

Cocoda web application for mapping Wikidata and authority files

Add, change & delete mapping statements with optional mapping relation types (P4390)

The screenshot displays the Cocoda Mapping Tool interface. At the top, there's a navigation bar with 'Cocoda Mapping Tool' and user information 'JakobVoss'. The main area is divided into several panels:

- Left Panel:** 'WD Wikidata' search results for 'magic', showing items like 'Q15708422 fictional energy' and 'Q81741 magic'.
- Center Panel:** 'Mapping Editor' showing a mapping between 'Q81741 magic' (WD) and '13 magic, supernaturalism, occultism' (ICONCLASS). Below it is a 'Mapping Navigator' table with columns 'From' and 'To', listing various mappings.
- Right Panel:** 'ICONCLASS Iconclass' search results for 'magic', showing a list of concepts like '1 Religion and Magic' and '13 magic, supernaturalism, occultism'.

An inset window at the top right shows the 'Iconclass notation' details for '13', including 'mapping relation type: narrow match' and '+ add reference'/' + add value' buttons.

Browse mappings and mapping recommendations from various sources (e.g. Wikidata and OpenRefine Reconciliation API)

Browse and search source and target vocabularies in a unified interface

The Challenge

Wikidata has evolved to an important **linking hub**: more than 3.500 properties link items about concepts (people, places, works, topics...) to corresponding records in other databases. Tools like *Mix'n'match*¹ and *OpenRefine*² support alignment of external identifiers to Wikidata but they hit a wall with **mappings beyond simple 1-to-1 equivalences**, especially with hierarchical vocabularies such as classifications and thesauri.

The Project

Project coli-conc³ creates an infrastructure for management and creation of **mappings between all kinds of authority files**. This includes:

- collection of information about vocabularies
- collection of existing mappings
- standards and tools for management of mappings

The Solution

Cocoda is an **open source web application** to manage mappings between authority files — including Wikidata. Main features are illustrated here. The application is build of web services which can also be used and combined independently.

¹ <https://tools.wmflabs.org/mix-n-match/>

² <https://www.wikidata.org/wiki/Wikidata:Tools/OpenRefine>

³ <https://coli-conc.gbv.de/>

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