# Cocoda4TS4NFDI

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# Cocoda Introduction

## **Example Mappings**

- ► GND https://d-nb.info/gnd/4062527-8 Venus (Planet)
- Wikidata http://www.wikidata.org/entity/Q313 Venus
- $ho pprox ext{DDC http://dewey.info/class/523.42/e23/} \textit{Venus}$
- ► < BK http://uri.gbv.de/terminology/bk/39.53

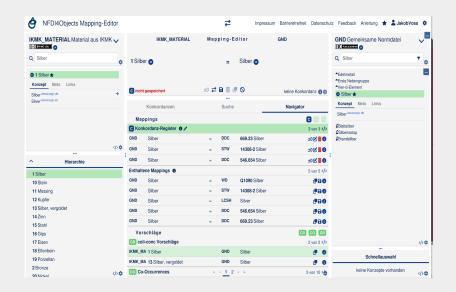
  Planeten

#### 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



### 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

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#### 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