

WikiBase (+ Wikibase Cloud)

What is WikiBase?

Bullet points

- Wikibase is a free and open-source software suite
- Enables creation and management of open knowledge bases
- Maintained by Wikimedia Deutschland and a global community
- Suitable for institutions and research projects needing structured data

How big is Wikidata?

More than 114,000,000 items created and managed by community effort

Who edits Wikidata?

There are currently 24,526 active users

Wikibase Examples

↳ Libraries

↳ Research

↳ Science

↳ Collections



Rhizome Artbase



German National Library



Enslaved.org

Figure 1: Wikibase Examples

WikiBase Infrastructure

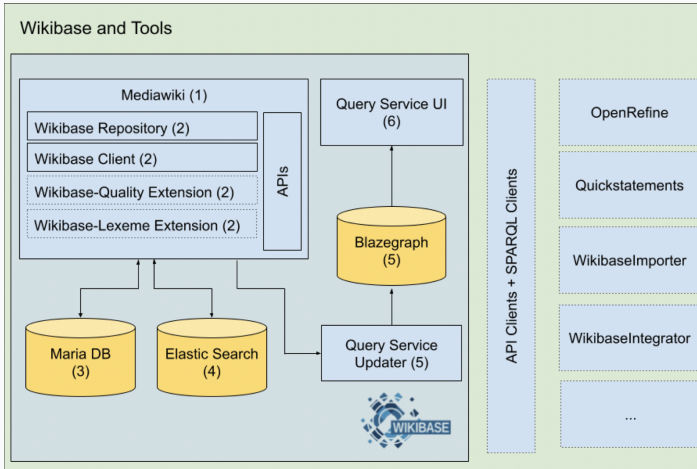


Figure 2: Wikibase Structure

Data Modeling

- Modeling is a series of choices about how to organize your data, and those choices look different based on data
- Changing models may require significant data restructuring
- In Wikibase, you'll need to think of your data in terms of the concepts Wikibase uses to store data: **items**, **properties**, **statements**, and so forth.

The screenshot shows a Wikibase item page for 'Jimmy Wales' (Q181). At the top, there are tabs for 'Item', 'Discussion', 'Read', 'View history', and a star icon. The main heading is 'Jimmy Wales (Q181)' with a lock icon to its right. Below the heading is a description: 'Wikipedia co-founder and American Internet entrepreneur', followed by a list of aliases: 'Jimbo Wales | Jimmy Donal Wales | Jimbo | Jimmy Donal "Jimbo" Wales | Jimmy "Jimbo" Wales'. To the right of the description is an 'edit' link with a pencil icon. Below the description is a section titled 'Statements'. Inside this section, there is a table with one row. The first column of the row is 'instance of', which is underlined in red. The second column is 'human', also underlined in red. To the right of 'human' is an 'edit' link with a pencil icon. Below the table, there is a link '1 reference' with a blue arrow. At the bottom of the statements section is a link '+ add value'.

Item [Discussion](#) [Read](#) [View history](#) ☆

Jimmy Wales (Q181)

Wikipedia co-founder and American Internet entrepreneur  [edit](#)

Jimbo Wales | Jimmy Donal Wales | Jimbo | Jimmy Donal "Jimbo" Wales
| Jimmy "Jimbo" Wales

Statements

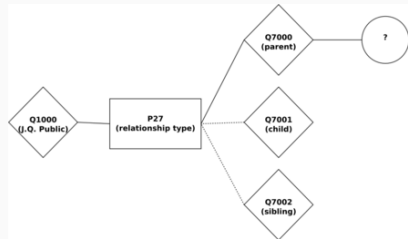
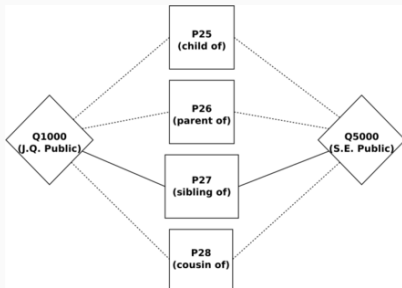
<u>instance of</u>	 <u>human</u>  edit
--------------------	---

▶ [1 reference](#)

[+ add value](#)

Different Modeling Options

More properties, or more items?



- **Need to import a large amount of data**
 - **OpenRefine** is for transforming and reconciling data for import
 - **WikibaseIntegrator** is a good choice if you know Python and want to automate data import
- **Need to keep external data in sync with Wikibase**
 - **OpenRefine** connects to various data stores, allowing for ongoing reconciliation with Wikibase
- **Want to input data manually with structured fields**
 - **Cradle** Ensures all required fields are filled when entering data manually
- **Need to import data from a flat text file**
 - **QuickStatements** accepts batch data in command formats (v1, CSV)

- **OpenRefine** - a data-wrangling tool that connects to Wikibase and other databases. It allows transformation and mapping for import and ongoing reconciliation
- **WikibaseIntegrator** is a python library for automated data import. It is useful for creating bots to handle large imports with minimal intervention
- **Cradle** is useful for Wikibase administrators who wish to allow creation of lots of items manually, all of which need to conform to a particular schema.


Tool Overviews

- **QuickStatements** supports v1 command format and CSV format. Accessible via QuickStatements interface in Wikibase

qid,Len,Den,P2650
,Doctor Worm,1998 song performed by They Might Be Giants,Q128309

QuickStatements

English



New batch

Chat

Git

Help

Create new command batch for

▼

 as

CREATE

LAST Len Doctor Worm

LAST Den an actual worm

LAST P2650 Q128309

Import V1 commands

Import CSV commands

Wikibase Documentation and Creating a Wikibase

<https://www.wikibase.cloud/>

Within Wikibase.cloud website you can register for creating Wikibases and find the documentation about data modelling, creating and deleting data, importing data, and many other things.

Managing data

To start, learn more about [data modeling](#), [creating and deleting](#) data and how to [import](#) your own data into Wikibase. Learn from how others model their data by exploring live, public Wikibases using [Wikibase Cloud's discovery tool](#).

Next, delve into [federation](#) to connect to data in other Wikibases. You can learn more about the [query service](#), which uses [SPARQL](#).

Administration

You can't have Wikibase without MediaWiki. Take your [first steps](#) into Wikibase. Learn how to manage MediaWiki's [user permissions](#) and create an [imprint](#) if your Wikibase is hosted in Germany, as Wikibase Cloud is.

Customizing Wikibase Suite

Learn how to [maintain](#) and [extend](#) your self-hosted Wikibase Docker installation, and delve into [advanced configuration](#) options.

Wikibase community

Join the [community](#), where you can get answers to any questions the [FAQ](#) doesn't cover. Browse through a [community-built directory](#) of Wikibases, or dive into a collection of [every Wikibase Cloud instance](#) to learn how others have solved problems like yours.

Building the code

Take a look under the hood at our developer [documentation](#) and [topics](#), or learn how to make your own [extensions](#) for MediaWiki.

Reference

First, get your [terms](#) straight. Then peruse the [MediaWiki manual](#) or dive deep into using the [query service](#) and [running it](#). Know your [LocalSettings.php](#) options. Not for the faint of heart: the [Wikibase data model primer](#).

Your Wikibases

Finance in EU

[CREATE NEW WIKI](#)

1 of 5 Wikis used

Welcome to wikibase.cloud

You can create and manage wikis from this central dashboard.

Check out our [cloud service documentation](#) as well as general documentation on [Wikibase](#).

Choosing the name and the domain

Create a Wiki

Site Name ⓘ

T E.g., Goat Collective

Site Domain ⓘ

☒ Free Subdomain ☐ Custom Domain

🌐 E.g. goat-collective .wikibase.cloud

Your User ⓘ

👤 E.g., Addshore

Terms of Use

☐ I agree to the [Terms of Use](#).

CREATE WIKI

Wikibase settings

WIKI SETTINGSFEATURES

Details

Please check your email for your log in details.
Status: Published
Site Name: wass
URL: [https://wikibase.wikimedia.org](#)
Date Created: 2024-11-04T23:06:45.000000Z
Database Version: mw1.39-wb1

Set Skin

🔍 Skin

The default skin is Vector

SET SKIN

Set Logo

📁 Logo

Upload a square PNG logo that is at least 100x100 pixels

SET LOGO

Additional Spam Protection

CloudCaptcha offers an extra layer of protection against spam accounts. During account creation, users will have to answer a question, which can be defined in settings. For more information on CloudCaptcha, please visit the documentation page

☐ Activate spam protection

SETTINGS

Registration Options

Disable direct account creation and require the approval of new accounts by a site [administrator](#)
This is governed by the [ConfirmAccount](#) extension.

☐ Accounts must be requested

Wikibase Options

Value length
Longer than default lengths (which are used on Wikidata) is generally untested and might have some unexpected outcomes.
The default values for both of these fields is 400 characters. The maximum you can set here is 2500
String
400
Mondling text
400
Mondling (term) length
Longer than default lengths (which are used on Wikidata) is generally untested and might have some unexpected outcomes.
The default values for this field is 250 characters. The maximum you can set here is 2500
Mondling labels, descriptions and urls
250
SET OPTIONS

Import base entities

📘 MORE INFO

You can import a curated subset of terms and properties to help you get started with your Wikibase instance.

IMPORT ENTITIES

13

Wikibase homepage

https://finance-eu.wikibase.cloud/wiki/Main_Page

Main Page

[Main Page](#) [Discussion](#) [View source](#) [View history](#)

- What links here
- Related changes
- Special pages
- Printable version
- Permanent link
- Page information

Search

Search Finance in EU

Go Search

Tools

- What links here
- Related changes
- Special pages
- Printable version
- Permanent link
- Page information

Wikibase

- New Items
- New Property
- New Schema
- All Properties
- Query Service
- Credits
- QuickStatements

In other languages

Welcome to Wikibase Cloud!

This is your main page. For the start we have assembled some information for you that we think might be useful. This page is supposed to work for you. Feel free to change it to whatever you would like it to be. You can always copy its content to another place or just remove it entirely whenever you're ready.

We'd also be happy to hear if this page was helpful for you and/or what we could improve via our [contact form](#). Thank!

Where to start

Have a look at some possible first steps. You could take after creating your new Wikibase.

What do I need to know about how Wikibase works?

Wikibase ecosystem

There are many Wikibases in the ecosystem. The community around Wikibase includes Wikibase users, partners, volunteer developers and tool builders, forming the vibrant and diverse Wikibase Ecosystem. In this ecosystem, we imagine that one day all the Wikibase instances will be connected between themselves and back to Wikidata.

How is information structured?

Data is stored in Wikibase in the shape of items. Each item is accorded its own page. Items are used to represent all the things in human knowledge, including topics, concepts, and objects. For example, the "1988 Summer Olympics", "Toni", "Elvis Presley", and "gorilla" can all be items. Items are made up of statements that describe detailed characteristics of an item. A statement (graph format: Subject-Predicate-Object) is how the information we know about an item - the data we have about it - gets recorded in your Wikibase instance. This happens by pairing a property with at least one value; this pair is at the heart of a statement. Statements also serve to connect items to each other, resulting in a linked data structure.

Check out this visualization of the linked data structure.

The property in a statement describes the data value, and can be thought of as a category of data like "color", "population", or "Commons media" (Bios hosted on Wikimedia Commons). The value in the statement is the actual piece of data that describes the item. Each property has a data type which defines the kind of values allowed in statements with that property. For example, the property "date of birth" will only accept data in the format of a date.

Check out this visualization of the structure of an item.

Example: In order to record information about the occupation of Marie Curie, you would need to add a statement to the item for Marie Curie (Q21106). Using the property, occupation (P106), you could then add the value physicist (Q2169478). You could also add the value chemist (Q593644). Note how both chemist and physicist are each their own item, thereby allowing Marie Curie to be linked to those items.

How to create items + properties + (what is a good property)

Create a new item with Special:NewItem on the menu to the left. You will be taken to a page that asks you to give the new item a label and a description. When you're done, click "Create".

Create the property with Special:NewProp. Property entities can be edited like item entities with labels, descriptions, aliases, and statements. Property labels should be as unambiguous as possible so that it is clear to a user which property is the correct one to use when editing items and adding statements. Properties rarely refer to commonly known concepts but they are more constructs of the Wikidata with specific meanings. Unlike items, property labels must be unique. Property descriptions are less relevant for disambiguation but they should provide enough information about the scope and context of the property so that users understand appropriate usage of the property without having to consult additional help. Property aliases should include all alternative ways of referring to the property.

Example: property: P161 label: cast member description: actor performs live for a camera or audience aliases: film starring; actor; actress starring