

Setting up your own Wikibase reconciliation service (e.g. for OpenRefine)



OpenRefine

PLACE OF REVOLUTION
AND RECONCILIATION

Olaf Janssen

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[@ookgezellig](#)

[Zenodo](#)

[CC-BY-SA 4.0](#)



KB } national library
of the netherlands

Wikibase Working Hours

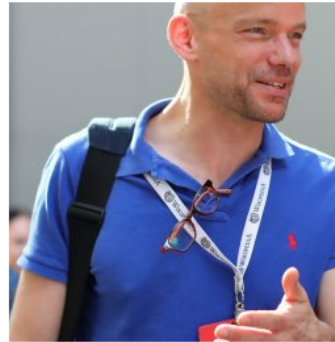
Online, Tuesday 7 November 2023

KB } national library
of the netherlands

Who am I?

Olaf Janssen

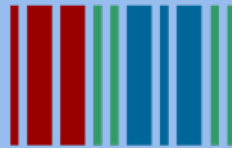
Olaf Janssen is open data & Wikimedia coordinator at the KB. He initiates, stimulates and facilitates collaboration between the collections, knowledge, open data and employees of the KB on the one hand and the projects of the Wikimedia movement on the other. Consider, for example, Wikipedia, Wikimedia Commons, Wikidata and Wikibase and the communities that belong to them. Olaf fulfills a national advisory role for other organizations in the field of heritage and knowledge. He is also active as a volunteer within the Wikimedia movement.



WIKIPEDIA



WIKIMEDIA
COMMONS



WIKIDATA



WIKIBASE



OpenRefine

Contact

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- LinkedIn: [Olaf Janssen](#)

Expertises

- Wikipedia
- Wikimedia
- Wikidata
- Wikibase
- bibliotheken

Netwerk en samenwerking

- [Wikimedia-netwerk](#) (Wikipedia, Wikimedia Commons en Wikidata communities)
- [Vereniging Wikimedia Nederland](#)

<https://www.kb.nl/over-ons/experts/olaf-janssen>

What I want to give you

1. Understanding how to set up a reconciliation service for your Wikibase

2. Understanding how to use it in an OpenRefine context

3. Provide step by step visual documentation




OpenRefine



OK, let's start with
OpenRefine & Wikidata...

Reconciliation of person names against Wikidata using OR

 **OpenRefine** clipboard [Permalink](#)


Facet / Filter [Undo / Redo](#) 127 / 127

44 rows [Schema](#) [Issues](#) [Preview](#)

Show as: **rows** records Show: 5 10 **25** 50 100

▼ All ▼ Jaar ▼ PrijsWinnaar

☆	🗨	1.	2013	Eveline Hagenbeek
☆	🗨	2.	2000	Paul Lochtenberg
☆	🗨	3.	1998	Luc van Brussel
☆	🗨	4.	1994	Bob vanden Eynde
☆	🗨	5.	1984	Herman Lutgerink
☆	🗨	6.	1982	Ruud van Gessel
☆	🗨	7.	1982	Jan Koonings
☆	🗨	8.	1980	Michel Desmyter
☆	🗨	9.	1978	Toos Staalman
☆	🗨	10.	1978	Paul Vanbossuyt
☆	🗨	11.	1978	Herman van Winsen
☆	🗨	12.	1976	Frits Enk
☆	🗨	13.	1976	W.J. Jansen
☆	🗨	14.	1976	Nel Bakker
☆	🗨	15.	1976	Yonne Dillen
☆	🗨	16.	1976	Gaston Gheuens
☆	🗨	17.	1976	H.A. Voet
☆	🗨	18.	1975	Johan Breedveld
☆	🗨	19.	1975	Rudolf Bruyn
☆	🗨	20.	1975	Toos Staalman
☆	🗨	21.	1974	R.B. Barkman
☆	🗨	22.	1974	Michel Desmyter
☆	🗨	23.	1974	Per Justesen
☆	🗨	24.	1973	Wim Bischoot
☆	🗨	25.	1971	Achilles Gautier


Using facets and filters 

Use facets and filters to select subsets of your data to act on. Choose facet and filter methods from the menus at the top of each data column.

Not sure how to get started?
[Watch these screencasts](#)

Winners of a
Dutch literary award

Reconciliation of person names against Wikidata using OR

 **OpenRefine** clipboard [Permalink](#)

Facet / Filter Undo / Redo 127 / 127

44 rows Schema Issues Preview

Show as: rows records Show: 5 10 25 50 100

▼ All ▼ Jaar ▼ PrijsWinnaar

☆	🗨	1.	2013	Eveline Hagenbeek
☆	🗨	2.	2000	Paul Lochtenberg
☆	🗨	3.	1998	Luc van Brussel
☆	🗨	4.	1994	Bob vanden Eynde
☆	🗨	5.	1984	Herman Lutgerink
☆	🗨	6.	1982	Ruud van Gessel
☆	🗨	7.	1982	Jan Koonings
☆	🗨	8.	1980	Michel Desmyter
☆	🗨	9.	1978	Toos Staalman
☆	🗨	10.	1978	Paul Vanbossuyt
☆	🗨	11.	1978	Herman van Winsen
☆	🗨	12.	1976	Frits Enk
☆	🗨	13.	1976	W.J. Jansen
☆	🗨	14.	1976	Nel Bakker
☆	🗨	15.	1976	Yonne Dillen
☆	🗨	16.	1976	Gaston Gheuens
☆	🗨	17.	1976	H.A. Voet
☆	🗨	18.	1975	Johan Breedveld
☆	🗨	19.	1975	Rudolf Bruyn
☆	🗨	20.	1975	Toos Staalman
☆	🗨	21.	1974	R.B. Barkman
☆	🗨	22.	1974	Michel Desmyter
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Using facets and filters

Use facets and filters to select subsets of your data to act on. Choose facet and filter methods from the menus at the top of each data column.

Not sure how to get started?
[Watch these screencasts](#)

Reconciliation

For these person names (*strings*) we want to look up the corresponding Wikidata Q-items (*things*)

Reconciliation of person names against Wikidata using OpenRefine

44 rows Schema Issues Preview

Show as: **rows** records Show: 5 10 **25** 50 100 500 1000 rows

Facet / Filter

Using facets and filters of your data to analyze and filter methods at the top of each column.

Not sure how to get started? Watch these screencasts.

All Jaar **Prijswinnaar**

- Facet ▶
- Text filter
- Edit cells ▶
- Edit column ▶
- Transpose ▶
- Sort...
- View ▶
- Reconcile ▶**
 - Start reconciling...**
 - Facets ▶
 - Actions ▶
 - Copy reconciliation data...
 - Use values as identifiers...
 - Add entity identifiers column...

★	🗨	1.	2013	
★	🗨	2.	2000	
★	🗨	3.	1998	
★	🗨	4.	1994	
★	🗨	5.	1984	
★	🗨	6.	1982	
★	🗨	7.	1982	
★	🗨	8.	1980	
★	🗨	9.	1978	
★	🗨	10.	1978	
★	🗨	11.	1978	Herman van Winsen
★	🗨	12.	1976	Frits Enk
★	🗨	13.	1976	W.J. Jansen
★	🗨	14.	1976	Nel Bakker
★	🗨	15.	1976	Yonne Dillen
★	🗨	16.	1976	Gaston Gheuens
★	🗨	17.	1976	H.A. Voet
★	🗨	18.	1975	Johan Breedveld
★	🗨	19.	1975	Rudolf Bruyn
★	🗨	20.	1975	Toos Staalman
★	🗨	21.	1974	R.B. Barkman
★	🗨	22.	1974	Michel Desmyter
★	🗨	23.	1974	Per Justesen
★	🗨	24.	1973	Wim Bischof
★	🗨	25.	1971	Achilles Gautier

44 rows

Schema

Issues

Preview

Reconcile column "PrijsWinnaar"

Services

Nederlandse Thesaurus van
Auteursnamen

RKDartists

VIAF

Wikidata reconci.link (en)

Wikidata reconci.link (nl)

Wikimedia Commons (en)

Pick a service or extension on left

Use the
Wikidata reconciliation service
(English or Dutch)

Add standard service...

Discover services...

Start reconciling...

Cancel

44 rows

Schema

Issues

Preview

Reconcile column "PrijsWinnaar"

[Access service API](#)

Reconcile each cell to an entity of one of these types:

- mens
Q5
- wetenschappelijk artikel
Q13442814
- gilde van Brussel
Q111525228
- sculptuur
Q860861
- Sint-Lucasgilde
Q1110992

Human

Also use relevant details from other columns:

Column Include? As property

Jaar

Reconcile against type:

Reconcile against no particular type

Auto-match candidates with high confidence

Maximum number of candidates to return

Add standard service...

Discover services...

Start reconciling...

Cancel

Reconcile column "PrijsWinnaar"

[Access service API](#)

Reconcile each cell to an entity of one of these types:

Also use relevant details from other columns:

mens

Column Include? As property

Reconcile cells in column PrijsWinnaar to type Q5
57% complete [Cancel](#)

Show as: **rows** records Show: 5 10 **25** 50 100 500 1000 rows

All Jaar PrijsWinnaar

<input type="checkbox"/>	<input type="checkbox"/>	1.	2013	Eveline Hagenbeek
<input type="checkbox"/>	<input type="checkbox"/>	2.	2000	Paul Lochtenberg
<input type="checkbox"/>	<input type="checkbox"/>	3.	1998	Luc van Brussel

Reconcile against type:

Reconcile against no particular type

Auto-match candidates with high confidence

Maximum number of candidates to return

[Add standard service...](#)

[Discover services...](#)

[Start reconciling...](#)

[Cancel](#)

44 rows Schema Issues Preview

Show as: **rows** records Show: 5 10 **25** 50 100 500 1000 rows

All
 Jaar
 PrijsWinnaar

<input type="checkbox"/>	<input type="checkbox"/>	1.	2013	Eveline Hagenbeek Choose new match
<input type="checkbox"/>	<input type="checkbox"/>	2.	2000	Paul Lochtenberg Choose new match
<input type="checkbox"/>	<input type="checkbox"/>	3.	1998	Luc van Brussel Choose new match
<input type="checkbox"/>	<input type="checkbox"/>	4.	1994	Bob vanden Eynde Choose new match
<input type="checkbox"/>	<input type="checkbox"/>	5.	1984	Herman Lutgerink Choose new match
<input type="checkbox"/>	<input type="checkbox"/>	6.	1982	Ruud van Gessel <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Ruud van G <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Ruud van G <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Create new ite Search for match
<input type="checkbox"/>	<input type="checkbox"/>	7.	1982	Jan Koonings Choose new match
<input type="checkbox"/>	<input type="checkbox"/>	8.	1980	Michel Desmyter Choose new match
<input type="checkbox"/>	<input type="checkbox"/>	9.	1978	Toos Staalman Choose new match
<input type="checkbox"/>	<input type="checkbox"/>	10.	1978	Paul Vanbossuyt Choose new match
<input type="checkbox"/>	<input type="checkbox"/>	11.	1978	Herman van Winsen Choose new match
<input type="checkbox"/>	<input type="checkbox"/>	12.	1976	Frits Enk Choose new match
<input type="checkbox"/>	<input type="checkbox"/>	13.	1976	W.J. Jansen <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> W.J. Jansen (100)

Reconciled Wikidata items for (most) winners

Add standard service...

Discover services...

Start reconciling...

Cancel



OpenRefine














Let's look at the
Wikidata reconciliation service
in a bit more detail

Overview of reconciliation services for OpenRefine

Reconciliation service test bench

Services [Test bench](#)

This table lists reconciliation services known to [Wikidata](#) and indicates which features of the [reconciliation API](#) they support. See also our [census](#) which lists client and server software. If you are viewing this app over HTTPS it is likely that reconciliation services using HTTP are blocked as "mixed content". You can disable this protection in your browser to load HTTP services. Due to a [security risk inherent to JSONP](#), only endpoints supporting [CORS](#) are loaded by default. You can click the  button in each row to attempt to load the service via [JSONP](#). Note that not all reconciliation services listed here, you can also [load all endpoints via JSONP](#).

Name	Endpoint
Wikidata	 https://wikidata.reconci.link/en/api
WikiCite (docs)	 https://wikicite-search.herokuapp.com/api/reconciliation
Weill Cornell Medicine VIVO (docs)	 https://vivo.med.cornell.edu/reconcile
Streets in Gouda (docs)	 https://termennetwerk-api.netwerkdigitaalergoed.nl/reconcile/https://www.goudatijdmachine.nl/id/straten%23streets
Adamlink Reference Data - Streets (docs)	 https://termennetwerk-api.netwerkdigitaalergoed.nl/reconcile/https://druid.datalegend.net/AdamNet/Geography/sparql%23streets
GeoNames - subset of names in the Netherlands and Belgium (docs)	 https://termennetwerk-api.netwerkdigitaalergoed.nl/reconcile/https://demo.netwerkdigitaalergoed.nl/geonames
WW2 Thesaurus (docs)	 https://termennetwerk-api.netwerkdigitaalergoed.nl/reconcile/https://data.niod.nl/PoolParty/sparql/WO2_Thesaurus
RKDartists (docs)	 https://termennetwerk-api.netwerkdigitaalergoed.nl/reconcile/https://data.netwerkdigitaalergoed.nl/rkd/rkdartists/sparql
Thesaurus of World Cultures (docs)	 https://termennetwerk-api.netwerkdigitaalergoed.nl/reconcile/https://data.netwerkdigitaalergoed.nl/NMVW/thesaurus/sparql
Muziekweb: persons and groups (docs)	 https://termennetwerk-api.netwerkdigitaalergoed.nl/reconcile/https://data.muziekweb.nl/MuziekwebOrganization/Muziekweb

Wikidata

<https://reconciliation-api.github.io/testbench/#/>

Reconciliation service for Wikidata (end user documentation)

Wikidata reconciliation for OpenRefine

This web service can be used to align datasets to Wikidata items in OpenRefine.

Use the following URL in OpenRefine: <https://wikidata.reconci.link/en/api>.

Replacing "en" by another language code will display items and properties in your language, when they are available.

This interface works with OpenRefine from 2.6 rc2 onwards. It is not compatible with Google Refine.

- [Documentation of the protocol](#)
- [Documentation of this application for developers and Wikibase admins](#)
- [Source](#)
- [Bug tracker](#)
- [Service status](#)

Tutorials for OpenRefine users

- [Official documentation in English](#)
- [Official documentation in Japanese](#) by 山本 泰智
- [Tutorial by Antoine Courtin](#) (in French)
- [Comparison of reconciliation services for OpenRefine](#) by Aaron Tay (in English)
- [Using OpenRefine to Reconcile Name Entities](#) by Karen H. (in English)
- [Reconciling in OpenRefine - eine Einführung von histHub](#) (in German)

Videos

- [Reconciliation in OpenRefine](#), screencast by Owen Stephens (in English, 24:06)
- [OpenRefine demo at WikidataCon 2017](#), live demo by Arthur P. Smith (in English, 19:52)
- [Exemple de réconciliation et d'enrichissement avec Wikidata](#) (silent screencast, 3:27) by Ettore Rizza
- [Wikidata editing with OpenRefine](#), screencast by Antonin Delpeuch (in English, 3 videos of 5 minutes each)

Documentation

Contents:

- [Reconciling via unique identifiers](#)
- [Property paths](#)
- [Special properties](#)
- [Subfields](#)

Reconciling via unique identifiers

If a unique identifier is supplied in an additional property, then reconciliation candidates will first be searched for using the unique identifier.

If you only have unique identifiers and no names for the entities you want to reconcile, you can therefore supply a fake column of names.

Property paths

<https://wikidata.reconci.link>

Protocol specifications



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- 1.2 History of the Reconciliation API
- 1.3 External Resources
- 1.4 Versions
 - 1.4.1 0.1
 - 1.4.2 0.2 (This Version)
- 1.5 Conformance

2. Core Concepts

- 2.1 Entities
- 2.2 Types
- 2.3 Properties
- 2.4 Property Values
- 2.5 Identifier and Schema Spaces

3. Service Definition

- 3.1 Service Manifest
- 3.2 HTTP(S) Access
- 3.3 Cross-Origin Access
- 3.4 Error Handling and Rate-limiting
- 3.5 Authentication

4. Reconciliation Queries

- 4.1 Structure of a Reconciliation Query
- 4.2 Reconciliation Query Responses

Reconciliation Service API v0.2

A protocol for data matching on the Web

Final Community Group Report 10 April 2023

This version:

<https://www.w3.org/community/reports/reconciliation/CG-FINAL-specs-0.2-20230410/>

Latest published version:

<https://www.w3.org/community/reports/reconciliation/CG-FINAL-specs-0.2-20230410/>

Latest editor's draft:

<https://reconciliation-api.github.io/specs/draft/>

Editors:

[Antonin Delpeuch](#) (University of Oxford)
[Adrian Pohl](#) (Hochschulbibliothekszenrum NRW)
[Fabian Steeg](#) (Hochschulbibliothekszenrum NRW)
[Thad Guidry Sr.](#)
[Osma Suominen](#) (National Library of Finland)

Feedback:

[GitHub reconciliation-api/specs](#) (pull requests, new issue, open issues)
public-reconciliation@w3.org with subject line [specs-0.2] ... message topic ... ([archives](#))

[Copyright](#) © 2023 the Contributors to the Reconciliation Service API v0.2 Specification, published by the [Entity Reconciliation Community Group](#) under the [W3C Community Final Specification Agreement \(FSA\)](#). A human-readable [summary](#) is available.

Abstract

This document describes the reconciliation service API, a protocol edited by the [W3C Entity Reconciliation Community Group](#). It is intended as a comprehensive and definitive specification of this API in its given state. Various aspects of this API need to be improved, as hinted by notes throughout this document.

Status of This Document

<https://reconciliation-api.github.io/specs/latest/>

Developer & admin documentation

Search docs

CONTENTS:

- Installing the reconciliation service
- Architecture overview
- Scoring mechanism
- Testing infrastructure
- Documenting

Welcome to the documentation of the OpenRefine-Wikibase reconciliation interface

This software offers a reconciliation interface for a Wikibase instance, following the [specifications of the reconciliation API](#).

This manual is intended for developers and Wikibase administrators. Reconciliation users should instead refer to the main page of the corresponding reconciliation endpoint, where user documentation can be found. For Wikidata, this is available at <https://wikidata.reconci.link/>.

Contents:

- [Installing the reconciliation service](#)
 - [Requirements](#)
 - [Configuration](#)
 - [Installing with Docker](#)
 - [Installing manually](#)
 - [Deploying in production](#)
 - [Tips about Redis configuration](#)
- [Architecture overview](#)
 - [Reconciliation](#)
 - [Auto-complete \(suggest\) services](#)
 - [Preview](#)
 - [Data extension](#)
- [Scoring mechanism](#)

<https://openrefine-wikibase.readthedocs.io/en/latest/>

Reconciliation service for Wikidata

```
JSON  Onbewerkte gegevens  Headers
Opslaan  Kopiëren  Alles samenvouwen  Alles uitvouwen  JSON filteren
▼ defaultTypes:
  ▼ 0:
    id:      "Q35120"
    name:    "entity"
  ▼ extend:
    ▼ property_settings:
      ▼ 0:
        default: 0
        help_text: "Maximum number of values to return per row (0 for no limit)"
        label: "Limit"
        name: "limit"
        type: "number"
      ▼ 1:
        ▼ choices:
          ▼ 0:
            name: "Any rank"
            value: "any"
          ▼ 1:
            name: "Only the best rank"
            value: "best"
          ▼ 2:
            name: "Preferred and normal ranks"
            value: "no_deprecated"
        default: "best"
        help_text: "Filter statements by rank"
        label: "Ranks"
        name: "rank"
        type: "select"
      ▼ 2:
        ▼ choices:
          ▼ 0:
            name: "Any statement"
            value: "any"
          ▼ 1:
            name: "At least one reference"
            value: "referenced"
          ▼ 2:
            name: "At least one non-wiki reference"
            value: "no_wiki"
        default: "any"
        help_text: "Filter statements by their references"
```

Service endpoints (as needed by OpenRefine)

- <https://wikidata.reconci.link/en/api>
- <https://wikidata.reconci.link/nl/api>
- <https://wikidata.reconci.link/fr/api>
- Etc..



OpenRefine



How does this look for
other Wikibases?



WIKIMEDIA
COMMONS

- Main page
- Welcome
- Community portal
- Village pump
- Help center

Taal

English

Participate

- Upload file
- Recent changes
- Latest files
- Random file
- Contact us

Tools

- What links here
- Related changes
- Special pages
- Permanent link
- Page information
- Cite this page
- Get shortened URL
- Wikidata item
- Subpages

Print/export

Not logged in [Talk](#) [Contributions](#) [Create account](#) [Log in](#)

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

Wikimedia Commons in het Nederlands

Wikimedia Commons

a collection of 98,437,591 freely usable media files to which anyone can contribute

[Images](#) [Sounds](#) [Videos](#) [Upload](#)

Picture of the day



View of the [Tower of Hercules](#) near the center of [A Coruña](#), [Galicia](#), north-western coast of Spain. The 55 metres (180 ft) high tower, an [ancient Roman lighthouse](#), is the oldest (almost 1900 years) Roman lighthouse in use today and the second tallest lighthouse in Spain (after the [Faro de Chipiona](#)). The lighthouse was rehabilitated in 1791 and is a [UNESCO World Heritage Site](#) since 2009.

[Tweet](#) · [RSS feed](#) · [Subscribe](#) · [Previous Pictures of the day](#)

Monthly photo challenge

Take some photos and upload them to meet our monthly thematic challenge, get inspiration and try new subjects! [Learn more about the challenges!](#)



[Check out this month's challenges](#)

Highlights

If you are browsing Commons for the first time, you may want to start with [Featured pictures](#), [Quality images](#), [Valued images](#) or [Featured media](#).

You can also see some work created by our highly skilled contributors in [Meet our photographers](#) and [Meet our illustrators](#). You may also be interested in [Picture of the](#)

<https://commons.wikimedia.org>

Reconciliation service for Wikimedia Commons

Wikimedia Commons reconciliation for OpenRefine

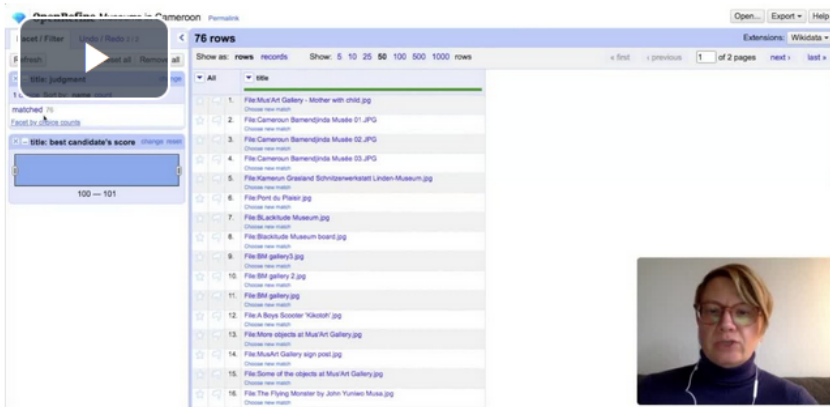
This web service aligns ('reconciles') file names/paths of Wikimedia Commons files with their corresponding **MediaInfo entity URIs** (M-ids). Via data extraction, the Wikitext, multilingual file captions and other **structured data** of these files can then be retrieved for further processing in OpenRefine.

This interface works with OpenRefine from 2.6 rc2 onwards. It is not compatible with Google Refine.

Use the following URL in OpenRefine: <https://commonsreconcile.toolforge.org/en/api>

Replacing **en** with another language code will display items and properties in that language, if they are available.

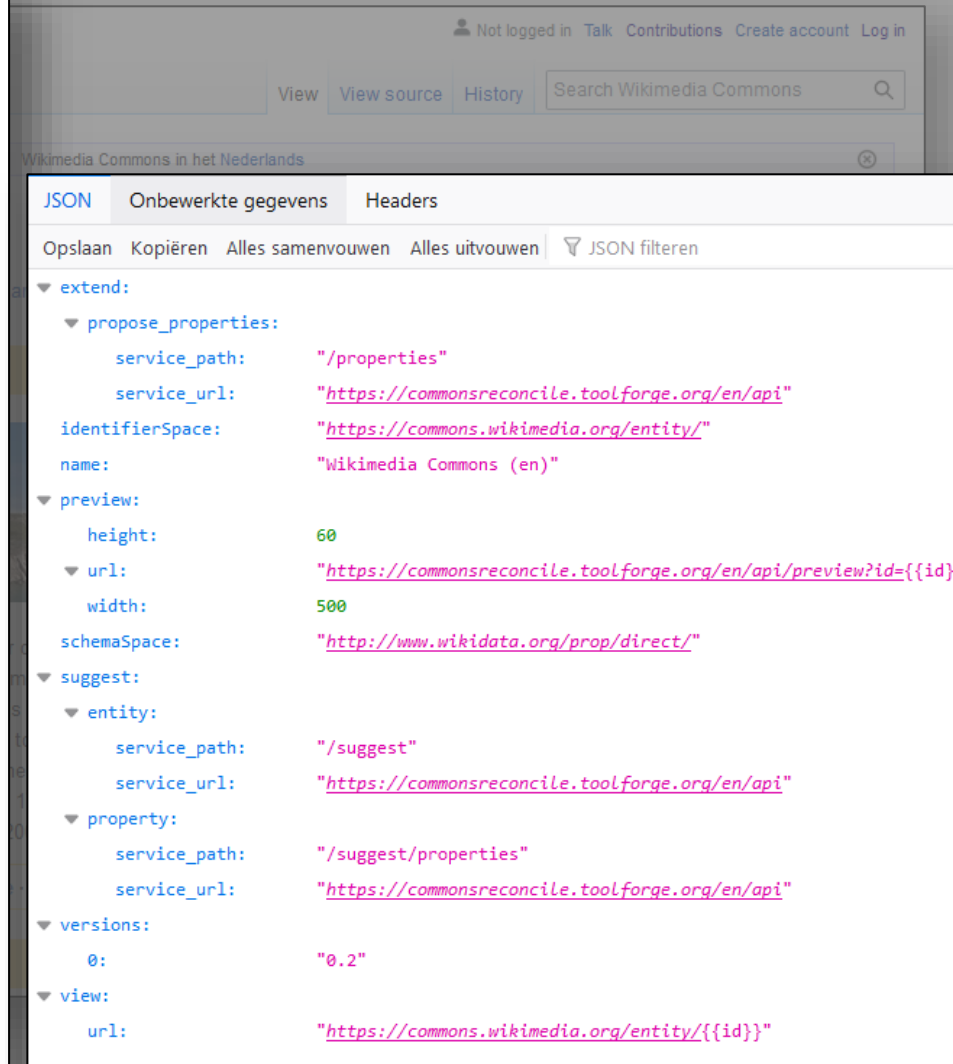
How do I use this service in OpenRefine?



Demo video in English, 3'25"

Reconciling

You can find [general documentation](#) about reconciling in OpenRefine's manual.



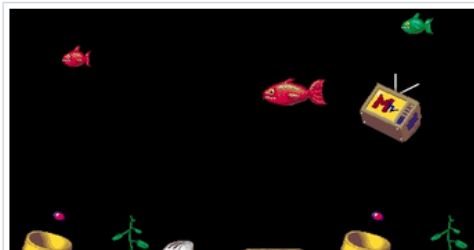
<https://commonsreconcile.toolforge.org>

<https://commonsreconcile.toolforge.org/en/api>

Welcome to the Rhizome ArtBase

This is an archive of born-digital artworks from 1983 to the present day. A small sample of artworks are shown below; you can also browse the archive [by date](#) or [by artist name](#).

Some entries in this archive include external links to artworks maintained by artists or others. Some contain archived copies, hosted on Rhizome infrastructure. All of these, as well as forms of documentation, are called *variants*—distinct manifestations of the artwork, all accessible via the main artwork page.



TwiLight

1991

Delirium Arts



Little Movies

1994

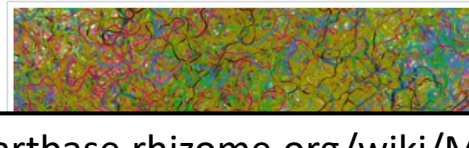
Lev Manovich



Untitled (splash page)

1995

Heath Bunting



Reconciliation service for Rhizome Artbase

Rhizome Artbase reconciliation for OpenRefine

This web service can be used to align datasets to Rhizome Artbase items in

Use the following URL in OpenRefine: <https://reconciliation.artbase.rhizome.org/en/api/>

Replacing "en" by another language code will display items and properties in your language, when they are available

This interface works with OpenRefine from 2.6 rc2 onwards. It is not compatible with Google Refine.

- [Documentation of the API](#)
- [Source](#)
- [Bug tracker](#)
- [Service status](#)

Tutorials for OpenRefine users

- [Official documentation in English](#)
- [Official documentation in Japanese](#) by 山本 泰智
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- [Wikidata editing with OpenRefine](#), screencast by Antonin Delpeuch (in English, 3 videos of 5 minutes each)

Acknowledgements

- The original reconciliation service was written by Magnus Manske
- The service uses [autodescribe](#) by Magnus Manske
- This work was supported by a [bounty on OpenRefine](#)

```
JSON  Onbewerkte gegevens  Headers
Opslaan  Kopiëren  Alles samenvouwen  Alles uitvouwen  ▼ JSON filteren
defaultTypes:  []
extend:
  ▼ property_settings:
    ▼ 0:
      default:
      help_text: "Maximum number of values to return per row (0 for no limit)"
      label: "Limit"
      name: "limit"
      type: "number"
    ▼ 1:
      ▼ choices:
        ▼ 0:
          name: "Any rank"
          value: "any"
        ▼ 1:
          name: "Only the best rank"
          value: "best"
        ▼ 2:
          name: "Preferred and normal ranks"
          value: "no_deprecated"
      default: "best"
      help_text: "Filter statements by rank"
      label: "Ranks"
      name: "rank"
      type: "select"
    ▼ 2:
      ▼ choices:
        ▼ 0:
          name: "Any statement"
          value: "any"
        ▼ 1:
          name: "At least one reference"
          value: "referenced"
        ▼ 2:
          name: "At least one non-wiki reference"
          value: "no_wiki"
      default: "any"
      help_text: "Filter statements by their references"
      label: "References"
```

<https://reconciliation.artbase.rhizome.org/>

<https://reconciliation.artbase.rhizome.org/en/api>



Pagina [Overleg](#)

The EU Knowledge Graph

(Doorverwezen vanaf [Main Page](#))

Welcome to the EU Knowledge Graph!

This graph contains structured information about the European Union.

In particular, it contains information about:

- institutions of the European Union (like the [European Parliament](#) and the [Council of the European Union](#))
- countries in the world and in particular countries in the European Union (like [Hungary](#) and [Italy](#))
- capitals of European Countries (like [Athens](#) and [Tallinn](#))
- DGs from the European Commission (like [DG CNECT](#) and [DG REGIO](#))
- 1 832 112 projects financed by the European Union under the [Kohesio](#) project (like [\[1\]](#) and [\[2\]](#))
- 643 760 beneficiaries of European projects, of which 10% could be linked back to Wikidata so that the corresponding data is complementary
- the [Nomenclature of Territorial Units for Statistics of 2021](#) (NUTS 2021), i.e. subdivisions of countries used for statistical purposes by Euro
- buildings ([\[3\]](#)), canteens ([\[4\]](#)), cafeterias ([\[5\]](#)) and parkings ([\[6\]](#)) of the European Commission
- Linked Data solutions like ERA RCC([\[7\]](#)) or ArCo([\[8\]](#)). To contribute, enter with EULogin, send a request([\[9\]](#)) for editor rights, and follow

The **query service** can be accessed under <https://query.linkedopendata.eu>.

Instructions on how to connect an **OpenRefine** instance can be found [here](#).

Exports of the **data** contained in the EU Knowledge Graph can be accessed under <https://data.linkedopendata.eu>.

New knowledge will be added continuously. If you are interested to collaborate, please contact us at CNECT-ECDORIS@ec.europa.eu.

For features requests and bug reports, please use <https://github.com/ec-doris/EuKnowledgeGraph/issues>.

Awards:

- [Semantics 2021](#), "Best industry Contribution" ([\[10\]](#))
- [ISWC 2021](#), "Candidate for best paper in the In-Use Track" ([\[11\]](#))
- [EU Ombudsman](#), 2023 award for good administration - category open administration ([\[12\]](#))

[Hoofdpagina](#)

[Recente wijzigingen](#)

[Willekeurige pagina](#)

[Nieuw item aanmaken](#)

[Query Service](#)

[QA Service](#)

[Hulp met MediaWiki](#)

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[Speciale pagina's](#)

[Printvriendelijke versie](#)

[Permanente koppeling](#)

[Paginagegevens](#)

[In andere talen](#)

[Koppelingen toevoegen](#)

<https://linkedopendata.eu>

Reconciliation service for EU Knowledge Graph

EU Knowledge Graph reconciliation for OpenRefine

This web service can be used to align datasets to EU Knowledge Graph items

Use the following URL in OpenRefine: <https://openrefine-reconciliation.linkedopendata.eu/en/api>.

Replacing "en" by another language code will display items and properties in your language, when they are available

This interface works with OpenRefine from 2.6 rc2 onwards. It is not compatible with Google Refine.

- Documentation of the protocol
- Documentation of this application for developers and Wikibase admins
- Source
- Bug tracker
- Service status

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Documentation

Contents:

- Reconciling via unique identifiers
- Property paths
- Special properties
- Subfields

```
JSON  Onbewerkte gegevens  Headers
Opslaan  Kopiëren  Alles samenvouwen  Alles uitvouwen  JSON filteren
▼ defaultTypes:
  ▼ 0:
    id: "Q236932"
    name: "entity"
  ▼ extend:
    ▼ property_settings:
      ▼ 0:
        default: 0
        ▼ help_text: "Maximum number of values to return per row (0 for no limit)"
        label: "Limit"
        name: "limit"
        type: "number"
      ▼ 1:
        ▼ choices:
          ▼ 0:
            name: "Any rank"
            value: "any"
          ▼ 1:
            name: "Only the best rank"
            value: "best"
          ▼ 2:
            name: "Preferred and normal ranks"
            value: "no_deprecated"
        default: "best"
        help_text: "Filter statements by rank"
        label: "Ranks"
        name: "rank"
        type: "select"
      ▼ 2:
        ▼ choices:
          ▼ 0:
            name: "Any statement"
            value: "any"
          ▼ 1:
            name: "At least one reference"
```

<https://openrefine-reconciliation.linkedopendata.eu>

<https://openrefine-reconciliation.linkedopendata.eu/en/api>

Kunstmuseum API

Inhoud [verbergen]

- 1 Inleiding
- 2 Dataset
- 3 Query service
- 4 Datastructuur
- 5 Infrastructuur
- 6 Reconciliation
- 6.1 Openrefine



Hoofdpagina
Recente wijzigingen
Nieuw item toevoegen
Hulp
Query service

Projecten
Van Gogh Worldwide
Delftsaardewerk.nl
Aziatisch keramiek
WonderKamers

Beheer
Lijst van eigenschappen
Nieuwe eigenschap toevoegen
Quick Statements

Hulpmiddelen
Verwijzingen naar deze pagina
Gerelateerde wijzigingen
Speciale pagina's
Printvriendelijke versie
Permanente koppeling
Paginagegevens

In andere talen
Koppelingen toevoegen

Inleiding

Deze website is opgezet om objecten, tentoonstellingen en andere gebeurtenissen als Linked Open Data te verstrekken.

Dataset

De data omvat momenteel een klein deel van het Kunstmuseum, maar er is het voornemen alle objecten en tentoonstellingen op te nemen. De service is oorspronkelijk opgezet om de content voor de website Delftsaardewerk.nl vanuit verschillende musea te importeren en te leveren via de API. Daarna is het ook ingezet voor [van Gogh Worldwide](http://vanGoghWorldwide.nl). Daarna volgde het project [Aziatisch keramiek](http://AziatischKeramiek.nl).

Query service

Om de data op te vragen is een [query service](#) aanwezig waarbij de informatie via SPARQL bevestigd kan worden. Het SPARQL-endpoint is te vinden op <https://api.kunstmuseum.nl/query/proxy/wdqs/bigdata/namespace/wdq/sparql>

Daarnaast kan de informatie ook via een REST-API uitgelezen worden. De API is benaderbaar via <https://api.kunstmuseum.nl/api.php> Een voorbeeld om item Q1 op te vragen: <https://api.kunstmuseum.nl/api.php?action=wbgetentities&ids=Q1&format=jsonfm>

Datastructuur

In de API hebben we verschillende [eigenschappen](#). Deze eigenschappen hebben een kwalifier waarin in een tekstveld de presentatietekst wordt opgeslagen. Vervolgens draaien er scripts die uit de presentatietekst zoveel mogelijk de eigenschappen bij de import voorzien zijn van een item.

Reconciliation service for Kunstmuseum The Hague

API kunstmuseum reconciliation for OpenRefine

This web service can be used to align datasets to API kunstmuseum items in OpenRefine

Use the following URL in OpenRefine: <https://reconciliation.kunstmuseum.nl/en/api>.

Replacing "en" by another language code will display items and properties in your language, when they are available.

This interface works with OpenRefine from 2.6 rc2 onwards. It is not compatible with Google Refine.

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Documentation

Contents:

- [Reconciling via unique identifiers](#)
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- [Special properties](#)
- [Subfields](#)

```
JSON Onbewerkte gegevens Headers
Opslaan Kopiëren Alles samenvouwen Alles uitvouwen JSON filteren
▼ defaultTypes:
  ▼ 0:
    id: "Q2667"
    name: "entiteit"
▼ extend:
  ▼ property_settings:
    ▼ 0:
      default: 0
      ▼ help_text: "Maximum number of values to return per row (0 for no limit)"
      label: "Limit"
      name: "limit"
      type: "number"
    ▼ 1:
      ▼ choices:
        ▼ 0:
          name: "Any rank"
          value: "any"
        ▼ 1:
          name: "Only the best rank"
          value: "best"
        ▼ 2:
          name: "Preferred and normal ranks"
          value: "no_deprecated"
      default: "best"
      help_text: "Filter statements by rank"
      label: "Ranks"
      name: "rank"
      type: "select"
    ▼ 2:
      ▼ choices:
        ▼ 0:
          name: "Any statement"
          value: "any"
```

<https://reconciliation.kunstmuseum.nl>

<https://reconciliation.kunstmuseum.nl/nl/api>



OpenRefine



OK, these setups look
pretty similar.

What is the recipe?

Making a recon service for your own Wikibase and use it in OpenRefine, in 3 easy steps





Step 0:

You have a working Wikibase and
can work with Docker



0) You have a working Wikibase and Docker

Requirements

The Wikibase instance should have:

- 1 • An associated SPARQL query service;
- 2 • Some special properties and items to represent its type system, by analogy to the one in place in Wikidata with [instance of \(P31\)](#) and [subclass of \(P279\)](#), with a root type such as [entity \(Q35120\)](#);
- 3 • You will also need to install two extensions in your Wikibase: [UniversalLanguageSelector](#) and [CirrusSearch](#).

Check installed MediaWiki extensions via
<https://<yourwikibase>/wiki/Special:Version>

- 4 Deploying this instance as described below requires [Docker](#) (tested with v20.10.17) and [Docker Compose](#) (tested





Step 1:


Install the recon service for your Wikibase



1) Install the recon service for your Wikibase

OpenRefine Wikibase




 **OpenRefine Wikibase** 


Project ID: 39964376 



☆ Star 7













310 Commits 8 Branches 4 Tags 569 KiB Project Storage

Wikibase reconciliation interface for OpenRefine.

 Fix some Wikidata-specific settings in the config generated for Docker
Antonin Delpeuch authored 1 week ago  c9925ea6 

master openrefine-wikibase History Find file  Clone

 README  MIT License

Name	Last commit	Last update
 .github/workflows	Change CI to use pytest. Closes #103. (#104)	2 years ago
 config	Update config.sh	6 months ago
 docs	Further fixes to install instructions	1 year ago
 screenshots	added screenshots	
 static	added wikibase icon	11 months ago
 templates	Update home page to point to the new git repository	11 months ago
 tests	Return descriptions in recon responses, announce supp...	2 years ago
 wdreconcile	Fix property proposals for data extension. Closes #145	1 year ago
 .coveragerc	Fix continuous integration (#102)	2 years ago
 .gitignore	updated docker path	11 months ago
 .gitlab-ci.yml	updated docker paths	11 months ago
 Dockerfile		

Repo on Gitlab

<https://gitlab.com/nfdi4culture/ta1-data-enrichment/openrefine-wikibase>

1) Install the recon service for your Wikibase

CONTENTS:

- Installing the reconciliation service
- Architecture overview
- Scoring mechanism
- Testing infrastructure
- Documenting

Welcome to the documentation of the OpenRefine-Wikibase reconciliation interface

This software offers a reconciliation interface for a Wikibase instance, following the [specifications of the reconciliation API](#).

This manual is intended for developers and Wikibase administrators. Reconciliation users should instead refer to the main page of the corresponding reconciliation endpoint, where user documentation can be found. For Wikidata, this is available at <https://wikidata.reconci.link/>.

Contents:

- [Installing the reconciliation service](#)
 - [Requirements](#)
 - [Configuration](#)
 - [Installing with Docker](#)
 - [Installing manually](#)
 - [Deploying in production](#)
 - [Tips about Redis configuration](#)
- [Architecture overview](#)
 - [Reconciliation](#)
 - [Auto-complete \(suggest\) services](#)
 - [Preview](#)
 - [Data extension](#)

<https://openrefine-wikibase.readthedocs.io/en/latest/>

1) Install the recon service for your Wikibase

Installing the reconciliation service

Requirements

The Wikibase instance should have:

- An associated SPARQL query service;
- Some special properties and items to represent its type system, by analogy to the one in place in Wikidata with [instance of \(P31\)](#) and [subclass of \(P279\)](#), with a root type such as [entity \(Q35120\)](#);

In addition it is also recommended that the Wikibase instance uses the [CirrusSearch extension](#) (ElasticSearch-based search engine).

Configuration

The configuration of the service is done in a Python file *config.py*. A sample configuration file is provided for Wikidata, *config_wikidata.py*.

Installing with Docker

You can run this service with docker. First, clone the repository and go to its root directory:

```
git clone https://gitlab.com/nfdi4culture/ta1-data-enrichment/openrefine-wikibase
cd openrefine-wikibase
```

Then, copy the sample *config_docker.py* to *config.py* and modify the copy to point to the Wikibase instance of your choice.

Finally, start the service:

```
docker-compose up
```

On Windows you will need to accept the Windows Firewall exception so that the service runs.

Download the repo

<https://openrefine-wikibase.readthedocs.io/en/latest/install.html>

1) Install the recon service for your Wikibase

Installing the reconciliation service

Requirements

The Wikibase instance should have:

- An associated SPARQL query service;
- Some special properties and items to represent its type system, by analogy to the one in place in Wikidata with [instance of \(P31\)](#) and [subclass of \(P279\)](#), with a root type such as [entity \(Q35120\)](#);

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Configuration

The configuration of the service is done in a Python file *config.py*. A sample configuration file is provided for Wikidata, *config_wikidata.py*.

Installing with Docker

You can run this service with docker. First, clone the repository and go to its root directory:

```
git clone https://github.com/wetneb/openrefine-wikibase
cd openrefine-wikibase
```

Then, copy the sample *config_docker.py* to *config.py* and modify the copy to point to the Wikibase instance of your choice.

Finally, start the service:

```
docker-compose up
```

On Windows you will need to accept the Windows Firewall the service runs.

Adapt the *config.py* to your own Wikibase params

<https://openrefine-wikibase.readthedocs.io/en/latest/install.html>

160 lines (123 sloc) | 6 KB

Raw Blame

```
1
2 """
3 This file defines a few constants which configure
4 which Wikibase instance and which property/item ids
5 should be used
6 """
7
8 # Endpoint of the Mediawiki API of the Wikibase instance
9 mediawiki_api_endpoint = 'https://kbttestwikibase.wikibase.cloud/w/api.php'
10
11 # SPARQL endpoint
12 wikibase_sparql_endpoint = 'https://kbttestwikibase.wikibase.cloud/query/'
13 # Name of the Wikibase instance
14 wikibase_name = 'KBTestWikibase.cloud'
15
16 # URL of the main page of the Wikibase instance
17 wikibase_main_page = 'https://kbttestwikibase.wikibase.cloud/wiki/Main_Page'
18
19 # Wikibase namespace ID, used to search for items
20 # For Wikidata this is 0, but most by default Wikibase uses 120, which is the default
21 # CHANGE THIS TO 120 if you are adapting this configuration file to another Wikibase
22 wikibase_namespace_id = 120
23 # https://kbttestwikibase.wikibase.cloud/wiki/Special:AllPages?from=&to=&namespace=120
24
25 # Namespace prefix of Wikibase items (including colon, e.g. 'Item:')
26 wikibase_namespace_prefix = 'Item:'
27
28 # User agent to connect to the Wikidata APIs
29 user_agent = 'OpenRefine-Wikidata reconciliation interface'
30
31 # Regexes and group ids to extracts Qids and Pids from URLs
32 import re
33 q_re = re.compile(r'(<?https?://kbttestwikibase.wikibase.cloud/(entity|wiki|)?(Q|P)[0-9]+)'
34 q_re_group_id = 3
35 p_re = re.compile(r'(<?https?://kbttestwikibase.wikibase.cloud/(entity|wiki|Property:))'
36 p_re_group_id = 3
37
38 # Identifier space and schema space exposed to OpenRefine.
39 # This should match the IRI prefixes used in RDF serialization. For instance: https://k
40 # Note that you should be careful about using http or https there,
41 # because any variation will break comparisons at various places.
42 identifier_space = 'https://kbttestwikibase.wikibase.cloud/entity/'
43 schema_space = 'https://kbttestwikibase.wikibase.cloud/prop/direct/'
44
45
46 # Pattern used to form the URL of the Wikibase instance
47 # This is only used for viewing so it is fine to use any protocol (therefore, preferably HTTPS if supported)
48 qid_url_pattern = 'https://kbttestwikibase.wikibase.cloud/wiki/Item:{{id}}'
```

Example (basic) *config.py* for
<https://kbttestwikibase.wikibase.cloud>
(Wikibase sandbox of the KB, national library of the Netherlands)

```
58 # Service name exposed at various places,
59 # mainly in the list of reconciliation services of users
60 service_name = 'KBTestWikibase.cloud recon service'
61
62 # URL (without the trailing slash) where this server runs
63 this_host = 'http://localhost:8000'
64
65 # The default limit on the number of results returned by us
66 default_num_results = 25
67
68 # The maximum number of
69 wd_api_max_search_result
70
71 # The matching score above
72 validation_threshold = 95
73
74 # Redis client used for caching at various places
75 redis_uri = 'redis://redis:6379/0?encoding=utf-8'
76
77 # Redis prefix to use in front of all keys
78 redis_key_prefix = 'openrefine_wikidata:'
```

Recon service will
run at this URL

<https://github.com/KBNLresearch/OpenRefine-Wikibase/blob/main/kb-test-wikibase-cloud-config.py>

1) Install the recon service for your Wikibase

Installing the reconciliation service

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Then, copy the sample *config_docker.py* to your Wikibase instance of your choice.

Finally, start the service:

```
docker-compose up
```

Start the recon
service

On Windows you will need to accept the Windows Firewall the service runs.

<https://openrefine-wikibase.readthedocs.io/en/latest/install.html>



OpenRefine



Demo for Step 1:
Kunstmuseum The Hague

Reconciliation service of Kunstmuseum The Hague

API kunstmuseum reconciliation for OpenRefine

This web service can be used to align datasets to API kunstmuseum items in OpenRefine

Use the following URL in OpenRefine: <https://reconciliation.kunstmuseum.nl/en/api>.

Replacing "en" by another language code will display items and properties in your language, when they are available.

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Contents:

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[Reconciling via unique identifiers](#)

```
JSON  Onbewerkte gegevens  Headers
Opslaan  Kopiëren  Alles samenvoegen  Alles uitvoegen  JSON filteren
▼ defaultTypes:
  ▼ 0:
    id: "Q2667"
    name: "entiteit"
  ▼ extend:
    ▼ property_settings:
      ▼ 0:
        default: 0
        ▼ help_text: "Maximum number of values to return per row (0 for no limit)"
        label: "Limit"
        name: "limit"
        type: "number"
      ▼ 1:
        ▼ choices:
          ▼ 0:
            name: "Any rank"
            value: "any"
          ▼ 1:
            name: "Only the best rank"
            value: "best"
          ▼ 2:
            name: "Preferred and normal ranks"
            value: "no_deprecated"
        default: "best"
        help_text: "Filter statements by rank"
        label: "Ranks"
        name: "rank"
        type: "select"
      ▼ 2:
        ▼ choices:
          ▼ 0:
            name: "Any statement"
            value: "any"
          ▼ 1:
            name: "At least one reference"
            value: "referenced"
          ▼ 2:
            name: "At least one non-wiki reference"
            value: "no_wiki"
        default: "any"
        help_text: "Filter statements by their references"
        label: "References"
```

<https://reconciliation.kunstmuseum.nl>

<https://reconciliation.kunstmuseum.nl/nl/api>



Facet / Filter

Undo / Redo 1 / 1



19 rows

Show as: **rows** records

Show: 5 10 25

All **KunstmuseumPersoon**

<input type="checkbox"/>	<input type="checkbox"/>	1.	Vincent van Gogh
<input type="checkbox"/>	<input type="checkbox"/>	2.	Adrianus Kocx
<input type="checkbox"/>	<input type="checkbox"/>	3.	Lambertus van Eenhoorn
<input type="checkbox"/>	<input type="checkbox"/>	4.	Susanne Klüver
<input type="checkbox"/>	<input type="checkbox"/>	5.	Marion van Aken-Fehmers
<input type="checkbox"/>	<input type="checkbox"/>	6.	Suzanne Lambooy
<input type="checkbox"/>	<input type="checkbox"/>	7.	Titus Eliëns
<input type="checkbox"/>	<input type="checkbox"/>	8.	Ida Peelen
<input type="checkbox"/>	<input type="checkbox"/>	9.	Eline van den Berg
<input type="checkbox"/>	<input type="checkbox"/>	10.	August I de Sterke
<input type="checkbox"/>	<input type="checkbox"/>	11.	Chenghua
<input type="checkbox"/>	<input type="checkbox"/>	12.	Daoguang
<input type="checkbox"/>	<input type="checkbox"/>	13.	Guangxu
<input type="checkbox"/>	<input type="checkbox"/>	14.	Hongwu
<input type="checkbox"/>	<input type="checkbox"/>	15.	Hongxi
<input type="checkbox"/>	<input type="checkbox"/>	16.	Hongzhi
<input type="checkbox"/>	<input type="checkbox"/>	17.	Jiajing
<input type="checkbox"/>	<input type="checkbox"/>	18.	Jianwen
<input type="checkbox"/>	<input type="checkbox"/>	19.	Jiaqing

Using facets and filters



Use facets and filters to select subsets of your data to act on. Choose facet and filter methods from the menus at the top of each data column.

Not sure how to get started?
[Watch these screencasts](#)

We want to find these artists in the KM Wikibase

Reconcile column "KunstmuseumPersoon"

Services

- Nederlandse Thesaurus van Auteursnamen
- RKDartists
- VIAF
- Wikidata reconcil.link (en)
- Wikidata reconcil.link (nl)
- Wikimedia Commons (en)
- Wikibase Kunstmuseum (nl)

Pick a service or extension on left

Add standard service

Enter the service's URL

Add service Cancel

Add standard service...

Discover services...

Start reconciling...

Cancel

Refresh Reset all Remove all

Show as: rows records Show: 5 10 25 50

KunstmuseumPersoon: judgment

All KunstmuseumPersoon

1 choice Sort by: name count

matched 19 exclude

Facet by choice counts

★	🗨	1.	Vincent van Gogh Choose new match
★	🗨	2.	Adrianus Kocx Choose new match
★	🗨	3.	Lambertus van Eenhoorn Choose new match
★	🗨	4.	Susanne Klüver Choose new match
★	🗨	5.	Marion van Aken-Fehmers Choose new match
★	🗨	6.	Suzanne Lambooy Choose new match
★	🗨	7.	Titus Eliëns Choose new match
★	🗨	8.	Ida Peelen Choose new match
★	🗨	9.	Eline van den Berg Choose new match
★	🗨	10.	August I de Sterke Choose new match
★	🗨	11.	Chenghua Choose new match
★	🗨	12.	Daoguang Choose new match
★	🗨	13.	Guangxu Choose new match



Refresh Reset all Remove all

KunstmuseumPersoon: judgment change invert reset

1 choice Sort by: name count

matched 19 exclude

Facet by choice counts



Show as: rows records Show: 5 10 25 50

All KunstmuseumPersoon

- 1. Vincent van Gogh
[Choose new match](#)
- 2. Adrianus Kocx
- 3. 
- 4.
- 5. Hoofdpagina
Recente wijzigingen
Nieuw item toevoegen
- 6. Hulp
Query service
- 7. Projecten
Van Gogh Worldwide
Delftsaardewerk.nl
Aziatisch keramiek
WonderKamers
- 8.
- 9. Beheer
Lijst van eigenschappen
Nieuwe eigenschap toevoegen
- 10. Quick Statements
- 11. Hulpmiddelen
Verwijzingen naar deze pagina
Gerelateerde wijzigingen
- 12. Speciale pagina's
Printvriendelijke versie
Permanente koppeling
Paginagegevens
Concept-URI
- 13. In andere talen
[Koppelingen toevoegen](#)

Item Overleg

Vincent van Gogh (Q8)

Nederlands kunstschilder
10918x71y500115588 | van Gogh

In meer talen

Taal	Label	Beschrijving	Ook bekend als
Nederlands	Vincent van Gogh	Nederlands kunstschilder	10918x71y500115588 van Gogh
Engels	Vincent van Gogh	Dutch painter	

Verklaringen

is een	mens	0 bronnen
externe URL	https://data.rkd.nl/artists/32439	0 bronnen
URI (Getty)	http://vocab.getty.edu/uian/500115588	0 bronnen

wikidata-<https://api.kunstmuseum.nl/wiki/Item:Q8>



OpenRefine



Result of Step 1:

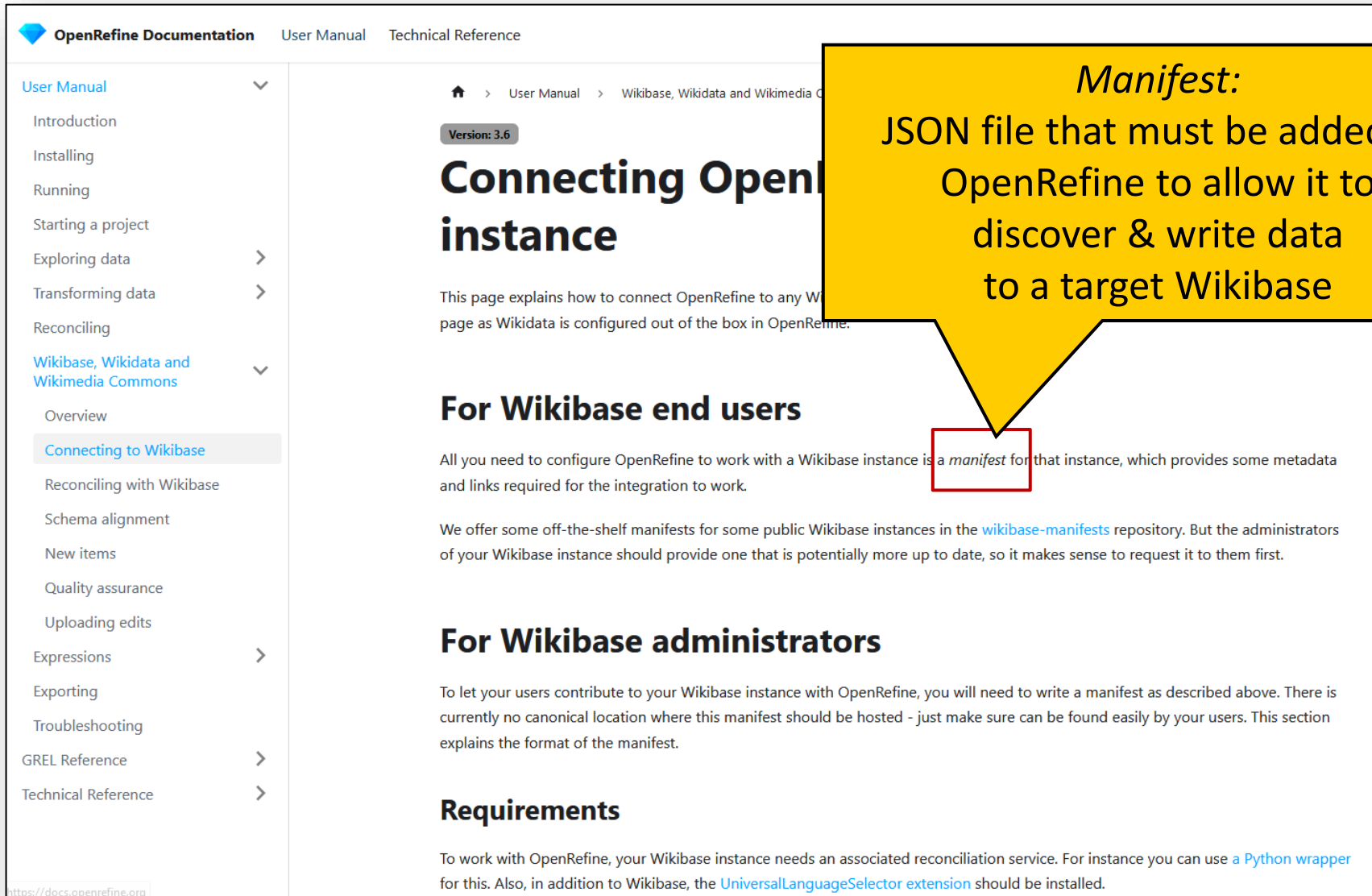
Anyone can recon data against
your Wikibase



Step 2:

Connect OpenRefine to
your Wikibase instance

2) Connect OpenRefine to your Wikibase instance



OpenRefine Documentation User Manual Technical Reference

User Manual

- Introduction
- Installing
- Running
- Starting a project
- Exploring data
- Transforming data
- Reconciling
- Wikibase, Wikidata and Wikimedia Commons
 - Overview
 - Connecting to Wikibase**
 - Reconciling with Wikibase
 - Schema alignment
 - New items
 - Quality assurance
 - Uploading edits
- Expressions
- Exporting
- Troubleshooting
- GREL Reference
- Technical Reference

Version: 3.6

Connecting OpenRefine to your Wikibase instance

This page explains how to connect OpenRefine to any Wikibase instance. This page as Wikidata is configured out of the box in OpenRefine.

For Wikibase end users

All you need to configure OpenRefine to work with a Wikibase instance is a **manifest** for that instance, which provides some metadata and links required for the integration to work.

We offer some off-the-shelf manifests for some public Wikibase instances in the [wikibase-manifests](#) repository. But the administrators of your Wikibase instance should provide one that is potentially more up to date, so it makes sense to request it to them first.

For Wikibase administrators

To let your users contribute to your Wikibase instance with OpenRefine, you will need to write a manifest as described above. There is currently no canonical location where this manifest should be hosted - just make sure can be found easily by your users. This section explains the format of the manifest.

Requirements

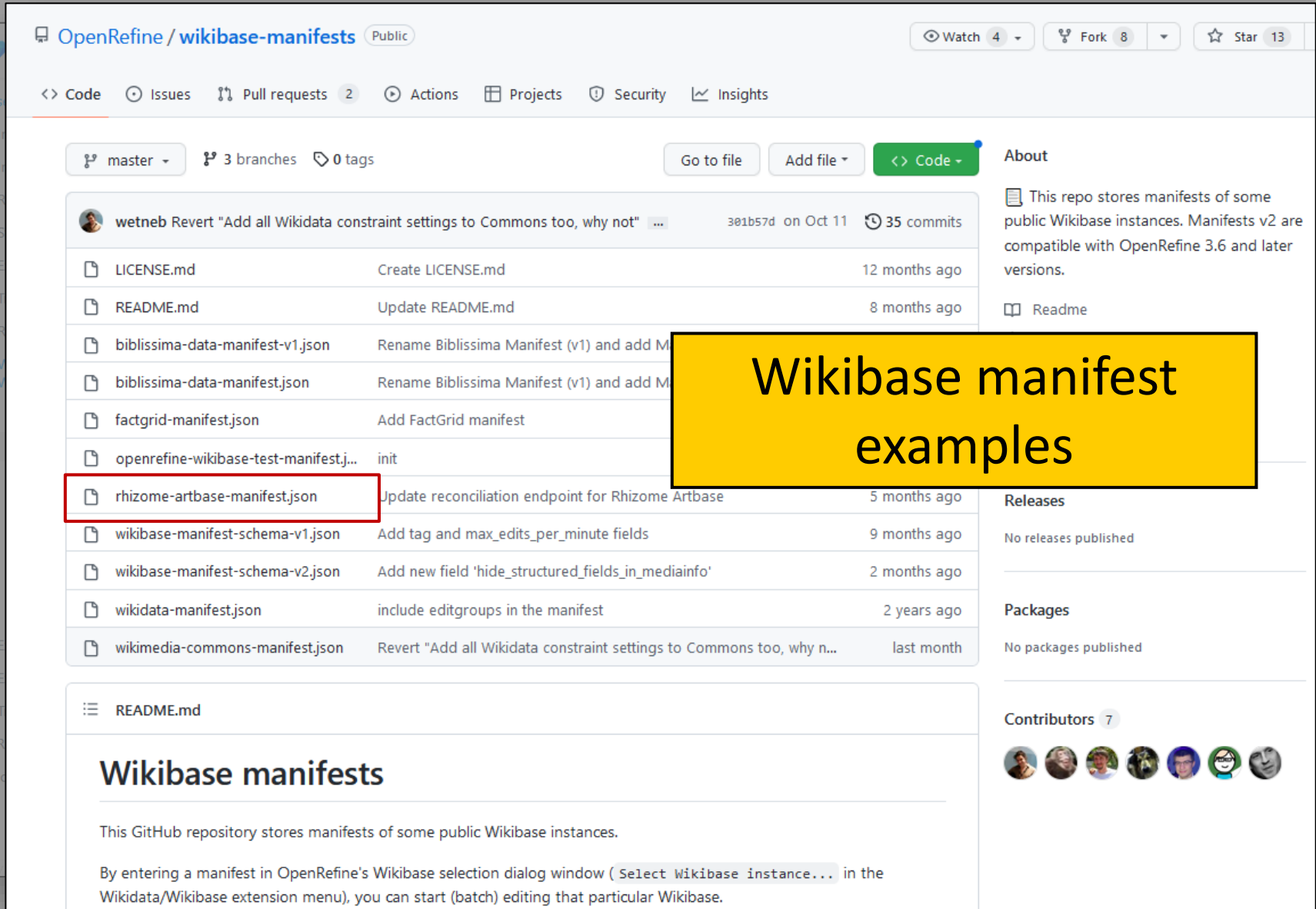
To work with OpenRefine, your Wikibase instance needs an associated reconciliation service. For instance you can use a [Python wrapper](#) for this. Also, in addition to Wikibase, the [UniversalLanguageSelector extension](#) should be installed.

<https://docs.openrefine.org>

Manifest:
JSON file that must be added to OpenRefine to allow it to discover & write data to a target Wikibase

<https://docs.openrefine.org/manual/wikibase/configuration>

2) Connect OpenRefine to your Wikibase instance



OpenRefine / wikibase-manifests Public

Watch 4 Fork 8 Star 13

Code Issues Pull requests 2 Actions Projects Security Insights

master 3 branches 0 tags

Go to file Add file Code

About

This repo stores manifests of some public Wikibase instances. Manifests v2 are compatible with OpenRefine 3.6 and later versions.

Readme

wetneb	Revert "Add all Wikidata constraint settings to Commons too, why not"	301b57d	on Oct 11	35 commits
LICENSE.md	Create LICENSE.md			12 months ago
README.md	Update README.md			8 months ago
biblissima-data-manifest-v1.json	Rename Biblissima Manifest (v1) and add M			
biblissima-data-manifest.json	Rename Biblissima Manifest (v1) and add M			
factgrid-manifest.json	Add FactGrid manifest			
openrefine-wikibase-test-manifest.j...	init			
rhizome-artbase-manifest.json	Update reconciliation endpoint for Rhizome Artbase			5 months ago
wikibase-manifest-schema-v1.json	Add tag and max_edits_per_minute fields			9 months ago
wikibase-manifest-schema-v2.json	Add new field 'hide_structured_fields_in_mediainfo'			2 months ago
wikidata-manifest.json	include editgroups in the manifest			2 years ago
wikimedia-commons-manifest.json	Revert "Add all Wikidata constraint settings to Commons too, why n...			last month

Releases

No releases published

Packages

No packages published

Contributors 7

README.md

Wikibase manifests


This GitHub repository stores manifests of some public Wikibase instances.

By entering a manifest in OpenRefine's Wikibase selection dialog window (Select Wikibase instance... in the Wikidata/Wikibase extension menu), you can start (batch) editing that particular Wikibase.

<https://github.com/OpenRefine/wikibase-manifests>

2) Connect OpenRefine to your Wikibase instance

wikibase-manifests / rhizome-artbase-manifest.json

 **wetneb** Update reconciliation endpoint for Rhizome Artbase

Code Blame 23 lines (23 loc) · 701 Bytes

```
1  {
2    "version": "1.0",
3    "mediawiki": {
4      "name": "Rhizome Artbase",
5      "root": "https://artbase.rhizome.org/wiki/",
6      "main_page": "https://artbase.rhizome.org/wiki/Main_Page",
7      "api": "https://artbase.rhizome.org/w/api.php"
8    },
9    "wikibase": {
10     "site_iri": "http://artbase.rhizome.org/entity/",
11     "maxlag": 5,
12     "properties": {
13       "instance_of": "P3",
14       "subclass_of": "P15"
15     }
16   },
17   "oauth": {
18     "registration_page": "https://artbase.rhizome.org/wiki/Special:OAuthRegistration/propose"
19   },
20   "reconciliation": {
21     "endpoint": "https://reconciliation.artbase.rhizome.org/${lang}/api"
22   }
23 }
```

Rhizom Artbase
basic manifest

Reconciliation service is
required!

<https://github.com/OpenRefine/wikibase-manifests/blob/master/rhizome-artbase-manifest.json>

Write a Wikibase manifest

Lu Liu edited this page on Aug 25, 2020 · 5 revisions

This is a tutorial on how to write a manifest for a given Wikibase instance.

Before you start

Before you start writing a manifest for a given Wikibase, you should take a look at [wikibase-manifest-schema-v1.json](#) manifest for the Wikibase.

If there is no manifest for the given Wikibase, then you can write one according to the

The format of the manifest

Here is the manifest of Wikidata:

```
{
  "version": "1.0",
  "mediawiki": {
    "name": "Wikidata",
    "root": "https://www.wikidata.org/wiki/",
    "main_page": "https://www.wikidata.org/wiki/Wikidata:Main_Page",
    "api": "https://www.wikidata.org/w/api.php"
  },
  "wikibase": {
    "site_iri": "http://www.wikidata.org/entity/",
    "maxlag": 5,
    "properties": {
      "instance_of": "P31",
      "subclass_of": "P279"
    },
    "constraints": {
      "property_constraint_pid": "P2302",
      "exception_to_constraint_pid": "P2303",
      "constraint_status_pid": "P2316",
      "mandatory_constraint_qid": "Q21502408",
      "suggestion_constraint_qid": "Q62026391",

```

```
36   "mediawiki_api": "https://www.wikidata.org/w/api.php",
37   },
38   "mediainfo": {
39     "site_iri": "https://commons.wikimedia.org/entity/",
40     "reconciliation_endpoint": "https://commons.wikimedia.org/wiki/
```

How to write a Wikibase manifest

version

The version should be in the format "1.x". The minor version should be increased when you update the manifest in a backward-compatible manner. The major version should be "1" if the manifest is in the format specified by [wikibase-manifest-schema-v1.json](#).

mediawiki

This part contains some basic information of the Wikibase.

name

The name of the Wikibase, should be unique for different Wikibase instances.

root

The root of the Wikibase. Typically in the form "[https://foo.bar/wiki/](#)". The trailing slash cannot be omitted.

main_page

The main page of the Wikibase. Typically in the form "[https://foo.bar/wiki/Main_Page](#)".

api

The MediaWiki API endpoint of the Wikibase. Typically in the form "[https://foo.bar/w/api.php](#)".

wikibase

This part contains configurations of the Wikibase extension.

site_iri

The IRI of the Wikibase, in the form "[http://foo.bar/entity/](#)". This should match the IRI prefixes used in RDF serialization. Be careful about using "http" or "https", because any variation will break comparisons at various places. The trailing slash cannot be omitted.

maxlag

Maxlag is a parameter that controls how aggressive a mass-editing tool should be when uploading edits to a Wikibase instance. See [https://www.mediawiki.org/wiki/Manual:Maxlag_parameter](#) for more details. The value should be adapted according to the actual traffic of the Wikibase.



OpenRefine



Demo for Step 2:
Kunstmuseum The Hague

manifest.json for Kunstmuseum The Hague

Openrefine

Het reconciliation-endpoint kan in Openrefine worden ingevoerd om te koppelen. Om items vervolgens te uploaden is een account en een manifest nodig. Onderstaand is te gebruiken als manifest:

```
{
  "version": "2.0",
  "mediawiki": {
    "name": "Kunstmuseum API",
    "root": "https://api.kunstmuseum.nl/wiki/@",
    "main_page": "https://api.kunstmuseum.nl/wiki/Kunstmuseum_API@",
    "api": "https://api.kunstmuseum.nl/w/api.php@"
  },
  "wikibase": {
    "site_iri": "https://api.kunstmuseum.nl/entity/@",
    "maxlag": 5,
    "max_edits_per_minute": 240,
    "tag": "openrefine-${version}",
    "properties": {
      "instance_of": "P4",
      "subclass_of": "P47"
    }
  },
  "oauth": {
    "registration_page": "https://api.kunstmuseum.nl/wiki/Speciaal:OAuthGebruikerRegistratie/propose@"
  },
  "entity_types": {
    "item": {
      "site_iri": "https://api.kunstmuseum.nl/entity/@",
      "reconciliation_endpoint": "https://reconciliation.kunstmuseum.nl/${lang}/api@",
      "mediawiki_api": "https://api.kunstmuseum.nl/w/api.php@"
    },
    "property": {
      "site_iri": "https://api.kunstmuseum.nl/entity/@",
      "mediawiki_api": "https://api.kunstmuseum.nl/w/api.php@"
    }
  },
  "hide_structured_fields_in_mediainfo": true
}
```

https://api.kunstmuseum.nl/wiki/Kunstmuseum_API#Openrefine

Add manifest to OpenRefine

Openrefine

Het reconciliation-endpoint kan in Openrefine worden ingevoerd om te koppelen. Om items vervolgens te uploaden is een account en een manifest nodig. Onderstaand is te gebruiken als manifest:

19 rows Extensions Wikibase ▾

Show as: **rows** records Show: 5 10 **25** 50 100 500 1000 rows « first

All	KunstmuseumPersoon	EditedData
☆ ↻ 1.	Vincent van Gogh <small>Choose new match</small>	Some edited data
☆ ↻ 2.	Adrianus Kocx <small>Choose new match</small>	Some edited data
☆ ↻ 3.	Lambertus van Eenhoorn <small>Choose new match</small>	Some edited data
☆ ↻ 4.	Susanne Klüver <small>Choose new match</small>	Some edited data
☆ ↻ 5.	Marion van Aken-Fehmers <small>Choose new match</small>	Some edited data
☆ ↻ 6.	Suzanne Lambooy <small>Choose new match</small>	Some edited data
☆ ↻ 7.	Titus Eliëns <small>Choose new match</small>	Some edited data
☆ ↻ 8.	Ida Peelen <small>Choose new match</small>	Some edited data
☆ ↻ 9.	Eline van den Berg <small>Choose new match</small>	Some edited data
☆ ↻ 10.	August I de Sterke <small>Choose new match</small>	Some edited data
☆ ↻ 11.	Chenghua <small>Choose new match</small>	Some edited data

Manage Wikibase instances...

Edit Wikibase schema

Manage schemas...

Manage Wikibase account...

Upload edits to Wikibase...

Export to QuickStatements

Add manifest to OpenRefine

Openrefine

Het reconciliation-endpoint kan in Openrefine worden ingevoerd om te koppelen. Om items vervolgens te uploaden is een account en een manifest nodig. Onderstaand is te gebruiken als manifest:

19 rows

Extensions Wikibase ▾

Show as: rows records Show: 5 10 25 50 100 500 1000 rows

« first

Manage Wikibase instances...

Edit Wikibase schema

▼ All

Manage Wikibase instances

Click on an item below to select it as the target Wikibase to work against. This will clear any existing schema. After switching to the target Wikibase, you should reconcile your data against it before editing the schema.



Wikidata

<https://www.wikidata.org/wiki/>

active



Wikimedia Commons

<https://commons.wikimedia.org/wiki/>

Delete

Add Wikibase

Discover Wikibase instances...

Cancel

OK

Add manifest to OpenRefine

Add Wikibase manifest

The manifest should specify a reconciliation service linked to the Wikibase, the reconciliation service will be added to OpenRefine if not added yet.

Enter the Wikibase manifest's URL (recommended, this is helpful for keeping track of the latest manifest):

Or paste the manifest JSON text directly (manifests for some public Wikibases can be found [here](#), you can also write one yourself according to this [tutorial](#)):

```
{
  "version": "2.0",
  "mediawiki": {
    "name": "Kunstmuseum API",
    "root": "https://api.kunstmuseum.nl/wiki/",
    "main_page": "https://api.kunstmuseum.nl/wiki/Kunstmuseum_API",
    "api": "https://api.kunstmuseum.nl/w/api.php"
  },
  "wikibase": {
    "site_iri": "https://api.kunstmuseum.nl/entity/",
    "maxlag": 5,
    "max_edits_per_minute": 240,
    "tag": "openrefine-${version}",
    "properties": {
      "instance_of": "P4",
      "subclass_of": "P47"
    }
  },
  "oauth": {
    "registration_page": "https://api.kunstmuseum.nl/wiki/Special:OAuthGebruikerRegistratie/propose"
  },
  "entity_types": {
    "item": {
      "site_iri": "https://api.kunstmuseum.nl/entity/",
      "reconciliation_endpoint": "https://reconciliation.kunstmuseum.nl/${lang}/api",
      "mediawiki_api": "https://api.kunstmuseum.nl/w/api.php"
    }
  }
}
```

Cancel

Add Wikibase


Add manifest to OpenRefine


Add Wikibase manifest

Manage Wikibase instances

Click on an item below to select it as the target Wikibase to work against. This will clear any existing schema. After switching to the target Wikibase, you should reconcile your data against it before editing the schema.

Kunstmuseum API active
Kunstmuseum API Logo
<https://api.kunstmuseum.nl/wiki/>

 Wikidata
<https://www.wikidata.org/wiki/>

 Wikimedia Commons
<https://commons.wikimedia.org/wiki/>

Now you can write to the KM Wikibase

Add Wikibase

Discover Wikibase instances...

Cancel

OK

"mediawiki-api": "https://api.kunstmuseum.nl/api.php"

Cancel

Add Wikibase

19 rows Schema Issues 1 Preview Extensions Wikibase

Show as: rows records Show: 5 10 25 50 100 500 « first

All KunstmuseumPersoon EditedData

☆	1.	Vincent van Gogh Choose new match	Some edited data	
☆	2.	Adrianus Kocx Choose new match	Some edited data	
☆	3.	Lambertus van Eenhoorn	Some edited data	

Manage Wikibase instances...
Edit Wikibase schema
Manage schemas...
Manage Wikibase account...
Upload edits to Wikibase...
Export to QuickStatements

However....

You need an account to be able to write to the KM Wikibase

Kunstmuseum API account

Logging in to [Kunstmuseum API](#) lets you upload edits directly from OpenRefine.

You are encouraged to login with [bot passwords](#), see this [wiki page](#) to learn how to get one.

Username

Password

Remember me [?](#)

You can also [login with your owner-only consumer](#).

[Kunstmuseum API Logo](#)

Close

Log in



OpenRefine



Result of Step 2:

Approved contributors can upload edits
from OpenRefine to your Wikibase



Step 3:
Configure your Wikibase instance

3) Configure your Wikibase instance - Tags

Openrefine

Het reconciliation-endpoint kan in Openrefine worden ingevoerd om te koppelen. Om items vervolgens te uploaden is een account en een manifest nodig. Onderstaand is te gebruiken als manifest:

```
{
  "version": "2.0",
  "mediawiki": {
    "name": "Kunstmuseum API",
    "root": "https://api.kunstmuseum.nl/wiki/@",
    "main_page": "https://api.kunstmuseum.nl/wiki/Kunstmuseum_API@",
    "api": "https://api.kunstmuseum.nl/w/api.php@"
  },
  "wikibase": {
    "site_iri": "https://api.kunstmuseum.nl/entity/@",
    "maxlag": 5,
    "max edits per minute": 240,
    "tag": "openrefine-${version}",
    "properties": {
      "instance_of": "P4",
      "subclass_of": "P47"
    }
  },
  "oauth": {
    "registration_page": "https://api.kunstmuseum.nl/wiki/Speciaal:Openrefine"
  },
  "entity_types": {
    "item": {
      "site_iri": "https://api.kunstmuseum.nl/entity/@",
      "reconciliation_endpoint": "https://reconciliation.kunstmuseum.nl/${lang}/api@",
      "mediawiki_api": "https://api.kunstmuseum.nl/w/api.php@"
    },
    "property": {
      "site_iri": "https://api.kunstmuseum.nl/entity/@",
      "mediawiki_api": "https://api.kunstmuseum.nl/w/api.php@"
    }
  },
  "hide_structured_fields_in_mediainfo": true
}
```

manifest.json
for Kunstmuseum The Hague

"openrefine-3.5"

"openrefine-3.6"

"openrefine-3.7"

https://api.kunstmuseum.nl/wiki/Kunstmuseum_API#Openrefine

3) Configure your Wikibase instance - Tags

<https://api.kunstmuseum.nl/wiki/Special:Tags>

Special page Search Kunstmuseum API

Tags

This page lists the tags that the software may mark an edit with, and their meaning.

Tag name	Appearance on change lists	Full description of meaning	Source	Active?	Tagged changes
OAuth CID: 5	QuickStatements [1.0.1]	QuickStatements	Defined by the software	Yes	35,377 changes
openrefine-3.6	openrefine-3.6		Applied manually by users and bots	Yes	23,964 changes
openrefine-3.7	openrefine-3.7		Applied manually by users and bots	Yes	11,482 changes
mw-new-redirect	New redirect	Edits that create a new redirect or change a page to a redirect	Defined by the software	Yes	29 changes
mw-undo	Undo	Edits that undo previous edits using the undo link	Defined by the software	Yes	20 changes
mw-replace	Replaced	Edits that replace more than 90% of the content of a page	Defined by the software	Yes	20 changes
mw-rollback	Rollback	Edits that revert previous edits using the rollback link	Defined by the software	Yes	13 changes
visualeditor-switched	Visual edit: Switched		Defined by the software	Yes	3 changes
visualeditor	Visual edit		Defined by the software	Yes	1 change
mw-contentmodelchange	content model change		Defined by the software	Yes	0 changes
mw-removed-redirect	Removed redirect		Defined by the software	Yes	0 changes
mw-changed-redirect-target	Redirect target change		Defined by the software	Yes	0 changes
mw-blank	Blanking		Defined by the software	Yes	0 changes
visualeditor-wikitext	2017 source edit		Defined by the software	Yes	0 changes
visualeditor-needcheck	Visual edit: Check		Defined by the software	Yes	0 changes

Ask admin to add these tags manually to the **Special:Tags** page of your Wikibase (depending on which versions of OR you want to allow to write to your Wikibase)

3) Configure your Wikibase instance - Tags

If you don't add them, OpenRefine will give you errors like these

```
:52:43.073 [refine] GET /command/core/get-csrf-token (42893ms)
:52:43.073 [refine] POST /command/wikidata/perform-wikibase-edits (0ms)
:52:43.073 [..WikibaseEditsOperation] Performing edits (0ms)
:52:43.073 [..ting.EditBatchProcessor] requesting documents (0ms)
:52:43.951 [..ting.EditBatchProcessor] MediaWiki error while editing [badtags]: The tag "Edit using OpenRefine-3.7" is not allowed to be manually applied. (878ms)
:52:44.223 [..ting.EditBatchProcessor] MediaWiki error while editing [badtags]: The tag "Edit using OpenRefine-3.7" is not allowed to be manually applied. (272ms)
:52:44.477 [..ting.EditBatchProcessor] MediaWiki error while editing [badtags]: The tag "Edit using OpenRefine-3.7" is not allowed to be manually applied. (254ms)
:52:44.755 [..ting.EditBatchProcessor] MediaWiki error while editing [badtags]: The tag "Edit using OpenRefine-3.7" is not allowed to be manually applied. (278ms)
:52:45.018 [..ting.EditBatchProcessor] MediaWiki error while editing [badtags]: The tag "Edit using OpenRefine-3.7" is not allowed to be manually applied. (263ms)
:52:45.294 [..ting.EditBatchProcessor] MediaWiki error while editing [badtags]: The tag "Edit using OpenRefine-3.7" is not allowed to be manually applied. (276ms)
:52:45.679 [refine] GET /command/core/get-history (385ms)
:52:45.711 [refine] GET /command/core/get-project-metadata (32ms)
:52:45.726 [refine] GET /command/core/get-models (15ms)
:52:45.742 [refine] POST /command/core/get-all-preferences (16ms)
:52:45.742 [refine] POST /command/core/get-rows (0ms)
:52:45.795 [refine] POST /command/core/compute-facets (53ms)
:52:45.842 [refine] GET /command/core/get-preference (47ms)
:52:45.880 [refine] GET /command/core/get-csrf-token (38ms)
:52:45.895 [refine] POST /command/wikidata/preview-wikibase-schema (15ms)
```

mw-changed-redirect-target	Redirect target changed (edit)	Edits that change the target of a redirect (edit)	Defined by the software	Yes	0 changes
mw-replace	Replaced (edit)	Edits that remove more than 90% of the content of a page (edit)	Defined by the software	Yes	0 changes
mw-rollback	Rollback (edit)	Edits that roll back previous edits using the rollback link (edit)	Defined by the software	Yes	0 changes
mw-undo	Undo (edit)	Edits that undo previous edits using the undo link (edit)	Defined by the software	Yes	0 changes
mw-server-side-upload	Server-side upload (edit)	Media files that were uploaded via a maintenance script (edit)	Defined by the software	Yes	0 changes
mw-add-media	(hidden) (edit)	Edits that add media (edit)	Defined by the software	No	0 changes
mw-remove-media	(hidden) (edit)	Edits that remove media (edit)	Defined by the software	No	0 changes

```
14 "properties": {
15   "instance_of": "P3",
16   "subclass_of": "P2"
17 }
```

3) Configure your Wikibase instance – Page protection

Page protection level

Users that write (Ps and Qs) to a Wikibase via OpenRefine will typically do this as a [Autoconfirmed user](#).

In your Wikibase some pages may be [\(semi\)protected](#), as listed on the *Special:ProtectedPages* in your Wikibase instance, see eg. the [semiprotected Q-items on Wikidata](#) and/or under "Page protection" in this [Wikidata item](#).

To allow autoconfirmed users to write to your Wikibase, make sure (using an Admin login) you set the page protection to the semiprotected level "Allow only autoconfirmed users", via calls such as <https://www.wikidata.org/w/index.php?title=Q34086&action=unprotect>

<https://github.com/KBNLresearch/OpenRefine-Wikibase>

Protected pages

This page lists existing pages that are currently protected. For a list of titles that are protected from creation, see [Protected titles](#).

Protected pages

Namespace:

(Main)

Permission:

Edit

Restriction level:

semi protected

Filters:

Indefinite protections only Cascading protections only Hide redirects

Min size Max size: (bytes)

[Display pages](#)

[First page](#) [Previous page](#) [Next page](#) [Last page](#)

Timestamp	Page	Expires	Protecting user	Protection parameters
Unknown	person (Q215627) (82,347 bytes)	infinite	Unknown user	semi protected
Unknown	geographical feature (Q618123) (38,696 bytes)	infinite	Unknown user	semi protected
Unknown	wiki (Q171) (71,512 bytes)	infinite	Unknown user	semi protected
Unknown	Help:Contents (Q914807) (70,681 bytes)	infinite	Unknown user	semi protected
Unknown	Wikipedia:Contact us (Q4654783) (28,412 bytes)	infinite	Unknown user	semi protected

<https://www.wikidata.org/wiki/Special:ProtectedPages?namespace=0&type=edit&level=autoconfirmed&size-mode=min&size=>

Item [Discussion](#)

View protection settings of "Q34086"

— Q34086

You do not have permission to change protection settings for this page, for the following reasons:

- The action you have requested is limited to users in one of the groups: [Administrators](#), [Wikidata staff](#).
- You cannot change the protection settings of this page because you do not have permission to edit it.

Confirm protection

Edit

Allow only autoconfirmed users

Expires:

Existing expiration time: infinite

Protect pages included in this page (cascading protection)

Protection log

- 01:20, 29 June 2015 [AmaryllisGardener](#) (talk | contribs) protected Q34086 [edit=autoconfirmed] (indefinite).
- 05:53, 17 June 2014 [YMS](#) (talk | contribs) protected Q34086 [edit=autoconfirmed] (expires 05:53, 17 June 2014).
- 08:44, 29 November 2013 [YMS](#) (talk | contribs) protected Q34086 [edit=autoconfirmed] (expires 08:44, 29 November 2013).
- 15:41, 24 August 2013 [John F. Lewis](#) (talk | contribs) protected Q34086 [edit=autoconfirmed] (expires 15:41, 24 August 2013).
- 08:10, 24 July 2013 [Legoktm](#) (talk | contribs) protected Q34086 [edit=autoconfirmed] (expires 08:10, 7 August 2013).
- 10:21, 19 April 2013 [Stryn](#) (talk | contribs) protected Q34086 [edit=autoconfirmed] (expires 10:21, 19 July 2013).
- 17:14, 13 March 2013 [Stryn](#) (talk | contribs) protected Q34086 [edit=autoconfirmed] (expires 17:14, 13 April 2013).

<https://www.wikidata.org/w/index.php?title=Q34086&action=unprotect>

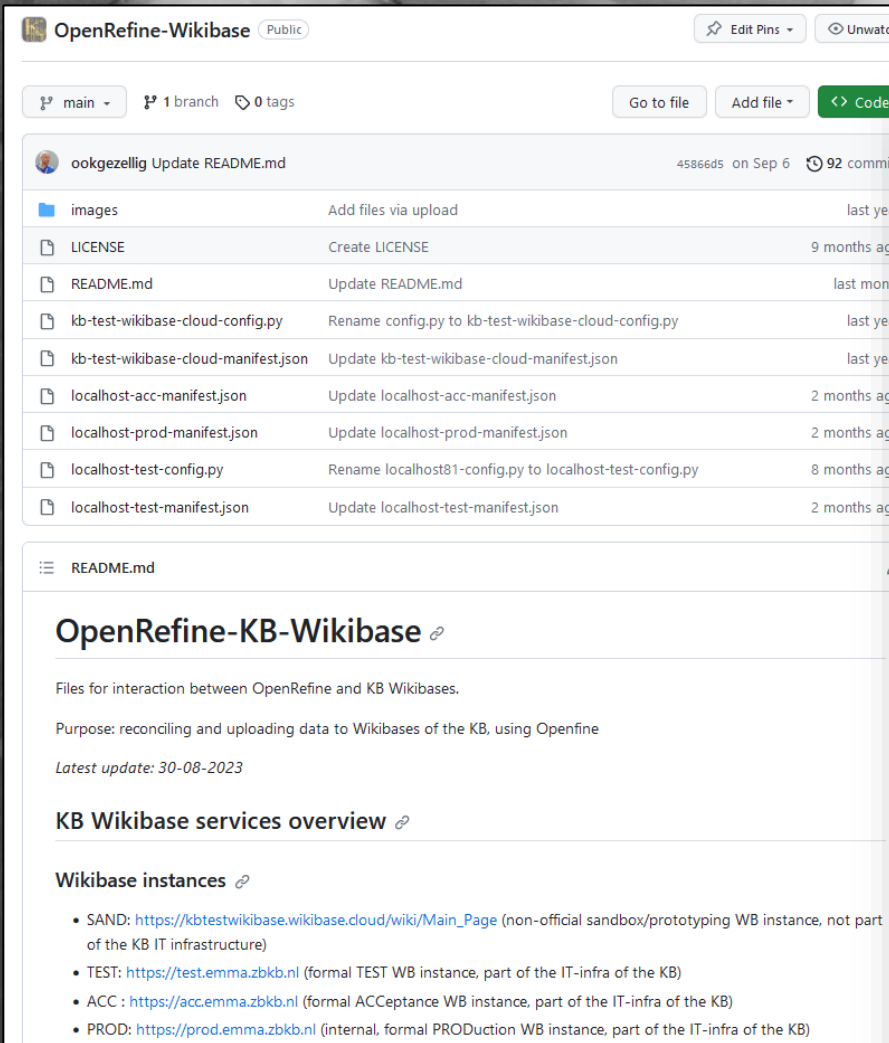


OpenRefine



**Result of Step 3:
OpenRefine and Wikibase
don't throw errors**

3 easy steps: approach documented by KB



The screenshot shows the GitHub repository page for 'OpenRefine-Wikibase'. The repository is public and has 1 branch and 0 tags. The file list includes 'images', 'LICENSE', 'README.md', and several configuration files for different environments (cloud, localhost, prod, test). The README file is selected, showing its content.

OpenRefine-KB-Wikibase

Files for interaction between OpenRefine and KB Wikibases.

Purpose: reconciling and uploading data to Wikibases of the KB, using Openfine

Latest update: 30-08-2023

KB Wikibase services overview

Wikibase instances

- SAND: https://kbttestwikibase.wikibase.cloud/wiki/Main_Page (non-official sandbox/prototyping WB instance, not part of the KB IT infrastructure)
- TEST: <https://test.emma.zbkb.nl> (formal TEST WB instance, part of the IT-infra of the KB)
- ACC : <https://acc.emma.zbkb.nl> (formal ACCeptance WB instance, part of the IT-infra of the KB)
- PROD: <https://prod.emma.zbkb.nl> (internal, formal PRODUCTION WB instance, part of the IT-infra of the KB)

Setting up a reconciliation service for your Wikibase instance

General

- Installing the reconciliation service : <https://openrefine-wikibase.readthedocs.io/en/latest/install.html>
- You will also need to install two extensions in your Wikibase: [UniversalLanguageSelector](#) and (optionally) [CirrusSearch](#).

KB specific

- `kb-test-wikibase-cloud-config.py` is an example configuration file for making a Dockerized Wikibase reconciliation service for <https://kbttestwikibase.wikibase.cloud>, as described in <https://openrefine-wikibase.readthedocs.io/en/latest/install.html#installing-with-docker>.
 - This file must be renamed to `config.py` when used in the actual Docker setup
 - This will expose the recon service at `http://localhost:8000` (as specified in the `this_host` parameter).
 - This file has been successfully tested with a service run on a local Windows10 machine. See [these two tweets](#).
- For making this work for other WB instances, change <https://kbttestwikibase.wikibase.cloud> into the URL of the specific KB Wikibase you are dealing with, and don't forget to change the `this_host`, `wikibase_name`, the `fallback_image_url` and other relevant parameters accordingly.
 - `localhost-test-config.py` is the custom configuration file for the TEST WB at <https://test.emma.zbkb.nl>. This file must be renamed to `config.py` when used in the actual Docker setup.
 - Extensions [UniversalLanguageSelector](#) and [CirrusSearch](#) are enabled in this Wikibase, see <https://test.emma.zbkb.nl/wiki/Special:Version> (and <https://acc.emma.zbkb.nl/wiki/Special:Version>)

Connecting OpenRefine to your Wikibase instance

Once you have a working reconciliation service for your Wikibase instance, you can connect OpenRefine to it. All you need is a so-called manifest for that instance, which provides some metadata and links required for the connection to work.

General

- Connecting OpenRefine to a Wikibase instance: <https://docs.openrefine.org/manual/wikibase/configuration>
- Example manifests: <https://github.com/OpenRefine/wikibase-manifests>

KB specific

- A (basic) manifest for connecting OpenRefine to <https://kbttestwikibase.wikibase.cloud> is available on `kb-test-wikibase-cloud-manifest.json`.
- For making this work for other WB instances, change <https://kbttestwikibase.wikibase.cloud> into the URL of the specific KB Wikibase you are dealing with, and don't forget to specify the base URL of the relevant KB reconciliation

<https://github.com/KBNLresearch/OpenRefine-Wikibase>



Many thanks!
Questions?

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KB } national library
of the netherlands