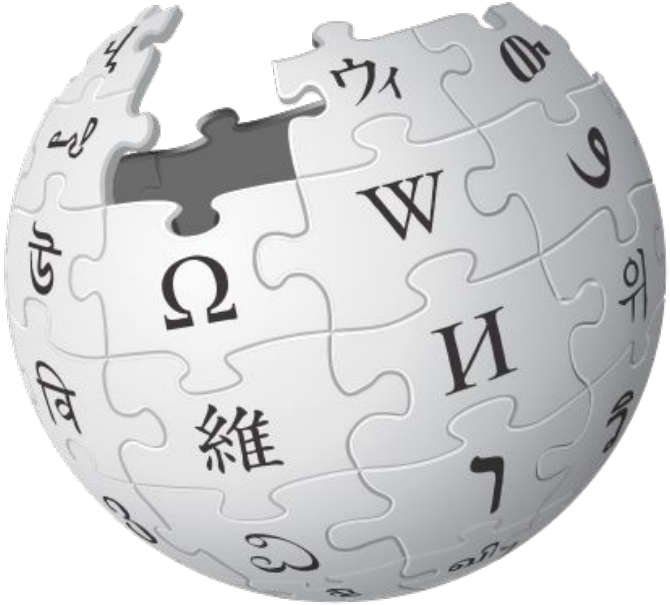
Structured Data on Wikimedia Commons

Structuring and linking the world's heritage (and more!)

Sandra Fauconnier – Wikimedia Foundation
BAAC Conference 2018, Tallinn
sfauconnier@wikimedia.org / @sanseveria



WIKIPEDIA

WIKIMEDIA
FOUNDATION

Not just Wikipedia

WIKIQUOTE

WIKIMEDIA COMMONS

WIKIDATA

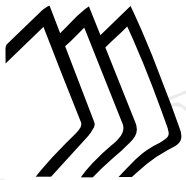
WIKIVERSITY

WIKISOURCE

WIKTIONARY

WIKIMEDIA LABS

WIKINEWS

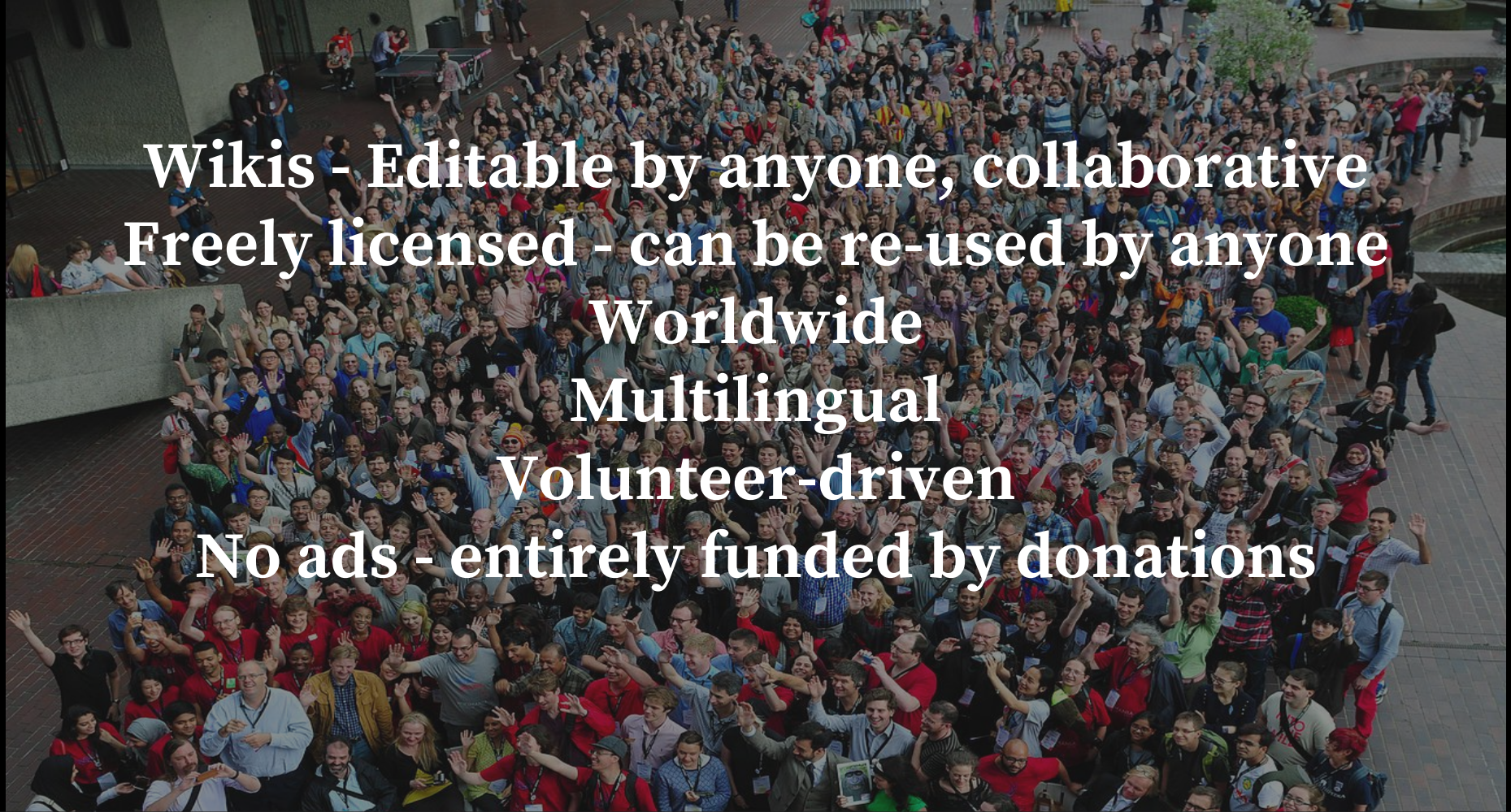


WIKIBOOKS

WIKISPECIES

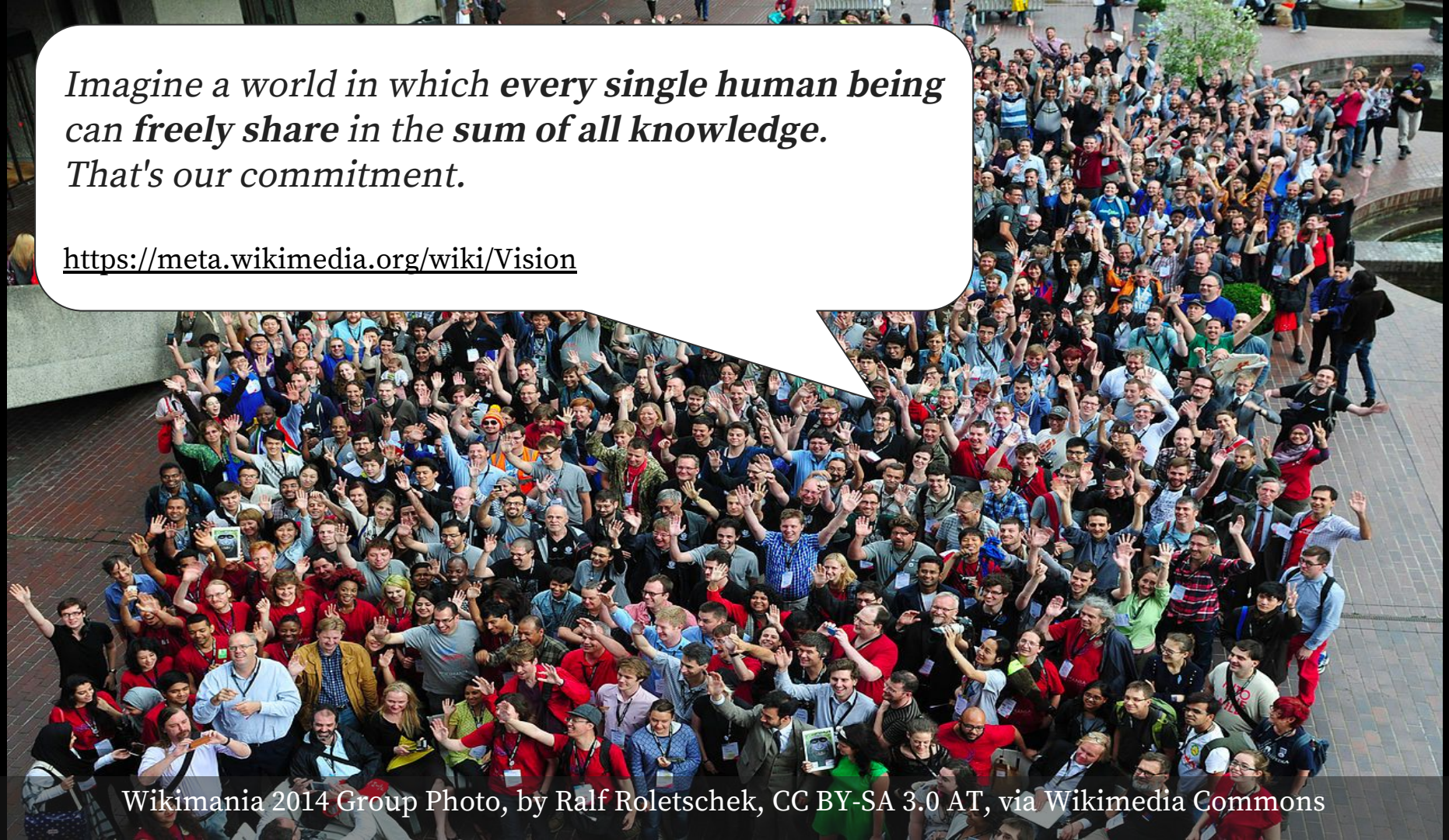
WIKIMEDIA INCUBATOR

WIKIVOYAGE

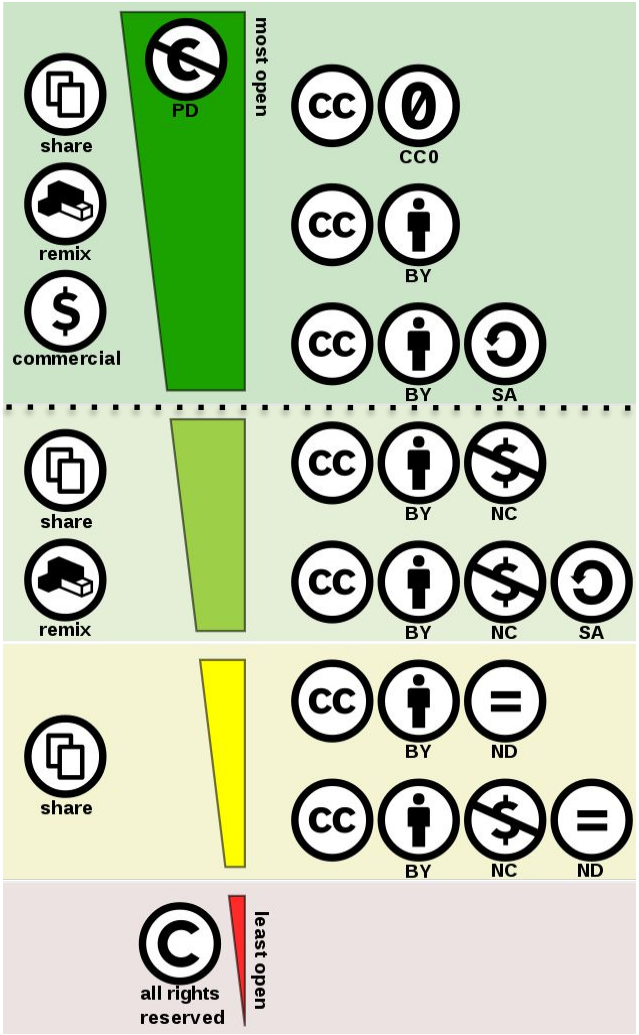


Wikis - Editable by anyone, collaborative
Freely licensed - can be re-used by anyone
Worldwide
Multilingual
Volunteer-driven
No ads - entirely funded by donations

Wikimania 2014 Group Photo, by Ralf Roletschek, CC BY-SA 3.0 AT, via Wikimedia Commons

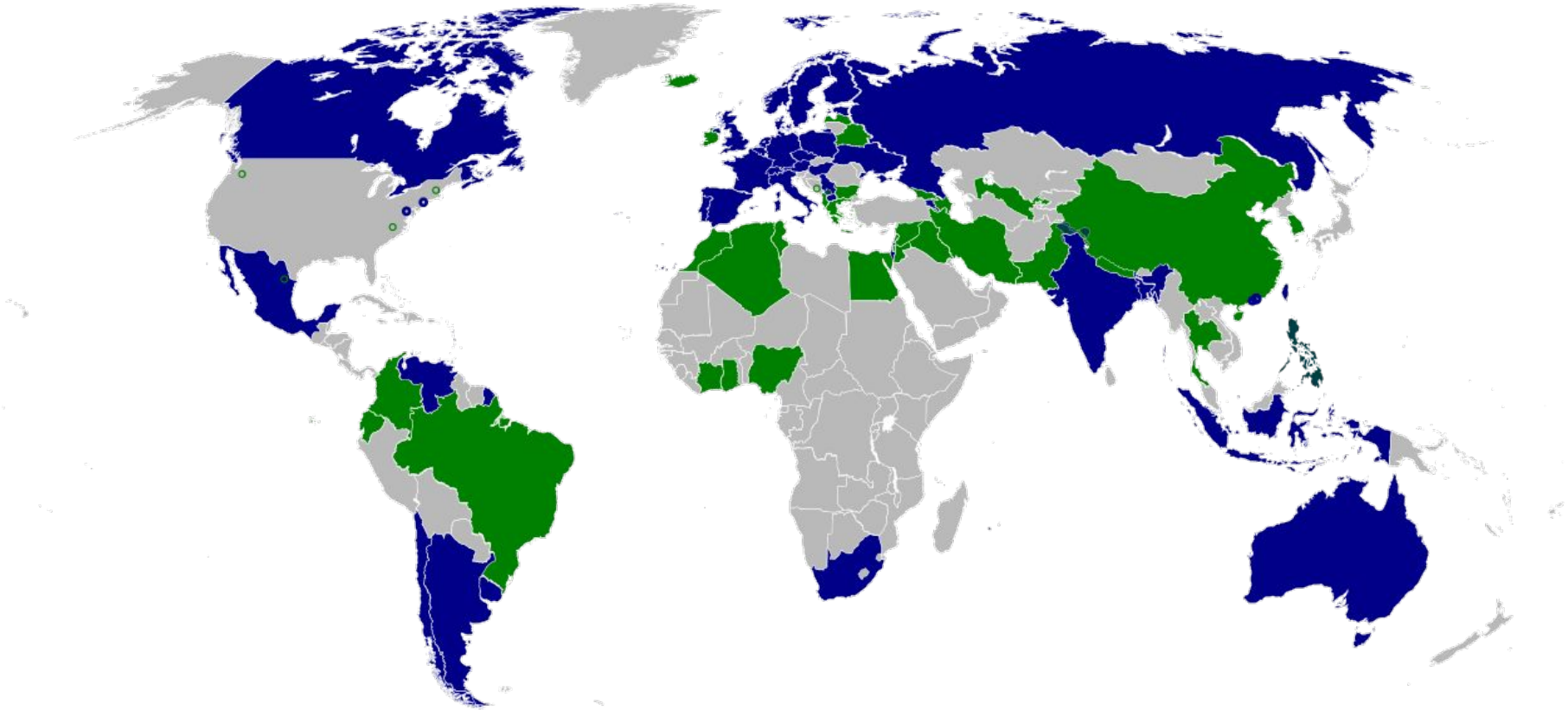


Wikimania 2014 Group Photo, by Ralf Roletschek, CC BY-SA 3.0 AT, via Wikimedia Commons



Free knowledge

Shaddim, CC BY 4.0



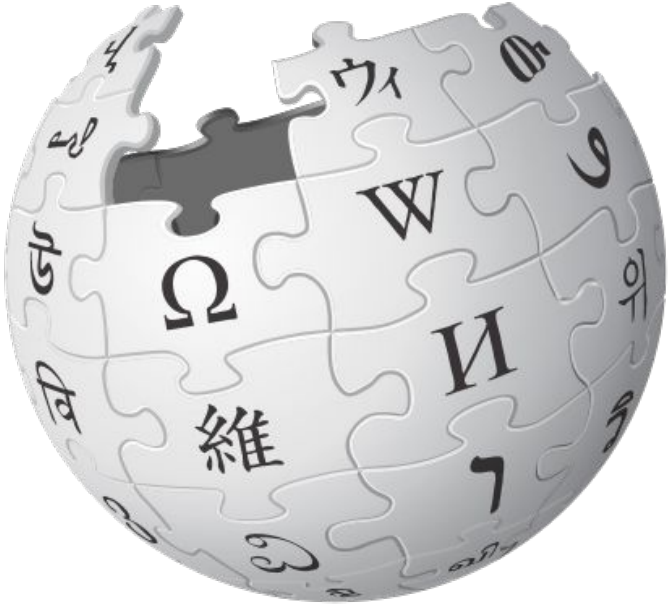
A worldwide movement

Independent Wikimedia affiliates (chapters and regional user groups), August 2015
Lodewijk Gelauff, CC0

GLAM WIKI

Hundreds of partnerships
around the world
since the mid-2000s

https://outreach.wikimedia.org/wiki/GLAM



WIKIPEDIA

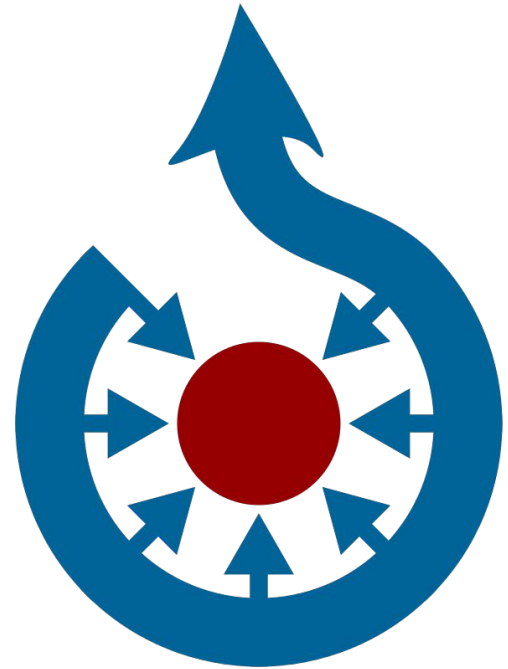
WIKIMEDIA
FOUNDATION

Editathon "Wikipedia ama el cine", 2015, Cineteca Nacional, Mexico. Luisalvas CC BY SA 4.0

Edit-a-thons

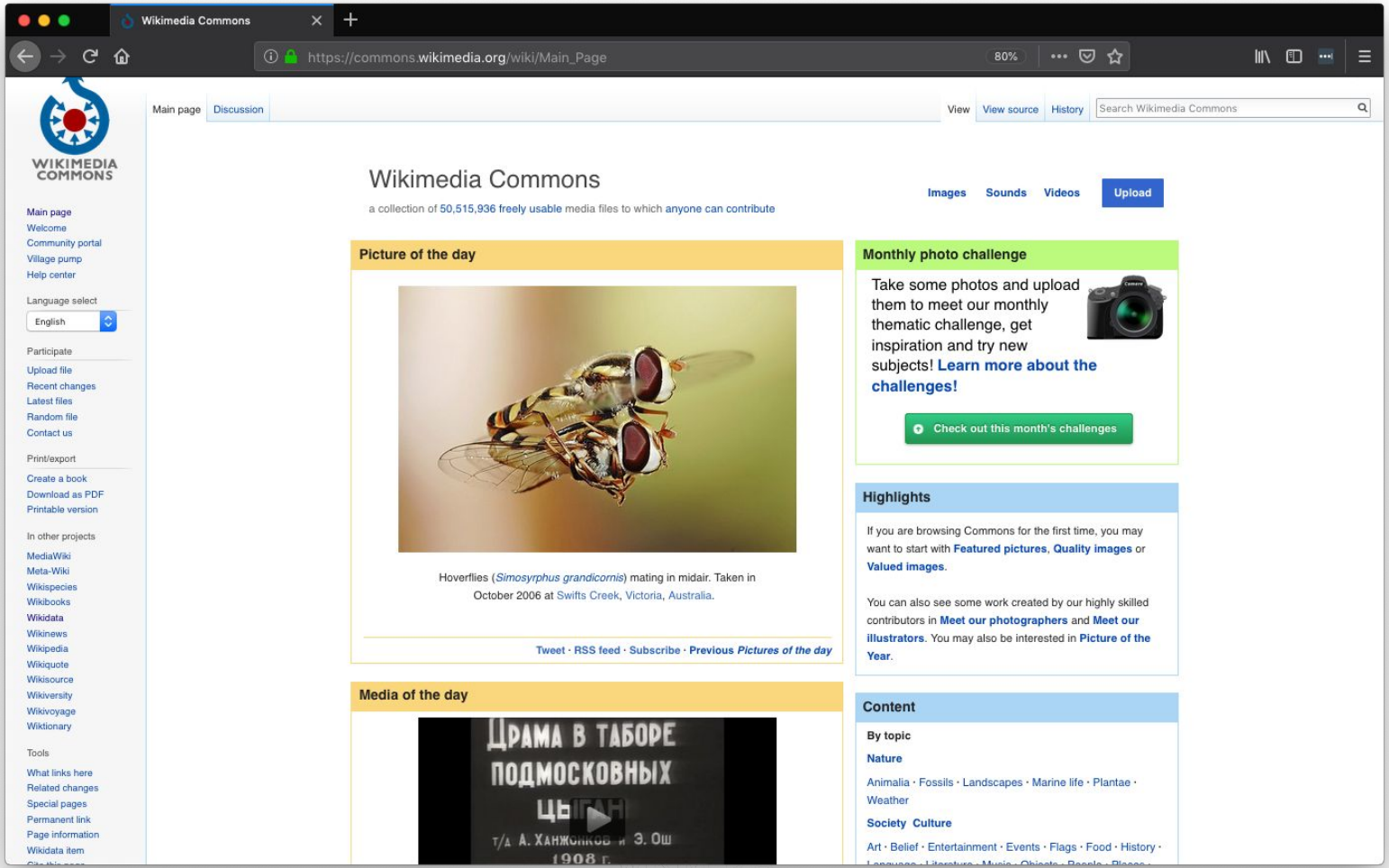
https://es.wikipedia.org/wiki/¡Ay,_qué_tiempos,_señor_Don_Simón!

https://en.wikipedia.org/wiki/Wangari_Maathai



WIKIMEDIA
COMMONS

WIKIMEDIA
FOUNDATION



https://commons.wikimedia.org

WIKI loves monuments

PKharote CC BY-SA 4.0

First steps

Wiki Loves Art at Van Gogh Museum, Amsterdam, 2009. Laurine - CC BY SA 2.0

Media uploads to Wikimedia Commons: videos illustrating Wikipedia articles

Historical newsreels from the Netherlands Institute for Sound and Vision

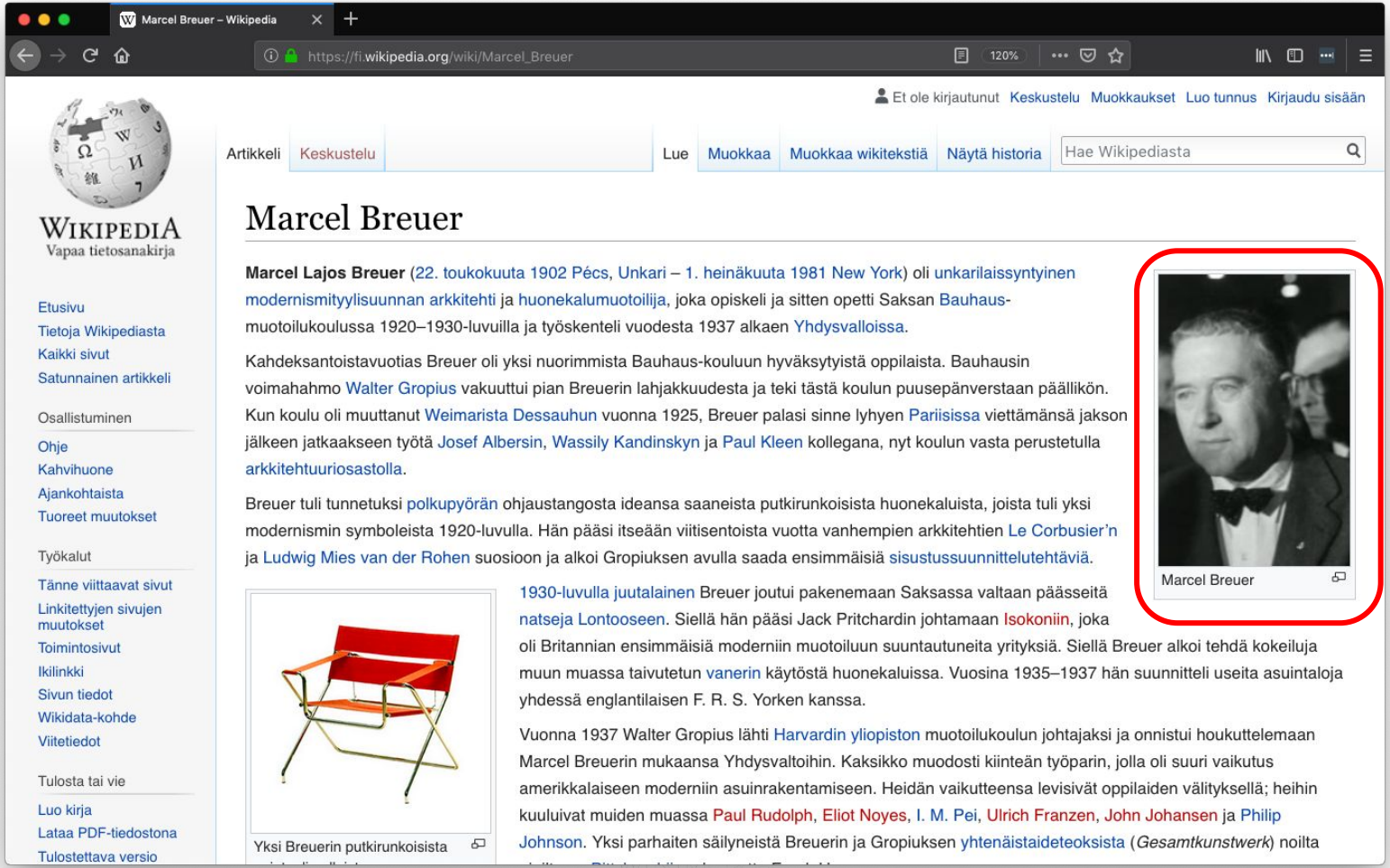
https://lv.wikipedia.org/wiki/1._sievie%C5%A1u_%C5%A1aha_olimpi%C4%81de
https://commons.wikimedia.org/wiki/Category:Media_from_Open_Beelden

The Netherlands Institute for Sound and Vision donates 392 videos to Commons

We expanded the collection videos on Wikimedia Commons with historical newsreel footage. Hereunder you can see some examples in this category all 392 videos can be found. This donation involves footage and newsreels from WWII and the Dutch state mines (coal mines) and footage of daily life. If you would like to help in matching videos to articles relevant to the subject, you can use this tool and it will take you directly to an overview of all videos that have not been used yet on the Dutch Wikipedia.

Six thousand homing pigeons released, 1923. | Mills in Holland, 1927. | Two steamships stranded, 1930. | Liberation of Amsterdam, 1945. | War casualties, 1945.

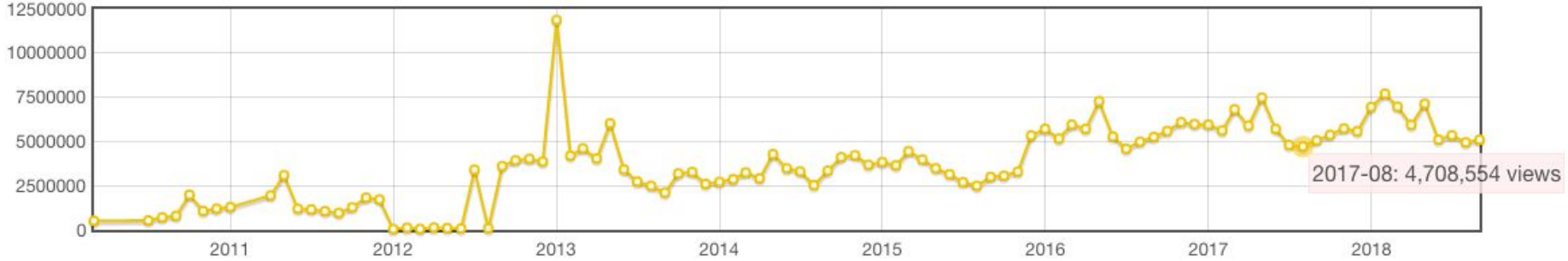
Holidays in Holland, 1947. | Philips exists 60 years, 1951. | Opening new cokesfactory of the Dutch state mines, 1954. | European Space Research and Technology Centre | Amsterdam 700 years, Sail Amsterdam, 1975.



https://fi.wikipedia.org/wiki/Marcel_Breuer

Category details for Media from Open Beelden

98 months have a data point, with 367,000,512 page views in total. Click on individual time points in the graph to see monthly data.

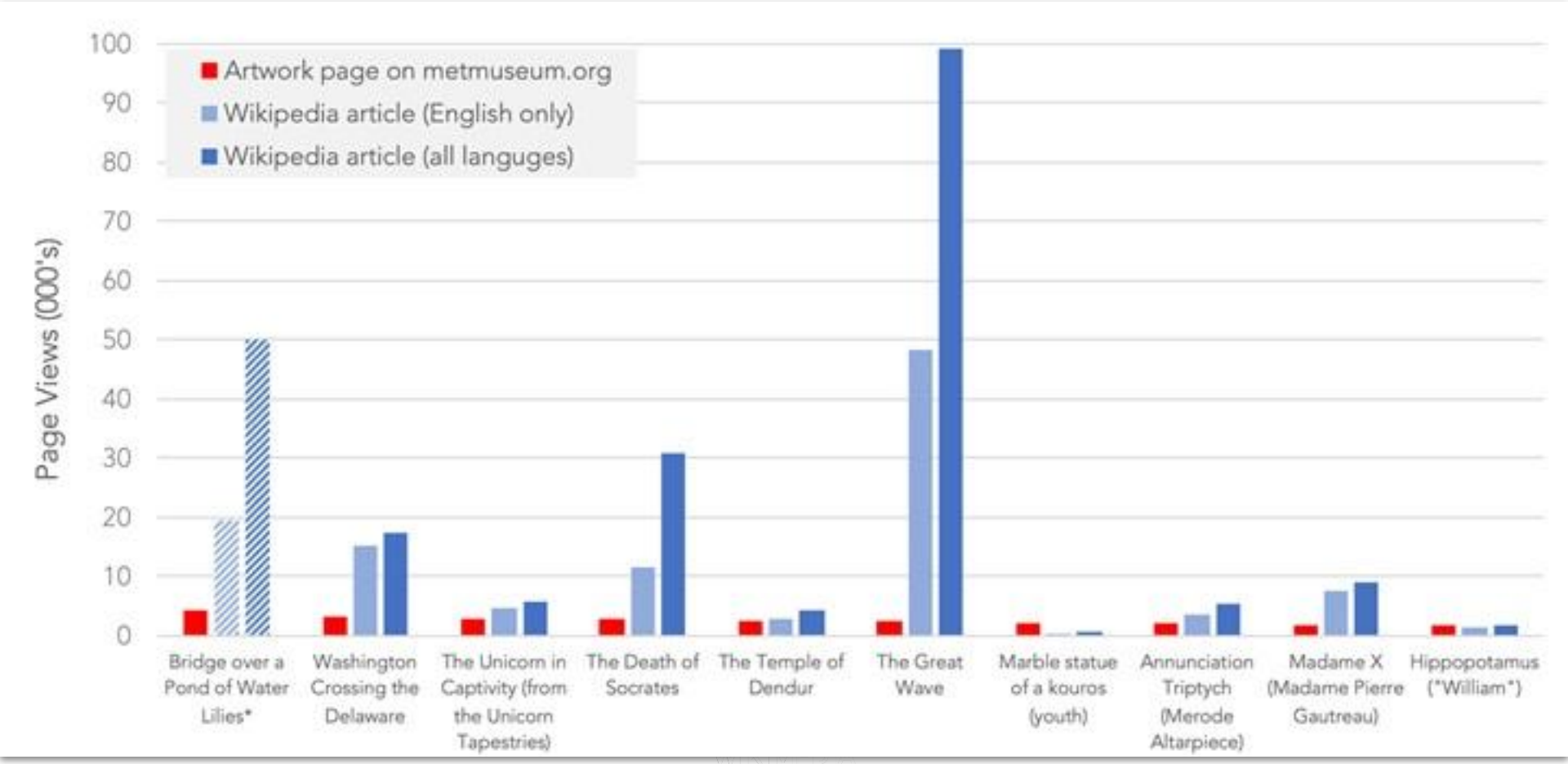


Page views in 2018-9

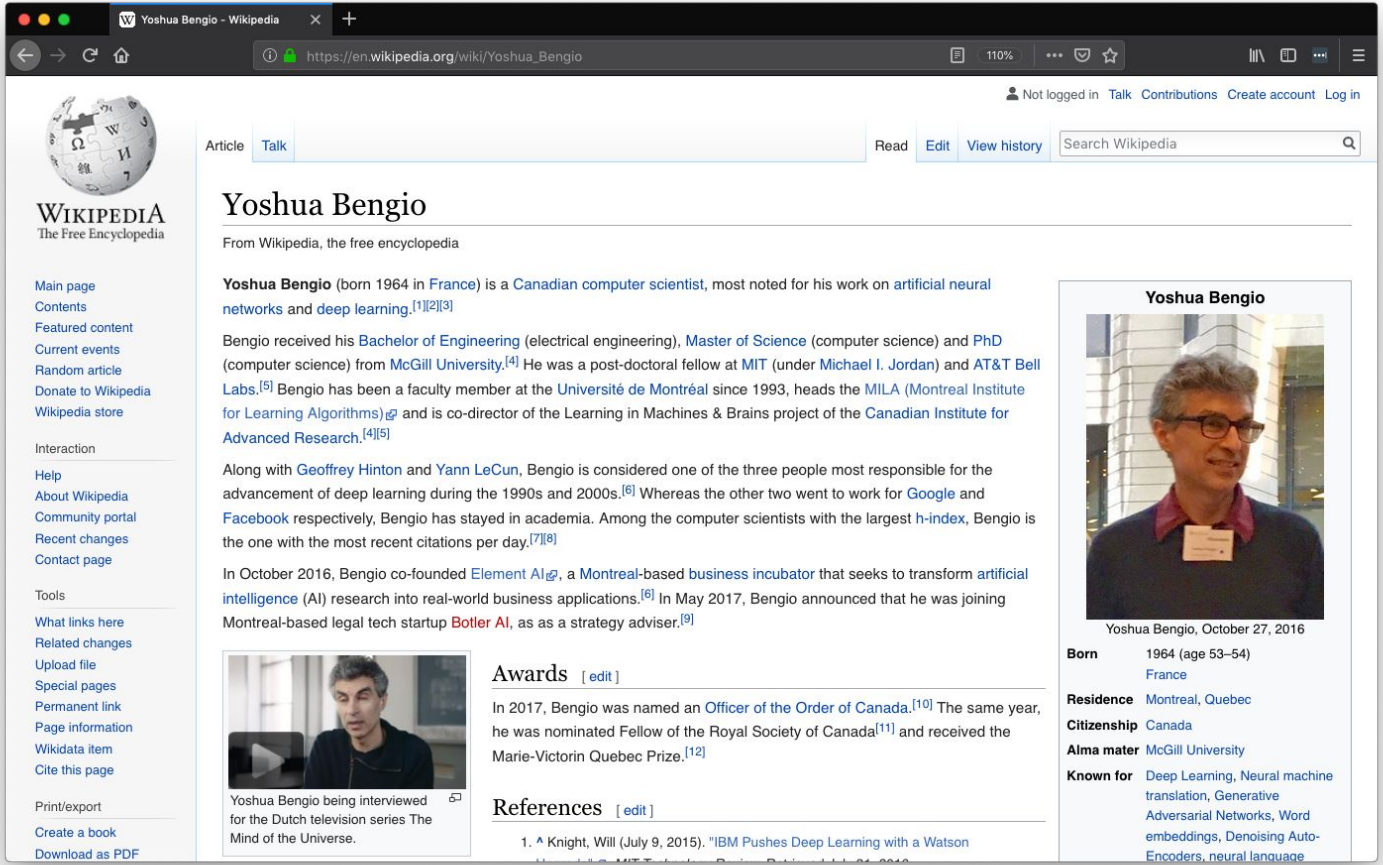
Total monthly page views: 5,095,815. Download this table.

Site		Pages	Views
Dutch Wikipedia	Details	1,961	2,105,063
English Wikipedia	Details	341	1,965,757
German Wikipedia	Details	165	307,959
Spanish Wikipedia	Details	56	211,157
French Wikipedia	Details	164	167,700
Indonesian Wikipedia	Details	29	56,147
Russian Wikipedia	Details	52	47,311
Italian Wikipedia	Details	84	35,976
Polish Wikipedia	Details	52	30,448
Portuguese Wikipedia	Details	30	26,451
Japanese Wikipedia	Details	32	25,964

http://tools.wmflabs.org/glamtools/baglama2/#gid=81&month=201809



Loic Tallon: "Creating Access beyond metmuseum.org: The Met Collection on Wikipedia"

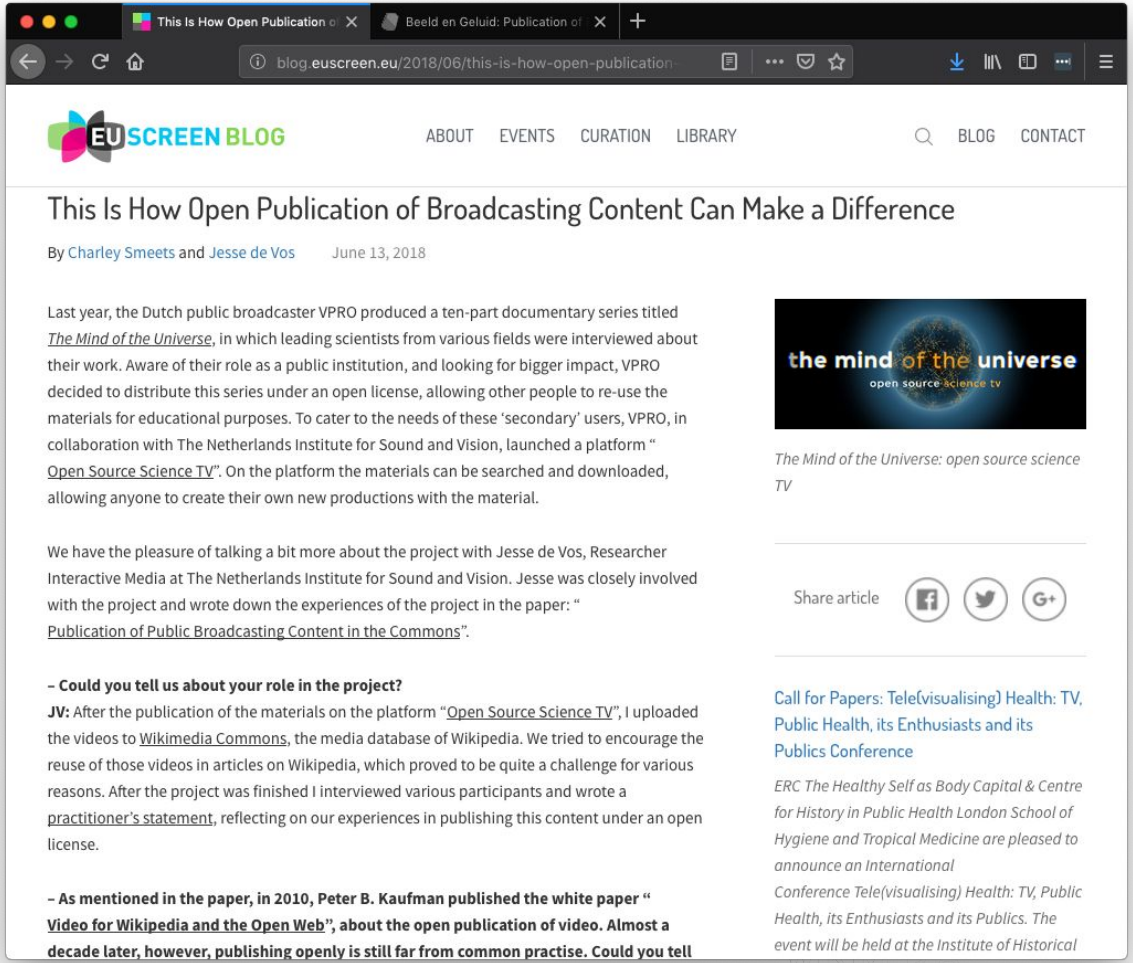


Mind of the Universe

open licensing by a public broadcaster

VPRO in partnership with the Netherlands Institute for Sound and Vision

https://en.wikipedia.org/wiki/Yoshua_Bengio



EUSCREEN BLOG

ABOUT EVENTS CURATION LIBRARY BLOG CONTACT

This Is How Open Publication of Broadcasting Content Can Make a Difference

By Charley Smeets and Jesse de Vos June 13, 2018

Last year, the Dutch public broadcaster VPRO produced a ten-part documentary series titled *The Mind of the Universe*, in which leading scientists from various fields were interviewed about their work. Aware of their role as a public institution, and looking for bigger impact, VPRO decided to distribute this series under an open license, allowing other people to re-use the materials for educational purposes. To cater to the needs of these 'secondary' users, VPRO, in collaboration with The Netherlands Institute for Sound and Vision, launched a platform " Open Source Science TV". On the platform the materials can be searched and downloaded, allowing anyone to create their own new productions with the material.

We have the pleasure of talking a bit more about the project with Jesse de Vos, Researcher Interactive Media at The Netherlands Institute for Sound and Vision. Jesse was closely involved with the project and wrote down the experiences of the project in the paper: " Publication of Public Broadcasting Content in the Commons".

– Could you tell us about your role in the project?

JV: After the publication of the materials on the platform "Open Source Science TV", I uploaded the videos to Wikimedia Commons, the media database of Wikipedia. We tried to encourage the reuse of those videos in articles on Wikipedia, which proved to be quite a challenge for various reasons. After the project was finished I interviewed various participants and wrote a practitioner's statement, reflecting on our experiences in publishing this content under an open license.

– As mentioned in the paper, in 2010, Peter B. Kaufman published the white paper " Video for Wikipedia and the Open Web", about the open publication of video. Almost a decade later, however, publishing openly is still far from common practise. Could you tell

The Mind of the Universe: open source science TV

Share article

Call for Papers: Tele(visualising) Health: TV, Public Health, its Enthusiasts and its Publics Conference

ERC The Healthy Self as Body Capital & Centre for History in Public Health London School of Hygiene and Tropical Medicine are pleased to announce an International Conference Tele(visualising) Health: TV, Public Health, its Enthusiasts and its Publics. The event will be held at the Institute of Historical

SOUND AND VISION

Publication of
Public Broadcasting Content
in the Commons

A Practitioners' Statement

April 2018

Authors

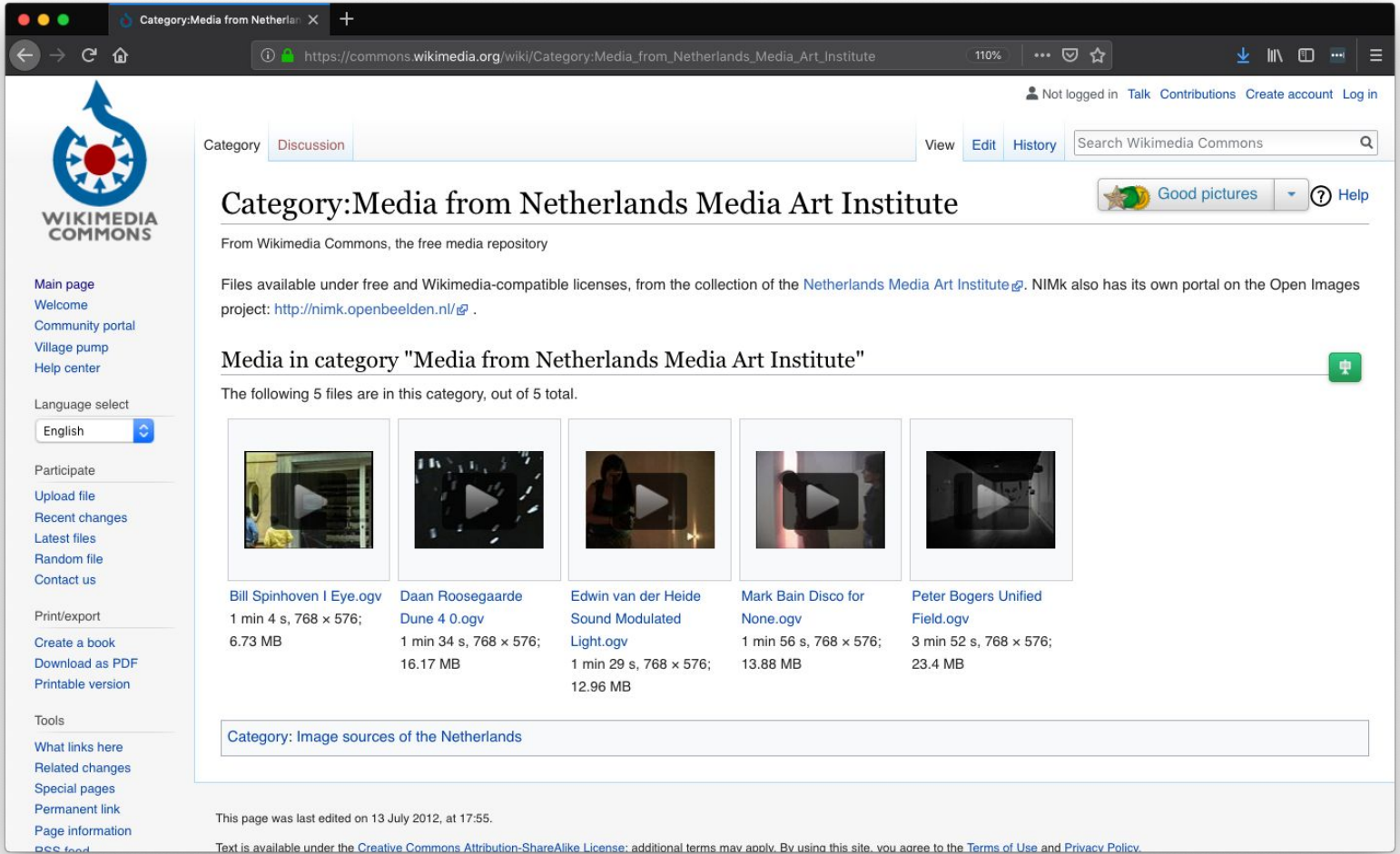
Maarten Brinkerink
Sound and Vision

Gertjan Kuiper
VPRO

Jesse de Vos
Sound and Vision

vpro

http://blog.euscreen.eu/2018/06/this-is-how-open-publication-of-broadcasting-content-can-make-a-difference/



Releasing your own productions under Creative Commons licenses

https://commons.wikimedia.org/wiki/Category:Media_from_Netherlands_Media_Art_Institute

Wikimedians in Residence in 2012. CC BY-SA 3.0 Unported, Rock Drum,

Most recent approaches and challenges

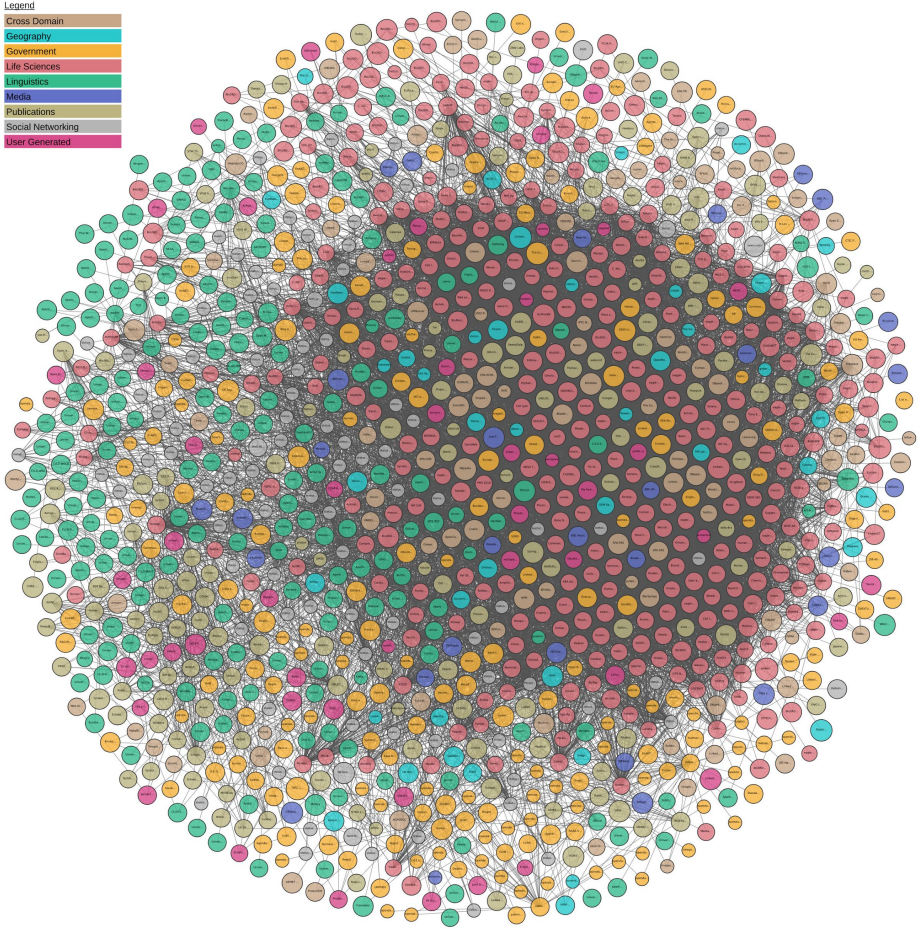
WIKIMEDIA
FOUNDATION

Bridging data across the web

Gustave Caillebotte: *Study for the Pont de l'Europe* (ca. 1876). Museum of Fine Arts of Rennes, Public Domain

GLAM collections are not islands

Isaac Sailmaker: The Island of Barbados (ca. 1694). Yale Center for British Art, Public Domain



Linking Open Data cloud diagram

https://www.lod-cloud.net

Linked Open Data in Wikimedia projects

Joseph Wright

Self-portrait ca. 1780, oil on canvas, in the Yale Center for British Art

Born	3 September 1734 Derby
Died	29 August 1797 (aged 62) Derby
Residence	Derby
Nationality	English
Other names	Wright of Derby
Occupation	Painter

English Wikipedia

Joseph Wright of Derby (1734–1797)

Alternative names	Joseph Wright	
Description	English painter and draughtsman	
Date of birth/death	3 September 1734	29 August 1797
Location of birth/death	Derby	Derby
Work location	Derby, London	
Authority control	· VIAF: 89048916 · ISNI: 0000 0001 0859 100X · ULAN: 500029777 · LCCN: n87933688 · NLA: 35621531 · WorldCat	

Wikimedia Commons

Joseph Wright

Gambar diri (1780) cat minyak pada kanvas, di Yale Center for British Art

Dikenal karena	pelukis

Joseph Wright

omakuva noin vuodelta 1780

Syntynyt	3. syyskuuta 1734 Derby
Kuollut	29 elokuuta 1797 Derby
Kansallisuus	Britannia
Ala	taidemaalari
Taidesuuntaus	romantiikka, uusklassismi

Joseph Wright of Derby

Autoportrait 1780

Naissance	3 septembre 1734 Derby
Décès	29 août 1797 (à 62 ans) Derby
Nationalité	Royaume-Uni
Activité	Peintre
Maître	Thomas Hudson
Mouvement	Romantique

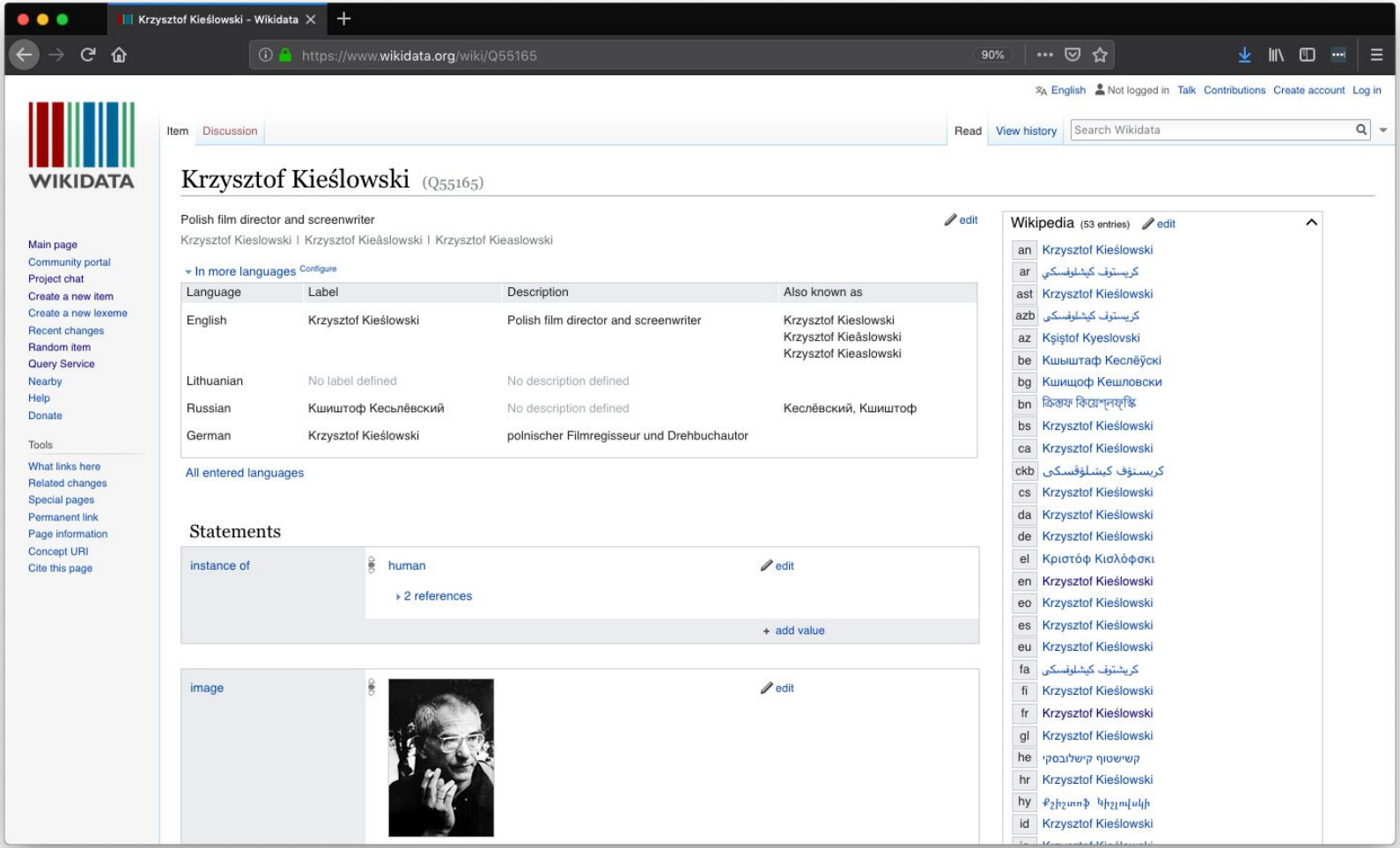
Œuvres réputées

Le Roi captif, *Le Tombeau de Virgile*, *The Earthstopper*

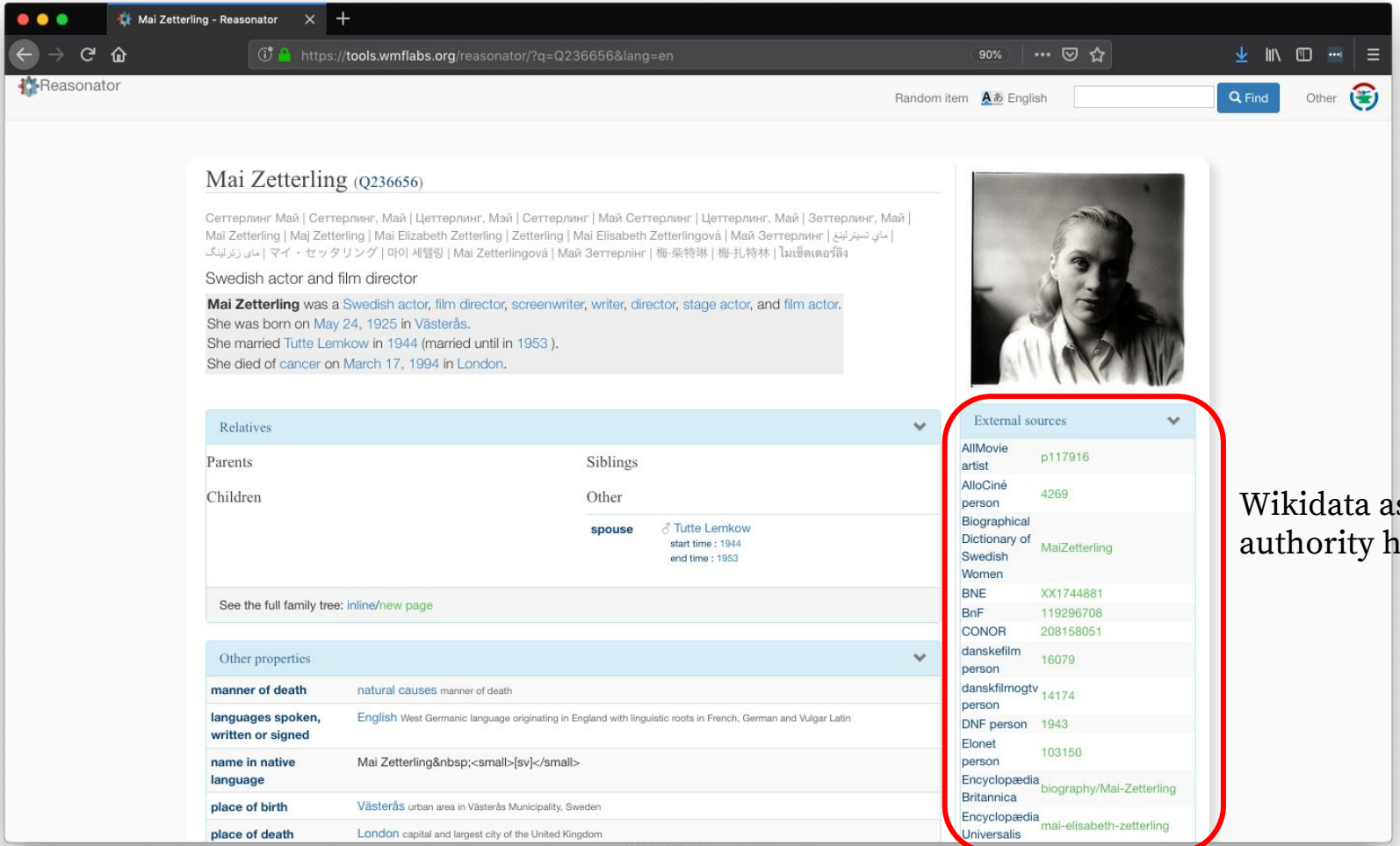
- Centralizes interwiki links
- Centralizes data in infoboxes
- Offers an interface for ‘rich queries’

- **Multilingual**
- **Referenced**
- **All data is CC0 – freely reusable by everyone**

Structures the ‘sum of all human knowledge’



https://www.wikidata.org/wiki/Q55165



Wikidata as authority hub

https://tools.wmflabs.org/reasonator/?q=Q236656&lang=en

VIAF
Virtual International Authority File

Search

Select Field: | Select Index: All VIAF | Search Terms: | Search

Hemmerechts, Kristien, 1955-....

Hemmerechts, Kristien B

Kristien Hemmerechts

VIAF ID: 97897569 (Personal)
Permalink: http://viaf.org/viaf/97897569

Preferred Forms

200 _ | ‡a Hemmerechts ‡b Kristien ‡f 1955-....

B 100 1 _ ‡a Hemmerechts, Kristien

100 1 _ ‡a Hemmerechts, Kristien ‡d (1955-).

100 1 _ ‡a Hemmerechts, Kristien ‡d 1955-

100 1 _ ‡a Hemmerechts, Kristien ‡d 1955-

100 1 _ ‡a Hemmerechts, Kristien, ‡d 1955-

100 1 _ ‡a Hemmerechts, Kristien, ‡d 1955-

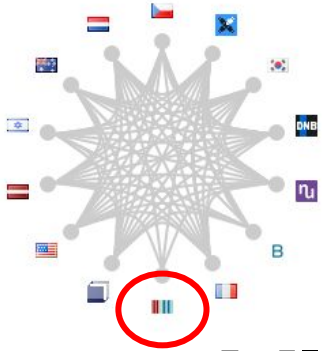
100 1 _ ‡a Hemmerechts, Kristien, ‡d 1955-

100 1 _ ‡a Hemmerechts, Kristien, ‡d 1955-

100 1 _ ‡a Hemmerechts, Kristien, ‡d 1955-

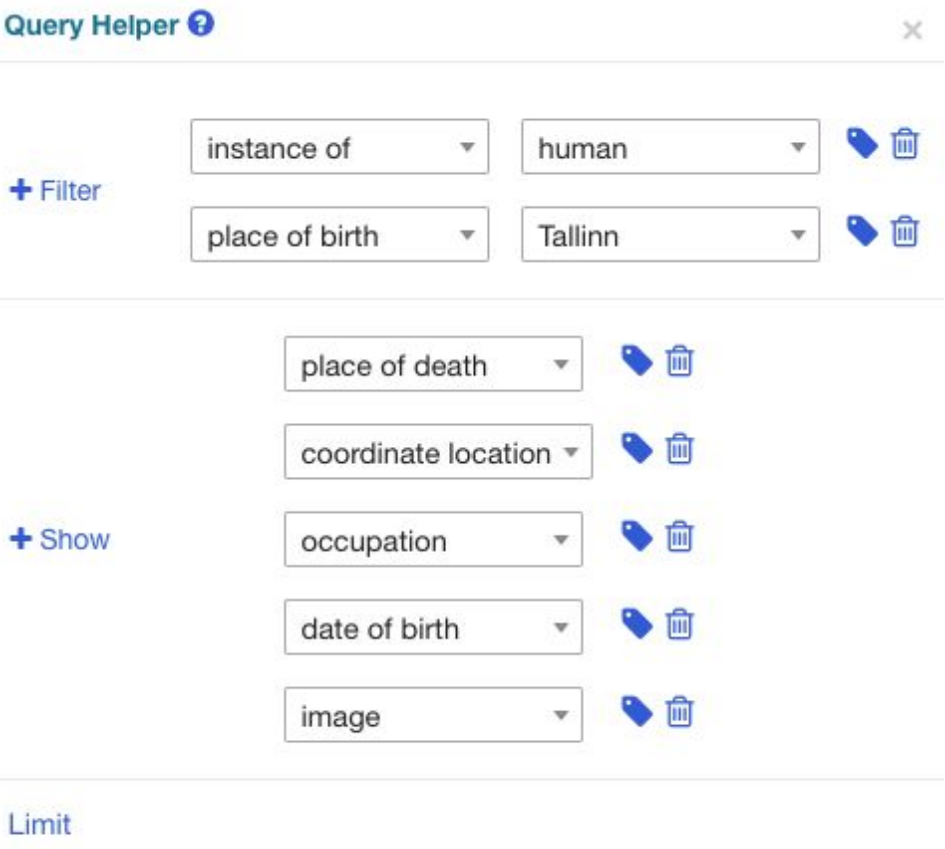
100 1 _ ‡a Hemmerechts, Kristien, ‡d 1955-

100 1 _ ‡a Hemmerechts, Kristien, ‡d 1955-

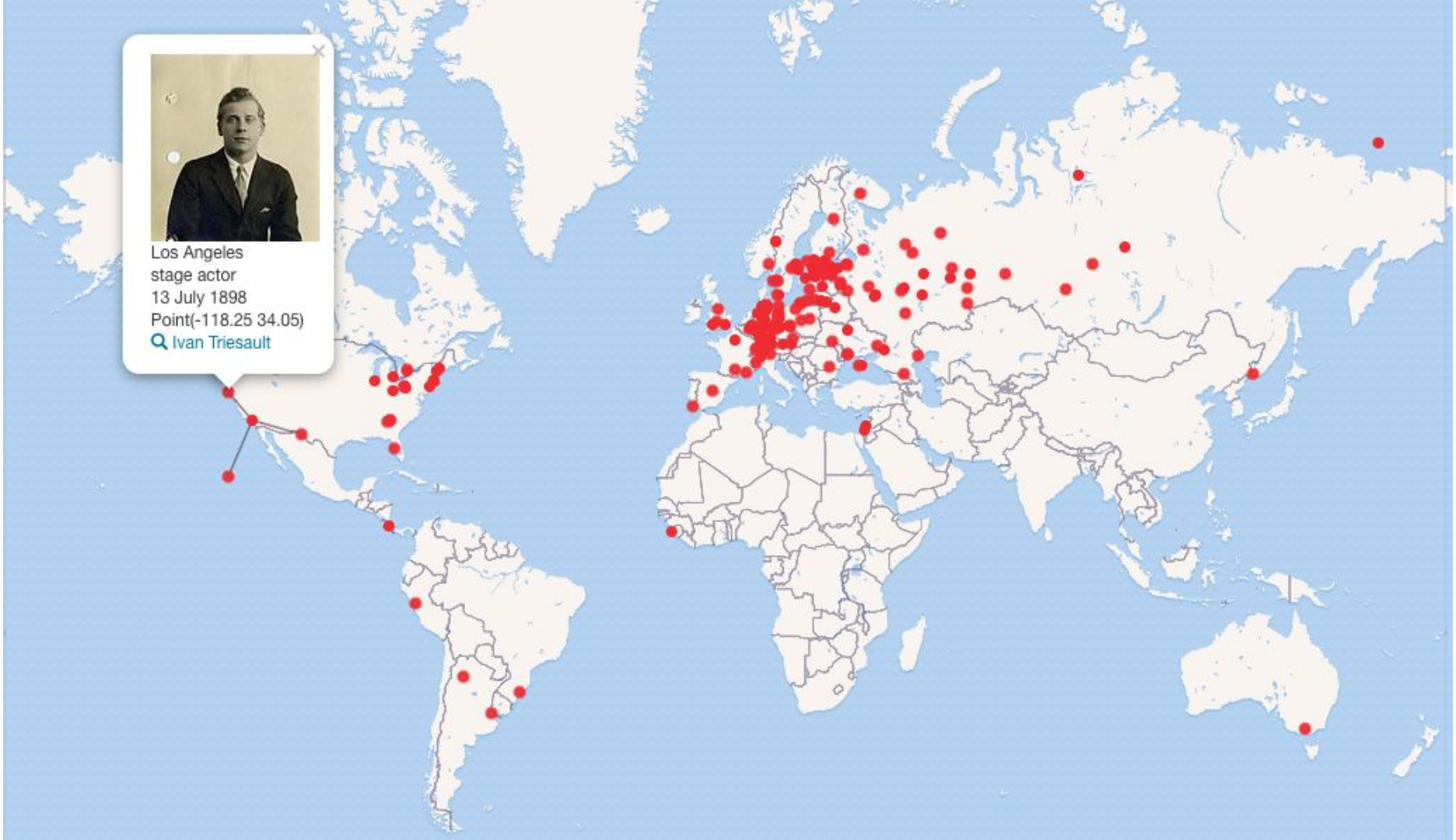


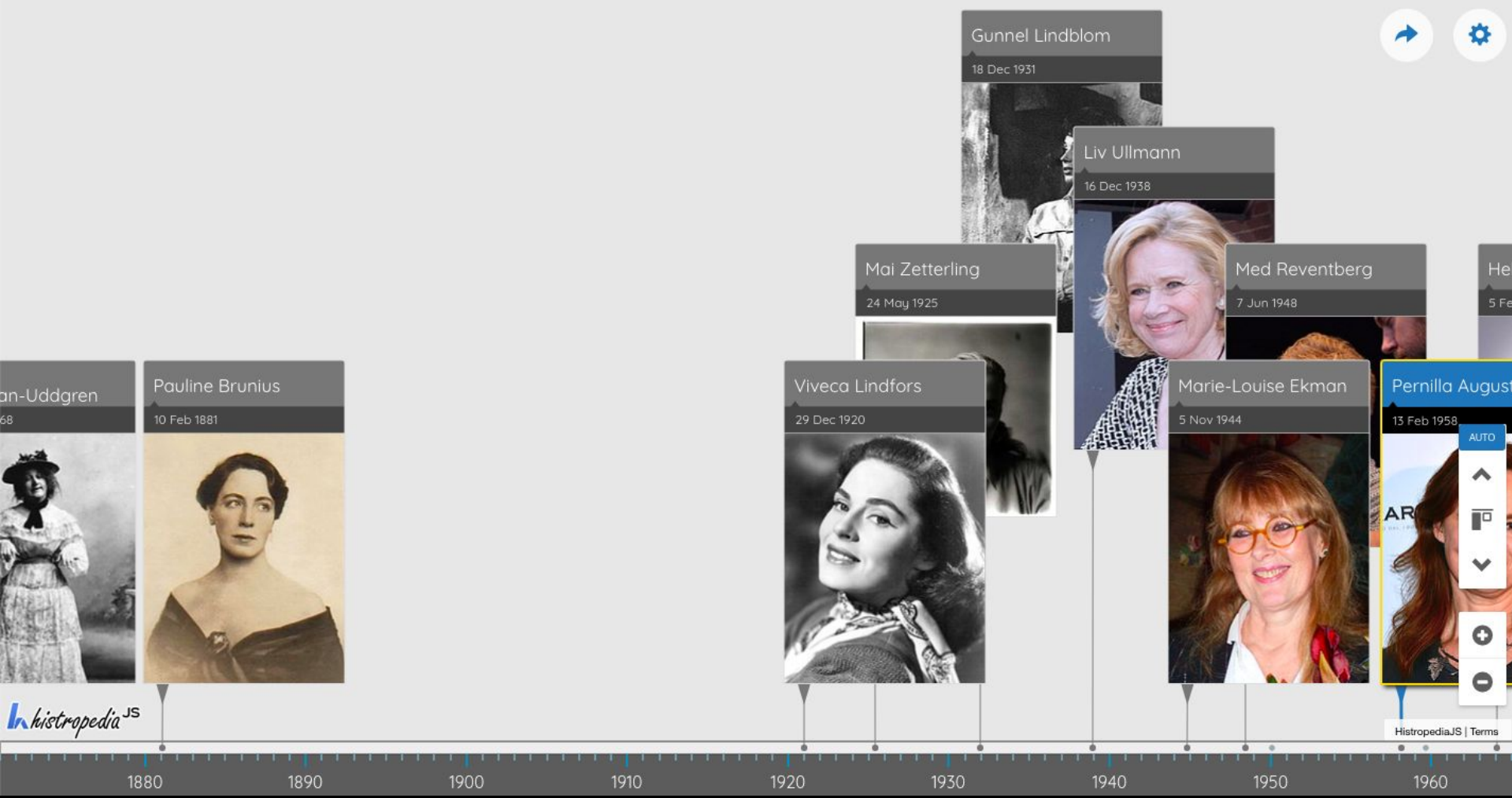
VIAF

https://query.wikidata.org



http://tinyurl.com/y8gssvpj

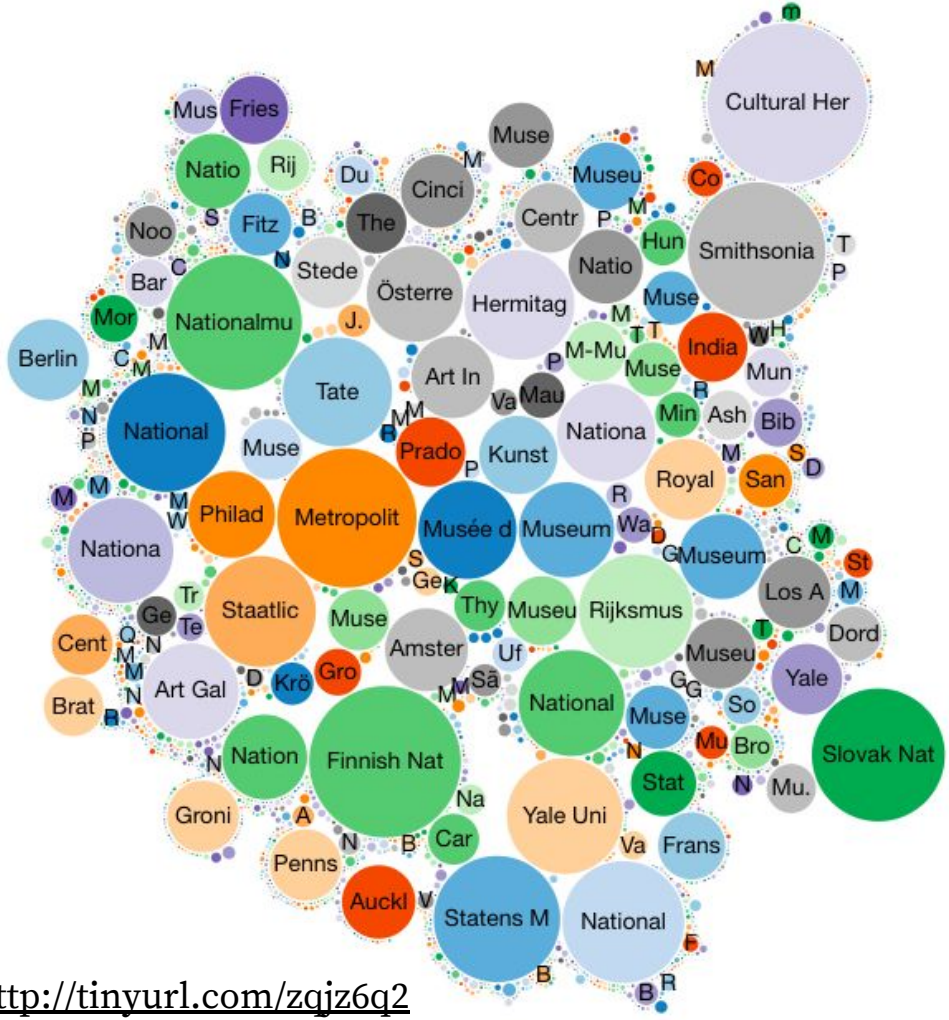

Los Angeles
stage actor
13 July 1898
Point(-118.25 34.05)
Ivan Triesault



Histropedia timeline - Swedish women who are actresses AND film directors

How do GLAMs(*) benefit from Wikidata?

(*) and major web platforms!

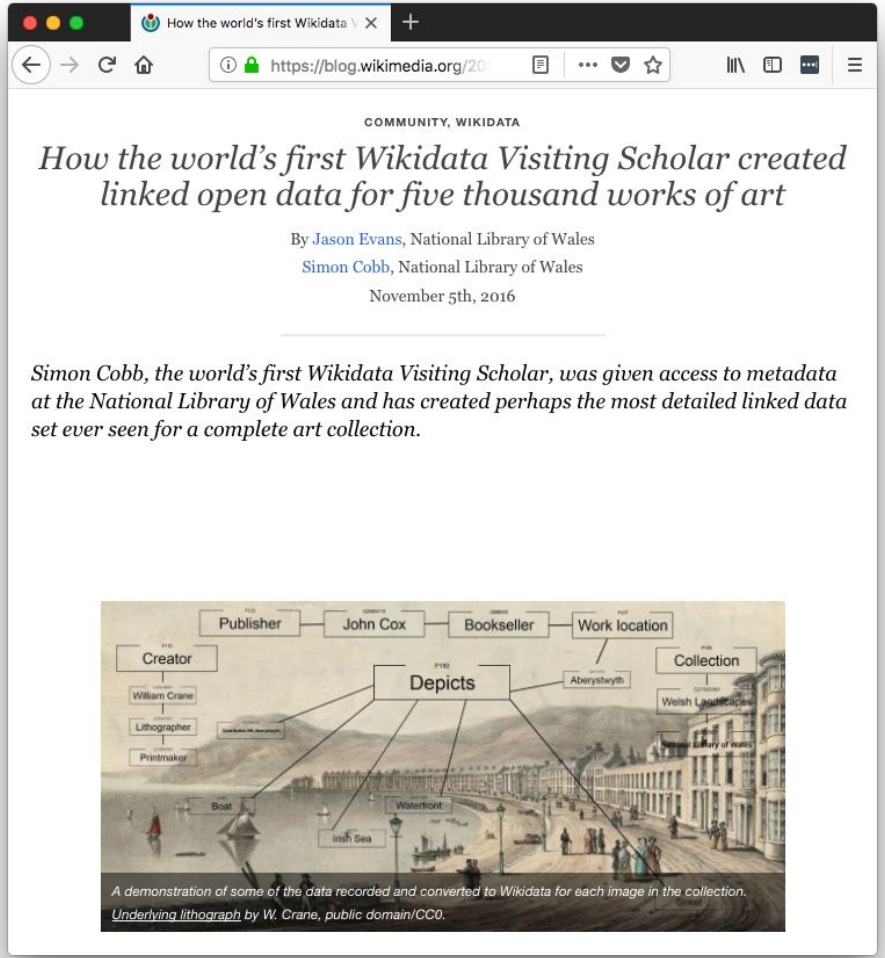


http://tinyurl.com/zqjz6q2

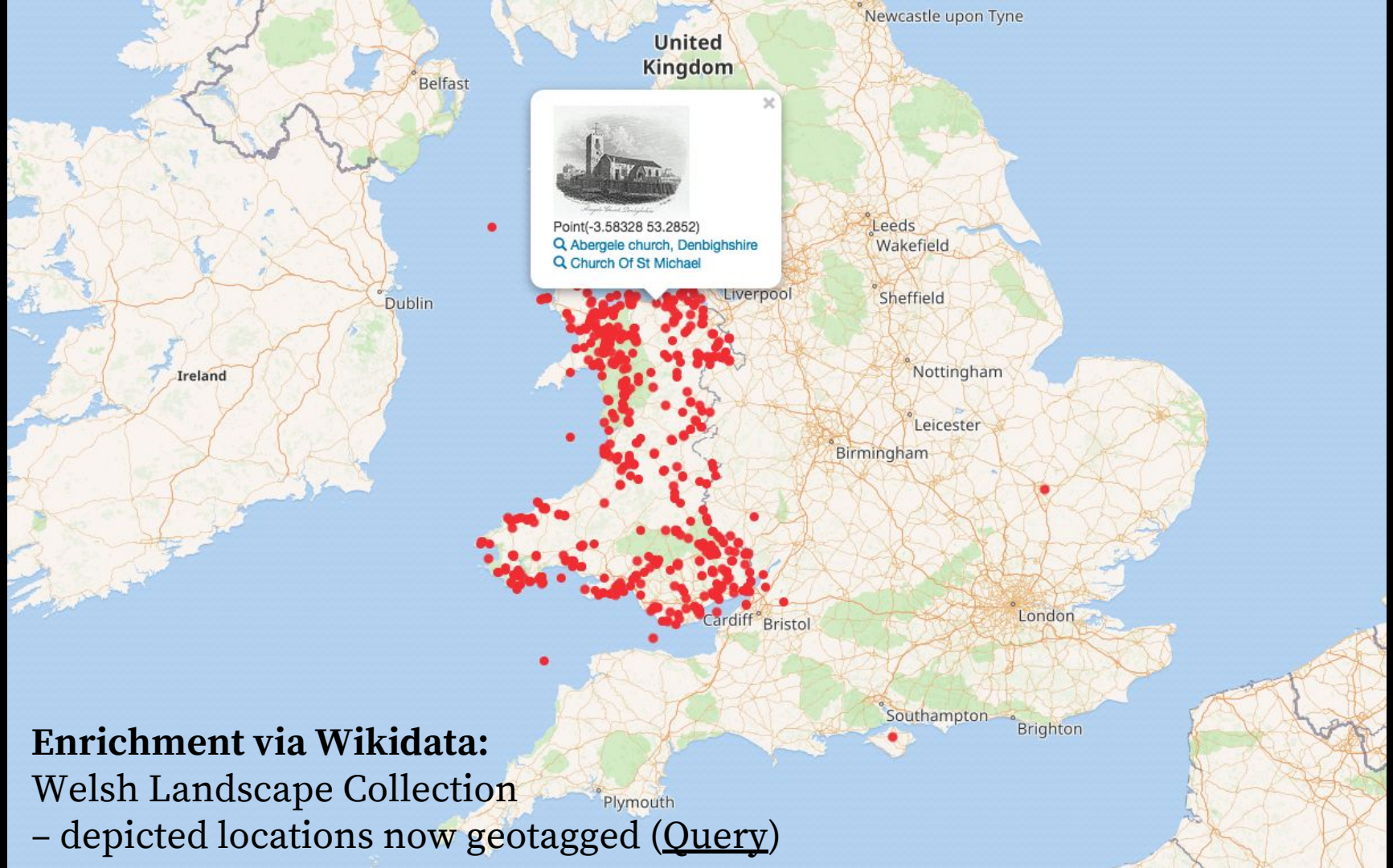
1 - have data **on** wikidata
2 - link **to** Wikidata
3 - use data **from** Wikidata
4 - work together **through** Wikidata

1 - Data publication **on** Wikidata places collections in their worldwide context

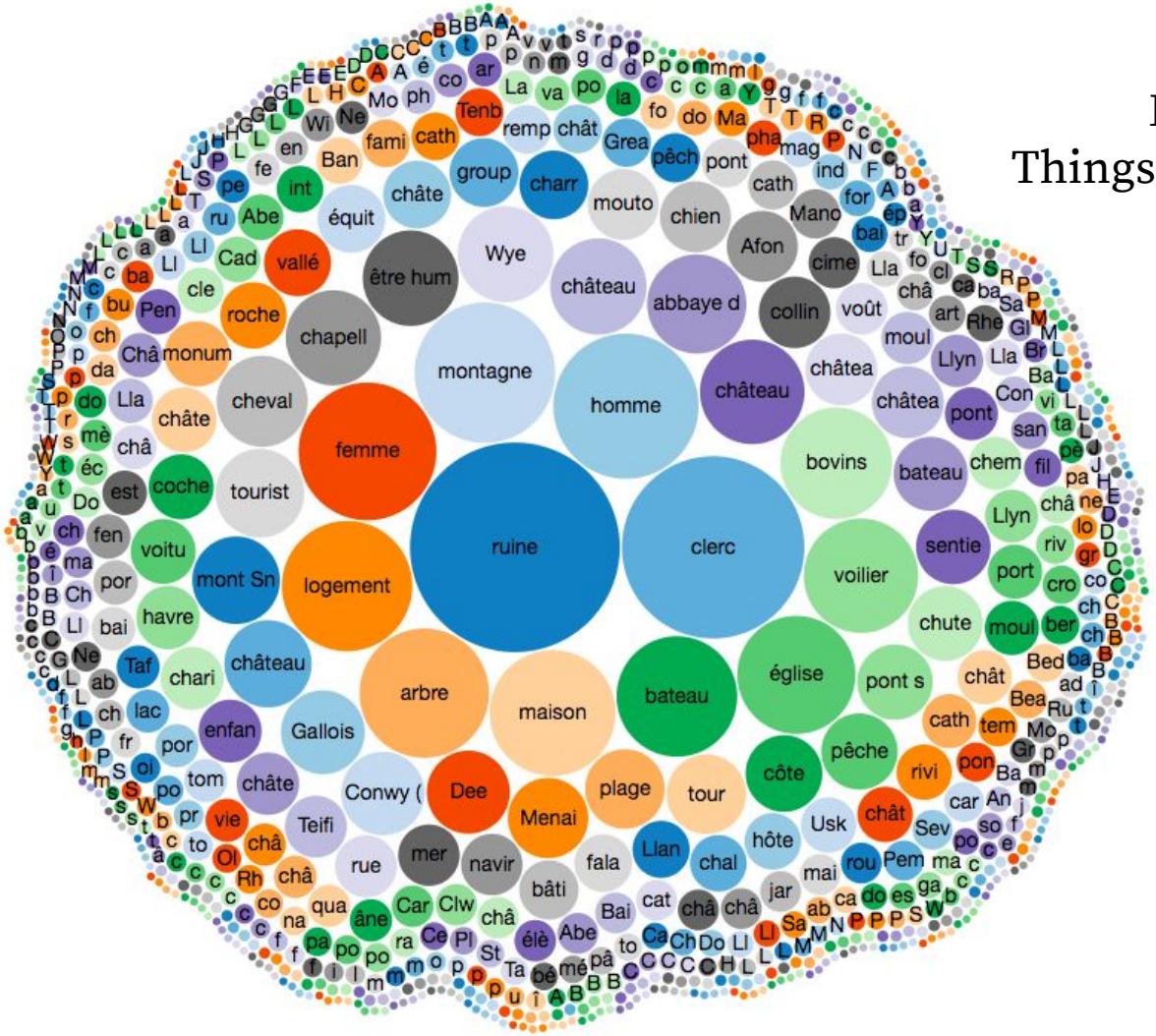
National Library of Wales
uploaded data about its
Welsh Landscape Collection
on Wikidata
and enriched it there



https://blog.wikimedia.org/2016/11/05/wikidata-visiting-scholar-art-dataset/



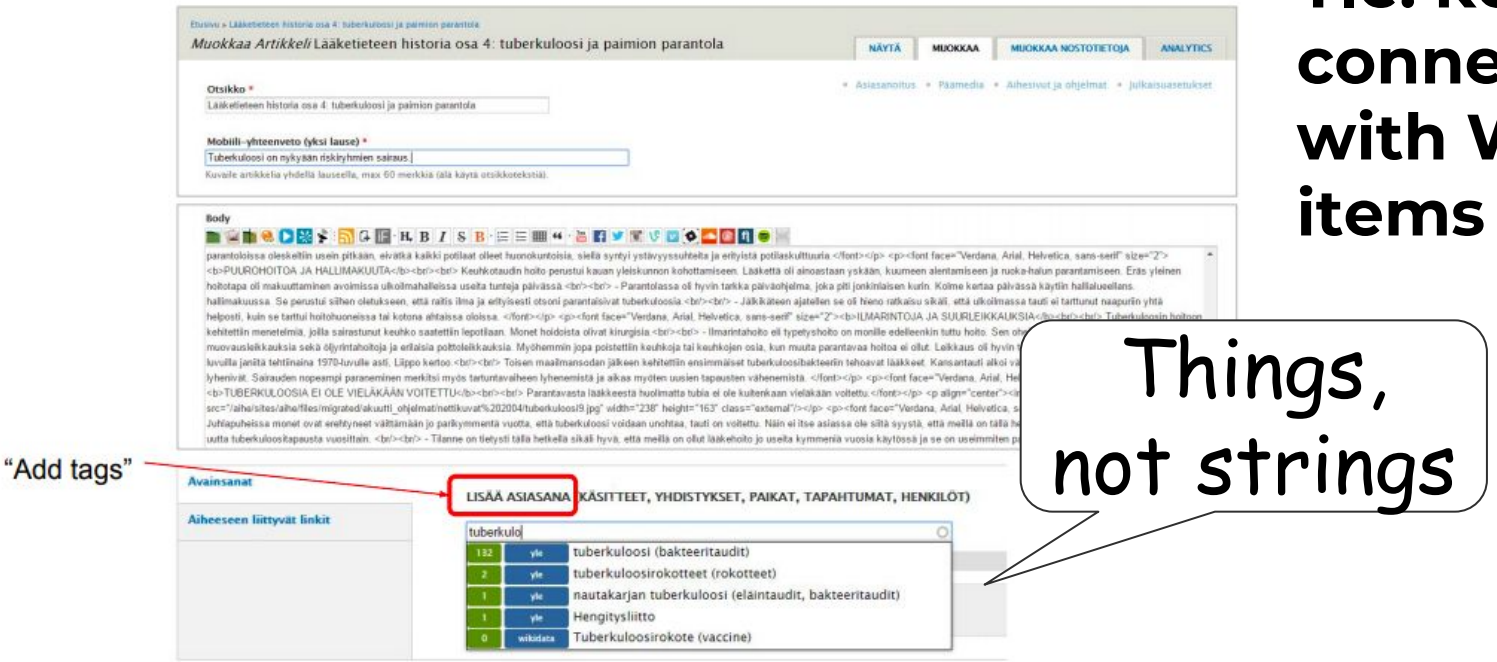
Enrichment via Wikidata:
Welsh Landscape Collection
– depicted locations now geotagged (Query)



Multilinguality via Wikidata:
Things depicted in the collections of National Library of Wales, shown in French (Query)

2 - Linking **to** Wikidata in collection databases makes metadata linked (and more robust)

Yle: keywords connected with Wikidata items



- Helps to link the different 'data silos' of YLE
- Allows tagging with niche topics that are not in other vocabularies

http://wikimedia.fi/2016/04/15/yle-3-wikidata/ & presentation by Pia Virtanen at EBU MDN workshop 2016

Feed
Collaboration
Autonomous Driving
Understanding and Comprehension
Bookmarks
Transportation
Sustainable Technology
Creative Commons
Copyright Law
The Future
Fine Art
Self-Improvement
Haskell (programming language)
Go (programming language)

Bauhaus

Follow · 684 Bookmark

Read Answer

Manage

Organize Ontology >

Topic Aliases

Topic aliases are used to capture common misspellings, alternative names and common abbreviations for the relevant topic.

Add Alias

Merge Topics

If two topics should actually be the same, you can merge them here. All questions and editors grouped under this topic will be transferred to the other topic.

Pick Topic

Wikidata

Bauhaus

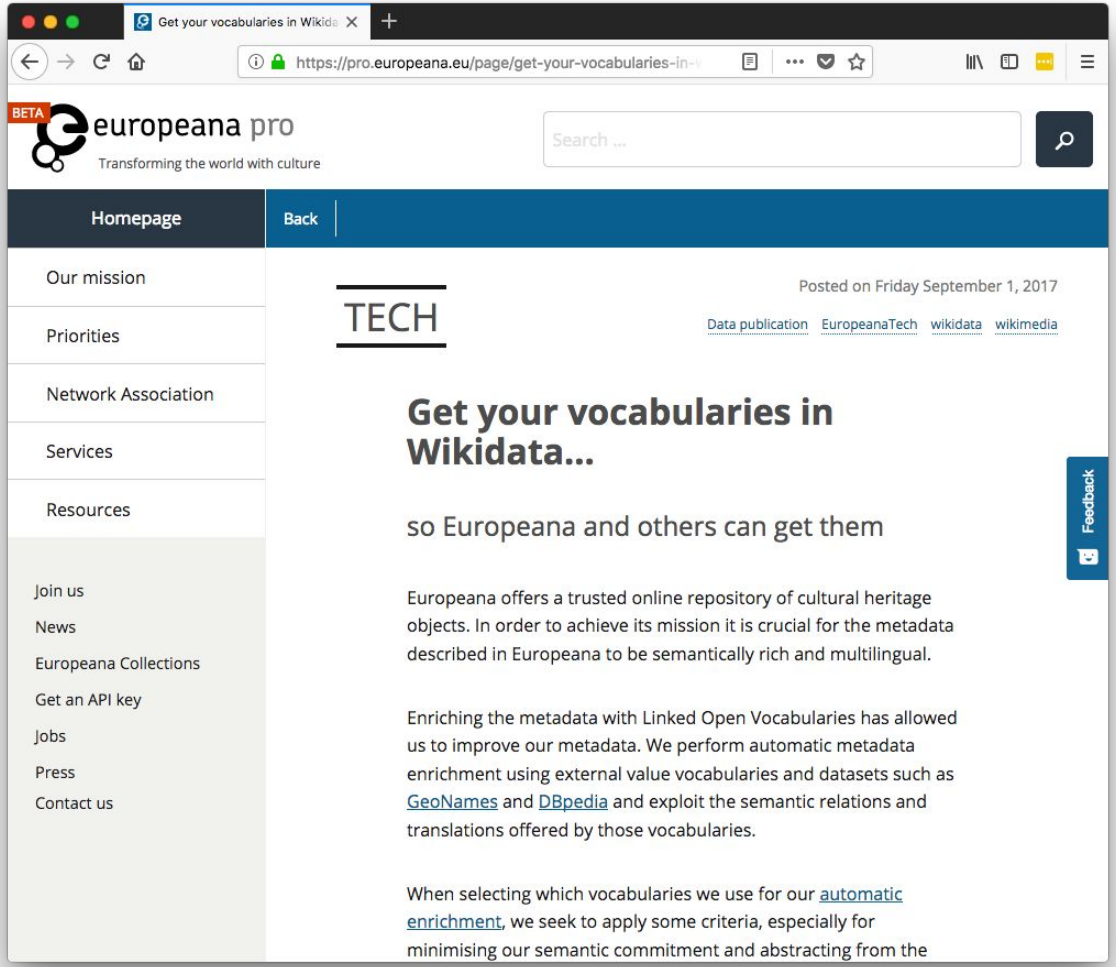
Parent Topics

German Architecture
German Art

Child Topics

Marcel Breuer
Ludwig Mies Van Der Rohe
László Moholy-Nagy

Quora



https://pro.europeana.eu/page/get-your-vocabularies-in-wikidata

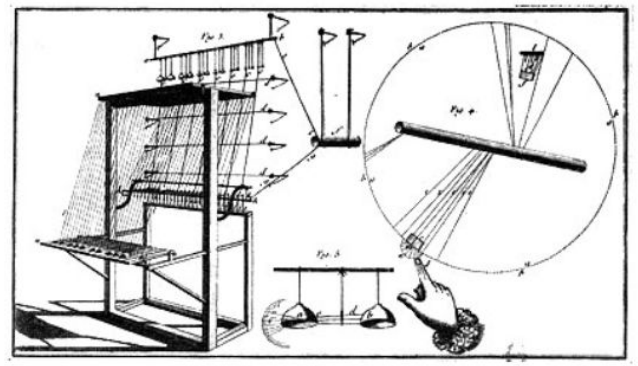
412.132
commons:John Chur…
2233
reed organ

412.132
commons:Organeum Harmonium.jpg
2235
harmonium

314.122-6-8
commons:Clavecin flamand.…
2239
harpsichord

commons:ClavicytheriumDe…
2244
Clavicytherium

commons:015 Museu de la Música, claviorgue Hauslaib.jpg
2246
claviorgan



52
commons:Clavecin électrique.jpg
2250
Clavecin électrique

314.122-6-8
commons:Clavecin flamand.png
2251
harpsichord

commons:Muselaar.jpg
2254
Q2365138

Musical instruments on Wikidata linked to the MIMO vocabulary

http://tinyurl.com/yao9xmwq

3 - Data pulled **from** Wikidata can be used to enrich one's own collection website

The spirit of radio [sound recording] : greatest hits, 1974-1987 / Rush

Rush. (Performer). Lee, Geddy (Instrumentalist). Lifeson, Alex (Instrumentalist). Peart, Neil (Instrumentalist).

Rush

Canadian rock band
Web site: http://www.rush.com/
Discography (Musicbrainz)
Tour dates (Songkick)
Twitter: rushtheband
Facebook: rushtheband
Edit on Wikidata: Q203871

Rush was a Canadian rock band comprising Geddy Lee (bass, vocals, keyboards), Alex Lifeson (guitars), and Neil Peart (drums, percussion, lyrics). Formed in 1968, the band went through several configurations until arriving at its longest and most popular line-up when Peart replaced original drummer John Rutsey in July 1974, two weeks before the group's first United States tour. W

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Issue 40, 2018-05-04 ISSN 1940-5758

Wikidata: a platform for your library's linked open data

Seized with the desire to improve the visibility of Canadian music in the world, a ragtag band of librarians led by Stacy Allison-Cassin set out to host Wikipedia edit-a-thons in the style of Art+Feminism, but with a focus on addressing Canadian music instead. Along the way, they recognized that Wikidata offered a low-barrier, high-result method of making that data not only visible but reusable as linked open data, and consequently incorporated Wikidata into their edit-a-thons. This is their story.

by Stacy Allison-Cassin‡, Dan Scott.‡

‡ Both authors contributed equally to this work.

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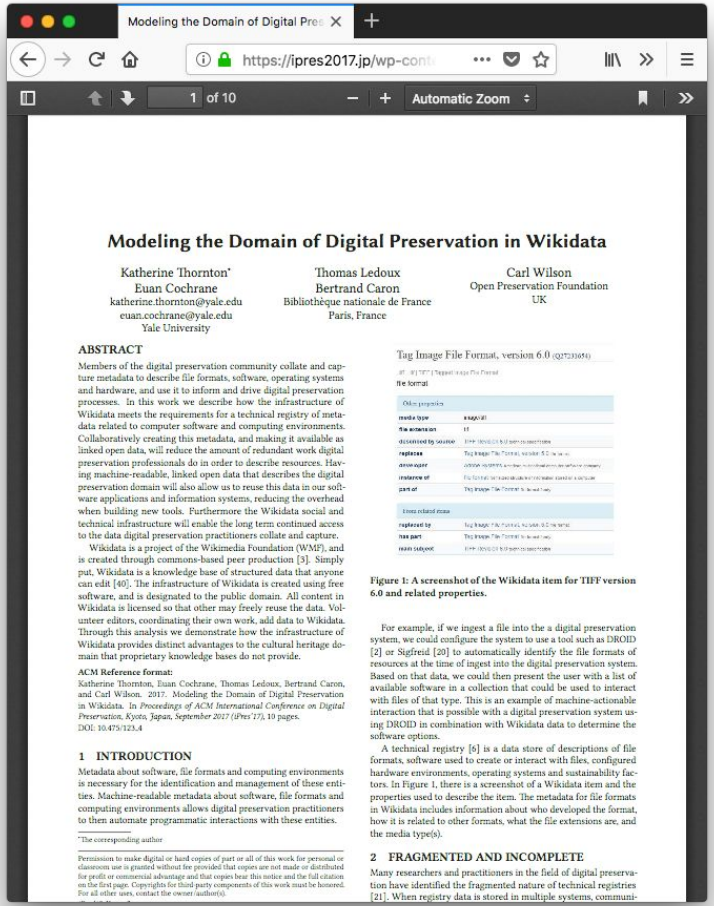
Introduction

Creating and using linked open data (LOD) in library and GLAM (galleries, libraries, archives, museums) projects has historically been associated with a high level of institutional requirements. Erik et al (2015 [3]) asserted "the fact that LAM institutions are still having to select triplestores, SPARQL engines, indexing platforms, and other services means that there is still a relatively high bar for institutions to cross in taking up LD projects". The requirement to select, host, and administer all of these systems establishes technical and resource barriers that can prevent organizations and individuals from participating in LOD entirely (Goddard and Byrne, 2010 [5]). Creating and publishing LOD has traditionally required technical skills to transform relational data, to support content-negotiation and alternate serializations, and to understand vocabularies and ontologies typically documented in RDFS or OWL.

Wikidata, launched in 2012 by the Wikimedia Foundation as the machine-readable store for all Wikimedia Foundation projects, is a freely available hosted platform that anyone–including libraries–can use to create, publish, and use LOD. Powered by Blazegraph, the platform offers a triplestore and high-availability SPARQL endpoint that (as of April 2018) has served roughly 3 million queries per day over the past year (Wikimedia Foundation, n.d. [11]); a full text search engine; and is administered by the Wikimedia Foundation. Its vocabulary is published and editable alongside other items in the platform using the same relatively user-friendly interfaces. In effect, Wikidata has responded to the barriers identified by Erik et al and Goddard and Byrne by providing a ready-made platform for any person or organization that wants to create,

iOS
Siri Knowledge

4 - Work together **through** Wikidata as shared knowledge base



Modeling the Domain of Digital Preservation in Wikidata

Katherine Thornton*
Euan Cochrane
katherine.thornton@yale.edu
euan.cochrane@yale.edu
Yale University

Thomas Ledoux
Bertrand Caron
Bibliothèque nationale de France
Paris, France

Carl Wilson
Open Preservation Foundation
UK

ABSTRACT

Members of the digital preservation community collate and capture metadata to describe file formats, software, operating systems and hardware, and use it to inform and drive digital preservation processes. In this work we describe how the infrastructure of Wikidata meets the requirements for a technical registry of metadata related to computer software and computing environments. Collaboratively creating this metadata, and making it available as linked open data, will reduce the amount of redundant work digital preservation professionals do in order to describe resources. Having machine-readable, linked open data that describes the digital preservation domain will also allow us to reuse this data in our software applications and information systems, reducing the overhead when building new tools. Furthermore the Wikidata social and technical infrastructure will enable the long term continued access to the data digital preservation practitioners collate and capture.

Wikidata is a project of the Wikimedia Foundation (WMF), and is created through commons-based peer production [3]. Simply put, Wikidata is a knowledge base of structured data that anyone can edit [40]. The infrastructure of Wikidata is created using free software, and is designated to the public domain. All content in Wikidata is licensed so that other may freely reuse the data. Volunteer editors, coordinating their own work, add data to Wikidata. Through this analysis we demonstrate how the infrastructure of Wikidata provides distinct advantages to the cultural heritage domain that proprietary knowledge bases do not provide.

ACM Reference format:
Katherine Thornton, Euan Cochrane, Thomas Ledoux, Bertrand Caron, and Carl Wilson. 2017. Modeling the Domain of Digital Preservation in Wikidata. In *Proceedings of ACM International Conference on Digital Preservation, Kyoto, Japan, September 2017 (iPres'17)*, 10 pages.
DOI: 10.475/123.4

1 INTRODUCTION

Metadata about software, file formats and computing environments is necessary for the identification and management of these entities. Machine-readable metadata about software, file formats and computing environments allows digital preservation practitioners to then automate programmatic interactions with these entities.

*The corresponding author

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Tag Image File Format, version 6.0 (Q27231654)

file format

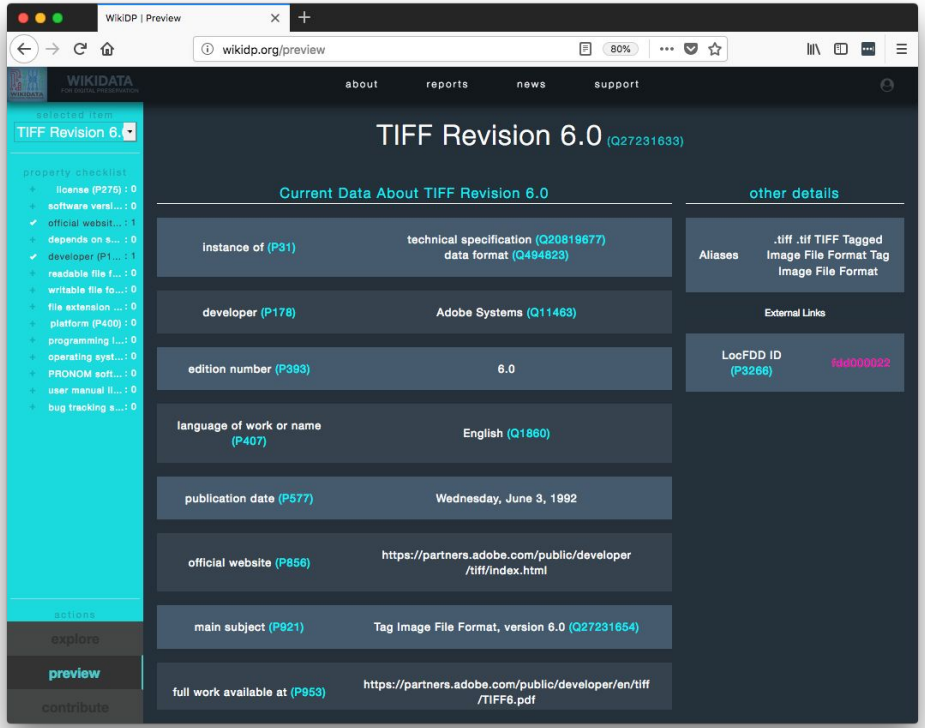
Figure 1: A screenshot of the Wikidata item for TIFF version 6.0 and related properties.

For example, if we ingest a file into the a digital preservation system, we could configure the system to use a tool such as DROID [2] or Siegfreid [20] to automatically identify the file formats of resources at the time of ingest into the digital preservation system. Based on that data, we could then present the user with a list of available software in a collection that could be used to interact with files of that type. This is an example of machine-actionable interaction that is possible with a digital preservation system using DROID in combination with Wikidata data to determine the software options.

A technical registry [6] is a data store of descriptions of file formats, software used to create or interact with files, configured hardware environments, operating systems and sustainability factors. In Figure 1, there is a screenshot of a Wikidata item and the properties used to describe the item. The metadata for file formats in Wikidata includes information about who developed the format, how it is related to other formats, what the file extensions are, and the media type(s).

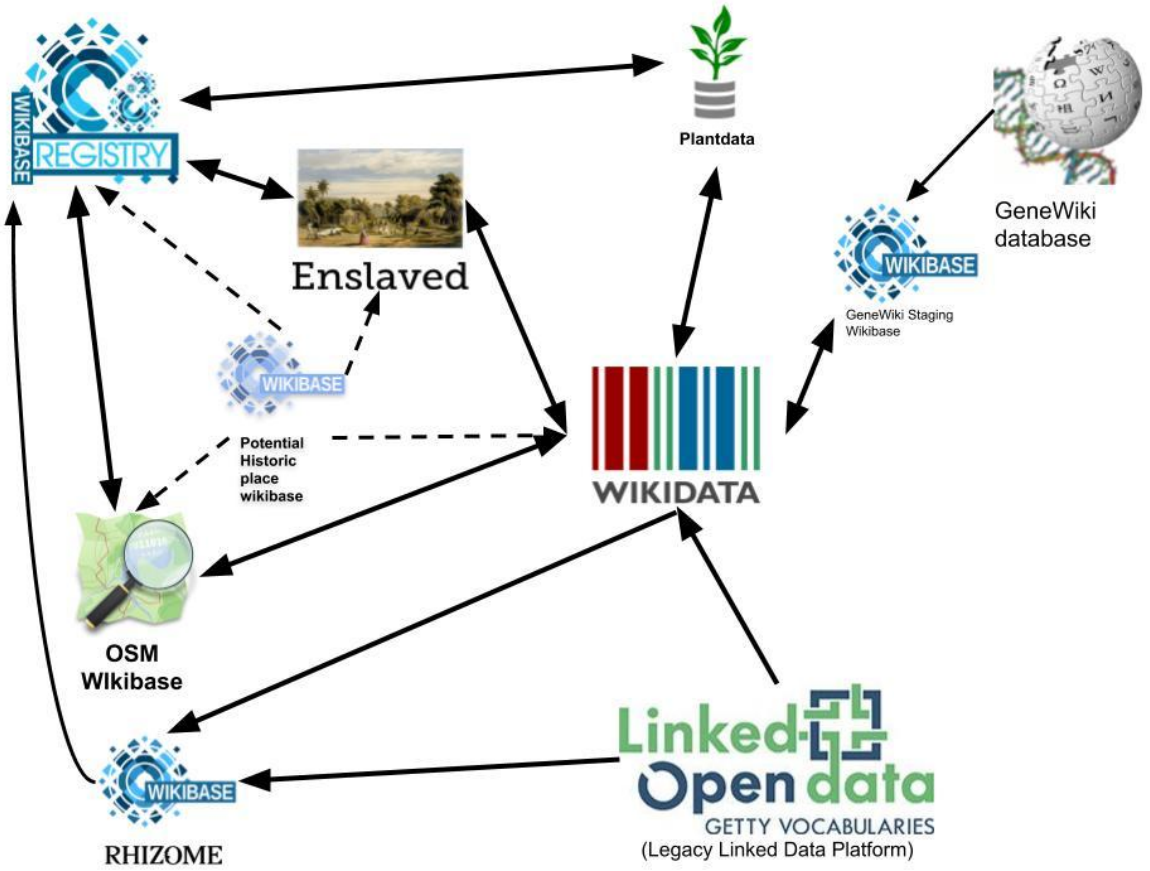
2 FRAGMENTED AND INCOMPLETE

Many researchers and practitioners in the field of digital preservation have identified the fragmented nature of technical registries [21]. When registry data is stored in multiple systems, communi-



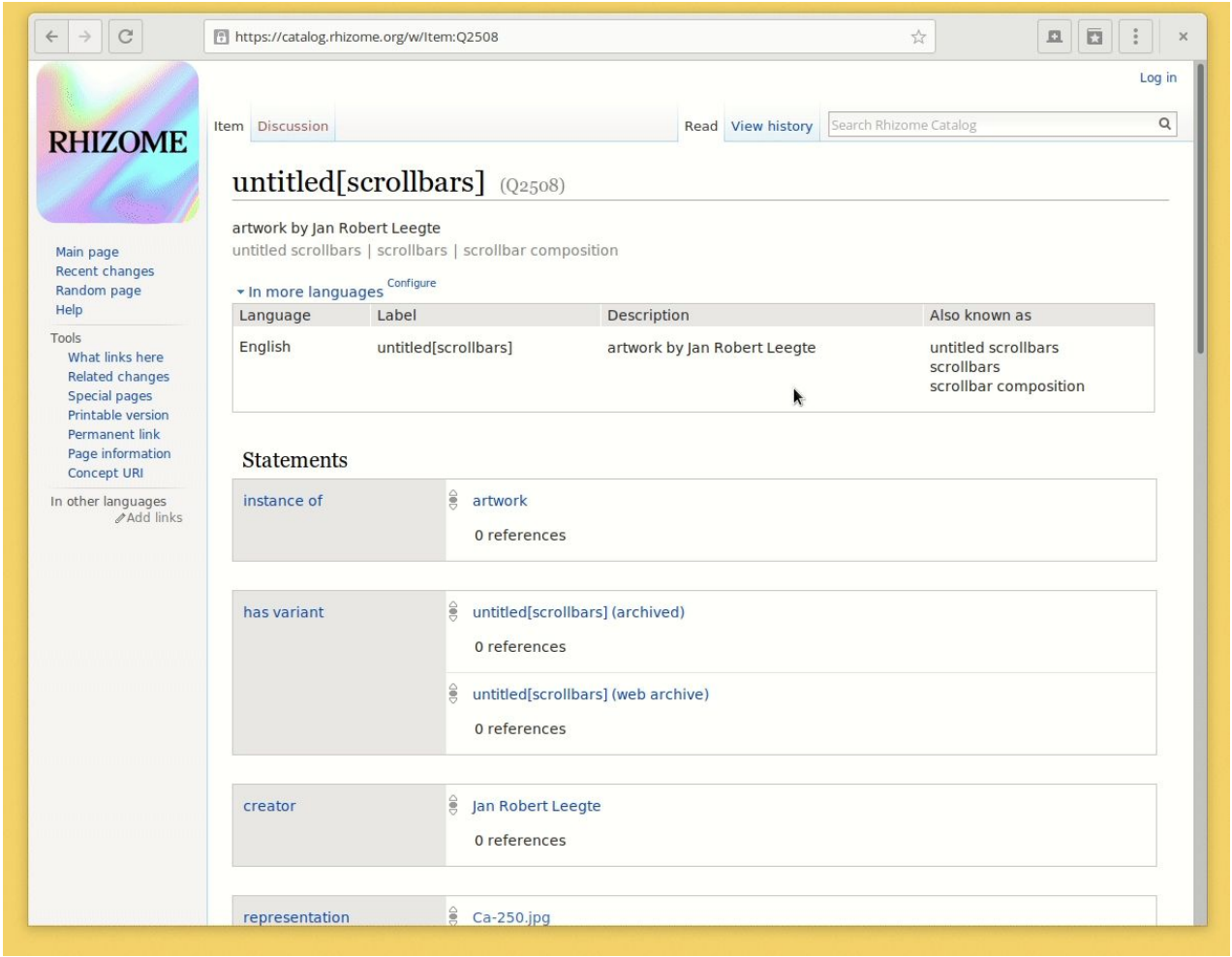
Shared knowledge infrastructure for digital preservation
http://wikidp.org/
https://ipres2017.jp/wp-content/uploads/7.pdf

Federated Linked Open Data with Wikibase



Catalog of internet artworks preserved by Rhizome.org

using Wikibase



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Many faces of Wikibase: Rhizome's archive of born-digital art and digital preservation

By Sandra Fauconnier

6 September 2018

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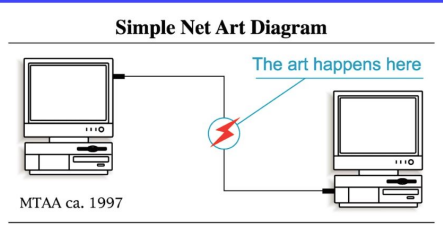

Simple Net Art Diagram (1997) by MTAA.

***MediaWiki**, the free and open source software behind Wikipedia and its sister projects, is widely known and used outside the Wikimedia ecosystem, powering thousands of individual wikis around the world. Fewer people know that **Wikibase**—the software behind **Wikidata**, Wikimedia's knowledge base—is also available as free and open software, and can be used for external databases and linked open data projects. To highlight how organizations use Wikibase, the Wikimedia Foundation and Wikimedia Germany (Deutschland) are publishing a series of blog posts called the 'Many faces of Wikibase'.*

Rhizome, an arts organization in New York City, was one of the early adopters of Wikibase, having been using it since 2015 for its archive of born-digital art and digital preservation activities. Sandra Fauconnier interviewed Dragan Espenschied (Rhizome's preservation director), Lyndsey Moulds (software curator), and Lozana Rossenova (external Ph.D. researcher) to ask them why and how they use Wikibase.

Sandra: On your website, you describe Rhizome as an organization that deals with born-digital art and culture. What does this mean?

Dragan: Rhizome was founded in 1996, as an online initiative by net artists. Internet-based art or net art is an art form that uses new media, and specifically the internet, as its medium. So, we deal with art pieces that have been made especially for the internet, not digitized 'classical' artworks! In the mid-1990s, this art form was emerging and quite new; Rhizome and many other organizations around the world have helped to make it more established. Today, Rhizome is an affiliate of the New Museum in New York City.

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WikibaseNYC conference explores the frontier of linked open data infrastructure

By Alex Stinson, Jake Orlowitz and Jens Ohlig

24 October 2018

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UX workshop at the Wikibase summit, held in New York City last month.

When you think about the work of art historians or genetics researchers, installing database software is not the first thing that comes to mind. Yet, from 19 to 21 September, Wikimedians, art curators, and scientists gathered at the New Museum in New York City's Lower East Side for a three-day workshop to talk about an emerging technology designed to make storing and structuring data free and accessible. The focal point was an increasingly vital piece of the Wikimedia ecosystem that makes linked data possible for everyone: Wikibase.

Wikibase is a little-known standalone piece of software that powers Wikimedia's popular new linked-data project Wikidata. (This is similar to how Wikipedia is powered by a general wiki software called MediaWiki, which is used everywhere from NASA to MuppetWiki.) Since 2012, Wikidata has been growing to fill an increasingly important role in the Wikimedia community: connecting, sharing and providing tools for turning Wikipedia's text strings into useful, searchable, machine-readable. Wikidata's content informs research and cultural heritage institutions, as well as digital tools like Google's Knowledge Graph. None of this would be possible without Wikibase—which makes the Wikidata's linked open data project possible and practical.

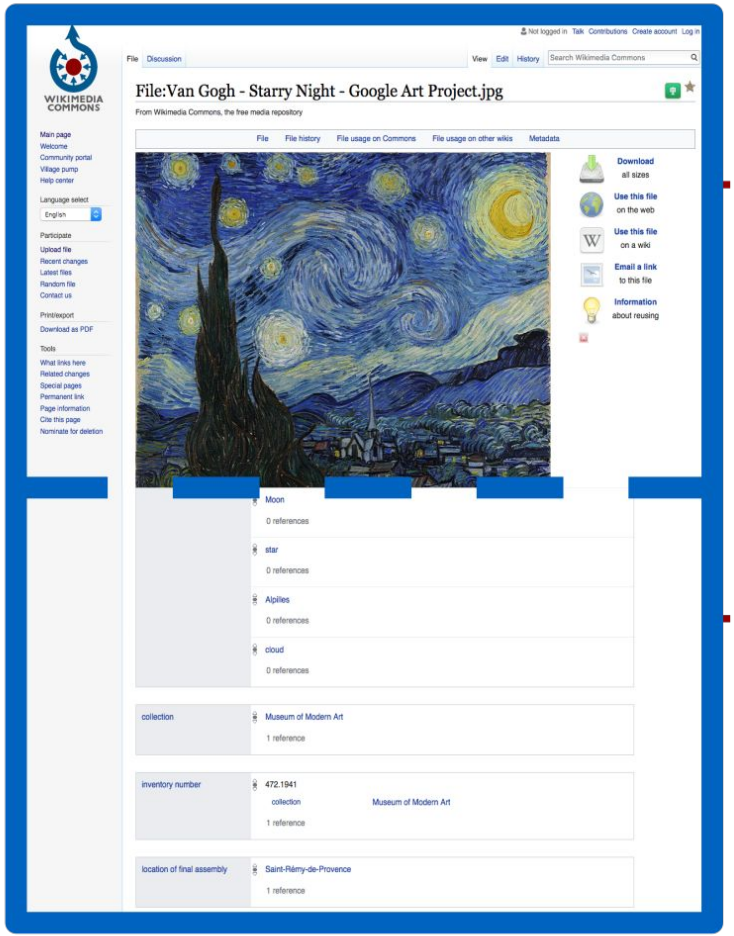
In the last few years, an expanding community of researchers, GLAMs, and other knowledge communities have been experimenting with using Wikibase for their own repositories of knowledge, distinct from the central Wikidata knowledge collected by Wikimedians. But this nascent community of Wikibase reusers is just

https://wikimediafoundation.org/2018/09/06/rhizome-wikibase/

https://wikimediafoundation.org/2018/10/24/wikibasenyc-conference/

Structured Data on Wikimedia Commons

2017-19



The Starry Night (1889) by Vincent van Gogh, Museum of Modern Art. From Google Art Project, Public Domain

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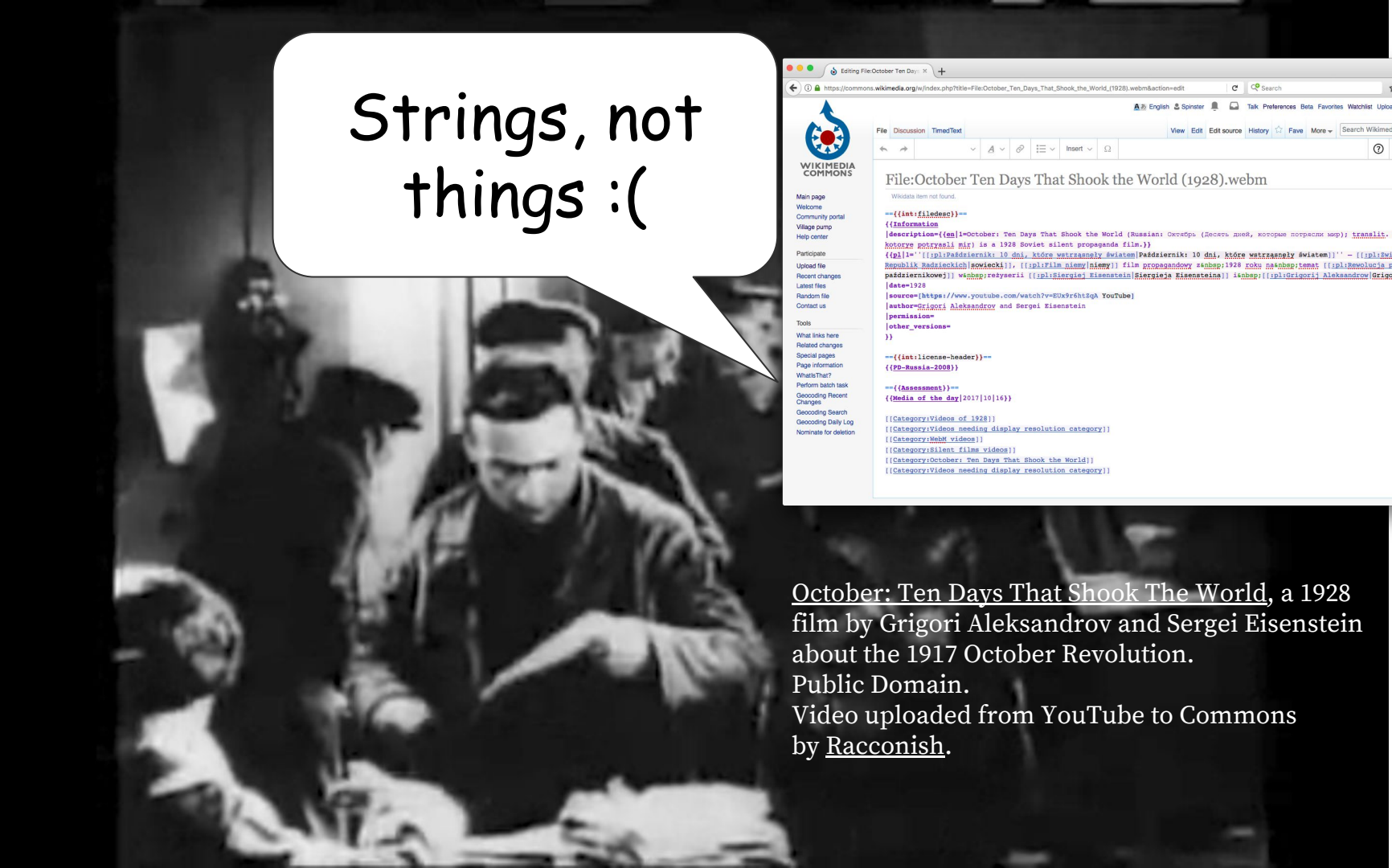
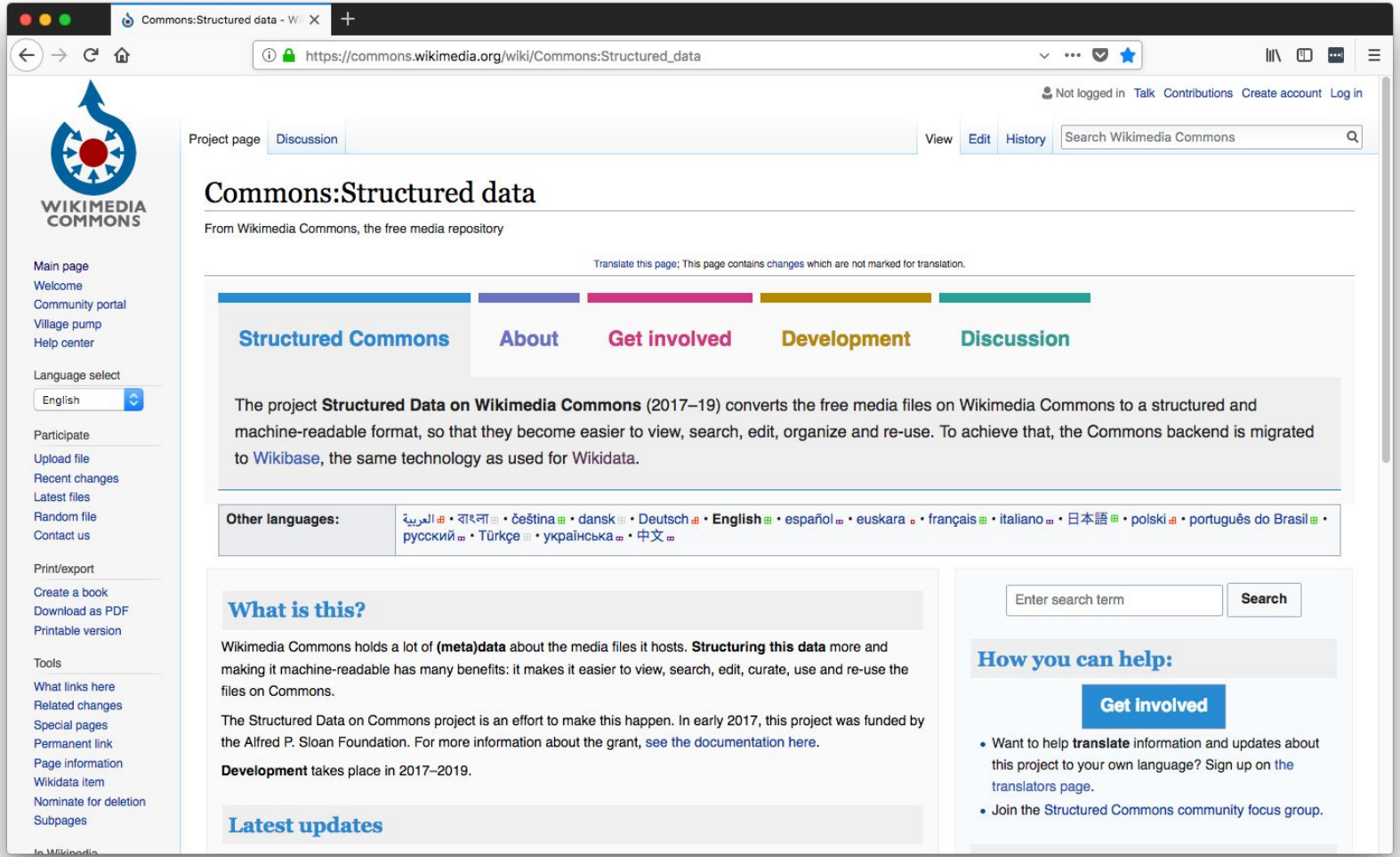


October: Ten Days That Shook The World, a 1928 film by Grigori Aleksandrov and Sergei Eisenstein about the 1917 October Revolution.
Public Domain.
Video uploaded from YouTube to Commons by Racconish.

Structured Data on Commons
2017-2019

adding metadata on Commons
in a **structured** & **machine-readable** format
making Commons files easier to
view, **search**, **edit**, **organize** and **re-use**,
in many **languages**



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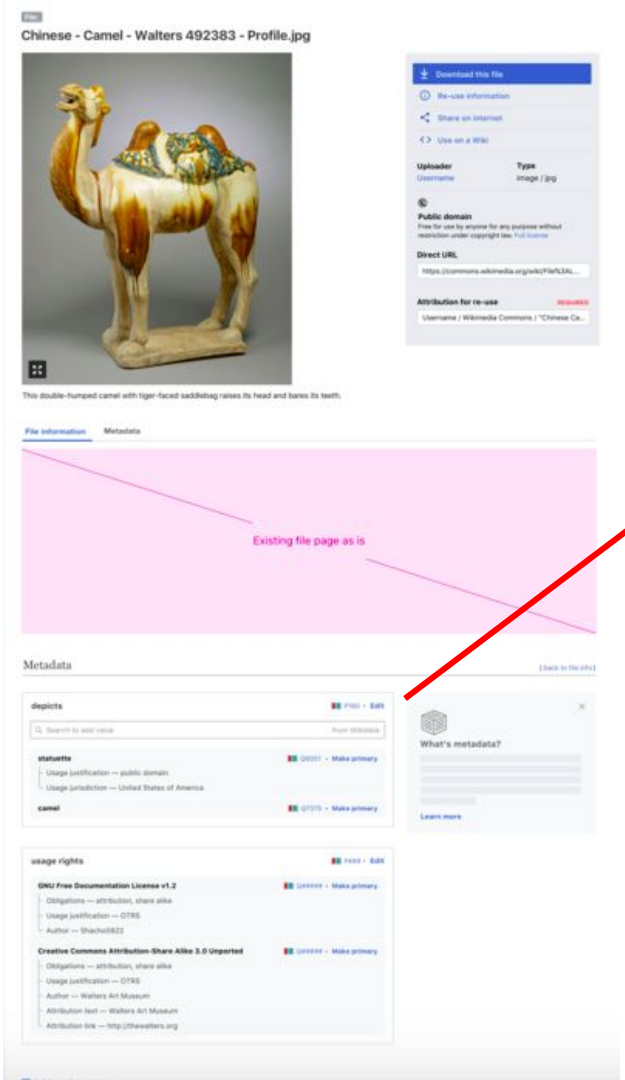

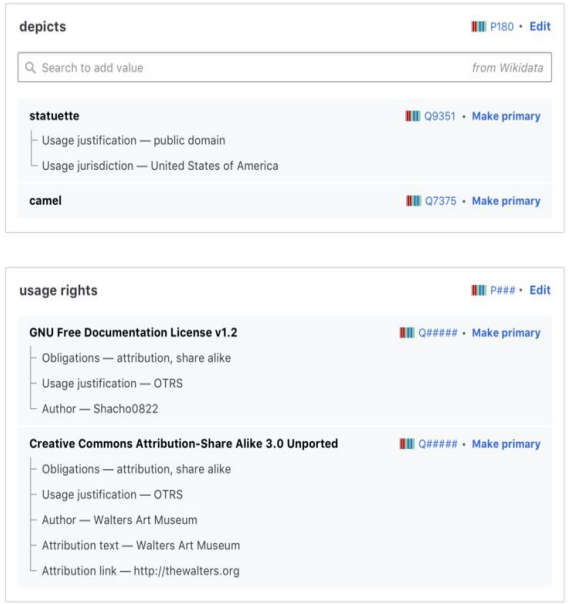

Mockup: Pam Drouin / Wikimedia Commons / CC-BY-SA 4.0 / GFDL
Camel: Walters Art Museum / Wikimedia Commons / CC-BY-SA 3.0 / GFDL

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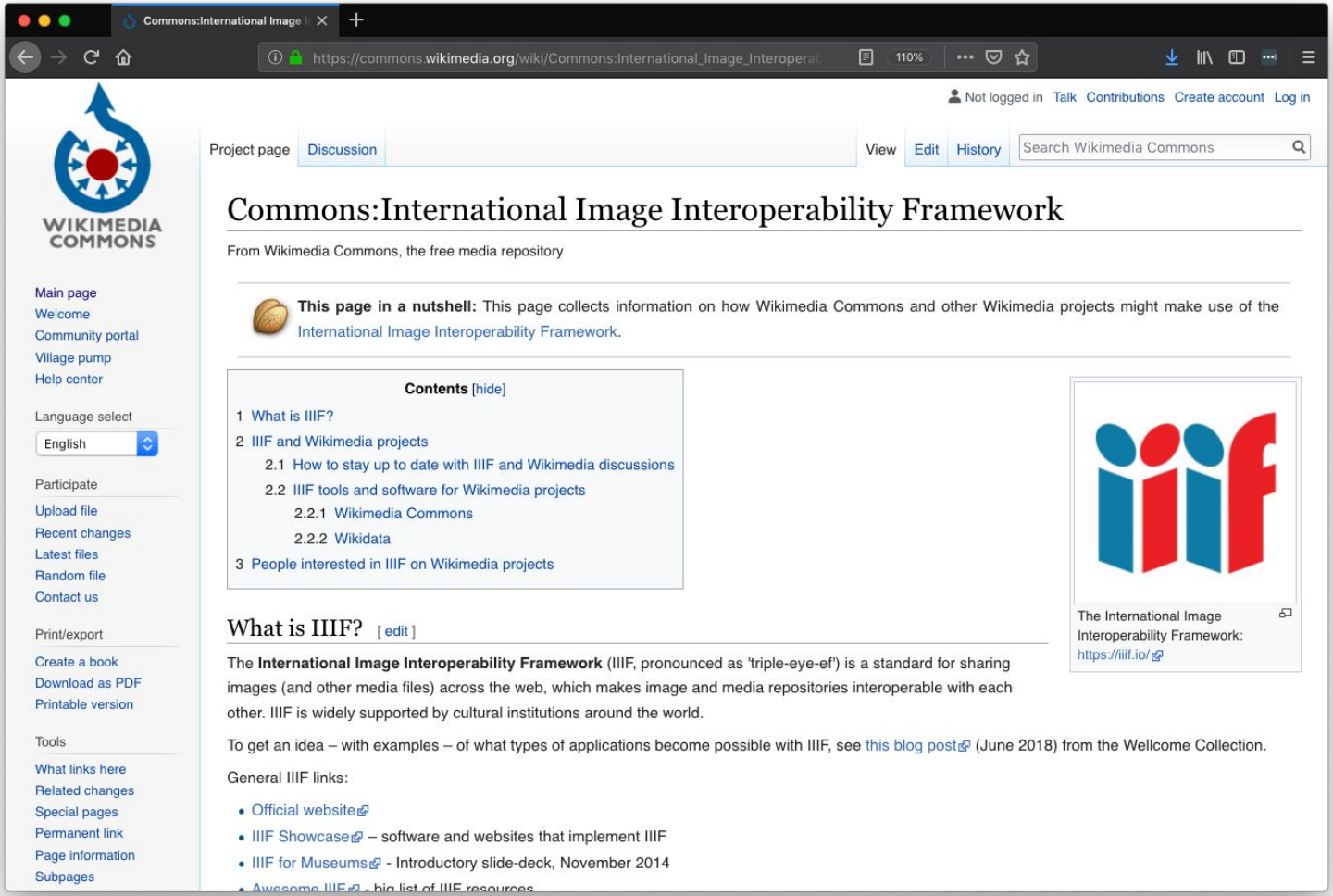
GLAM pilot projects

→ Diverse and representative

→ Support and documentation

- files on Commons as Linked Open Data
- multilinguality
- refined APIs
  - data synchronization and metadata round-tripping!
  - more refined impact statistics



https://commons.wikimedia.org/wiki/Commons:International_Image_Interoperability_Framework

Thank you!

Questions?