

What is Wikidata?

- A central editable repository of **structured and linked data**, on a wiki, under a free license (CC0)
 - o Pure free software; pure free data
 - Open and editable by anyone, including the ontology
- A sister project of Wikipedia, by Wikimedia
- Increasingly, where the cool kids play!



Structured and linked data?

- Structured data: every piece of information is described as **a triple** -- subject, predicate, object, or as Wikidata says: item, property, value.
 - Each such triple can <u>itself</u> be further described/qualified with a series of triples (e.g. time range, context, aspect, provenance)
- Data statements link to each other, enabling discovery and reasoning.





Item: Earth (Q2)



Item: Earth (Q2)



Still sounds pretty complicated.

Why should I care?





(Just) A handful of Wikidata uses

- 1. Describe data with flexible level of detail or abstraction
- 2. Centralize data and avoid duplication of effort
- 3. Avoid multiple copies falling out of sync
- 4. Connect disparate IDs and align datasets
- 5. Serve as discovery platform for data elsewhere
- 6. Massively multilingual aligned vocabularies
- 7. Lateral querying across arbitrary vectors



Sir Edmund Hillary

...by any other ID...

Identifiers





Library of Congress authority
ID

▶ 1 reference

+ add value

Sir Edmund Hillary

	by any other ID	2 //
Dictionary of New Zealand Biography	♦ 6h1 ▼ 0 references	∅ edit
	Voteletetices	+ add reference
		+ add value
British Museum person- institution	 194556 ▼ 0 references	∅ edit
	Voteletetices	+ add reference
		+ add value
WikiTree person ID	⊕ Hillary-33	∅ edit
	▼ 0 references	+ add reference
		+ add value

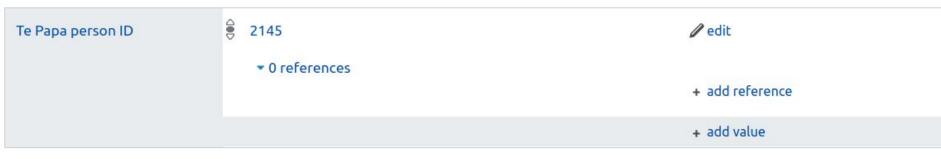


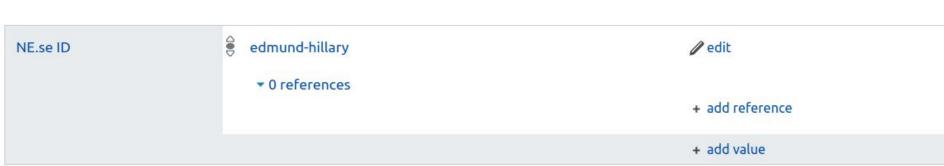




Sir Edmund Hillary

...by any other ID...





And about 40 other IDs!

Famous kiwis

by # of languages in which they are covered on Wikipedia

y was a languages in trinon they are covered on print				
person	personLabel	sitelinks		
Carrier Control of Control		111111		

Ernest Rutherford 146

Q wd:Q9123 Edmund Hillary 117 Q wd:Q33817

Russell Crowe 109

Q wd:Q129817 Q wd:Q4465 Peter Jackson 81

Q wd:Q57783 John Key 62

Lorde

Lucy Lawless

Q wd:Q13476175

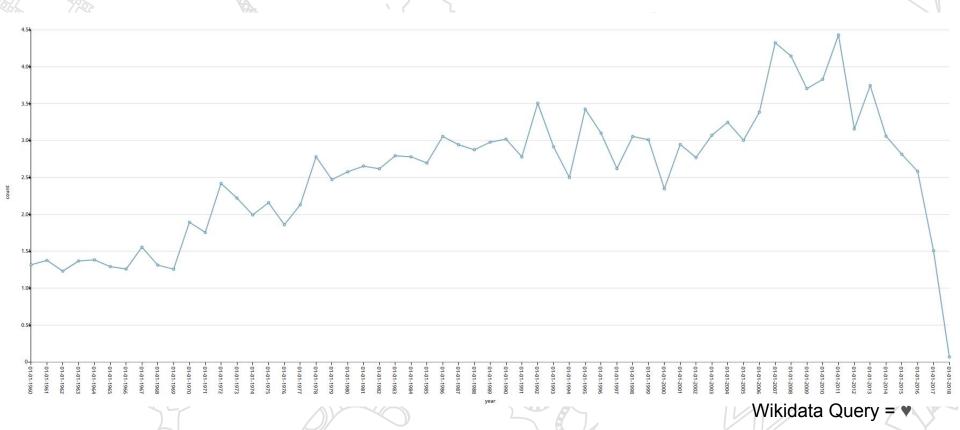
Q wd:Q133112

62

61

Wikidata Query = 1

New species by year



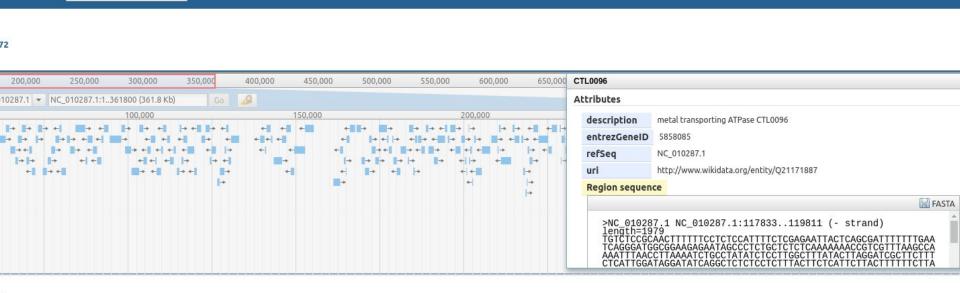
Hospitals in the world

SELECT * WHERE { ?item wdt:P31*/wdt:P279* wd:Q16917; wdt:P625 ?geo . }



Amazing things built on top of Wikidata

WikiGenomes.org



Genes: 859

Gene Search: e.g. CTL0002

Crotos Cosmos Search Callisto Lab 139 Results

Crotos art browser



Pitti Tondo Michelangelo - Bargello











Young Slave dell'Accademia



Michelangelo - Galleria













The Drunkenness of Noah

Michelangelo - Sistine Chapel



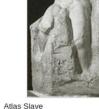


1 2 3 4 5 ... 7 Random









Michelangelo - Galleria dell'Accademia





































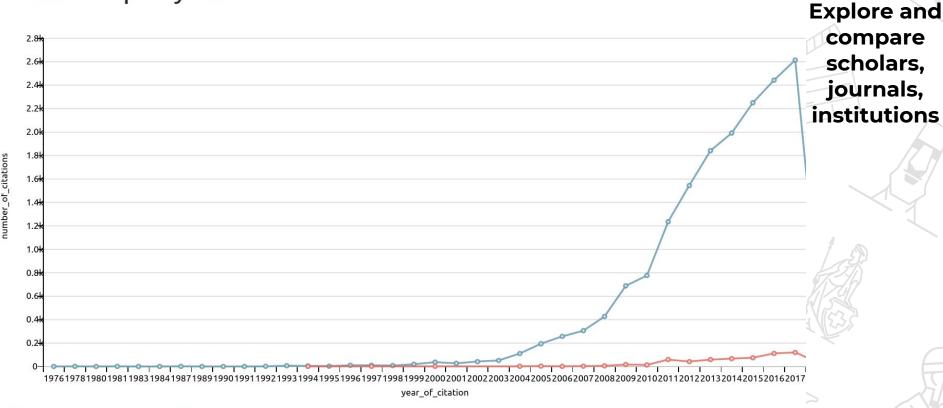


Scholia

Citations per year

University of Auckland

Victoria University of Wellington







So catch me later or drop me a line, for more!

(lexicographical data! Describing media files with structured data!)



