

Tuesday, 27 August 2019

International Dewey Users Meeting

Violet Fox

Dewey Editor

Elise Conradi

EDUG Chair

Umamaheswari

Balakrishnan

Project Coordinator VZG

Peter Werling

Pansoft GmbH



Violet Fox

Editor, Dewey Decimal Classification

Community involvement

- How Dewey users have helped shape the DDC
- Why integrate more community engagement now

Opening up the process

Editorial process:

1. Identify the problem
2. Research the subject area
3. Create the exhibit
4. Submit to EPC

For additional information please visit oc.lc/deweyexhibits

Your chance to contribute

- Create your own proposals to revise Dewey
- Your ideas about new ways to contribute

Find more information about proposing changes
at oc.lc/deweycontributors

Group discussion questions

1. What are your biggest challenges in using Dewey?
2. What do you see as the cultural biases in Dewey?
3. What could be done to make things better?
4. How would you like to be a part of making Dewey better?



Elise Conradi

EDUG Chair

Dewey and AI

Elise Conradi

Biblioteksentralen
EDUG Chair

International Dewey Meeting
IFLA 2019

Where, what and how?

Deutsche Nationalbibliothek



Frank Busse
Automatic classification at the DNB

National Library of Norway

Machine Learning and Dewey
Decimal Classification

Svein Arne Brygfeldt
National Library of Norway

Linnæus University

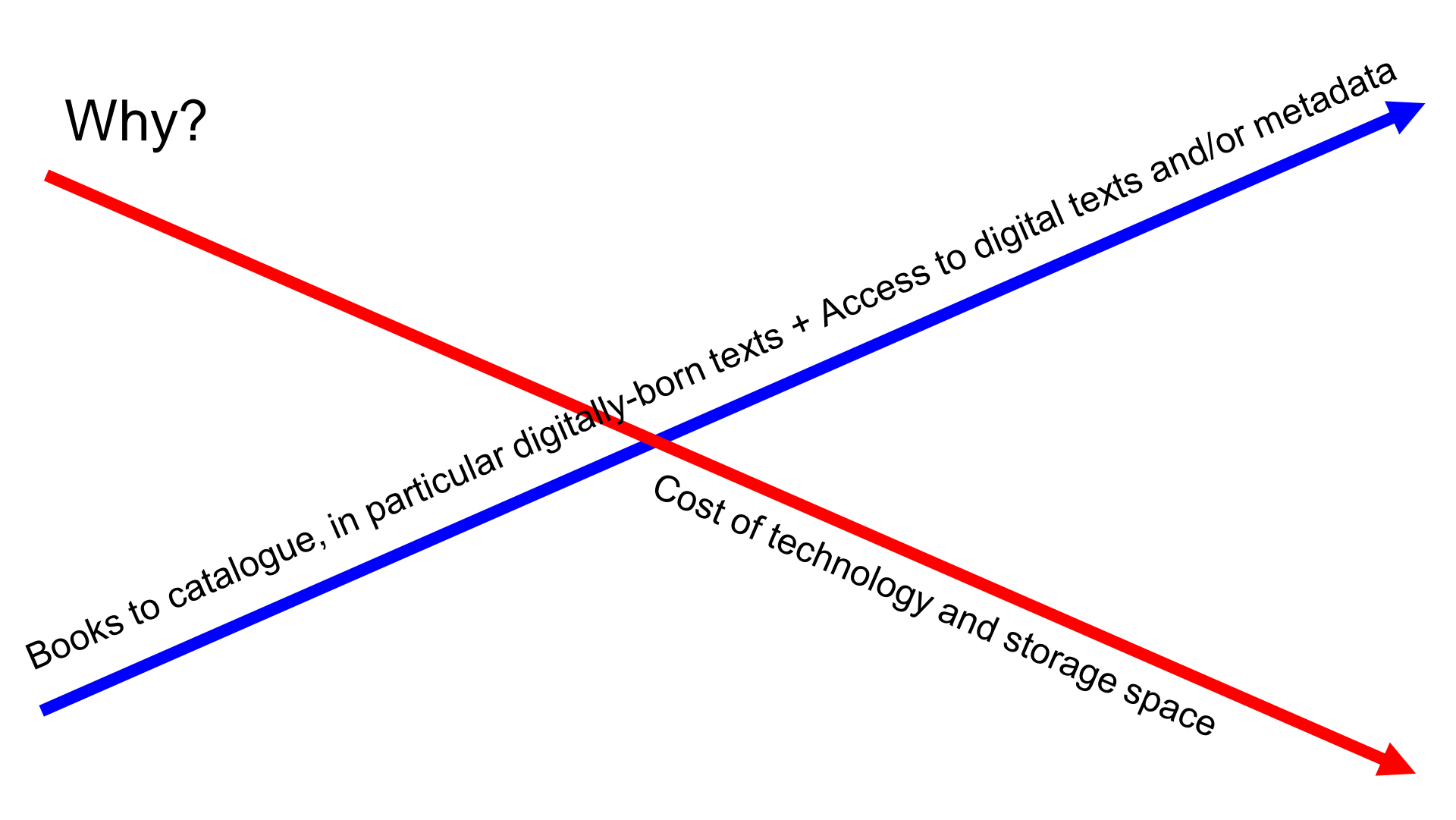
Automatic Classification Using DDC
on the Swedish Union Catalogue

Koraljka Golub, Johan Hagelbäck, Anders Ardo

*EDUG 2019 Symposium, May 10
Kungliga Biblioteket*



Why?



Promising results,
but....

Training sets: Small classes are not very filling.



How to teach machines about new knowledge?

EPC Exhibit 142-S53.1
June 27, 2019

THE LIBRARY OF CONGRESS

CIP and Dewey Section

To: Jonathan Furner, Chair
Decimal Classification Editorial Policy Committee

Cc: Members of the Decimal Classification Editorial Policy Committee
Karl E. Debus-López, Chief, U.S. Programs, Law, and Literature Division

From: Alex Kyrios, Editor
Dewey Decimal Classification
OCLC, Inc.

Dan Michael Heggo
Academic Librarian (Physics Liaison)
University of Oslo Science Library

Re: Mechanics in physics

Relocations

From	To	Topic
536.70727	530.132	Statistical thermodynamics
539	530.12	Quantum physics

Continuations

From	To	Topic
531	531.2	Solid mechanics
531	531.7	Continuum mechanics

The use of terms such as “quantum mechanics” and “quantum physics” in Dewey has not kept pace with physics literature. This is true of other topics in the discipline, such as statistical or thermodynamic mechanics/physics. There is a general tendency in coursework and book titles to use “mechanics” for introductions and older foundations of a field, and “physics” for more advanced material. This exhibit presents a series of recommendations for changes to accommodate such usage in various fields of physics.

Summary

We recommend the following changes:

- Relocate statistical thermodynamics from 536.70727 to 530.132, adding a do-not-use note at the former.
- Map the LCSH “Statistical physics” to 530.13, retaining it at 530.1595 as well.
- Relocate quantum physics from 539 to 530.12, with quantum mechanics and quantum theory.
- Continue continuum mechanics from 531 to 531.7, between solid mechanics and fluid mechanics.
- Continue solid mechanics from 531 to 531.2.
- Remove the centered entry 531.2-531.5.
- Remove the class-here note at 531.16.
- Remove the scope note from 530.124 and update the see-also note at 531.1133 accordingly.
- Add “wave functions” to the class-here note at 530.124.
- Change the mapping of the LCSH “Wave equation” from 530.124 to 531.1133.
- Some housekeeping matters, replacing phrases like “relativistic, nonrelativistic quantum mechanics” with “relativistic quantum mechanics, nonrelativistic quantum mechanics.”

In the following schedules, 518, 530.1, and 536.7 are given for context; changes to 515.353, 515.64, 530.15, and 539 are not apparent in the printed schedules (e.g., history notes, indexing).

Machines don't care about existing biases!



Thanks!

Questions?

elise.conradi@bibsent.no

Works cited:

[Automatic classification at the DNB](#) / Frank Busse,
DNB

BRYGFJELD, Svein Arne and WETJEN, Freddy and
WALSØE, André *Machine learning for production of
Dewey Decimal*

[Automatic classification on Swedish Dewey](#) / Koraljka
Golub, Linné University, Växjö





Umamaheswari Balakrishnan

VZG

Towards integrated systems for KOS management mapping & access coli-conc and its collaborative computer-assisted KOS mapping tool Cocoda

**The International Dewey Users Meeting 2019
Athens**

Uma Balakrishnan

Key points of the presentation

Towards an infrastructure for

- creating computer-assisted mappings between KOS
- facilitating uniform access to KOS and KOS mappings

Outline

1 Introduction and Objectives

2 coli-conc functional architecture

3 coli-conc Components

- The JSKOS data format
- The KOS and concordance registry and database
- Input processes
- **The Mapping Tool**
- KOS and mapping data services and connection to other systems

4 Next Steps

19

The Project

Aim: Development of an infrastructure to facilitate an easy exchange KOS and mappings, management of mappings through collaborative effort as well as aid in semi-automatic creation of mappings between library KOS

Exe. Agency: Verbundzentrale des GBV

Duration: 2015-12-15 - 2019-06-01

Funder: DFG - German Research Foundation

Project Partners

Application partners

- Freie Universitätsbibliothek Berlin
- German National Library
- Staatsbibliothek zu Berlin Preussischer Kulturbesitz
- Universitätsbibliothek Regensburg
- Universitätsbibliothek St.Gallen
- Universitäts- und Landesbibliothek Tirol
- GESIS-Leibniz-Institut für Sozialwissenschaften
(Leibniz Institute for the Social Sciences)
- Leibniz Informationszentrum Wirtschaft
(Leibniz Information Centre for Economics)

Knowledge Organization partners

- WIKIMEDIA DEUTSCHLAND
- BARTOC.org. Basel Register of Thesauri, Ontologies & Classifications

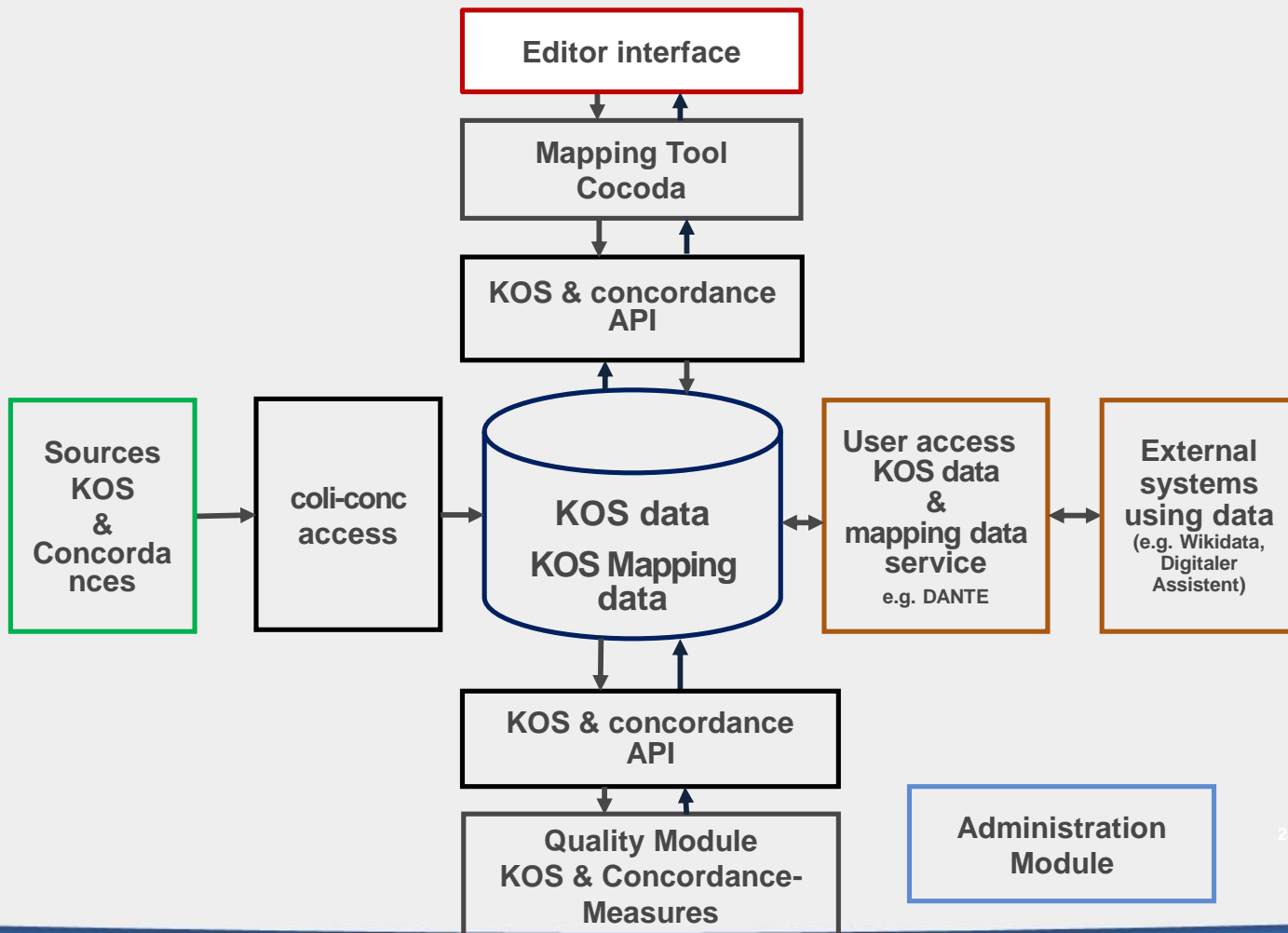
Why this project?

- Manage the heterogeneity in the German library KOS landscape & **create a semantic network of KOS**
- **Catalog enrichment** (Union catalog K10plus of the GBV and BSZ)
- Facilitate sharing KOS and catalog resources
- **Serve as knowledge base to:**
 - support automatic and manual subject indexing
 - Improve browsing, subject searching & aid in query expansion
 - mapping and enriching subject cataloging data and queries between systems
- Contribution to the **further development of software** for mapping and for KOS management
- **Develop, establish formats and standards**
 - For KOS representation and ease of use,
 - To ease KOS exchange,
 - enhance the quality and ease of use of mappings

Objectives

- Effective Creation of Concordances between library KOS
- Building a new data format (JSKOS) to facilitate access and exchange of the KOS and their mappings in a uniform format
- Collect, store, and manage KOS data and mappings in a uniform structure
- Creation of a platform to enable collaborative work and establish best practices for quality assurance of KOS and mappings

coli-conc Functional Infrastructure



Summary Architecture

Cocoda Web Application

- User and Editor interface to KOS, concordances, and mappings
- Developed in JavaScript (Vue framework)
- Open Source

Backend Services

- Terminology Services (DANTE API, BARTOC, Skosmos, MarcXML...)
- Mapping Services and Database (Collected concordances)
- Mapping Suggestions (Co-occurrences and queries)
- Quality Services and Statistics (planned)

coli-conc Components

- The JSKOS data format
- The KOS and concordance registry and database
- Input processes
- The Mapping Tool Cocoda

The JSKOS Data Format

Facilitate representation, use and exchange of KOS and mappings

Requires

- An easy-to-use data format (JSKOS)
- An easy-to-use access method (JSKOS-API)

JSKOS example – Mapping instance

```
{
  "mappingtype": ["http://www.w3.org/2004/02/skos/core#narrowMatch"],
  "fromScheme": {"uri": "http://dewey.info/scheme/edition/e22/"},
  "toScheme": " {"uri": "http://bartoc.org/en/node/454"},
  "from": {
    "memberSet": [ {
      "uri": "http://dewey.info/class/387/e22/",
      "notation": ["387"],
      "preflabel": { "en": "Water, air, space transportation" }
    } ]
  },
  "to": {
    "memberSet": [ {
      "uri": "http://id.loc.gov/authorities/subjects/sh85121579",
      "prefLabel": { "en": "Shipping" }
    } ]
  }
}
```

```
{
  "@context": "http://gbv.github.io/jskos/context.json",
  "from": { "memberSet": [
    { "uri": "http://dewey.info/class/612.112/e23/", "notation": [ "612.112" ] } ] },
  "to": { "memberSet": [ { "uri": "http://rvk.uni-regensburg.de/nt/WW_8840",
    "notation": [ "WW 8840" ] } ] },
  "fromScheme": [
    { "uri": "http://bartoc.org/en/node/241",
      "notation": [ "DDC" ] },
    { "toScheme": [ { "uri": "http://bartoc.org/en/node/533",
      "notation": [ "RVK" ] } ],
      "type": [ "http://www.w3.org/2004/02/skos/core#closeMatch" ],
      "creator": [ { "prefLabel": { "de": "VZG" } } ]
    }
  ]
}
```

```
{...
}, "altLabel": [
  de: ["Leukozyten-Humanphysiologie",
    "Weiße Blutkörperchen- - Humanphysiologie" ]
  "broader": [
    { "uri": "http://dewey.info/class/612.11/e23/" },
  ],
  "narrower": [null],
  "identifier": [ "16d595ff-ec01-3e55-b425-016cf92bb950" ],
  "created": "2000-02-02",
  "modified": "2013-12-04"
}
```

Summary: JSKOS data format

- Based on JSON(-LD) ⇒ **compatible with SKOS/RDF** but easier to use, especially in Web applications
- Defines how to encode repeatable and non-repeatable fields;
- **Can represent concordances, mappings, and registries** (which were lacking in pure SKOS or other formats)
- **Important special features**
 - Confidence level for mappings
 - Elements for concept occurrences and co-occurrences
 - Mappings with multiple concepts, ordered lists
- Treats mappings between KOS elements as first-class entities
 - JSKOS specification <http://gbv.github.io/jskos/>

KOS and Concordance Registry and Database

- **KOS Registry**

- In Collaboration with **BARTOC.org**
- **KOS used today in German-speaking countries**
 - Regensburg Verbund Classification (RVK)
 - Basic Classification (BC)
 - Dewey Decimal Classification (DDC)
 - Library of Congress Classification (LCC)
 - German Subject Headings (GND)
 - Standard Wirtschaft Thesaurus (STW)...
- **Concordances between these KOS**
- Enriched with metadata
- KOS and concordance metadata and actual KOS and mapping data converted into JSKOS and stored
- **Web interface allows to select KOS and concordances**
 - see and download metadata in JSKOS format
 - linked to KOS and mapping data service

KOS and concordance registry and database

- **Concordance Registry**

- contains currently four concordances GND-DDC, STW-GND, DDC 1000-RVK , DDC 1000-BC and mappings between RVK-GND Register, RVK-DDC, BC-DDC, RVK-BC, MSC-BC for a total of over **386.000 mappings**

- **Wikidata mappings**

- The registry contains mappings between Wikidata and other KOS. The data is daily extracted from Wikidata and available as public domain (CC0).

<http://coli-conc.gbv.de/terminologies/>

<http://coli-conc.gbv.de/concordances/>

<http://coli-conc.gbv.de/concordances/wikidata/>

Input processes

- APIs to physically import and reformat KOS and mapping data from many sources.
- APIs that establish a dynamic connection to sources through wrappers. The source becomes a virtual part of the KOS and mappings database

Mapping Tool - Cocoda

- User Exploration Interface and KOS Representation Module
- KOS Suggestion Module
- Mapping Editor Module
- User Authentication and Other Features
- Quality Measure Module

Cocoda Interface

Cocoda Mapping Tool (dev)

Imprint Privacy Policy Feedback Manual ⚡ ⭐ ⚙ Settings

Source Scheme

Search for schemes...

- ★ BK Basisklassifikation
- ★ DDC Dewey Decimal Classification
- ★ GND Integrated Authority File
- ★ RVK Regensburg Classification
- ★ WD Wikidata

Show all 126 schemes

Target Scheme

Search for schemes...

- ★ BK Basisklassifikation
- ★ DDC Dewey Decimal Classification
- ★ GND Integrated Authority File
- ★ RVK Regensburg Classification
- ★ WD Wikidata

Show all 126 schemes

Welcome to Cocoda!

[Manual](#) - [Documentation](#) - [GitHub](#)

[Show Concordances](#) - [Show Mapping Search](#)

User Exploration Interface and KOS Representation Module

- Drop down menu for KOS selection
- Display of Top concept hierarchy
- Hierarchical navigation and detailed display of the concepts
- Display of intra-KOS structural content (scope notes and linked relative index terms, etc.)
- Display of mapping candidates
- Editor Interface

COLI
CONC

Cocoda Mapping Tool (dev)

Imprint Privacy Policy Feedback Manual ★ Stefan Peters

★ RVK Regensburg Classification (0) PUBLIC DOMAIN

Type to search...

RVK Regensburg Classification

(0) PUBLIC DOMAIN by Universitätsbibliothek Regensburg

<http://un-gbv.de/terminology/rvk/>
<https://bartoc.org/en/node/533>
<http://rvk.uni-regensburg.de/nt/>
<http://www.wikidata.org/entity/Q2137453>
<http://id.loc.gov/vocabulary/classSchemes/rvk>
<http://bartoc.org/en/node/533>

Created: May 7, 2018

Modified: May 7, 2018

Available languages: de

Type: Classification schema

Available mappings

Top Concepts

Favorite Concepts

> A Allgemeines

> B Theologie und Religionswissenschaften

> CA - CK Philosophie

> CL - CZ Psychologie

> D Pädagogik

> E Allgemeine und vergleichende Sprach- und Literaturwissenschaft. Indogermanistik. Außereuropäische Sprachen und Literaturen

> F Klassische Philologie. Byzantinistik. Mittellateinische und Neugriechische Philologie. Neulatein

> G Germanistik. Niederlandistik. Skandinavistik

> H Anglistik. Amerikanistik

> I Romanistik

> K Slawistik

> LA - LC Ethnologie

> LD - LG Klassische Archäologie

> LD, LH - LO Kunstgeschichte

> LD, LP - LY Musikwissenschaft

Mapping Editor

Drag and drop a concept here.

→

Drag and drop a concept here.

Stefan Peters

Mapping Browser

Target Scheme

Search for schemes...

★ BK Basisklassifikation

★ DDC Dewey Decimal Classification

★ GND Integrated Authority File

★ RVK Regensburg Classification

★ WD Wikidata

Show all 126 schemes

★ **RVK Regensburg Classification** (0) ZIEL COORDINATE

Q Maschinenbau 23 results

ZL Maschinenbau

RV UX 1450 Maschinenbautechnik, Feinmechanik

[0] ZL 3180 Maschinenbauindustrie

Q ZQ 9930 Maschinenbau und Fertigung

Q ZL 3000 - ZL 3180 Maschinenbau allgemein

Q ZL 3000 Allgemeine, zusammenfassende und übergreifende Darstellungen zum Maschinenbau

Q ZL 3070 Energieeffizienz im Maschinenbau

Q ZL 3100 Populäre Darstellungen des Maschinenbaus

Ci ZL 3150 Geschichte des Maschinenbaus

Available languages: de

Type: Classification schema

Available mappings

Top Concepts Favorite Concepts

- A Allgemeines
- B Theologie und Religionswissenschaften
- CA - CK Philosophie
- CL - CZ Psychologie
- D Pädagogik
- E Allgemeine und vergleichende Sprach- und Literaturwissenschaft. Indogermanistik. Außereuropäische Sprachen und Literaturen
- F Klassische Philologie. Byzantinistik. Mittellateinische und Neugriechische Philologie. Neulatein
- G Germanistik. Niederlandistik. Skandinavistik
- H Anglistik. Amerikanistik
- I Romanistik
- K Slawistik
- LA - LC Ethnologie
- LD - LG Klassische Archäologie
- LD,LH - LO Kunstgeschichte
- LD,LP - LY Musikwissenschaft

Mapping Editor

Drag and drop a concept here.

+

→

Drag and drop a concept here.

+

Stefan Peters

Mapping Browser

Target Scheme

Search for schemes...

- ★ BK Basisklassifikation
- ★ DDC Dewey Decimal Classification
- ★ GND Integrated Authority File
- ★ RVK Regensburg Classification
- ★ WD Wikidata

[Show all 126 schemes](#)

Cocoda Mapping Tool (dev)

Imprint
Privacy Policy
Feedback
Manual
Stefan Peters

RVK Regensburg Classification
Maschinenbau

ZG - ZS Technik
ZL Maschinenbau

Info
Labels
GND
Search Links

<http://rvk.uni-regensburg.de/nt/ZL>
156845
Created: Jul 5, 2012
Modified: Mar 19, 2019

ZL 0001 Zeitschriften
ZL 1000 Fortschrittsberichte und Referateorgane
ZL 1100 - ZL 2200 Bibliografien, Sammelschriften, Biografien
ZL 2250 - ZL 2650 Nachschlagewerke
ZL 2700 - ZL 2750 Ausbildung, Beruf, Forschung
ZL 2800 Beziehungen zu anderen Fachgebieten
ZL 3000 - ZL 3180 Maschinenbau allgemein

Top Concepts
Favorite Concepts

V Chemie und Pharmazie
W Biologie
X - Y Medizin
ZA - ZE Land- und Forstwirtschaft, Gartenbau, Fischereiwirtschaft, Hauswirtschaft
ZG - ZS Technik
ZG Technik allgemein
ZH Architektur
ZI Bauingenieurwesen
ZK Bergbau und Hüttenwesen
ZL Maschinenbau
ZM Werkstoffwissenschaften und Fertigungstechnik
ZN Elektrotechnik, Elektronik, Nachrichtentechnik
ZO Verkehr, Transport
ZP Energietechnik
ZQ Automatisierungstechnik, Mechatronik
ZS Handwerk und Gewerbe. Verschiedene Technologien
ZX - ZY Sport

Mapping Editor

Drag and drop a concept here.

→

Drag and drop a concept here.

Stefan Peters

Target Scheme

Search for schemes...

BK Basisklassifikation
DDC Dewey Decimal Classification
GND Integrated Authority File
RVK Regensburg Classification
WD Wikidata

Show all 126 schemes

Mapping Browser

Cocoda Mapping Tool (dev)

Imprint Privacy Policy Feedback Manual ★ Stefan Peters

RVK Regensburg Classification

Maschinenbau

1 ZG - ZS Technik

2 ZL Maschinenbau

Info Labels GND Search Links

<http://rvk.uni-regensburg.de/nt/ZL>

156845

Created: Jul 5, 2012

Modified: Mar 19, 2019

1 ZL 0001 Zeitschriften

1 ZL 1000 Fortschrittsberichte und Referateorgane

1 ZL 1100 - ZL 2200 Bibliographien, Sammelchriften, Biographien

1 ZL 2250 - ZL 2650 Nachschlagewerke

1 ZL 2700 - ZL 2750 Ausbildung, Beruf, Forschung

1 ZL 2800 Beziehungen zu anderen Fachgebieten

1 ZL 3000 - ZL 3180 Maschinenbau allgemein

Top Concepts Favorite Concepts

V Chemie und Pharmazie

W Biologie

X - Y Medizin

ZA - ZE Land- und Forstwirtschaft, Gartenbau, Fischereiwirtschaft, Hauswirtschaft

ZG - ZS Technik

ZG Technik allgemein

ZH Architektur

ZI Bauingenieurwesen

ZK Bergbau und Hüttenwesen

ZL Maschinenbau

ZM Werkstoffwissenschaften und Fertigungstechnik

ZN Elektrotechnik, Elektronik, Nachrichtentechnik

ZO Verkehr, Transport

ZP Energietechnik

ZQ Automatisierungstechnik, Mechatronik

ZS Handwerk und Gewerbe. Verschiedene Technologien

ZY - ZY Sport

Mapping Editor

Drag and drop a concept here.

→

Drag and drop a concept here.

Stefan Peters

Mapping Browser

DPD Dewey Decimal Classification

Maschinenbau 3 results

621.8 Maschinenbau

621.092 Maschinenbauingenieure

621.81 Allgemeine Themen im Maschinenbau

<http://dewey.info/scheme/edition/623/>

<http://bartoc.org/en/node/241>

Available languages: de

Available mappings

Top Concepts Favorite Concepts

000 Informatik, Informationswissenschaft & allgemeine Werke

100 Philosophie & Psychologie

200 Religion

300 Sozialwissenschaften

400 Sprache

500 Naturwissenschaften

600 Technik, Medizin, angewandte Wissenschaften

600 Technik

610 Medizin & Gesundheit

620 Ingenieurwissenschaften

620 Ingenieurwissenschaften und zugeordnete Tätigkeiten

621 Angewandte Physik

621.04 Spezielle Themen der angewandten Physik

621.092 Maschinenbauingenieure

621.1-621.2 Fluidtechniken

621.3 Elektro-, Magnettechnik, technische Optik, Kommunikations-, Computertechnik; Elektronik, Lichttechnik

621.4 Antriebssysteme und Wärmetechnik

↑ 600 Technik, Medizin, angewandte Wissenschaften

↑ 620 Ingenieurwissenschaften

↑ 621 Angewandte Physik

✖ 621.8 Maschinenbau ★

Info

Labels

GND

Search Links

🔗 <http://dewey.info/class/621.8/e23/>

📄 4f90a0df-2a84-35b1-b128-9d8ba18c256d

Created: Feb 2, 2000

Modified: Nov 2, 2005

↓ 621.80153 Physikalische Prinzipien

↓ 621.80287 Testen und Messen

↓ 621.80288 Instandhaltung und Reparatur

↓ 621.81 Allgemeine Themen im Maschinenbau

↓ 621.82 Maschinenelemente

↓ 621.83 Getriebe, Schalträder, Nocken

↓ 621.84 Ventile und Kolben

↓ 621.85 Kraftübertragungssysteme

↓ 621.86 Fördermittel (Fördergeräte und Förderanlagen)

↓ 621.87 Krane und Aufzüge

↓ 621.88 Befestigungselemente

↓ 621.89 Tribologie



↑ 600 Technik, Medizin, angewandte Wissenschaften

↑ 620 Ingenieurwissenschaften

↑ 621 Angewandte Physik

✖ 621.8 Maschinenbau ★

Info

Labels

GND

Search Links

Maschinenbau (de)

↓ 621.80153 Physikalische Prinzipien

↓ 621.80287 Testen und Messen

↓ 621.80288 Instandhaltung und Reparatur

↓ 621.81 Allgemeine Themen im Maschinenbau

↓ 621.82 Maschinenelemente

↓ 621.83 Getriebe, Schalträder, Nocken

↓ 621.84 Ventile und Kolben

↓ 621.85 Kraftübertragungssysteme

↓ 621.86 Fördermittel (Fördergeräte und Förderanlagen)

↓ 621.87 Krane und Aufzüge

↓ 621.88 Befestigungselemente

↓ 621.89 Tribologie



↑ 600 Technik, Medizin, angewandte Wissenschaften

↑ 620 Ingenieurwissenschaften

↑ 621 Angewandte Physik

⊗ 621.8 Maschinenbau ★



Info

Labels

GND

Search Links

Relevance: very high - Maschinenbau

Relevance: medium - Maschine, Aggregat, Arbeitsmaschine, Mechanismus <Maschinendynamik>, Maschinenpark, Mechanisches Gerät, Konstruktionskatalog

Relevance: low - Verkapseln, Muskelkraftmaschine, Klappmechanismus, Spiel <Technik>, Durchschlagen <Maschinendynamik>, Feinmechanisches Gerät, Hybridbauweise, Konstruktionselement, Gebrauchtmachine

↓ 621.80153 Physikalische Prinzipien

↓ 621.80287 Testen und Messen

↓ 621.80288 Instandhaltung und Reparatur

↓ 621.81 Allgemeine Themen im Maschinenbau

↓ 621.82 Maschinenelemente

↓ 621.83 Getriebe, Schalträder, Nocken

↓ 621.84 Ventile und Kolben

↓ 621.85 Kraftübertragungssysteme

↓ 621.86 Fördermittel (Fördergeräte und Förderanlagen)

↓ 621.87 Krane und Aufzüge

↓ 621.88 Befestigungselemente

↓ 621.89 Tribologie



↑ 600 Technik, Medizin, angewandte Wissenschaften

↑ 620 Ingenieurwissenschaften

↑ 621 Angewandte Physik

* 621.8 Maschinenbau ★



Info

Labels

GND

Search Links

- [Wikipedia \(de\)](#)
- [Wikipedia \(en\)](#)
- [WebDewey Search](#)

↓ 621.80153 Physikalische Prinzipien

↓ 621.80287 Testen und Messen

↓ 621.80288 Instandhaltung und Reparatur

↓ 621.81 Allgemeine Themen im Maschinenbau

↓ 621.82 Maschinenelemente

↓ 621.83 Getriebe, Schalträder, Nocken

↓ 621.84 Ventile und Kolben

↓ 621.85 Kraftübertragungssysteme

↓ 621.86 Fördermittel (Fördergeräte und Förderanlagen)

↓ 621.87 Krane und Aufzüge

↓ 621.88 Befestigungselemente

↓ 621.89 Tribologie



Mapping Suggestion Module

Task: For a caption in the Source KOS (e.g. RVK)
find the **best mapping** in the Target KOS (e.g. DDC)

Four approaches:

1. **Search the mapping database (coli-conc Registry)**
with the Dewey notation
2. **Search Union catalog (Co-Occurrences)**
for records with the Dewey notation that also have a RVK notation
3. **Search the target system (coli-conc Recommendation, ccMapper)**
with the Dewey caption and additional terms using query term expansion
using other KOS and knowledge bases (such as Wikipedia)
4. **Search Wikidata** for mappings

These approaches are automated to the extent possible.

★RVK Regensburg Classification ▼

PUBLIC DOMAIN

Q Maschinenbau

↑ ZG - ZS Technik

⊗ ZL Maschinenbau

Info Labels GND Search Links

🔗 <http://rvk.uni-regensburg.de/nt/ZL>

156845:

Created: Jul 5, 2012

Modified: Mar 19, 2019

- ↑ ZL 0001 Zeitschriften
- ↑ ZL 1000 Fortschrittsberichte und Referateorgane
- ↑ ZL 1100 - ZL 2200 Bibliografien, Sammelchriften, Biografien
- ↑ ZL 2250 - ZL 2650 Nachschlagewerke
- ↑ ZL 2700 - ZL 2750 Ausbildung Berufe

Top Concepts Favorite Concepts

V Chemie und Pharmazie

W Biologie

X - Y Medizin

ZA - ZE Land- und Forstwirtschaft, Gartenbau, Fischereiwirtschaft, Hauswirtschaft

✓ ZG - ZS Technik

ZG Technik allgemein

ZH Architektur

ZI Bauingenieurwesen

ZK Bergbau und Hüttenwesen

ZL Maschinenbau

ZM Werkstoffwissenschaften und Fertigungstechnik

ZN Elektrotechnik, Elektronik, Nachrichtentechnik

ZO Verkehr, Transport

ZP Energietechnik

Mapping Editor

Concordances

Mapping Search

Mapping Navigator

Mappings: C L W

Recommendations: CR CC CO

From	To	Creator	Date
Concordance Registry			
RVK ZL Maschinenbau	GND 4037790-8 Maschinenbau	UB Regen...	2015
RVK UX 1450 Maschinenbautechnik, Feinmechanik	DDC 621.8 Maschinenbau	GESIS	
GND 4037786-6 Maschine	DDC 621.8 Maschinenbau	DNB	
GND 4037790-8 Maschinenbau	DDC 621.8 Maschinenbau	DNB	
Local			
No Mappings			
Wikidata-Mappings			
No Mappings			
coli-conc Recommendations			
RVK ZL Maschinenbau	DDC 621.8 Maschinenbau		
RVK ZL Maschinenbau	DDC 621.8 Maschinenbau		
RVK ZL Maschinenbau	DDC 621.092 Maschinenbauingenieure		
RVK ZL Maschinenbau	DDC 621.81 Allgemeine Themen im Maschinenbau		
ccmapper Mapping Recommendations			
RVK ZL Maschinenbau	DDC 621.8 Maschinenbau		
RVK ZL Maschinenbau	DDC 621.80287 Testen und Messen		
RVK ZL Maschinenbau	DDC 621.81 Allgemeine Themen im Maschinenbau		
RVK ZL Maschinenbau	DDC 621.82 Maschinenelemente		
Co-/Occurrences			
RVK ZL Maschinenbau	—	GVK - GB...	10941
—	DDC 621.8 Maschinenbau	GVK - GB...	938

★DDC Dewey Decimal Classification

BY-NC-ND

Q Maschinenbau

- ↑ 600 Technik, Medizin, angewandte Wissenschaften
- ↑ 620 Ingenieurwissenschaften
- ↑ 621 Angewandte Physik

⊗ 621.8 Maschinenbau

Info Labels GND Search Links

🔗 <http://dewey.info/class/621.8/e23/>

4f90a0df-2a84-35b1-b128-9d8ba18c256d

Created: Feb 2, 2000

Modified: Nov 2, 2005

621.80153 Physikalische Prinzipien

621.80287 Testen und Messen

621.80288 Instanzenbau und Reparatur

Top Concepts Favorite Concepts

Vakuum-, Tieftemperaturtechnik

621.6 Gebläse, Lüfter, Pumpen

621.8 Maschinenbau

621.9 Werkzeuge

622 Bergbau und verwandte Tätigkeiten

623 Militär- und Schiffstechnik

624 Ingenieurbau

625 Eisenbahn- und Straßenbau

626 [Nicht besetzt]

627 Wasserbau

628 Sanitärtechnik

629 Andere Fachrichtungen der Ingenieurwissenschaften

630 Landwirtschaft

640 Hauswirtschaft & Familie

650 Management & Öffentlichkeitsarbeit

Mapping Editor Module

- **Edit, save, and export mappings**
in different formats (JSKOS, CSV, planned Excel,...)

COLI CONC

Cocoda Mapping Tool (dev)

Imprint

Privacy Policy

Feedback

Manual

Stefan Peters

RVK Regensburg Classification

Publ. 2009

RVK

DDC

Maschinenbau

ZG - ZS Technik

ZL Maschinenbau

Info

Labels

GND

Search Links

http://rvk.uni-regensburg.de/nt/ZL

156845

Created: Jul 5, 2012

Modified: Mar 19, 2019

ZL 0001 Zeitschriften

ZL 1000 Fortschrittsberichte und Referateorgane

ZL 1100 - ZL 2200 Bibliografien, Sammelchriften, Biografien

ZL 2250 - ZL 2650 Nachschlagewerke

ZL 2700 - ZL 2750 Aushilfliche Band

Top Concepts

Favorite Concepts

V Chemie und Pharmazie

W Biologie

X - Y Medizin

ZA - ZE Land- und Forstwirtschaft, Gartenbau, Fischereiwirtschaft, Hauswirtschaft

ZG - ZS Technik

ZG Technik allgemein

ZH Architektur

ZI Bauingenieurwesen

ZK Bergbau und Hüttenwesen

ZL Maschinenbau

ZM Werkstoffwissenschaften und Fertigungstechnik

ZN Elektrotechnik, Elektronik, Nachrichtentechnik

ZO Verkehr, Transport

ZP Energietechnik

Mapping Editor

not saved

ZL Maschinenbau

→

621.8 Maschinenbau

Stefan Peters

Concordances

Mapping Search

Mapping Navigator

Mappings: C L W

Recommendations: CR CC CO

From	To	Creator	Date
Concordance Registry 4 of 20 Mappings			
RVK ZL Maschinenbau	GND 4037790-8 Maschinenbau	UB Regen...	2015
RVK UX 1450 Maschinenbautechnik, Feinmechanik	DDC 621.8 Maschinenbau	GESIS	
GND 4037786-6 Maschine	DDC 621.8 Maschinenbau	DNB	
GND 4037790-8 Maschinenbau	DDC 621.8 Maschinenbau	DNB	
Local No Mappings			
Wikidata-Mappings No Mappings			
coli-conc Recommendations 4 of 13 Mappings			
RVK ZL Maschinenbau	DDC 621.8 Maschinenbau		
RVK ZL Maschinenbau	DDC 621.8 Maschinenbau		
RVK ZL Maschinenbau	DDC 621.092 Maschinenbauingenieure		
RVK ZL Maschinenbau	DDC 621.81 Allgemeine Themen im Maschinenbau		
ccmapper Mapping Recommendations 4 of 51 Mappings			

DDC Dewey Decimal Classification

Publ. 2009

DDC

Maschinenbau

600 Technik, Medizin, angewandte Wissenschaften

620 Ingenieurwissenschaften

621 Angewandte Physik

621.8 Maschinenbau

Info

Labels

GND

Search Links

http://dewey.info/class/621.8/e23/

4490a0df-2a84-35b1-b128-9d8ba18c256d

Created: Feb 2, 2000

Modified: Nov 2, 2005

621.80153 Physikalische Prinzipien

621.80287 Testen und Messen

621.80788 Instandhaltung und Reparatur

Top Concepts

Favorite Concepts

Vakuum-, Tieftemperaturtechnik

621.6 Gebläse, Lüfter, Pumpen

621.8 Maschinenbau

621.9 Werkzeuge

622 Bergbau und verwandte Tätigkeiten

623 Militär- und Schiffstechnik

624 Ingenieurbau

625 Eisenbahn- und Straßenbau

626 [Nicht besetzt]

627 Wasserbau

628 Sanitärtechnik

629 Andere Fachrichtungen der Ingenieurwissenschaften

630 Landwirtschaft

640 Hauswirtschaft & Familie

650 Management & Öffentlichkeitsarbeit

50

VZGI

www.gbv.de

COLI-CONC Cocoda Mapping Tool (dev)

Imprint Privacy Policy Feedback Manual Stefan Peters

RVK Regensburg Classification

Maschinenbau

↑ ZG - ZS Technik

↑ ZL Maschinenbau

Info Labels GND Search Links

http://rvk.uni-regensburg.de/nt/ZL

156845

Created: Jul 5, 2012

Modified: Mar 19, 2019

↑ ZL 0001 Zeitschriften

↑ ZL 1000 Fortschrittsberichte und Referateorgane

↑ ZL 1100 - ZL 2200 Bibliografien, Sammelchriften, Biografien

↑ ZL 2250 - ZL 2650 Nachschlagewerke

↑ ZL 2700 - ZL 2750 Ausbildung: Beruf

Top Concepts

Favorite Concepts

> V Chemie und Pharmazie

> W Biologie

> X - Y Medizin

> ZA - ZE Land- und Forstwirtschaft, Gartenbau, Fischereiwirtschaft, Hauswirtschaft

> ZG - ZS Technik

> ZG Technik allgemein

> ZH Architektur

> ZI Bauingenieurwesen

> ZK Bergbau und Hüttenwesen

> ZL Maschinenbau

> ZM Werkstoffwissenschaften und Fertigungstechnik

> ZN Elektrotechnik, Elektronik, Nachrichtentechnik

> ZO Verkehr, Transport

> ZP Energietechnik

Mapping Editor

Drag and drop a concept here.

→

Drag and drop a concept here.

DDC Dewey Decimal Classification

Maschinenbau

↑ 600 Technik, Medizin, angewandte Wissenschaften

↑ 620 Ingenieurwissenschaften

↑ 621 Angewandte Physik

> 621.8 Maschinenbau

Info Labels GND Search Links

http://dewey.info/class/621.8/e23/

4f90a0df-2a84-35b1-b128-9d8ba18c256d

Created: Feb 2, 2000

Modified: Nov 2, 2005

↑ 621.80153 Physikalische Prinzipien

↑ 621.80287 Testen und Messen

↑ 621.80288 Instandhaltung und Reparatur

Top Concepts

Favorite Concepts

Vakuum-, Tieftemperaturtechnik

> 621.6 Gebläse, Lüfter, Pumpen

> 621.8 Maschinenbau

> 621.9 Werkzeuge

> 622 Bergbau und verwandte Tätigkeiten

> 623 Militär- und Schiffstechnik

> 624 Ingenieurbau

> 625 Eisenbahn- und Straßenbau

> 626 [Nicht besetzt]

> 627 Wasserbau

> 628 Sanitärtechnik

> 629 Andere Fachrichtungen der Ingenieurwissenschaften

> 630 Landwirtschaft

> 640 Hauswirtschaft & Familie

> 650 Management & Öffentlichkeitsarbeit

Mapping Details

Source Scheme: RVK Regensburg Classification

Source Concept: ZL Maschinenbau

Target Scheme: DDC Dewey Decimal Classification

Target Concept: 621.8 Maschinenbau

Mapping Type: exact match (=)

Creator: Stefan Peters

Created: Aug 20, 2019, 01:43:27 PM

Modified: Aug 20, 2019, 01:43:27 PM

Identifier: https://coli-conc.gbv.de/api/mappings/33782534-77d8-47fc-9ff1f-48ca249115aa
urn:jskos:mapping:content:2ce430764657fb8e33514ee23f06faed8af3fa03
urn:jskos:mapping:members:21f17e16b12e08625f8383c18650ae005c78efe5

Wikidata-Mappings

No Mappings

coli-conc Recommendations

4 of 13 Mappings

RVK ZL Maschinenbau DDC 621.8 Maschinenbau

RVK ZL Maschinenbau DDC 621.8 Maschinenbau

RVK ZL Maschinenbau DDC 621.092 Maschinenbauingenieure

RVK ZL Maschinenbau DDC 621.81 Allgemeine Themen im Maschinenbau

cmmapper Mapping Recommendations

4 of 51 Mappings

51

VZGI

www.gbv.de

User Authentication and Other Features



You are not logged in.

Log in

★ **BK** Basisklass

★ **DDC** Dewey

★ **GND** Integra

★ **RVK** Regensk

★ **WD** Wikidata

[Show all 126 sch](#)

Account

User Interface

Shortcuts

Data Sources

Local Mappings

 [GitHub](#) • Version 1.0.1

Cocoda Settings

Account

User Interface

Shortcuts

Data Sources

Local Mappings

The following information is stored in all your mappings so it may also be shared:

Name

Enter your name

Identity (must be an URI, is automatically filled after login)

https://

✓

Log in via GitHub

Log in via ORCID

Log in via StackExchange

Log in via Wikidata

VZGI

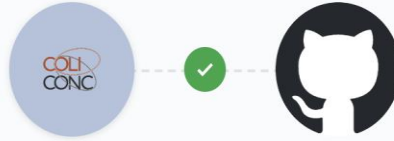
Log in via LDAP (VZG)

kenom

virtuelles Manuskript

Log in via KENOM

Cocoda uses a dedicated [login server](#) to authenticate users: [Imprint](#) • [Privacy Policy](#)



Authorize Cocoda Mapping Tool



Cocoda Mapping Tool by [gbv](#)

wants to access your **stefandesu** account



Public data only

Limited access to your public data ...

Authorize gbv

Authorizing will redirect to
<https://coli-conc.gbv.de>



Not owned or
operated by GitHub



Created
7 months ago



Fewer than 100
GitHub users

[Learn more about OAuth](#)

Login Server

Logged in as [Stefan Peters](#)

Logout

You have been logged in.

Name:

Stefan Peters

Change

Connected Identities



GitHub

Stefan Peters

Disconnect

<https://github.com/stefandesu>

Cocoda Settings



Account

User Interface

Shortcuts

Data Sources

Local Mappings

Profile

The following information is stored in all your mappings so it may also be shared:

Name

Stefan Peters

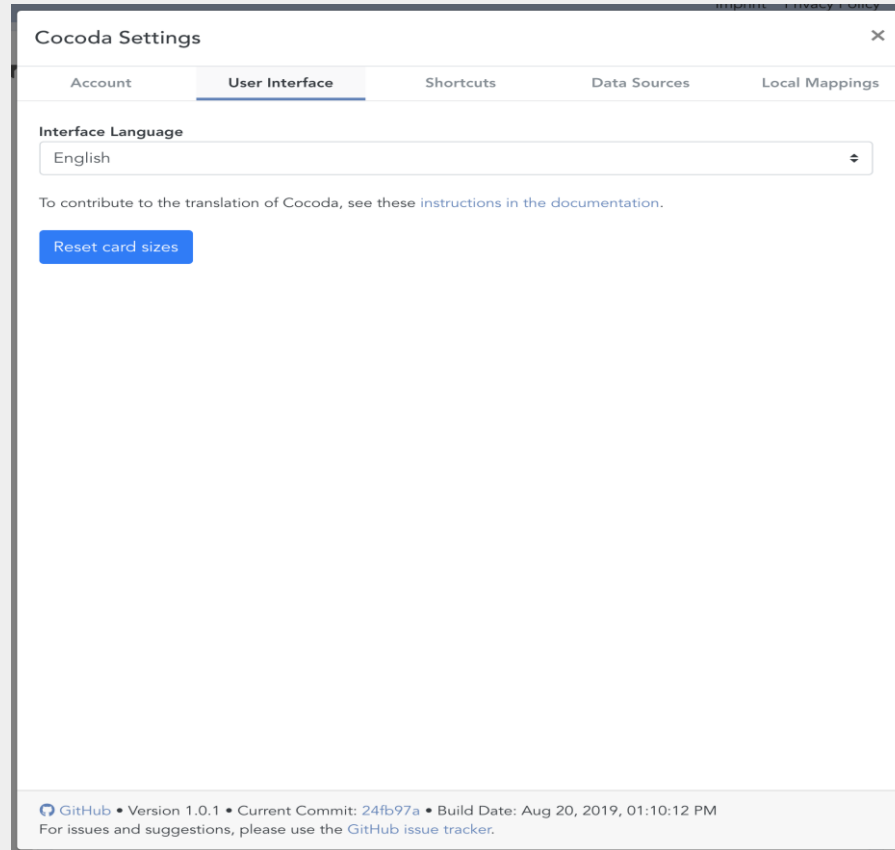
Identity (must be an URI, is automatically filled after login)

<https://coli-conc.gbv.de/login/users/c0c1914a-f9d6-4b92-a624-bf44118b6619>



You are logged in. [Account Page](#) • [Log out](#)

Cocoda uses a dedicated [login server](#) to authenticate users: [Imprint](#) • [Privacy Policy](#)



Cocoda Settings

AccountUser InterfaceShortcutsData SourcesLocal Mappings

G

Integrated Authority File

Access to a copy of GND at VZG

<http://coli-conc.gbv.de/registry/gnd-concepts>

✓ Schemes

WD

Wikidata

Access to Wikidata in JSKOS format

<http://coli-conc.gbv.de/registry/wikidata-concepts>

✓ Schemes

RVK

Regensburger Verbundklassifikation

<http://coli-conc.gbv.de/registry/coli-conc-rvk>

✓ Schemes ✓ Concepts

J

JSKOS Server

central JSKOS server instance of coli-conc

<http://coli-conc.gbv.de/registry/coli-conc-concepts>

✓ Schemes ✓ Concepts

D

DANTE

DANTE API with vocabularies at VZG

<http://coli-conc.gbv.de/registry/dante-concepts>

✓ Schemes

L

Local

Mappings saved locally in the browser

<http://coli-conc.gbv.de/registry/local-mappings>

✓ Mappings

C

Concordance Registry

Central concordance registry of coli-conc

<http://coli-conc.gbv.de/registry/coli-conc-mappings>

✓ Mappings ✓ Authenticated

W

Wikidata-Mappings

Access to Wikidata mappings in JSKOS format

<http://coli-conc.gbv.de/registry/wikidata-mappings>

✓ Mappings ✓ Authenticated

Git

• Version 1.0.1 • Current Commit: [24fb97a](#) • Build Date: Aug 20, 2019, 01:10:12 PM

For issues and suggestions, please use the [GitHub issue tracker](#).

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VZGI

www.gbv.de

Cocoda Settings

Account

User Interface

Shortcuts

Data Sources

Local Mappings

Local Mappings

Local mappings are only stored in your current browser. They are not visible to other users, but they will get lost if you purge your browser's local storage.

Download Local Mappings

WD to BK (1): [JSKOS CSV](#)
DDC to WD (1): [JSKOS CSV](#)
DDC to BK (2): [JSKOS CSV](#)
DDC to RVK (1): [JSKOS CSV](#)

[Download all 5 mappings as JSKOS](#)

Upload Local Mappings (JSKOS)

Browse

Delete Local Mappings


Delete all local mappings

Rewrite Creator

Clicking the button below will rewrite the creator for all local mappings with the following information:

Name: Stefan Peters
URI: <https://github.com/stefandesu>

Rewrite creator for all local mappings

 [GitHub](#)

 • Version 1.0.1 • Current Commit: [24fb97a](#) • Build Date: Aug 20, 2019, 01:10:12 PM
For issues and suggestions, please use the [GitHub issue tracker](#).

Manual, Feedback and Releases

Cocoda User Manual

version 1.0.1 (2019-08-20)

Introduction

Cocoda should be usable with any modern web browser (at least Firefox and Chromium). The application requires at least HD resolution (1366×768) but FHD (1920×1080) or more is highly recommended. Using Fullscreen also shows pictures better.

User Interface

The user interface is divided into several **cards** which can be resized and arranged in different configurations. Most of these cards are implemented as **components** which can also be used in other web applications.

- By default, the left and right side of the interface allow **browsing in concept schemes** to inspect and select concepts from source and target vocabulary respectively.
- In between there are several cards to create, modify, browse, and evaluate **mappings and mapping recommendations**.

All cards can be hidden with a **minimize button** in the top right of each card and resized by dragging on the **divider line** between cards.



<https://gbv.github.io/cocoda/#manual>

Feedback zum Mapping-Tool Cocoda

Fehlerhinweise, Verbesserungsvorschläge oder Fragen: jede Form von Feedback ist willkommen!

Sie können auch direkt mit uns Kontakt aufnehmen (<http://coli-conc.gbv.de/contact/>) und unter <https://github.com/gbv/cocoda/issues> Tickets einsehen und erstellen.

Benutzerfreundlichkeit

Ist die Benutzeroberfläche verständlich, leicht zu bedienen und intuitiv? Was lässt sich verbessern?

Your answer

Funktionalität

Welche Funktionen sollten ergänzt oder geändert werden? Benutzerverwaltung, Mapping-Vorschläge und Export von Mappings ist bereits geplant.


Your answer

Sonstige Kommentare

Your answer

SUBMIT

Never submit passwords through Google Forms.

 Search or jump to... Pull requests Issues Marketplace Explore

gbv / cocoda

Unwatch 2 Unstar 13 Fork 2

Code Issues 85 Pull requests 0 Wiki Security Insights Settings

Releases Tags

Draft a new release

Latest release

1.0.1
#111e69
Verified

stefandesu released this 6 days ago

Cocoda 1.0.1 is a minor update with only a few visible changes.

- Annotations of type `moderating` are now shown for mappings. These mappings will have a checkmark instead of the number of votes. (#442)
 - Note that it is currently not possible to add a `moderating` annotation inside Cocoda.
- Added a separate subpage showing a reduced interface with only the Mapping Browser (concordances and mapping search). It is available under `./concordances.html`.
- Improve tab appearance.
- Improved annotations.
- Other small changes and improvements. (e.g. #431)

Assets 3

cocoda-1.0.1.zip3.27 MB

Source code (zip)

Source code (tar.gz)

1.0.0
#12526f
Verified

stefandesu released this on Jul 2

Cocoda 1.0.0

VZGI

www.gbv.de

64

Quality Module - KOS and Concordances Measures

- **Assignment of** confidence level, relationship types or ranking based on expert criteria and established standards
- **Identifying and classifying errors**
- **Generating statistical data** and information on Mappings:
 - Per KOS
 - Per topic/subject field
 - On frequency of search terms
 - Completeness
 - Correctness (expert reviewed)
 - Institution/Creator
 - New entries and date of creation

KOS and Mapping Data Services and Connection to other Systems

- PICA Cataloguing software (WinIBW)
- Digitaler Assistent (Subject indexing software)
- DANTE (VZG- KOS hosting Service)
- BARTOC
- Wikidata

Next Steps

- Ingesting more KOS and mapping data
- Further development of the KK Suggest module for other KOS
- Implementing measures for quality assessment
- Defining criteria for establishing mapping relationships types, especially for RVK-DDC
- Linking to cataloguing software and indexing tools
- Editing Wikidata mappings in Cocoda and export to Wikidata
- K10plus Union catalog enrichment (development of an API to export mappings from coli-conc Registry to the union catalogue)

Mapping Tool : ccMapper

Live Demo

Peter Werling



Peter Werling

Pansoft GmbH
