools.wmflabs.org/wikidata-game/distributed/>

PHP

Wikibase API Library: github.com/addwiki/wikibase-api

SPARQL abstraction: github.com/Benestar/asparagus

Python

Wiki bot Framework: mediawiki.org/wiki/Manual:Pywikibot/Wikidata

C# .NET

Wikibase API Library: github.com/Benestar/wikibase.net

Practical - Editing a query

Step 1: Load the sample query: <http://tinyurl.com/ycxw4eyw>

Step 2: Modify the query to find a different set of results, by:

- Changing values
- Changing properties
- Removing lines

Step 3: Share your query on Twitter and/or add to etherpad!

Other notable examples of use cases

[YLE](#) - The Finnish Broadcasting Company, Yle, has since April 1st 2016 tagged online news and feature articles with concepts from Wikidata.

[Inventaire](#) - Create an inventory of your books with Wikidata at [inventaire.io](#)

[WikiGenomes](#) - A freely open, editable, and centralized model organism database for the biological research community. [Paper on WikiGenomes at Biorxiv.org](#)

[Quora](#) - Links to Quora topics will be available through the Wikidata entities and also from Quora topic pages to Wikidata entities.

[Crotos](#) - search and display engine for visual artworks powered by [Wikidata](#).

[And much more besides.](#)

**DATA IS THE
NEW BACON**

English Wikipedia “only includes only includes 30% of the items entered in the other 287 languages.”*

Language	Language (local)	Wiki	Articles	Total	Edits	Admins	Users	Active Users	Images	Depth
English	English	en	5,205,057	39,859,108	841,187,469	1,297	28,749,525	112,301	851,064	935.45
Swedish	svenska	sv	3,361,100	6,752,452	36,314,210	71	500,503	2,223	0	5.48
Cebuano	Cebuano	ceb	2,668,059	4,872,925	9,794,491	5	28,432	107	66	1.37
German	Deutsch	de	1,958,190	5,667,148	161,040,878	236	2,446,855	18,341	131,917	101.94
Dutch	Nederlands	nl	1,874,463	3,633,438	48,119,572	49	778,155	3,901	19	11.66
French	français	fr	1,772,804	8,181,404	130,180,351	167	2,558,400	14,307	40,111	207.00

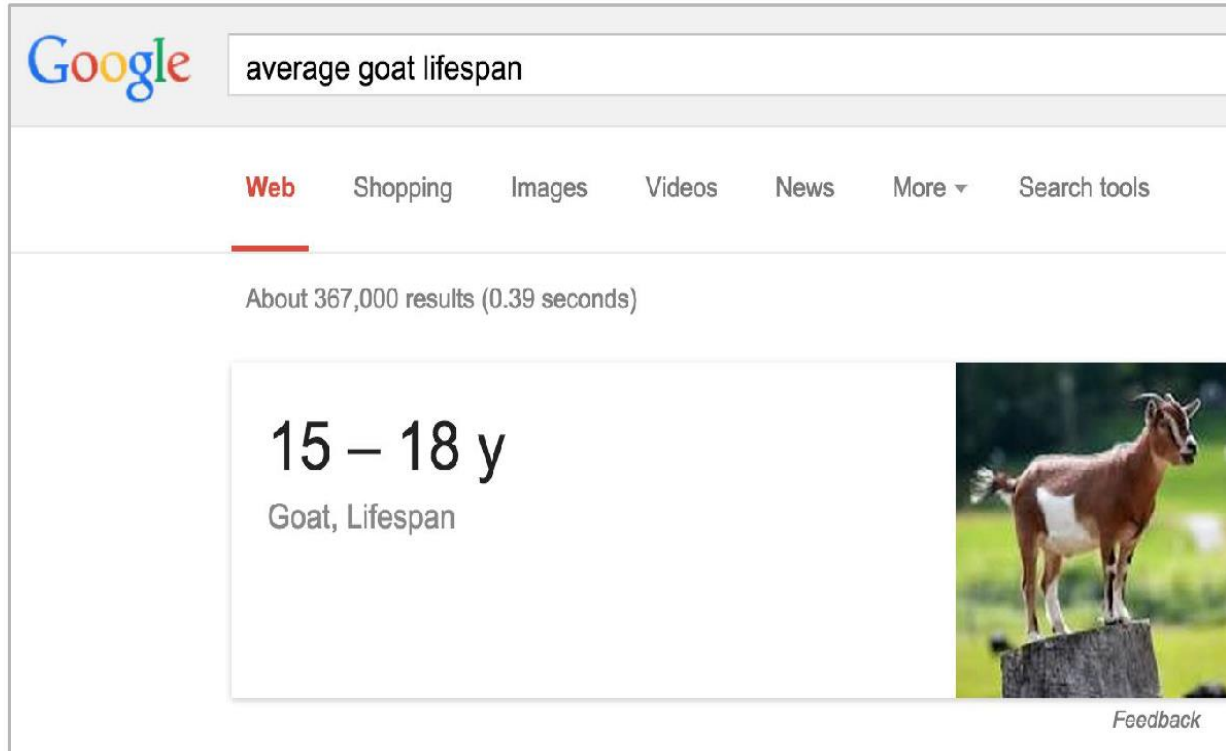
Grand total [edit | edit source]

Articles	Total	Edits	Admins	Users	Active Users	Images
40,742,921	151,823,044	2,214,808,661	3,998	62,976,506	263,618	2,410,128

Vietnamese	Tiếng Việt	vi	1,146,809	3,211,773	24,059,192	23	501,251	1,400	21,222	24.29
Japanese	日本語	ja	1,022,325	2,966,811	61,403,824	49	1,109,224	11,787	83,431	74.88
Portuguese	português	pt	928,143	4,135,001	47,141,295	70	1,793,088	6,793	38,558	136.1

“The promise of linked open data seems to have finally arrived.”

Okay Google..... what's the average lifespan of a goat?



Google


average goat lifespan

Web Shopping Images Videos News More ▾ Search tools

About 367,000 results (0.39 seconds)

15 – 18 y

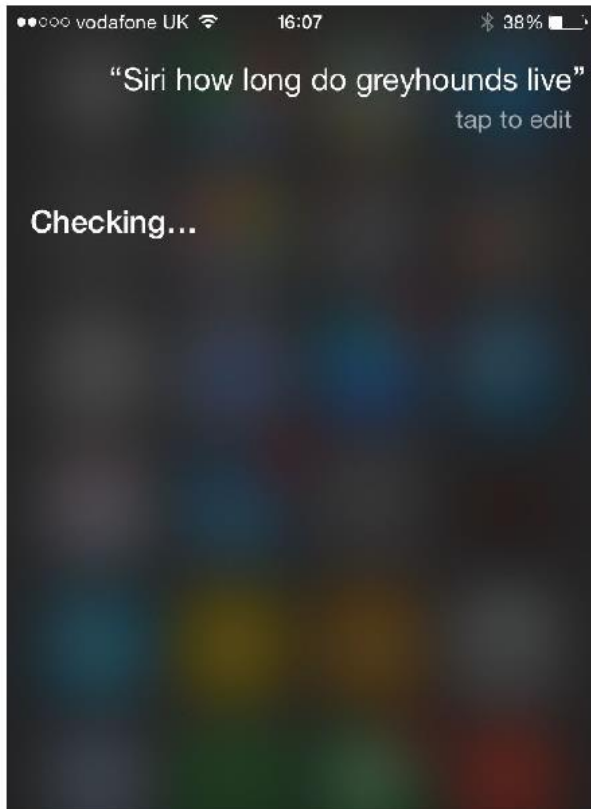
Goat, Lifespan



Feedback



Seldom does the no.1 search engine display the provenance of where the 'suggested answers' it provides come from, undermining "people's ability to verify information and, ultimately, to develop well-informed opinions."(Dewey, 2016)



“Search is the way we now live.” (Darnton in Hillis, Petit & Jarrett, 2012)

what is the average life span of a goat



 Web Apps  Examples  Random

Input interpretation:

domestic goat lifespan

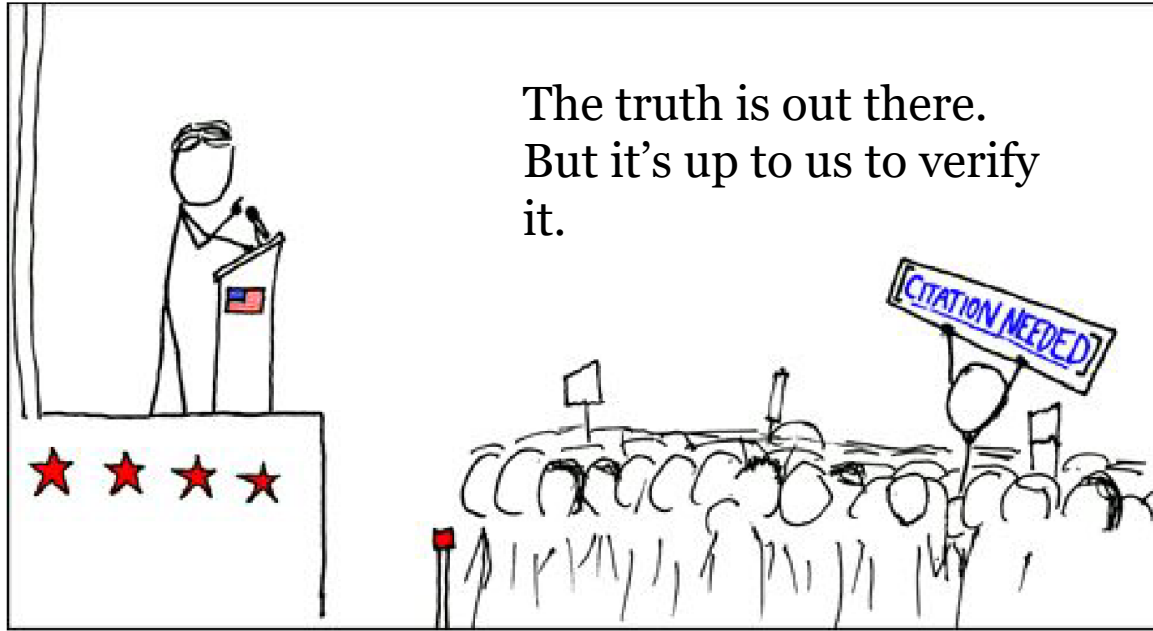
Result:

21 years

of an
is for

Requests by researchers for detailed information on the sources for individual Wolfram|Alpha results can be directed [here](#). Requests will be handled on the basis of priority, importance and available resources.

Fact checking sites are springing up in greater numbers but convenience and cognitive ease have proven to be the drivers for the virtual generation.



Randall Munroe, *Wikipedia protester* <http://tinyurl.com/p3rodlb> [CC BY]

A bibliographic database to
serve the sum of all knowledge?

{ } wikicite



English Not logged in

Item Discussion Read View history Search Wikidata

Skyl Terrier (Q39052)

dog breed

[In more languages](#) [Configure](#)

Language	Label	Description	Also known as
English	Skyl Terrier	dog breed	
French	Skyl terrier	race de chiens	
German	Skyl Terrier	britische Hunderasse	
Scots	No label defined	No description defined	

[All entered languages](#)

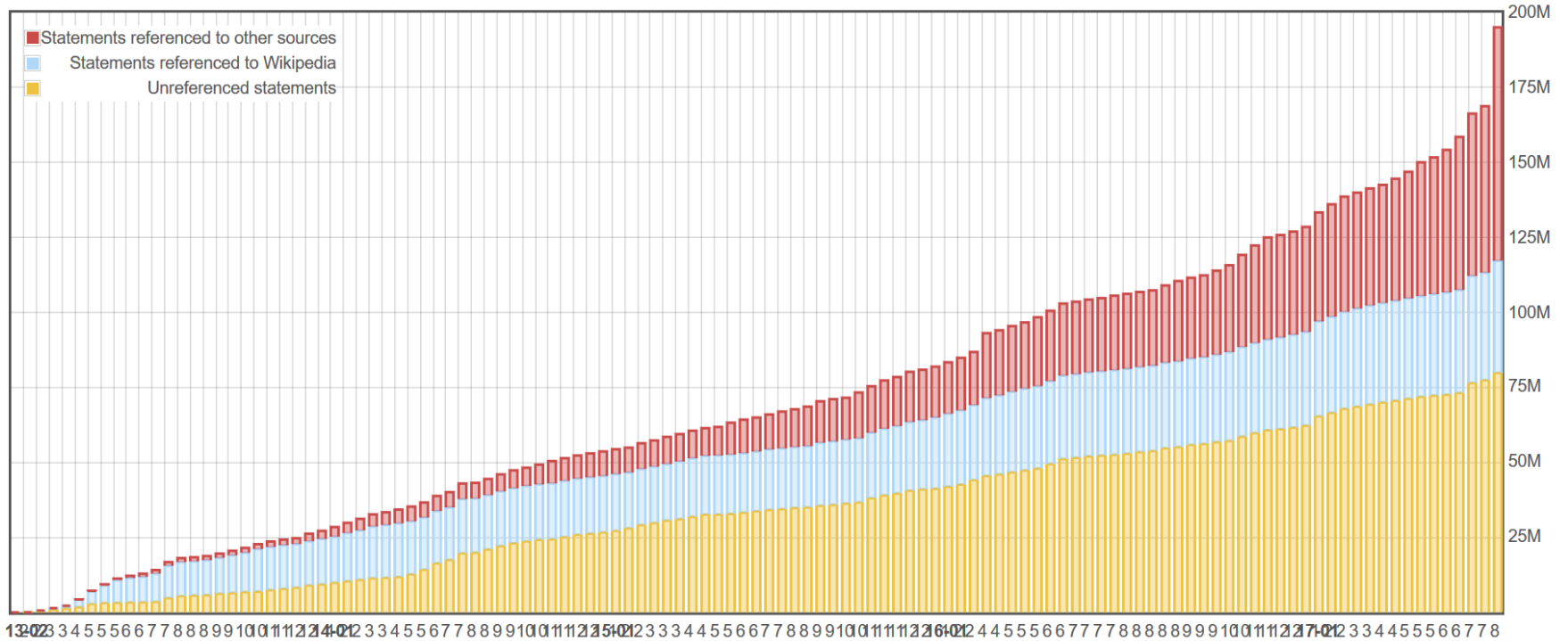
Statements

instance of	dog breed	edit
	+ 1 reference	

Greyfriar's Bobby (1855-1872)
Sat by his master's grave for 14 years.
Died aged 16.

Kennel club say Skyl Terrier's have a life expectancy of "over 12 years".

References in Wikidata



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

https://www.wikidata.org/wiki/Wikidata_talk:WikiProject_Source_Metadata#Sources_used_as_references_on_Wikidata

References in Wikipedia

The molecular origins of insulin go at least as far back as the simplest unicellular [[eukaryotes]].<ref name='LeRoith'>{{cite journal | vauthors = LeRoith D, Shiloach J, Heffron R, Rubinovitz C, Tanenbaum R, Roth J | title = Insulin-related material in microbes: similarities and differences from mammalian insulins | journal = Can. J. Biochem. Cell Biol. | volume = 63 | issue = 8 | pages = 839-49 | year = 1985 | pmid = 3933801 | doi = 10.1139/o85-106 }}</ref> Apart from animals, insulin-like proteins are also known to exist in Fungi and Protista kingdoms.

Activity – Creating ‘worklists’ using the Listeria tool to search Wikidata.



[Listeria](#) subpages – Creating Wikidata ‘worklists’ on Wikipedia.

Basic Listeria code

===List of Scottish female writers on Wikidata===
__TOC__

```
{{Wikidata list
|sparql =SELECT distinct ?item WHERE { ?item wdt:P106 wd:Q36180 .
?item wdt:P27 wd:Q22 . ?item wdt:P21 wd:Q6581072 .}
|section=P69
|sort=label
|columns=label:article,P18,description,P19,P569,P800,P19,P21:gender,P373
|thumb=128
|min_section=1
}}
```

{{Wikidata list end}}

NB: Please remember to add the **{{Wikidata list end}} to the code at the bottom of your listeria query.**

Check the code in the Wikidata Query Service
<https://query.wikidata.org/>

How Do We Get People to Participate?

- This has proven difficult in past efforts
- We are getting specific research communities involved in the development
 - [Chlamydiverse.org](https://chlamydiverse.org) is under development

Summary/Next Steps

- Application development pattern for using a public, open and shared database
- Technical layer that allows users to integrate data into the underlying schema
- Data that comes from WikiGenomes becomes available to any application that uses Wikidata as its backend. (e.g. chlamydiverse.org, Repurpose.us)
- Modularize the framework to be repurposed for any list of taxids
- And standby for WikiGenomes 2.0!!! Coming soon



VS



Auto-extracted from
Wikipedia

Added by community

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Attribution is required

CC0 Licence
Attribution not required

Separate language
versions of data

Single dataset, accessible
in any language

Dbpedia is the way in which Wikipedia is translated into static RDF triples dumps.

Creating new properties on Wikidata

- To create a new predicate ("property" in Wikidata), you have to add a request here - https://www.wikidata.org/wiki/Wikidata:Property_proposal - select the type of property from the list of options (e.g "Authority control" for adding an ID property). Once on one of the category pages, there's a box with button just after the contents).



- Once proposed, other community members will either support or oppose, and some questions may be asked/discussed. After around 2 weeks to a month, if there's been no unresolved objections then the property will be created by an admin.

- The notability of the data is still best discussed initially by posting a message into [Project Chat](#) - notability of a *proposed property* is also discussed on the property proposal page

