## Wikidata and Wikibase

What happened? Where are we going?

Lydia Pintscher

Product Manager for Wikidata

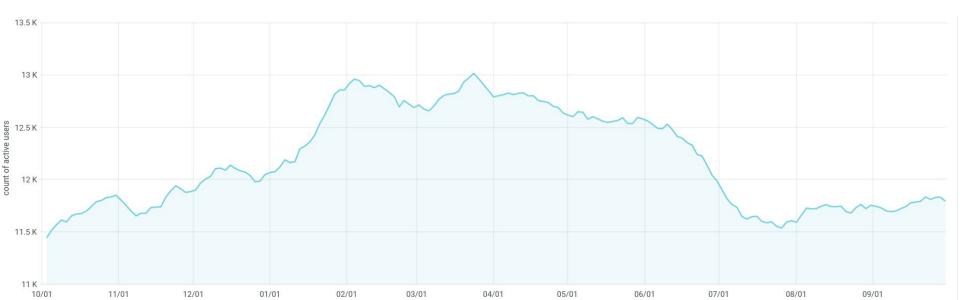
Sam Alipio

Product Manager for Wikibase Ecosystem





# 11.8k active editors

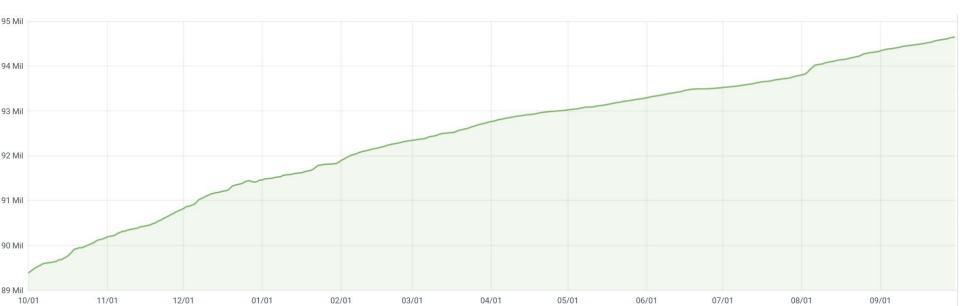


# 11.8k active editors

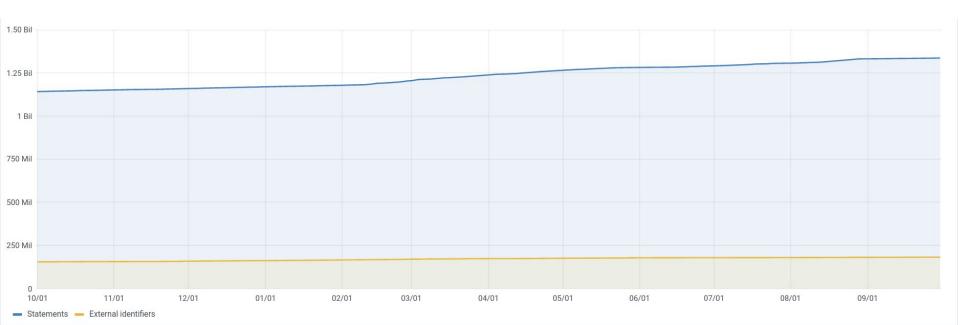
## 1.5 Billion edits



#### 94 Million Items



#### 1.34 Billion Statements



#### 580k Lexemes



8 Million SPARQL queries/day 71% of Wikipedia articles























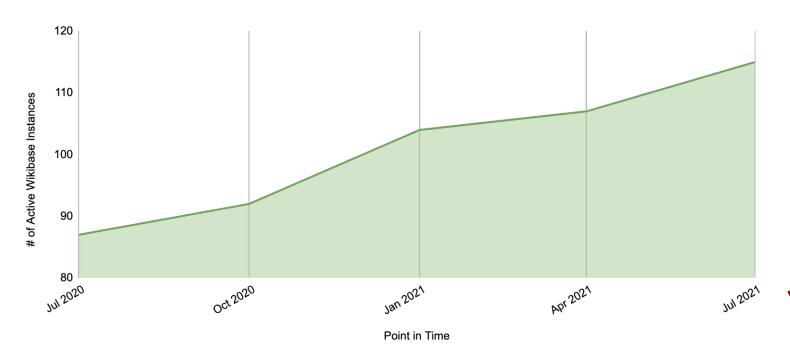
Quora





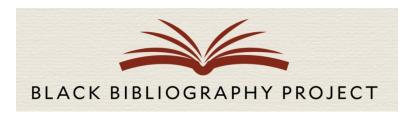


#### The Wikibase Ecosystem continues to grow: There are 32% more active instances vs. a year ago.





## Examples of Wikibases in the ecosystem











Piloting



{BnF



## New communities of practice have formed around Wikibase

#### Wiki Library Manifesto

**Goal**: The creation and implementation of a single Linked Open Data network for art, culture and science.

43 signatories, including national libraries, museums, university libraries



**Goal**: To commission production and maintenance of open source extensions to Wikibase.

13 institutional members (including Wikimedia Germany), and additional individual members





#### Data quality

- Understand
- Improve
- Secure



#### Data quality

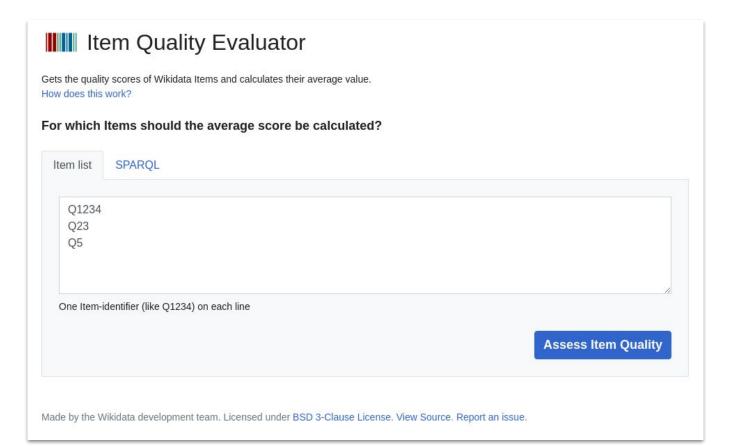
- Understand
  - Improved ORES quality scoring for Items
  - Measuring constraint violations
  - Ontology issues research
  - Data Quality Days
- Improve
- Secure



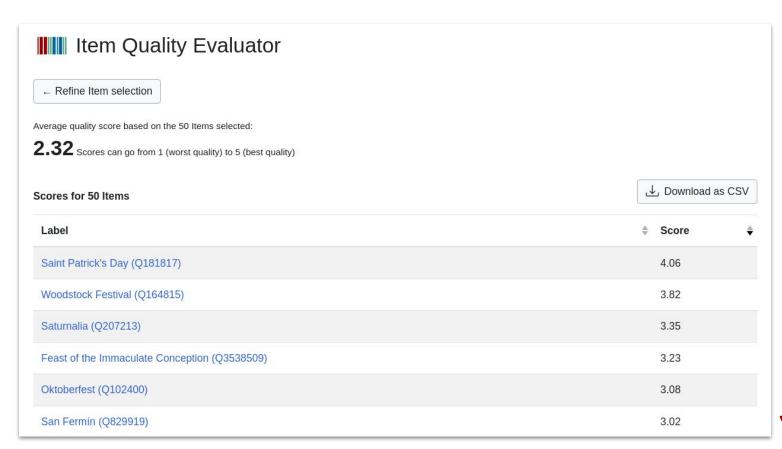
#### Data quality

- Understand
- Improve
  - Item Quality Evaluator
  - Curious Facts
  - Better watchlist and recent changes integration on Wikipedia and co
- Secure
  - Properties and highly-used
    Items are now semi-protected
  - More comparison categories











#### FOR REAL, WIKIDATA..?

#### **Curious Facts**

The world is weird. Wikidata describes that weird world. Wikidata also sometimes makes mistakes. Let's find out which is which together! Here are a bunch of statements from Wikidata that are potentially weird. Have a look. Is it true? Cool, you learned something new about the world! Is it false? Can you go and fix Wikidata? <3 (If you don't know how, let us know on the [Project chat].)



Talal bin Abdulaziz Al Saud has a Statement "spouse: Mona Al Solh" but Mona Al Solh is not found in the class "human".

This fact was established on: 2021-06-10 05:05:11, and is based on the 2021-05-31 snapshot in hdfs of the Wikidata JSON dump. Edits made after that date are not taken into account.



Give me some new weird stuff!



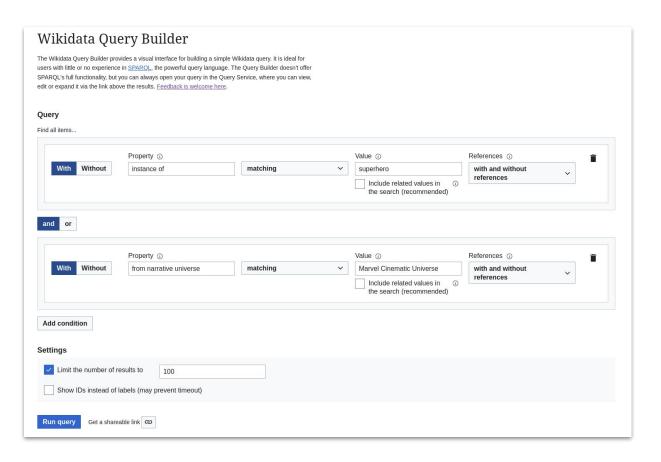
https://wikidata-analytics.wm cloud.org/app/CuriousFacts



#### Query Service

- Scaling
  - New updater
  - Research to understand
    content composition better
  - Survey to understand your priorities
- Smaller improvements
  - Titles for queries!





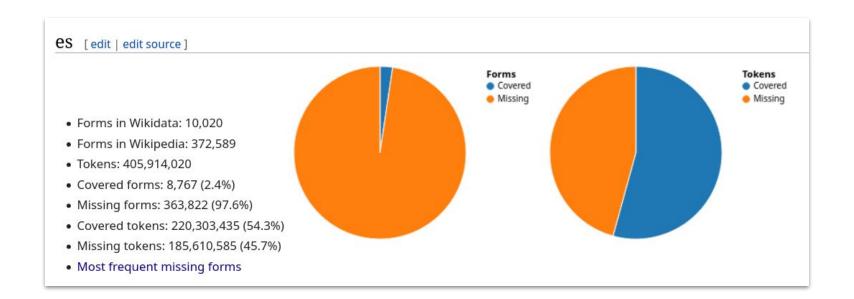
https://query.wikidata.org/querybuilder



# Lexicographic al data

- Abstract Wikipedia the new kid on the block
- 30 Lexic-o-days
- Focus languages
  - Hausa, Igbo, Dagbani,
    Malayalam, Bengali

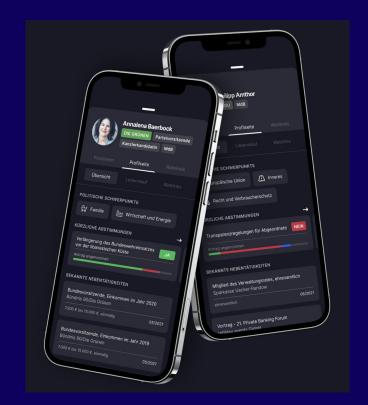




Wikidata:Lexicographical\_coverage

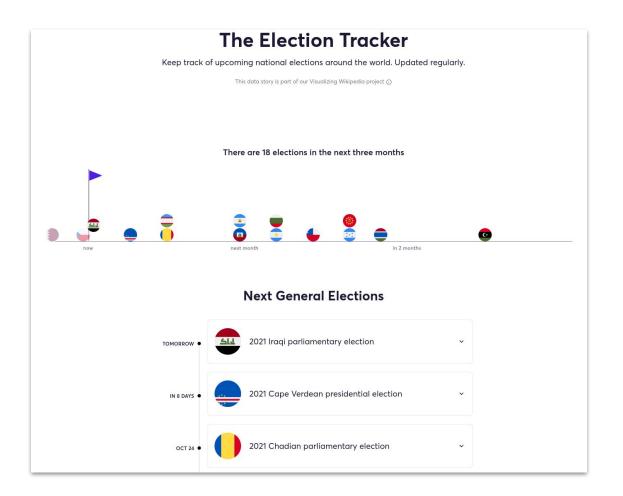


What are people building?



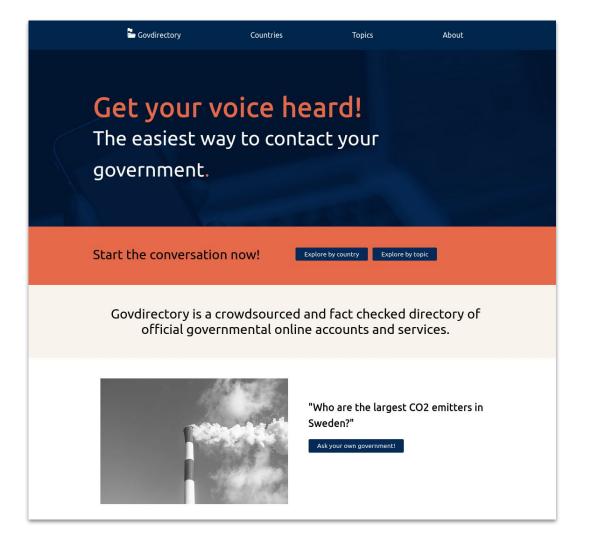
https://facethefacts.app





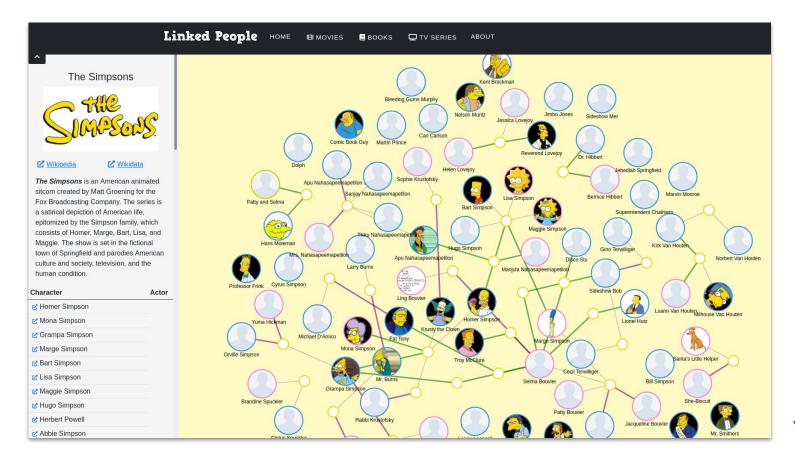
https://www.datastory.org/services/election-tracker





https://govdirectory.org



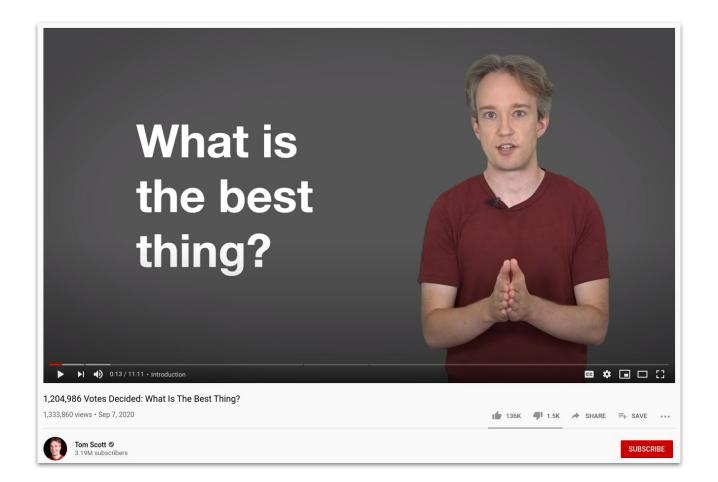






https://hicsuntleones.nl







#### Release Strategy & Infrastucture

- Users wanted predictability in releases & clearer instructions for upgrading
- Established 6-month release cycle
- Built deployment pipeline & processes for releasing
  Wikibase Suite



# Improved Documentation

- To support releases going forward, we published:
  - New installation instructions
  - New updating instructions (for Docker release)
- Each release accompanied by detailed release notes



#### Wikibase Spring Release

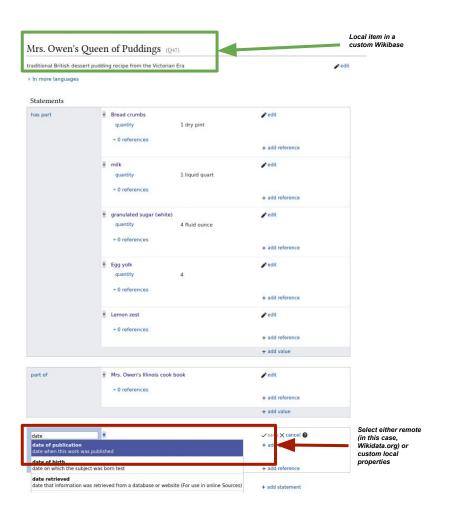
- May release included 3 new features:
  - Federated Properties,
    WikibaseManifest, and
    Wikibase Pingback
- New Docker bundle included even more helpful extensions and tools



#### Federated Properties

- We are working on enabling deeper connections between Wikibases so they can share content (e.g. entities) and ontologies
- Wikidata plays an especially important role here





We continued working on the **Federated Properties (v2)** feature which will make it possible for a Wikibase project to enhance its local ontology with remote properties from another Wikibase (especially Wikidata).

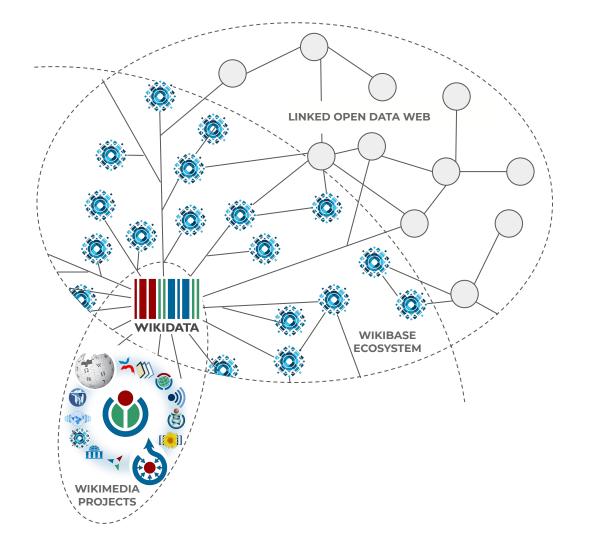




# What do we work towards?

- A thriving Linked Open Data Web
- Wikidata and network of
   Wikibase where communities
   can co-create a high-quality and
   diverse global knowledge graph
- We together create the standards and define how the world's knowledge is organized
- People, companies and institutions generate new insights and build new apps and services that change the world for the better

future for Wikidata





### What is important for Wikidata?

#### Wikidata community

creates and maintains content



#### Re-users



### What is changing for Wikidata?

- Data quality is becoming more crucial and the pressure continues to rise
- More contributions will come from outside wikidata.org
- The Wikibase Ecosystem is growing



### What should we focus on now?

- Empowering editors to increase data quality
- Equity in decision making
- Increasing re-use for impact
- Knowledge of and about underrepresented languages



# Empowering editors to increase data quality

- We want to ensure that the content on Wikidata is of high quality for anyone who re-uses our data.
- We must ensure that the socio-technical system we have is set up in a way that helps editors increase the quality of Wikidata's existing data and contribute high-quality new data

future for Wikidata

### Equity in decision making

 We want to ensure that a diverse set of voices are heard when fundamental decisions are made on and about Wikidata to give more people a voice.



## Increasing re-use for impact

- We want more people to benefit from the data Wikidata provides.
- Our data is available for anyone to re-use. We want to especially support projects that are aligned with our mission and values and/or that give back to Wikidata.

future for Wikidata

# Knowledge of and about underrepresent ed languages

 More people should have access to knowledge and technology in their language. Data in their language is a fundamental building block for that.



### What's important for Wikibase?

 To grow and thrive, Wikibase should be supported by a holistic ecosystem that includes diverse and interconnected knowledge hubs, a community of extension and tool developers, and more.



### What should we focus on now?

- Improving onboarding into the Wikibase Ecosystem
- Enabling more extension and tool building
- Interconnections between Wikibases



### Improving onboarding into the Ecosystem

- We want to ensure that more projects can independently onboard themselves into the Wikibase Ecosystem by reducing the complexity of software setup, data importing, & maintenance.
- This should make it possible for less-resourced projects to engage with Wikibase.



## Enabling more extension and tool building

We need to ensure a healthy ecosystem of extensions as well as tools/custom interfaces based on WB APIs can develop around Wikibase, extending the functionality of the software for more use cases.



#### Interconnections between Wikibases

 We want to ensure Wikibases can connect with one another and Wikidata to form a linked open data web more powerful than the sum of its parts.







Mattia\_Capozzi\_WMDE Log out

#### Mismatch Finder

← Refine Items Selection

#### What should I do with the mismatches?

You can fix them! The table below presents you with links to the statement on Wikidata and to the entry on the external source. You can compare the values and manually fix the mismatch, editing Wikidata or the external data source. After investigating and fixing the mismatch, you can indicate their status using the options from the drop-down. Read more

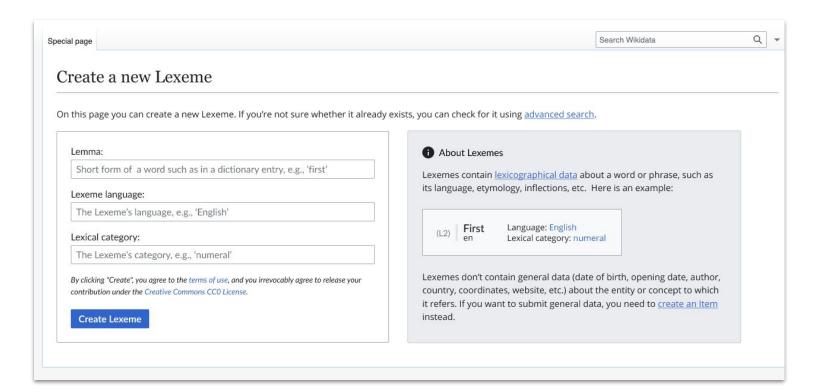
#### Jane Goodall (Q184746)

Property	Value on Wikidata	Value on external source	External Source	Status		Upload Info
Date of birth	4 September 1990	3 April 1914	VIAF	To be defined	<b>v</b>	WikiMacaroons 20.04.2021 Batch_Upload_1
Place of birth	Hampstead, UK	Sicily, Italy	BnF Authorities	To be defined	<b>v</b>	ToBeFree 11.06.2021 Upload_final
Sex or gender	female	male	VIAF	To be defined	<b>v</b>	Llywrch 29.01.2021 Upload_12
Language Spoken	English	Japanese	Who's Who	To be defined	~	Fjjulien 01.11.2020 Batch_Upload_190

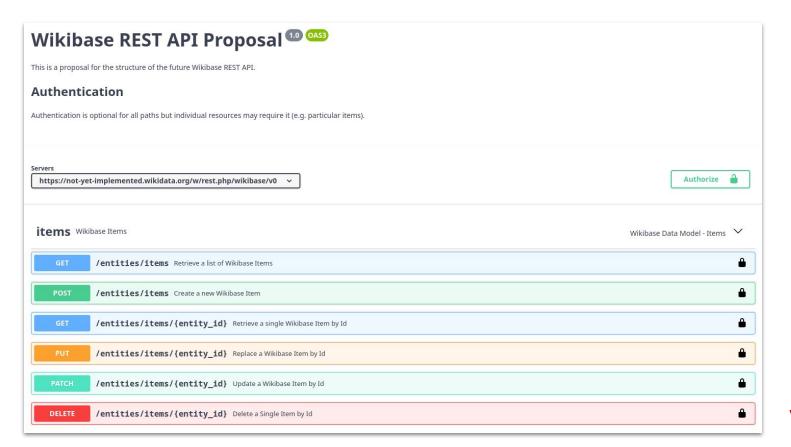
Apply changes

Wikidata: Mismatch Finder

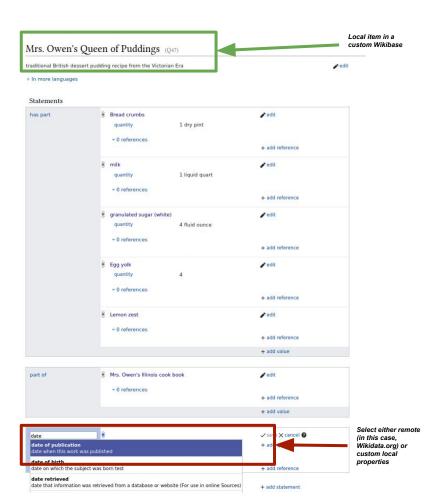












We will be conducting user testing of an experimental version of Federated Properties v2 to gather feedback and ensure proper user experience and functionality with core extensions/tools.



#### Wikibase.Cloud

(Beta)







A Holistic Wikibase Ecosystem

- We will engage directly with institutions, users, and developers in the ecosystem to find out what their needs, ideas, and plans are for extensions and tools built on Wikibase
- Our first requirements
   gathering session will happen
   during the WikidataCon
   Wikibase track

"Our admiration for Wikidata and for the people who work with it knows no bounds.

Having a single source of well modelled, massively interlinked, well managed data that anyone can query at the press of a button is a real thing of wonder."

-- UK Parliament data team



"A lot of [research] projects get built, and often they disappear. There's all that work and data, and it just goes away. So that's also what we asked ourselves: how can we do this in a stable way that can go forward?

And that is – for us – one of the most exciting things about working with Wikibase. Wikibase has a sustainable community with a lot of people working together."

-- Dean Rehberger, Enslaved.org





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