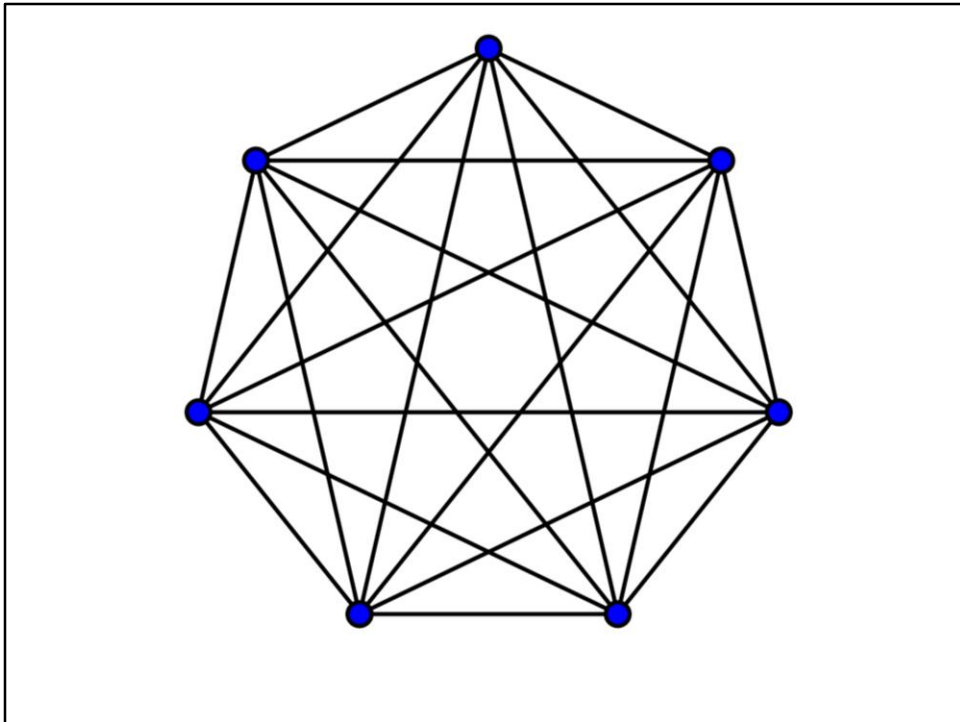


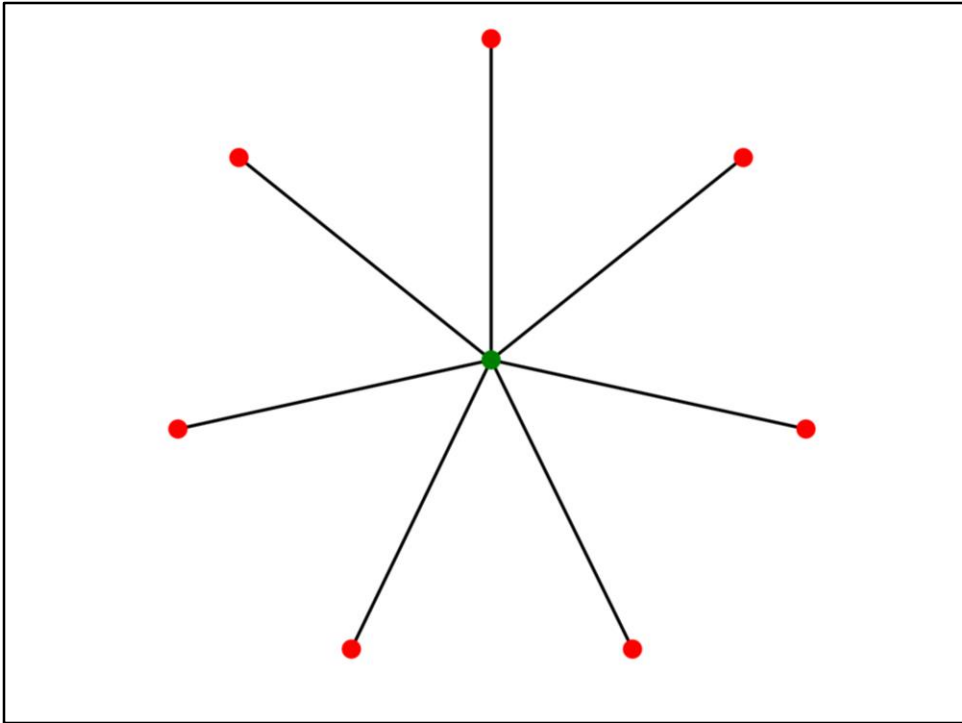
# A general introduction to Wikidata, for GLAMs

Maarten Dammers  
[[User:Multichill]]

- A general introduction to Wikidata, for GLAMs
- Introduce myself. Nlwp, Commons, Wikidata, GLAMwiki, bots, Wiki Loves Monuments, uploads,



- Interlanguage (interwiki) links used to be local
- Lot's of bots running around doing updates.
- Didn't scale
- [https://commons.wikimedia.org/wiki/File:Complete\\_graph\\_K7.svg](https://commons.wikimedia.org/wiki/File:Complete_graph_K7.svg)



- Proposal to put this in a central place
- Start of Wikidata

https://www.wikidata.org/wiki/Q1

English Multichill Talk Preferences Beta Watchlist Contributions

Item Discussion Read Labels list View history More Search

**universe** (Q1)

totality of planets, stars, galaxies, intergalactic space, and all matter and energy  
cosmos | The Universe

In more languages

Language	Label	Description	Also known as
English	universe	totality of planets, stars, galaxies, interg...	cosmos The Universe
German	Universum	Gesamtheit der Energie, des Raumes u...	Weitall All Kosmos Weltraum
Spanish	universo	totalidad del espacio-tiempo, la materia ...	cosmos
French	Univers	ensemble des planètes, des étoiles, de...	Cosmos
Dutch	heelal	alle materie en energie binnen het geh...	universum kosmos cosmos
Portuguese	universo	tudo o que existe fisicamente, a totalida...	Universo cosmos

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

Print/export  
Create a book  
Download as PDF  
Printable version

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

- It started with Q1, the universe somewhere back in October 2012
- This is what you call an item



- Wikidata was born

## Johannes Vermeer (Q41264)

[edit]

Dutch 17th century painter

Jan Vermeer | Johannes Vermeer van Delft

▼ In more languages

Language	Label	Description	Also known as
<a href="#">English</a>	Johannes Vermeer	Dutch 17th century painter	Jan Vermeer Johannes Vermeer van Delft
<a href="#">German</a>	Jan Vermeer	Holländischer Maler	Johannes Vermeer Joannis van der Meer Jan Vermeer van Delft Joannis ver Meer
<a href="#">Spanish</a>	Johannes Vermeer	No description defined	Johannes van der Meer Jan Vermeer Vermeer de Delft Vermer Jan Vermeer van Delft Johannes Vermeer van Delft Vermeer
<a href="#">French</a>	Johannes Vermeer	peintre hollandais	Vermer Jan Vermeer van Delft Jan Vermeer Vermeer de Delft Vermeer
<a href="#">Dutch</a>	Johannes Vermeer	Nederlands kunstschilder	

- The different parts of an item
- Label – No disambiguation
- Description – Short description
- Alias – Other names
- Every Wikipedia articles has an item



- Links to Wikipedia
- Also to other sites
- Badges

## place of birth (P19)

[edit]

the most specific known (e.g. city instead of country, or hospital instead of city)

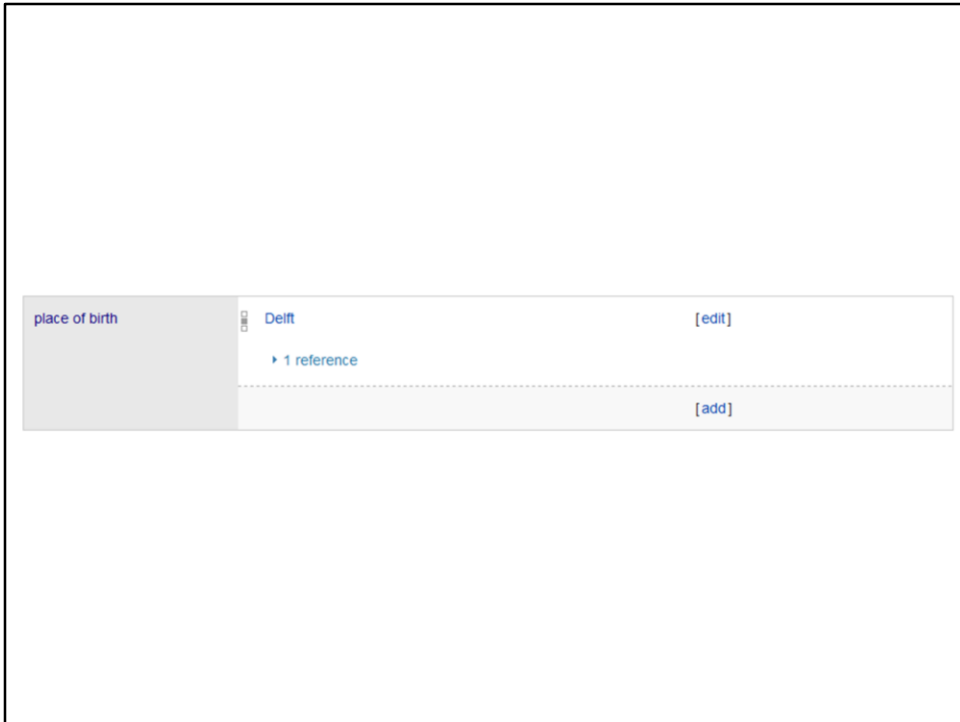
birthplace | born in | POB | birth place | location born | born at | birth location | location of birth

▼ In more languages


Language	Label	Description	Also known as
English	place of birth	the most specific known (e.g. city instead of c...	birthplace born in POB birth place location born born at birth location location of birth
German	Geburtsort	Ort, in dem ein Mensch geboren wurde	geboren in
Spanish	lugar de nacimiento	Sitio donde nació una persona. Usar el sitio m...	
French	lieu de naissance	lieu où la personne est née, le plus spécifique...	né à naissance née à
Dutch	geboorteplaats	de meest specifieke bekende geboorteplaats ...	
Portuguese	local de nascimento	local de nascimento da pessoa (o mais espec...	lugar de nascimento nasceu em nascido em

- Properties, do be used on items
- Same structure with labels, descriptions, aliases
- Just like items all multilingual





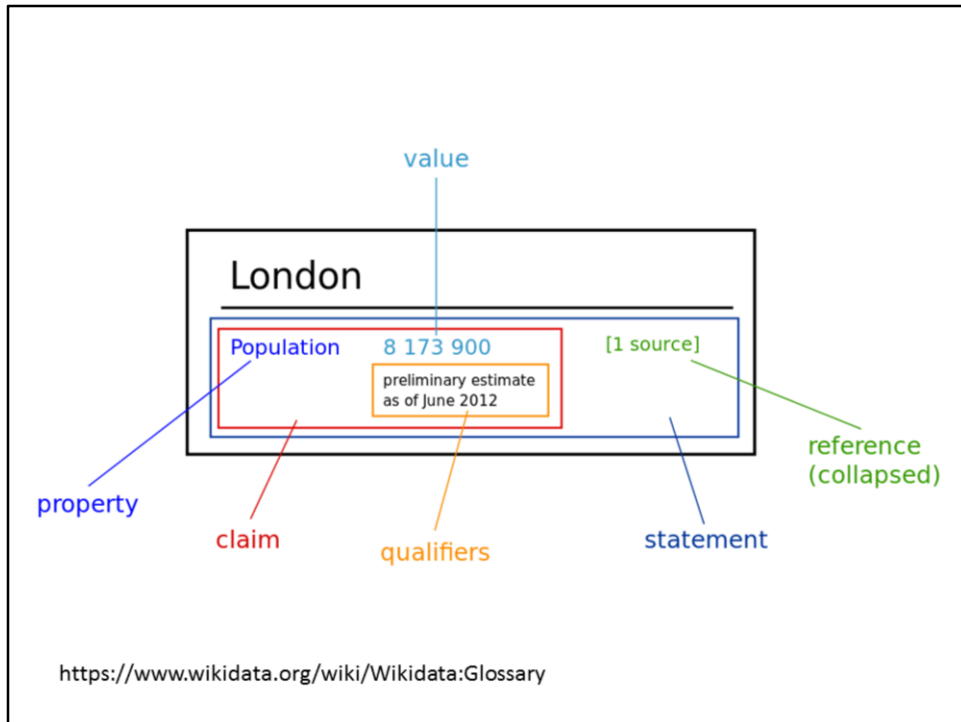
- A claim is a property -> right hand (can be item of some other type like string, image, coordinate)

inventory number	SK-A-2344	[edit]
	collection	Rijksmuseum
	▼ 1 reference	
		[edit]
	reference URL	<a href="https://www.rijksmuseum.nl/en/collection/SK-A-2344">https://www.rijksmuseum.nl/en/collection/SK-A-2344</a> 
	retrieved	9 April 2015
		[add reference]
		[add]

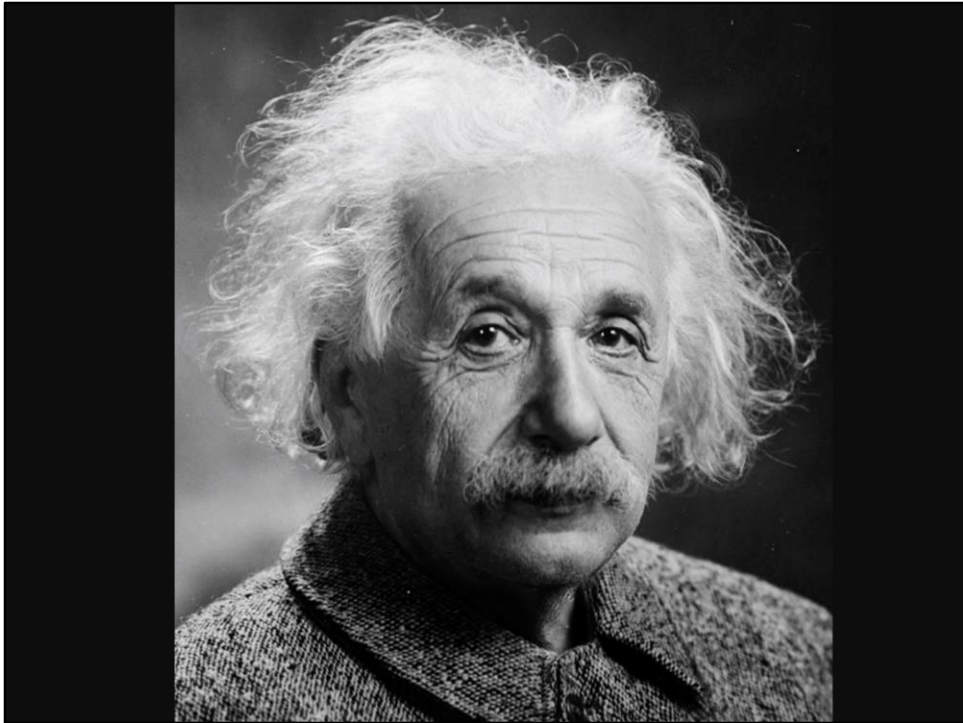
- Claim with source added and here we have a qualifier
- This is called a statement



- Milkmaid!
- Previous statement is on the item about this painting
- Add link



- Here you see the different parts
- Difference between claim and statement
- [https://commons.wikimedia.org/wiki/File:Wikidata\\_statement.svg](https://commons.wikimedia.org/wiki/File:Wikidata_statement.svg)



- Total of 13,M items.
- We have 2,8 million humans

[https://commons.wikimedia.org/wiki/File:Albert\\_Einstein\\_Head.jpg](https://commons.wikimedia.org/wiki/File:Albert_Einstein_Head.jpg)



- Most of them are men (almost 2,2M).
- About 240.000 politicians (bit over 10%)
- [https://commons.wikimedia.org/wiki/File:President\\_Barack\\_Obama.jpg](https://commons.wikimedia.org/wiki/File:President_Barack_Obama.jpg)



- People from all times. About 50.000 painters
- [https://commons.wikimedia.org/wiki/File:Rembrandt\\_van\\_Rijn\\_-\\_Self-Portrait\\_-\\_Google\\_Art\\_Project.jpg](https://commons.wikimedia.org/wiki/File:Rembrandt_van_Rijn_-_Self-Portrait_-_Google_Art_Project.jpg)



- Over 400.000 women
- Ada Lovelace
- [https://commons.wikimedia.org/wiki/File:Ada\\_Lovelace\\_1838.jpg](https://commons.wikimedia.org/wiki/File:Ada_Lovelace_1838.jpg)





- We have 1,9M items about taxons
- Flowers (*Echinacea purpurea*)
- [https://commons.wikimedia.org/wiki/File:Echinacea\\_purpurea,\\_Jard%3ADn\\_Bot%3A1nico,\\_M%3BANich,\\_Alemania,\\_2013-09-08,\\_DD\\_01.jpg](https://commons.wikimedia.org/wiki/File:Echinacea_purpurea,_Jard%3ADn_Bot%3A1nico,_M%3BANich,_Alemania,_2013-09-08,_DD_01.jpg)

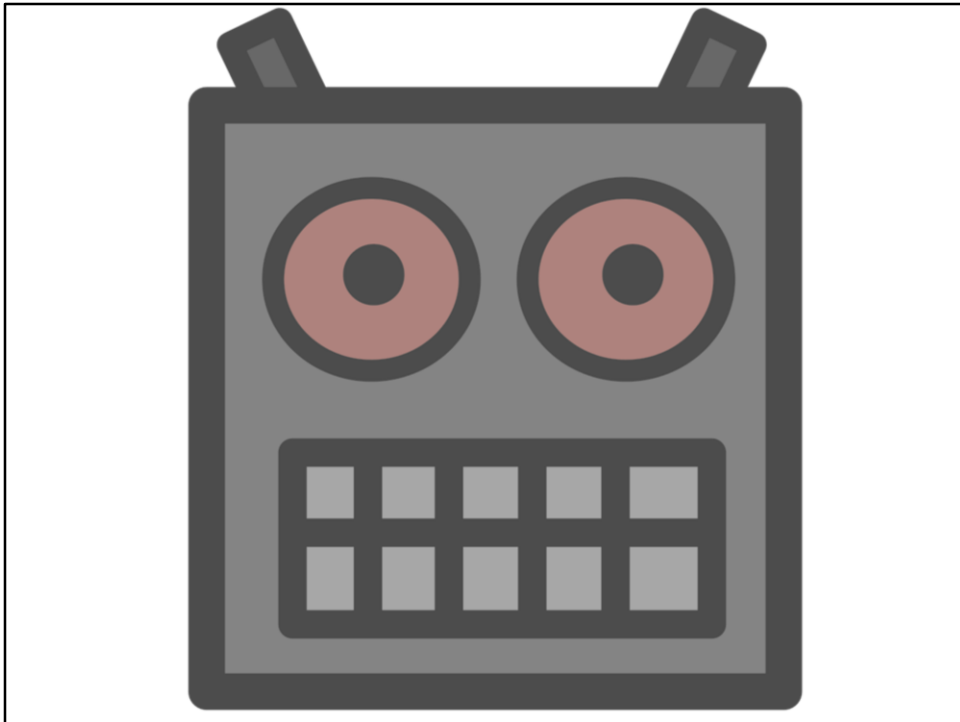


- Butterflies (Glassy Tiger / Parantica aglea)
- About 1,7M species

[https://commons.wikimedia.org/wiki/File:Parantica\\_aglea\\_at\\_Nayikayam\\_Thattu.jpg](https://commons.wikimedia.org/wiki/File:Parantica_aglea_at_Nayikayam_Thattu.jpg)



- And lot's and lot's of bugs (*Anoplotrupes stercorosus*)
- <https://commons.wikimedia.org/wiki/File:Metsasitikas.jpg>



- A lot of taxon articles bot generated on several Wikipedia's

[https://commons.wikimedia.org/wiki/File:Robot\\_icon.svg](https://commons.wikimedia.org/wiki/File:Robot_icon.svg)



- From the biggest cities (Hong Kong from Victoria peak)
- [https://commons.wikimedia.org/wiki/File:Hong\\_Kong\\_Night\\_Skyline.jpg](https://commons.wikimedia.org/wiki/File:Hong_Kong_Night_Skyline.jpg)



- To the tinyist towns Bodie California (ghost town)
- Most of these things come from Wikipedia. Now also slowly working on items without articles

Took the picture myself



- Historic buildings. More about that later
- [https://commons.wikimedia.org/wiki/File:Sint-Hippolytuskerk,\\_Hervormde\\_kerk.jpg](https://commons.wikimedia.org/wiki/File:Sint-Hippolytuskerk,_Hervormde_kerk.jpg)



- Paintings (more about that later)
- [https://commons.wikimedia.org/wiki/File:Jan\\_Asselijn\\_-\\_De\\_doorbraak\\_van\\_de\\_Sint\\_Anthonisdijk\\_in\\_Amsterdam.jpg](https://commons.wikimedia.org/wiki/File:Jan_Asselijn_-_De_doorbraak_van_de_Sint_Anthonisdijk_in_Amsterdam.jpg)





- Paintings of historic buildings
- <https://commons.wikimedia.org/wiki/File:Berkheyde-Haarlem.jpg>



- First edit October 2012
- Relatively young project (Wikipedia started in 2001)
- [https://commons.wikimedia.org/wiki/File:Wikidata\\_cupcake\\_II.svg](https://commons.wikimedia.org/wiki/File:Wikidata_cupcake_II.svg)



- Still under active technical development
- This is the Wikidata team. Wikimedia Germany is in the lead. Lydia in the center project lead
- Many long time Wikimedians/semantic MediaWiki experience



- Software still very much under construction
- Units, random access, query
- [https://commons.wikimedia.org/wiki/File:CSIRO\\_ScienceImage\\_1541\\_Research\\_vessel\\_Investigator\\_under\\_construction.jpg](https://commons.wikimedia.org/wiki/File:CSIRO_ScienceImage_1541_Research_vessel_Investigator_under_construction.jpg)



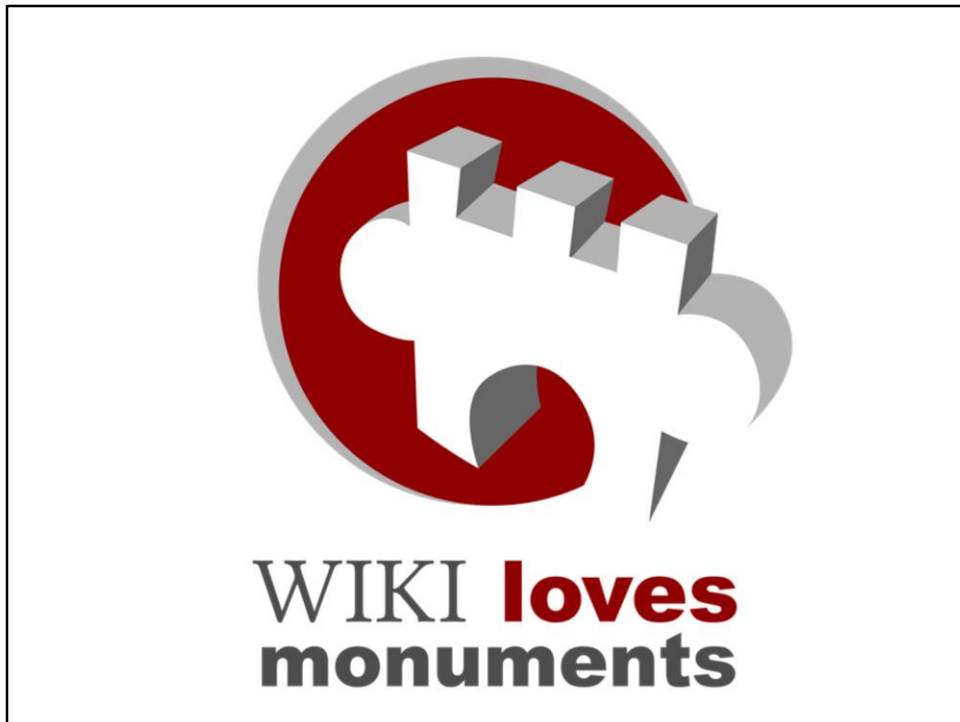
- Wikipedia is much more mature
- Sometimes feels like this
- Need to find link



- Community is also relatively new and more a Wild West atmosphere to it
- Less rules, less politics, nice people
- We're exploring new ground here
- [https://commons.wikimedia.org/wiki/File:Grabill\\_-\\_The\\_Cow\\_Boy.jpg](https://commons.wikimedia.org/wiki/File:Grabill_-_The_Cow_Boy.jpg)



- Notability for example is very much in movement
- Is it useful data to add or is it just dumping trash?
- For the Wikipedians: Inclusionists vs deletionists
- Data has to be used and maintainable, we don't want to become a data landfill
- [https://commons.wikimedia.org/wiki/File:LOCAL\\_RESIDENTS\\_DUMP\\_TRASH\\_IN\\_CLYDE\\_KEPLEY%27S\\_SANITARY\\_LAND\\_FILL\\_-\\_NARA\\_-\\_542549.jpg](https://commons.wikimedia.org/wiki/File:LOCAL_RESIDENTS_DUMP_TRASH_IN_CLYDE_KEPLEY%27S_SANITARY_LAND_FILL_-_NARA_-_542549.jpg)



- For Wiki Loves Monuments I build the monuments database
- It contains 1,3 million records
- Create an entry for every historic building and kill it!
- Netherlands done, working on other countries
- [https://commons.wikimedia.org/wiki/File:LUSITANA\\_WLM\\_2011\\_d.svg](https://commons.wikimedia.org/wiki/File:LUSITANA_WLM_2011_d.svg)





### **The Art & Architecture Thesaurus (AAT)®**

*Catherine wheel or rose window?*  
AAT is a structured vocabulary, including terms, descriptions, and other information for generic concepts related to art, architecture, conservation, archaeology, and other cultural heritage.



### **The Cultural Objects Name Authority (CONA)®**

*Mona Lisa or La Gioconda?* CONA includes titles, attributions, depicted subjects, and other information about works of art and architecture as derived from scholarly literature, museum collections, special collections, archives, libraries, and indexing projects. CONA is linked to the AAT, TGN, and ULAN.



### **The Getty Thesaurus of Geographic Names (TGN)®**

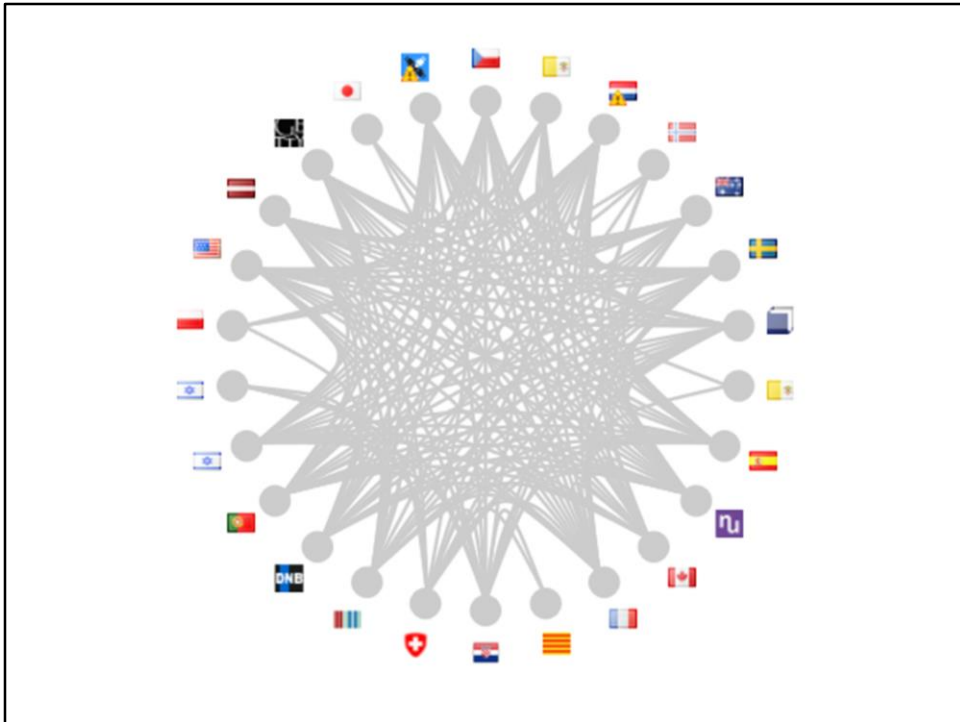
*London or Londinium?* TGN is a structured vocabulary, including names, descriptions, and other information for current and historical administrative places and physical features important to art and architecture.



### **The Union List of Artist Names (ULAN)®**

*Titian or Tiziano Vecellio?* ULAN is a structured vocabulary, including names, biographies, related people, and other information about artists, architects, firms, studios, museums, patrons, sitters, and other people and groups involved in the creation and study of art and architecture.

- Getty does authority control, we do to!
- We link to many. AAT is concepts, CONA is objects, TGN is locations, ULAN is people
- Screenshot of <http://www.getty.edu/research/tools/vocabularies/>



- Viaf! Already a history on Wikipedia
- 550.000 links right now
- Viaf is switching from Wikipedia to Wikidata. YOU SHOULD DO THAT TOO!
- We also have the connected items (like NTA, 120.000) and we run bots
- [https://viaf.org/viaf/64013650/#Rembrandt\\_Harmenszoon\\_van\\_Rijn,\\_1606-1669](https://viaf.org/viaf/64013650/#Rembrandt_Harmenszoon_van_Rijn,_1606-1669)



- A=Rijksmuseum creators, B=RKD artists, C=ULAN
- A=1527, B=25603, C=37364, A&B=1309, A&C=1261, B&C=15445, A&B&C=1220
- Overlap with different types of authority control
- For example Rijksmuseum painters which have ULAN and RKD
- Used <http://www.benfrederickson.com/venn-diagrams-with-d3.js/>

RKD artists	Rijksbureau voor Kunsthistorische Documentatie artist biogra...	
RKD images	RKS images subset	
SAAM biographies	Smithonian American Art Museum	
SBI	Slovenska biografija	
Sandart	A net-based research platform on the history of art and cult...	
Sycomore National Assembly	Sycomore database, by the French	
TGN	Thesaurus of Geographic NamesGetty Thesaurus of Geographic N...	
ULAN	Union List of Artist Names	
UNII	Unique Ingredient Identifier	
WGA	Web Gallery of Art: Image collection and database of Europea...	
Women in science	Collected all over the web; watch for duplicates, wrong entr...	
YourPaintings	BBC Your Paintings	

- Mix'n'Match is used to make initial matches
- Bot also do imports.
- Still a lot of work to do
- <https://tools.wmflabs.org/mix-n-match/>



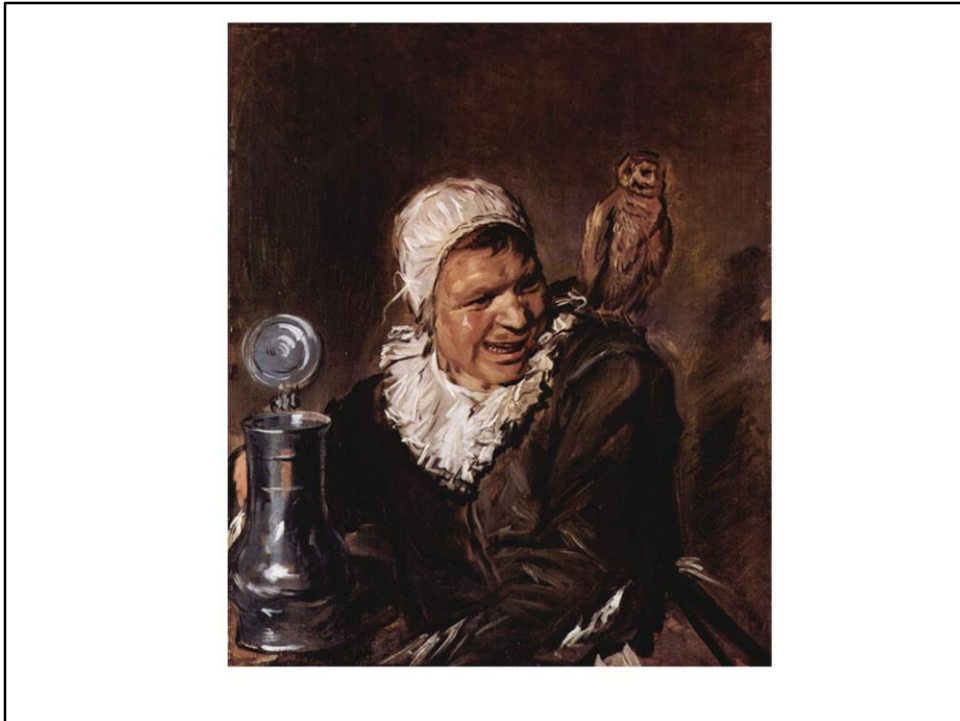
- Sum of all paintings
- We of course have Mona Lisa! Is has an article in 97 languages
- The **WikiProject sum of all paintings** is a WikiProject to get an item for every painting in the collection of a museum
- [https://commons.wikimedia.org/wiki/File:Mona\\_Lisa,\\_by\\_Leonardo\\_da\\_Vinci,\\_from\\_C2RMF\\_retouched.jpg](https://commons.wikimedia.org/wiki/File:Mona_Lisa,_by_Leonardo_da_Vinci,_from_C2RMF_retouched.jpg)



- Paintings that don't have a Wikipedia article (yet)
- Per collection import
- Much easier to create an item than to create an article
- Bots do import. All depends on data quality
- [https://commons.wikimedia.org/wiki/File:Hendrik\\_Willem\\_Mesdag\\_-\\_Vissersschepen\\_in\\_de\\_branding.jpg](https://commons.wikimedia.org/wiki/File:Hendrik_Willem_Mesdag_-_Vissersschepen_in_de_branding.jpg)



- Bring together different collections
- For example this painter (Ludolf Bakhuizen) has works in Mauritshuis and Rijksmuseum
- [https://commons.wikimedia.org/wiki/File:The\\_dock\\_of\\_the\\_Dutch\\_East\\_India\\_Company\\_at\\_Amsterdam.jpg](https://commons.wikimedia.org/wiki/File:The_dock_of_the_Dutch_East_India_Company_at_Amsterdam.jpg)



- To create a **catalogue raisonné** for every painter
- A **catalogue raisonné** is a comprehensive, annotated listing of all the known artworks by an artist either in a particular medium or all media. The works are described in such a way that they may be reliably identified by third parties.
- Malle Babbe by Frans Hals (not only a beer Liam)
- Painters in authority control
- [https://commons.wikimedia.org/wiki/File:Frans\\_Hals\\_021.jpg](https://commons.wikimedia.org/wiki/File:Frans_Hals_021.jpg)





- We have a lot of tools, bit of a mess
- [https://commons.wikimedia.org/wiki/File:Toolbox\\_%286788494881%29.jpg](https://commons.wikimedia.org/wiki/File:Toolbox_%286788494881%29.jpg)

Combining datasets...

Only one dataset found; using 'wdq'.

After OR : 15,445 items.


15,445 items in combination.

Query took 0.38835382461548 seconds. 0.5 MB memory used.

Checkboxes :


3	<input checked="" type="checkbox"/>	<a href="#">Winnem Kipnani</a>	German architect
4	<input checked="" type="checkbox"/>	<a href="#">Rosa Barba</a>	German artist
5	<input checked="" type="checkbox"/>	<a href="#">Werner Schuch</a>	deutscher Architekt, Hochschullehrer und Maler
6	<input checked="" type="checkbox"/>	<a href="#">Axel Manthey</a>	deutscher Bühnenbildner, Kostümbildner und Regisseur
7	<input checked="" type="checkbox"/>	<a href="#">Fritz Erier</a>	German artist
8	<input checked="" type="checkbox"/>	<a href="#">György Galántai</a>	Hungarian artist
9	<input checked="" type="checkbox"/>	<a href="#">Paul Dougherty</a>	American artist
10	<input checked="" type="checkbox"/>	<a href="#">Georges Valmier</a>	French painter
11	<input checked="" type="checkbox"/>	<a href="#">Benjamin Calau</a>	German artist
12	<input checked="" type="checkbox"/>	<a href="#">Albert Kretschmer</a>	German painter and costumes researcher

- Autolist and autolist2
- Do queries (quite complicated) and do automatic edits
- User build and supported. Sometimes breaks




### 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.

- We have games to get claims
- ADDICTIVE!
- So many more tools
- <https://tools.wmflabs.org/wikidata-game/#>

```
https://www.wikidata.org/w/api.php?action=wbgetentities&ids=Q468214&format=json

{
  "entities": {
    "Q468214": {
      "pageid": 441599,
      "ns": 0,
      "title": "Q468214",
      "lastrevid": 209552041,
      "modified": "2015-04-08T14:06:37Z",
      "id": "Q468214",
      "type": "item",
      "aliases": { },
      "labels": { },
      "descriptions": { },
      "claims": {
        "P21": [
          {
            "id": "q46821409E33B03-B707-409B-B24B-F30AEA8BA6C7",
            "mainnak": {
              "snaktype": "value",
              "property": "P21",
              "datatype": "wikibase-item",
              "datavalue": {
                "value": {
                  "entity-type": "item",
                  "numeric-id": 6881097
                },
                "type": "wikibase-entityid"
              }
            },
            "type": "statement",
            "rank": "normal",
            "references": [
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                "hash": "39f3ce979f9d84a0ebf09abe1702bf22326695e9",
                "snaks": {
                  "P143": [
                    {
                      "snaktype": "value",
                      "property": "P143",
                      "datatype": "wikibase-item",
                      "datavalue": {
                        "value": {
                          "entity-type": "item",
                          "numeric-id": 169514
                        }
                      }
                    ]
                  }
                }
              }
            ]
          }
        ]
      }
    }
  }
}
```

- Everything was about getting data in and curating
- We can also get data out!
- Api screenshot. Scary shit
- <https://www.wikidata.org/w/api.php?action=wbgetentities&ids=Q468214&format=json>


Reasonator Random item [English](#)

## Ludolf Bakhuizen (Q468214)

Bakhuysen | Bakhuizen | Бахуейзен | Бахуейзен Л | Бахуейзен | Бахуейзен Людольф | Людольф Бахуейзен | Бахуейзен Людольф | Бахуейзен Л | Бахуейзен | Бахуейзен Людольф | Ludolf Backhuysen | Ludolph Backhuysen | Ludolf Backhuijzen | Ludolf Backhuizen | Ludolph Backhuysen | Ludolf Backhuysen | Ludolf Backhuysen | Ludolf Bakhuisen | Людольф Бахуейзен | Людольф Бахуейзен

**Dutch painter**

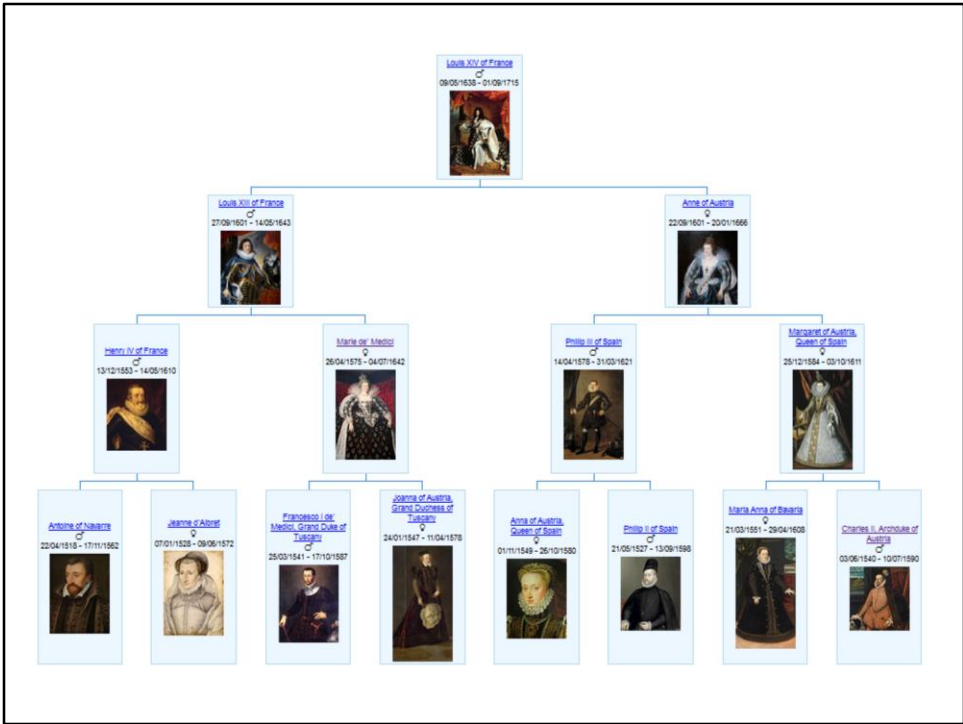
**Ludolf Bakhuizen was a Dutch painter.**  
 He was born on **December 28, 1630** in **Emden**.  
 His field of work included **marine art, landscape art, and landscape art**.  
 He died on **November 17, 1708** in **Amsterdam**.



### Other properties

<b>field of work</b>	landscape art genre in painting	<b>External sources</b>	
<b>described by source</b>	<p><b>The Great Theatre of Dutch Painters</b> Dictionary of artists from the Netherlands by Arnold Houbraken  <small>section, verse, or paragraph</small> : Ludolf Bakhuizen</p> <p><b>Lives of Flemish, German, and Dutch painters</b> Dictionary of artists from the Netherlands by Jean-Baptiste Descamps  <small>section, verse, or paragraph</small> : Louis Bakhuisen, Tome Second, pag. 444</p> <p><b>The Lives of Dutch painters and paintresses</b> 18th-century dictionary of painter biographies by Jacob Campo Weyerman  <small>section, verse, or paragraph</small> : Bakhuisen (Ludolf), V2, pag. 279</p> <p><b>The New Theatre of Dutch Painters</b> dictionary of artists from the Netherlands by Jan van Gool  <small>section, verse, or paragraph</small> : Ludolph Bakhuizen, V2, pag. 300</p>	<p>BNF <a href="#">1496676v</a></p> <p>BPN <a href="#">03267270</a></p> <p>Commons Creator <a href="#">Ludolf Bakhuizen</a></p> <p>Commons category <a href="#">Ludolf Bakhuizen</a></p> <p>GEC <a href="#">0006548</a></p> <p>GND <a href="#">119286564</a></p> <p>ISNI <a href="#">0000 0001 2024 4043</a></p> <p>Freebase <a href="#">/m/03lrv</a></p> <p>LCCN <a href="#">n85318254</a></p> <p>NTA PPN <a href="#">071378669</a></p> <p>RKDartists <a href="#">3414</a></p> <p><small>CRDAR</small> <a href="#">Ludolf Bakhuizen</a></p>	
<b>genre</b>	<p>marine art any form of figurative art that portrays or draws its main inspiration from the sea</p> <p>landscape art genre in painting</p>		

\* Reasonator



www.zone47.com/crotos/?p276=221092

Crotos  
LAD

Language English Images/page 20


Search

Results 1 - 20 of 465


Everything Location: Mauritshuis -40000 2014

Title [en] Image Creator Date of creation Collection Location Depicts


1 2 3 4 5 - 24 next




Portrait of a man of the family Laspheeta  
Hans Memling - Mauritshuis




Portrait of von Heinrich V von Mecklenburg  
Jacopo or Barben - Mauritshuis




Portrait of a young man  
Michael Sittow - Mauritshuis




Saint Catherine  
Master of Frankfurt - Mauritshuis




Saint Barbara  
Master of Frankfurt - Mauritshuis




Portrait of Floris van Edmond (1489-1539), Court of...  
Jan Gossaert - Mauritshuis




Portrait of a woman from southern Germany  
Hans Holbein - Mauritshuis




Madonna and Child Playing with the Veil  
Jan Gossaert - Mauritshuis



Robert Cheeseman  
Hans Holbein - Mauritshuis



Elsabeth Bellingrausen  
Barthel Bruyn the Elder - Mauritshuis



Portrait of a falconer  
Hans Holbein - Mauritshuis

- Crotos
- Paintings in the Mauritshuis
- <http://www.zone47.com/crotos/?p276=221092>



- Any questions?



# A general introduction to Wikidata, for GLAMs

Maarten Dammers  
[[User:Multichill]]

- A general introduction to Wikidata, for GLAMs