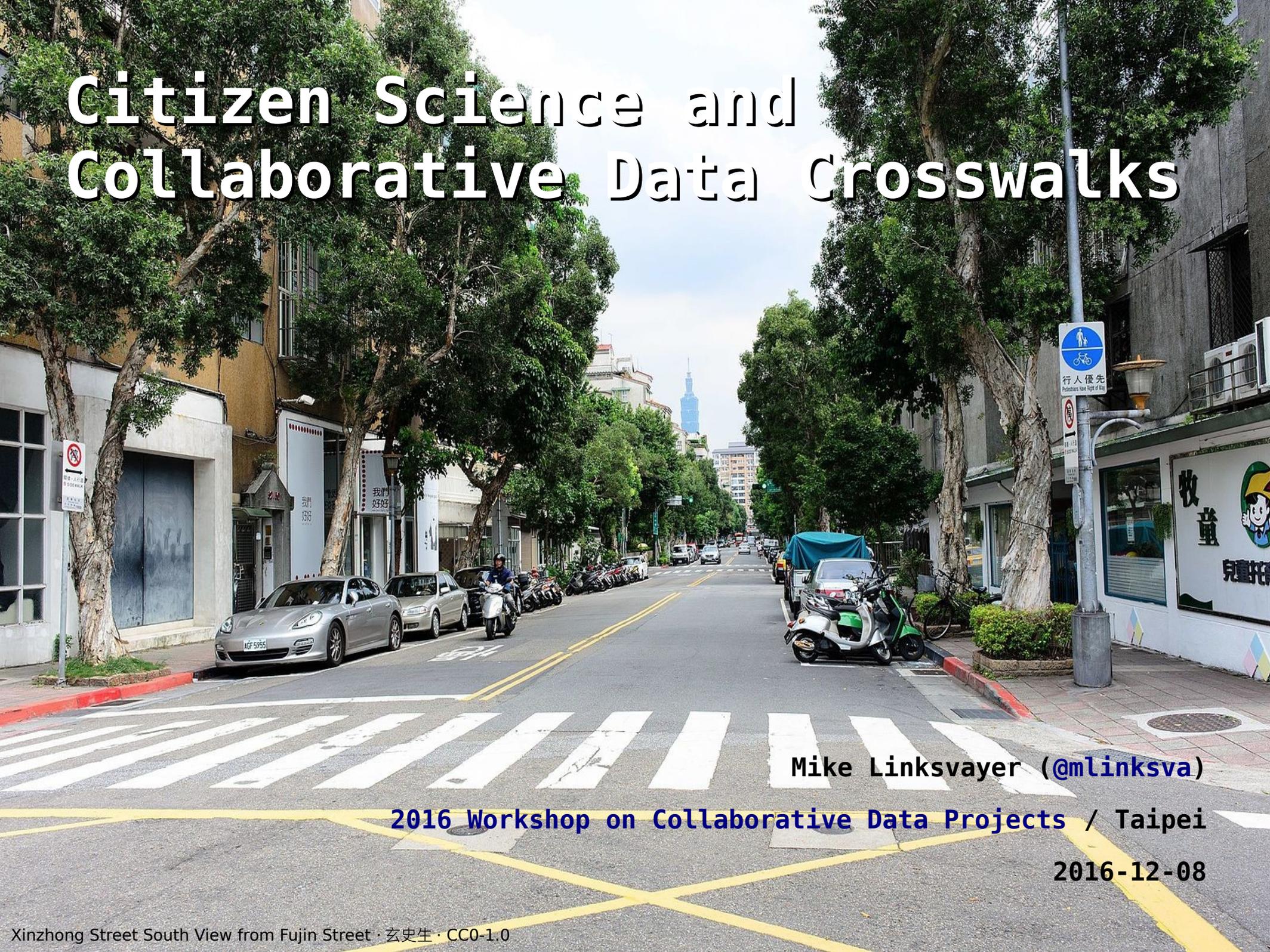


Citizen Science and Collaborative Data Crosswalks



Mike Linksvayer (@mlinksva)

2016 Workshop on Collaborative Data Projects / Taipei

2016-12-08

1 Mass Collaboration (Policy): What, Why, and Choices

The images show three maps: a topographic map, a satellite map, and a map with colored overlays. Below them is a small text box with the title 'The Commons: Openness, Innovation, & Trust' and the date '2010-08-04'.

2 Intellectual Property

The image shows logos for Creative Commons, Open Access, and a question mark, suggesting a discussion on the intersection of IP and open access.

3 easy to get hung up on vulgar policy, eg licensing

think broadly about what, where, ends

4 what is a mass collaboration data project?

- is: distributed / explicit
- is: distributed / centralized
- is: crowdsourced / collaborative
- ...

5 consider location of "science"

"scientific work"

- freelance
- multinational
- open/intermap
- collaborative
- open/intermap
- open/intermap
- ...

6 what is a mass collaboration data project?

7 restrictions & permissions

try to be Open use terms other projects do: if you have to think, public domain for max clones, copyright [look again at nearby projects] for max retention, but also possibly ensure facts are free...

8 "IP" never the ideal answer

peer substitute for other regulation...

9 ...privacy, security, integrity

public licenses dull instruments for these legitimate objectives

when so used overly restrictive, incompatible

10 ...transparency, replicability, modifiability

copyright

part copyright etc neutralization, part regulatory

wholesale goals

license FUD, incompatibility

11 explicit

centralized

collaborative

= obvious need for public licenses like nothing else

12 governance of what?

depends on location in each dimension

13 software to facilitate mass collaboration, eg wikis

resource control

scientific stuff

14 data management

15 consider key -policy choices (so far) made by a couple of aforementioned projects

16 at what level should "policy" be considered (depends...)

- international
- jurisdictional
- institutional
- standards
- project
- individual contributor

17 some things to desire [-needs] from mass collaboration projects (thus to consider in "policy")

- curator
- provenance
- data improvement, normalization
- alternatives
- ...
- innovation/ disruption/ not imagined work
- orientation toward public good

18 at least 3 methods of promoting and protecting commons

- law/policy
- building
- ecological

each has reactionary and progressive aspects

19 building

free knowledge & software invalidates assumptions of, mitigates, and builds consistency against bad policy

each contribution to a commons is a strike against bad policy and dystopian future: that's something to celebrate and protest!

20 imagine a world in which Wikipedia is not unusual

where mass collaboration obtains... disruption innovation superior "product" greater equality greater freedom ...in all of the most crucial human enterprises

21 links: survey yourself to

[openness of commons](#)

[openness](#)

22 open data policy for scientists as citizens and for citizen science

23 open

24 in part

25 "citizen science"

contributions to scientific processes outside of institutional control and/or by non-scientists?

"scientists as citizens"

scientists (including citizen scientists) reexamine of the role of their work for society

26 high priority used to be looked upon for "truth" ... but they controlled it tightly

scientists are looked upon to work towards truth ... and their work is always shared freely and open to scrutiny

at least we have the right ideal now ☺

27 "open data"

Anyone, any purpose

28 easy to get hung up on vulgar policy, eg licensing

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Disciplining or Empowering the Citizenry Through Citizen Science-
Historical and Normative Perspectives on Knowledge and Power

知識、權力與公民科學
歷史與規範的觀點



Dec 7-9, 2016
@Academia Sinica
Taipei, Taiwan

what is a mass collaboration data project?

x: latent / explicit

y: distributed / centralized

z: crowdsourced / collaborative

...: ...

consider location of

“science”

“semantic web”

freebase

musicbrainz

openstreetmap

wikidata

dbpedia

zooniverse

...

governance

of what?

depends on location in each dimension

explicit

+centralized

+collaborative

**= evinces need for public licenses like
nothing else**

at what level should “policy” be considered (depends...)

international

jurisdiction

institutional

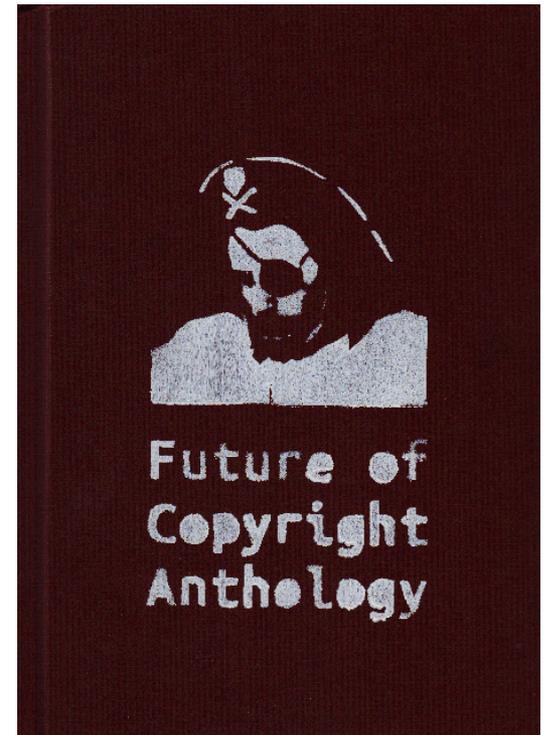
standards

project

individual contributor

“IP” never the ideal answer

**poor substitute for other
~~regulation~~ disciplining...**



Legal Interoperability of Research Data: Principles and Implementation Guidelines

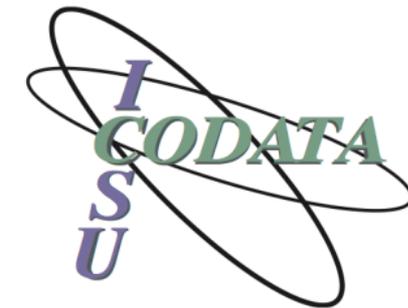
Date: Sep 9, 2016



The CODATA-RDA Legal Interoperability Interest Group has studied the issues related to the intellectual property of data: the resulting outcome is a set of principles and practical implementation guidelines. They are offered as high-level guidance to all members of the research community—the funders, managers of data centers, librarians, archivists, publishers, policymakers, university administrators, individual researchers, and their legal counsel—who are engaged in activities that involve the access to and reuse of research data from diverse sources. The Principles are synergistic, so their greatest benefit is realized when they are considered together.



The following Principles on the Legal Interoperability of Research Data focus on all types of data that are used primarily in publicly funded research in government and academia:



- ➔ One: Facilitate the lawful access to and reuse of research data.
- ➔ Two: Determine the rights to and responsibilities for the data.
- ➔ Three: Balance the legal interests.
- ➔ Four: State the rights transparently and clearly.
- ➔ Five: Promote the harmonization of rights in research data.
- ➔ Six: Provide proper attribution and credit for research data.

**necessary, but easy to get hung up on
vulgar policy, eg licensing**

think broadly about what, where, ends

**some things to desire (~ends) from
mass collaboration projects (thus to
consider in “policy”)**

curation

provenance

data improvement, normalization

metrics

...

**innovation/disruption/not imagined
uses**

orientation toward public good

**imagine a world in which Wikipedia is
not unusual:**

where mass collaboration obtains...

disruptive innovation

superior “product”

greater equality

greater freedom

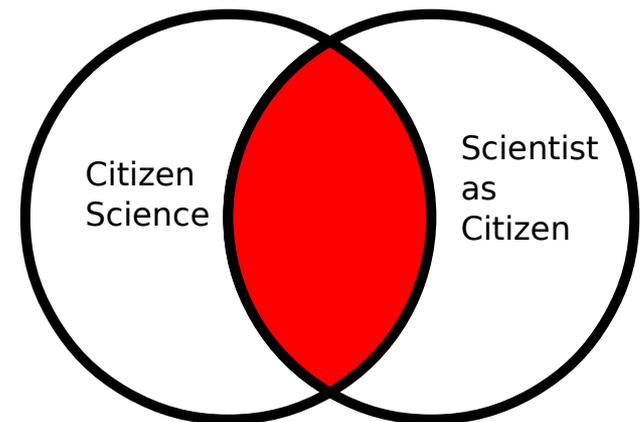
**...in all of the most crucial human
enterprises**

“citizen science”

**contributions to scientific processes
outside of institutional context and/or
by non-scientists?**

“scientists as citizens”

**scientists [including citizen
scientists?] cognizant of the role of
their work for society?**



**high priests used to be looked upon for
“truth” ... but they controlled it tightly**

**scientists are looked upon to work
towards truth ... and their work is
always shared freely and open to
scrutiny**

at least we have the right ideal now 😊

**Wanted: collaborative data projects
about open collaboration...**

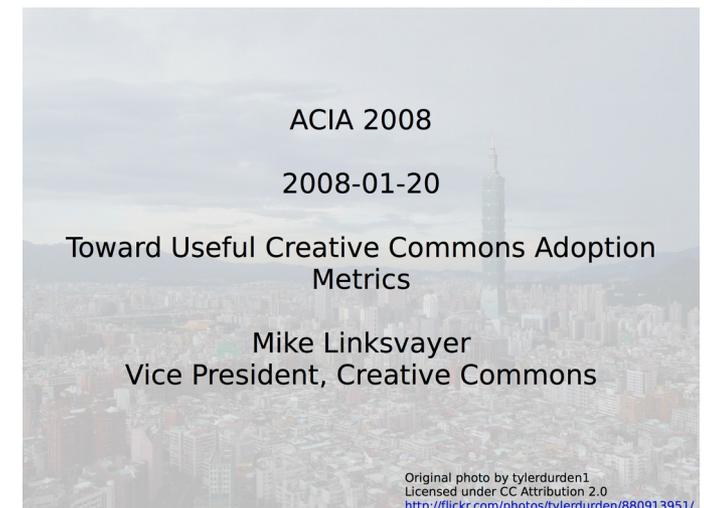
control data, control arrangements

**surpass counting patents as proxy for
innovation**

altmetrics moneyball

identify and create cultural relevance

...a personal thread



Wikidata is extremely cool and relevant

Mass collaboration ontology development

Literal data crosswalks

Community tech

Site of data collaboration projects

Increase value and efficiency of Wikipedias and other projects

...

Douglas Adams (Q42)

English writer and humorist
Douglas Noël Adams | Douglas Noel Adams
▶ In more languages

Statements

educated at

St John's College

end time	1974
academic major	English literature
academic degree	Bachelor of Arts
start time	1971

▼ 2 references

stated in	Encyclopædia Britannica Online
reference URL	http://www.nndb.com/people/731/000023662/
original language of work	English
retrieved	7 December 2013
publisher	NNDB
title	Douglas Adams (English)

+ add reference

Brentwood School

end time	1970
start time	1959

▶ 0 references

+ add (statement)

label

description

property

rank

statement group

unique identifier

aliases

value

qualifiers

opened references

collapsed reference

Some WikiProjects have been created, here is a list of them:

- ▶ [Completed WikiProjects](#)
- ▶ [Construction WikiProjects](#)
- ▶ [Cultural WikiProjects](#)
- ▶ [Flemish art collections, Wikidata and Linked Open Data project](#)
- ▶ [Geographical WikiProjects](#)
- ▶ [GLAM WikiProjects](#)
- ▶ [History WikiProjects](#)
- ▶ [Lists of WikiProject participants](#)
- ▶ [Meta WikiProjects](#)
- ▶ [WikiProject Occupations and professions](#)
- ▶ [Properties list in a WikiProject](#)
- ▼ [Science WikiProjects](#)
 - ▶ [WikiProject Astronomy](#)
 - ▶ [WikiProject Chemistry](#)
 - ▶ [WikiProject Microbiology](#)
 - ▶ [WikiProject Molecular biology](#)
 - ▶ [WikiProject Open Access](#)
 - ▶ [WikiProject Tropical cyclones](#)
 - ▶ [WikiProject Wikidata for research](#)
 - ▶ [WikiProject Source MetaData](#)
 - ▶ [WikiProject Taxonomy](#)
 - [WikiProject Anatomy](#)
 - [WikiProject Biology](#)
 - [WikiProject Cat breeds](#)
 - [WikiProject Chemistry](#)
 - [WikiProject Dog breeds](#)
 - [WikiProject Ecology](#)
 - [WikiProject Geology](#)
 - [WikiProject Informatics](#)
 - [WikiProject Mathematics](#)
 - [WikiProject Medicine](#)
 - [WikiProject Mineralogy](#)
 - [WikiProject Molecular biology](#)
 - [WikiProject Physics](#)
 - [WikiProject Space](#)
 - [WikiProject Identification Keys](#)
- ▶ [Social science WikiProjects](#)

Wikidata:Property proposal

Shortcut: [WD:PP](#) 

[Translate this page](#)

Other languages:	العربية • беларуская • বাংলা • bosanski • català • čeština • dansk • Deutsch • Ελληνικά • English • Canadian English • British English • Esperanto • español • فارسی • suomi • français • Frysk • ગુજરાતી • עברית • हिन्दी • magyar • Հայերեն • Bahasa Indonesia • Ilokano • italiano • 日本語 • ქართული • 한국어 • Kurdî (latîni) • Lëtzebuergesch • lietuvių • latviešu • македонски • മലയാളം • Bahasa Melayu • norsk bokmål • Nederlands • occitan • polski • پښتو • português • português do Brasil • русский • shqip • српски / srpski • ไทย • Türkçe • українська • Tiếng Việt • 中文
-------------------------	--

WD:PP redirects here. For the protection policy, please see [Page protection policy](#) (shortcut [WD:PPP](#)).

Before a new [property](#) is created, it has to be discussed here. When after some time there are some supporters, but no or very few opponents, the property is created by a [property creator](#) or an [administrator](#).

You can propose a property [here](#) or on one of the subject-specific pages listed below.

The property proposals are divided by topic:

[Generic](#) (24)

[Authority control](#) (22)

[Person](#) (12)

[Organization and politics](#) (6)

[Event](#) (12)

[Creative work](#) (18)

[Term](#) (1)

[Space](#) (0)

[Place](#) (13)

[Sister projects](#) (1)

[Economics](#) (0)

[Transportation](#) (5)

[Natural science](#) (23)

[Property metadata](#) (0)

[Pending](#)

2016 Community Wishlist Survey/Categories/Wikidata

[< 2016 Community Wishlist Survey](#)

2016 Community Wishlist Survey

Wikidata

26 proposals, 176 contributors, 365 support votes

Cast your votes now! Only support votes are counted ([learn more](#))

Note that proposals are rotated every 6 hours to ensure all get fair visibility.

Please don't post any new proposals; we've got plenty!

Thanks for participating in this year's survey!

Voting closes on 12 December [23:59 UTC](#).

 [Watchlists](#) • [WikiProjects](#) 

Create infobox for books in Wikipedia [[edit](#) | [edit source](#)]

- **Problem:** There is a lot of bibliographic data and properties in Wikidata, however this cannot be used in Wikipedia because there is no infobox capable of displaying the rich data model (see: [d:Wikidata:WikiProject Books](#)).
- **Who would benefit:** Editors who work with bibliographic data. Readers.
- **Proposed solution:** create a Lua module that can display information

Contents [\[hide\]](#)

- 1 [Create infobox for books in Wikipedia](#)
- 2 [Datatype for Hours:Minutes:Seconds](#)
- 3 [Easily duplicate parts of an item](#)
- 4 [Easy inter-project linking](#)
- 5 [Improve QuickStatements](#)
- 6 [Improved watchlist integration](#)
- 7 [Keep Wikidata in sync with external databases](#)

Science [[edit](#) | [edit source](#)]

Biology and Medicine [[edit](#) | [edit source](#)]

Diseases [[edit](#) | [edit source](#)]

The number of existing translations for diseases in Wikidata [[edit](#) | [edit source](#)]

Items used: [disease](#) (Q12136)

```
#added before 2016-10
```

```
SELECT ?disease ?doid ?enLabel (count(?language) as ?languages)
WHERE
{
  ?disease wdt:P699 ?doid ;
    rdfs:label ?label ;
    rdfs:label ?enLabel .
  FILTER (lang(?enLabel) = "en")

  BIND (lang(?label) AS ?language)
}
group by ?disease ?doid ?enLabel
order by desc(?languages)
```

Try it! [↗](#)

A network of Drug-disease interactions on infectious diseases (Source: Disease Ontology, NDF-RT and ChEMBL) [[edit](#) | [edit source](#)]

Data sources

[Mission](#)[Values](#)[Governance](#)[People](#)[Roadmap](#)[F.A.Q.](#)[Technology](#)[Privacy](#)[Data sources](#)[Partners](#)[Credits](#)

For [transparency](#), we are committed to using only **publicly available data** to generate our search results.

Here is an exhaustive list of what we currently use:

- **Common Crawl**: The largest open repository of web crawl data. This is currently our unique source of raw page data.
- **Wikidata**: A free, linked database that acts as central storage for the structured data of many Wikimedia projects like Wikipedia, Wikivoyage, Wikisource, ...
- **UT1 Blacklist**: Maintained by Fabrice Prigent from the Université Toulouse 1 Capitole, this blacklist categorizes domains and URLs into several categories, including "adult" and "phishing".
- **DMOZ**: Also known as the Open Directory Project, it is the oldest and largest web directory still alive. Though their data is not as reliable as it was in the past, we still use it as a signal and metadata source.
- **Web Data Commons Hyperlink Graphs**: Graphs of all hyperlinks from a 2012 Common Crawl archive. We are currently using their Harmonic Centrality file as a temporary ranking signal on domains. We plan to perform our own analysis of the web graph in the near future.
- **Alexa top 1M sites**: Alexa ranks websites based on a combined measure of page views and unique site users. It is known to be demographically biased. We are using it as a temporary ranking signal on domains.

Do you know about another data source that could be useful? Send us an [email](#)!

Core values

Mission

Values

Governance

People

Roadmap

F.A.Q.

Technology

Privacy

Data sources

Partners

Credits

Our core values are the DNA of Common Search. They clearly state what we stand for, what makes us different and provide guidance when making hard decisions.

Starting with the most essential:

Radical transparency. Our search results must be explainable and reproducible. All our [code](#) is open source and results are generated only using [publicly available data](#). Transparency also extends to our governance, finances and day-to-day operations.

Independence. No single person, company or special interest must be able to influence the order of our search results to their benefit. Our [board of trustees](#) is the watchdog of that independence.

Public service. We want to build and operate a free service targeted at a large, mainstream audience. Our impact and ultimate contribution to the Web grows with our size so we should make our service accessible and useful to as many users as we can.

Pragmatism. Recognizing the immensity of the task at hand, we should be willing to accept short-term compromises when necessary, as long as they don't go against the values above.

Privacy. Users should be [informed](#) and in full control of the personal information they share with us and with any third parties.

Focus. We are building a search engine. Not a browser, not an operating system, not an encyclopedia. Collaboration with other organizations sharing our core values should be encouraged instead of replicating their efforts.

Frugalism. Lowering costs is easier than increasing revenue. Having a low burn rate reduces the influence of money and guarantees our long-term sustainability.

Participation. [Contributing](#) to Common Search should be easy for everyone, developer or otherwise. We must embrace and nurture an open community that will surely lead, in time, to a great search engine.



```
4015  */
4016  static int do_sched_cfs_period_timer(struct cfs_bandwidth *cfs_b, int overrun)
4017  {
4018      u64 runtime, runtime_expires;
4019      int throttled;
4020
4021      /* no need to continue the timer with no bandwidth remaining */
4022      if (cfs_b->quota == RUNTIME_INF)
4023          goto out_deactivate;
4024
4025      throttled = !list_empty(&cfs_b->throttled_cfs_rq);
4026      cfs_b->nr_periods += overrun;
4027
4028      /*
4029       * idle depends on !throttled (for the case of a large deficit, all of
4030       * we're going inactive then everything else can be returned)
4031       */
4032      if (cfs_b->idle && !throttled)
4033          goto out_deactivate;
4034
4035      __refill_cfs_bandwidth_runtime(cfs_b);
4036
4037      if (!throttled) {
4038          /* mark as potentially idle for the upcoming period */
4039          cfs_b->idle = 1;
4040          return 0;
4041      }
4042
4043      /* account preceding periods in which throttling occurred */
4044      cfs_b->nr_throttled += overrun;
4045
4046      runtime_expires = cfs_b->runtime_expires;
4047
4048      /*
4049       * This check is repeated as we are holding onto the run-time budget, but
4050       * we unthrottle. This can potentially cause some to be throttled again
4051       * trying to acquire new bandwidth from the parent, even though we still
```

Software [is our] Heritage

We are building the universal software archive



Collect
Preserve
Share

We **collect** and **preserve** software in source code form, because software embodies our technical and scientific knowledge and humanity cannot afford the risk of losing it.

Software is a precious part of our cultural heritage. We curate and make accessible all the software we collect, because only by **sharing** it we can guarantee its preservation in the very long term.

links: convey yourself to

gondwanaland.com/mlog

[@mlinksva](https://www.instagram.com/mlinksva)

