

Cocoda4TS4NFDI

2025-07-14

Cocoda Introduction

Example Mappings

- ▶ GND <https://d-nb.info/gnd/4062527-8> *Venus (Planet)*
- ▶ = Wikidata <http://www.wikidata.org/entity/Q313>
Venus
- ▶ \approx DDC <http://dewey.info/class/523.42/e23/> *Venus*
- ▶ $<$ BK <http://uri.gbv.de/terminology/bk/39.53>
Planeten

Cocoda in a nutshell

- ▶ Web application to manage mappings
- ▶ Mappings between entities from terminologies
- ▶ Current code base developed since 2018
- ▶ Client side (static files)
- ▶ Based on JSKOS data format and Vue

Cocoda Links

- ▶ <https://coli-conc.gbv.de/cocoda/>
- ▶ <https://coli-conc.gbv.de/cocoda/nfdi4objects/>
- ▶ <https://coli-conc.gbv.de/cocoda/ts4nfdi/>
- ▶ <https://doi.org/10.5446/69732> Screencast

NFDI4Objects Mapping-Editor

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IKMK_MATERIAL Material aus IKMK

1 Silber

Konzept Meta Links

Silber bevorzugt: de
 Silber bevorzugt: en

Hierarchie

1 Silber
 10 Stein
 11 Messing
 12 Kupfer
 13 Silber, vergoldet
 14 Zinn
 15 Stahl
 16 Gips
 17 Eisen
 18 Elfenbein
 19 Porzellan
 2 Bronze
 20 Nickel

IKMK_MATERIAL

Mapping-Editor

GND

1 Silber = **Silber**

nicht gespeichert

±0

keine Konkordanz

Konkordanzen Suche Navigator

Mappings 3 von 3

Konkordanz-Register

GND	Silber	=	DDC	669.23 Silber	±0
GND	Silber	=	STW	14308-2 Silber	±0
GND	Silber	=	DDC	546.654 Silber	±0

Enthaltene Mappings 5 von 5

GND	Silber	=	WD	Q1090 Silber
GND	Silber	=	STW	14308-2 Silber
GND	Silber	=	LCSH	Silber
GND	Silber	=	DDC	546.654 Silber
GND	Silber	=	DDC	669.23 Silber

Vorschläge 2 von 2

coii-conc Vorschläge

IKMK_MA	1 Silber	GND	Silber
IKMK_MA	13 Silber, vergoldet	GND	Silber

Co-Occurrences 5 von 10

GND Gemeinsame Normdatei

1 Silber

Konzept Meta Links

Silber bevorzugt: de

Blatt Silber
 Silberisotop
 Brandsilber

Schnellauswahl

keine Konzepte vorhanden

Functionality

- ▶ Browse and search terminologies
- ▶ Login via ORCID, GitHub...
- ▶ Create, edit, delete mappings
- ▶ Organize mappings in concordances
- ▶ Search mappings
- ▶ Review mappings

Missing or limited functionality

- ▶ Entity sets (only favorite concepts and static concept lists)
- ▶ Terminology collections (hard-coded in config files)
- ▶ Upload SSSOM (but converter exists)
- ▶ Access via MOD-API, OLS, OntoPortal...
- ▶ Special treatment of ontologies (?)

Behind the scenes

Core Concepts

- ▶ **Cocoda**: web application
- ▶ **jskos-server**: database software to store mappings, concordances, terminologies, collections, reviews...
- ▶ **Mapping Registry**: main mapping instance of jskos-server
- ▶ **BARTOC**: terminology registry
- ▶ **login-server**: AAI to delegate to IdPs
- ▶ **cocoda-sdk**: programming library
 - ▶ like a client-side API Gateway

Services Architecture

```
{mermaid} graph TD
  Cocoda --get-token-from --> login-server
  Cocoda --mappings etc. --> jskos-server
  jskos-server --> login-server
  login-server --> Identity-providers
  Cocoda --lookup --> BARTOC
  Cocoda --config-file --> Terminology-APIs
  BARTOC --references --> Terminology-APIs
  Terminology-APIs --terminology data --> Cocoda
```

Terminology configuration in BARTOC

...

Use the source, Luke!

- ▶ JSKOS Server <https://github.com/gbv/jskos-server>
- ▶ Login Server <https://github.com/gbv/login-server>
- ▶ Cocoda SDK <https://github.com/gbv/cocoda-sdk>
- ▶ Browser-Dev-Tools and API links in Cocoda