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# Cocoda Mapping Tool

Stefan Peters  
Verbundzentrale des GBV (VZG)  
[stefan.peters@gbv.de](mailto:stefan.peters@gbv.de)

# What is Cocoda?

- Cocoda is a web-based tool for semi-automatic creation of mappings between different knowledge organization systems (KOS).
- Goal: Move away from Excel spreadsheets and multiple browser tabs for research, and integrate everything into one interface.
- Primarily developed with library classifications (DDC, RVK, BK, GND, ...) in mind, but supports all kinds of other KOS as well.

# Background

- Developed by the GBV Head Office (VZG) in Göttingen, Germany.
- Part of Project coli-conc:  
<https://coli-conc.gbv.de>
- The mapping tool and its related services are available as open source repositories on GitHub.
- The data is openly available through APIs.

# Data Sources

- Data sources use the JSKOS format (SKOS in JSON-LD, <https://gbv.github.io/jskos/>).
- In Cocoda, different sources are configurable for
  - vocabularies
  - concepts
  - existing mappings
  - mapping recommendations

# Converting and Providing Data

- There are tools to convert data into JSKOS, but we're working on improving those.
- You can either host your own instance of our server to offer JSKOS data, or send us the data so we can import it.
- We are also planning to make the tools more flexible (e.g. to be able to easily add your own data sources without dealing with config files).

# Mappings

- Project colo-conc collected existing concordances with around 385,000 mappings.
- Additionally, mapping data from Wikidata is available.
- First use in production by Project KENOM (<https://www.kenom.de>):
  - Mapping of local systems to GND, Wikidata, Nomisma, and others.
  - ~28,000 mappings created since November 2018.

# Semi-automatic Mapping

- Cocoda aims to help with manual and **semi-automatic** mapping.
- Different algorithms that provide mapping recommendations:
  - coli-conc recommendations: simple string matching in target vocabulary
  - CCMapper: created in cooperation with Pansoft, used only for RVK-DDC mappings
  - Catalog co-occurrences
  - OpenRefine Reconciliation API: uses a more complicated strong matching (only for GND and Wikidata)

# Multilanguage Support

- Cocoda has support for multiple interface languages, currently English and German.
- New languages can be added easily (contact us if you'd like to add Swedish 😊).
- Supports vocabulary data in multiple languages, e.g. Wikidata.
  - Currently, most of the available vocabularies in Cocoda are in German.

# Additional Services

- KOS Registry (with API)
- Concordance Registry (with API)
- Wikidata/GND Mappings
- Concept Co-Occurrences
- coli-ana (DDC analysis)
  - in development

# KOS Registry

VZG |

Verbundzentrale des GBV (VZG)



## KOS Registry

This list contains a collection of knowledge organization systems relevant to project coli-conc. The metadata is a subset of [BARTOC](#), also [available for download](#). See also [BARTOC dumps](#) for full downloads.

Thesaurus

Name authority list

Subject heading scheme

Classification scheme

[expand all](#)   [collapse all](#)

### **title**

**Mathematics Subject Classification (MSC)**

**Physics and Astronomy Classification Scheme (PACS)**

**Classification Digital Library**

**Classification for music libraries**

**Klassifikation des Deutschen Patent- und Markenamts (DEKLA)**

**Systematik für Evangelische Büchereien (SEB)**

**Nonfiction classification of Catholic public libraries (SKB)**

**Systematik für Kinder- und Jugendbibliotheken (SKJ)**

**Systematik der Stadtbibliothek Duisburg (SSD)**

**Einheitssystematik für Südtiroler Bibliotheken (ESSB)**

**Gemeinsame Normdatei (GND)**

**Standard Thesaurus Wirtschaft (STW)**

**Universal Decimal Classification (UDC)**

**Dewey Decimal Classification (DDC)**

"The Dewey Decimal Classification (DDC) system, devised by library pioneer Melvil Dewey in the 1870s and owned by OCLC since 1988, provides a dynamic structure for the organization of library collections. Now in its 23rd edition, and available in print and Web versions, the DDC is the world's most widely used library classification system."

**DDC: 001, 025**

VZG |

[www.gbv.de](http://www.gbv.de)

# Concordance Registry

VZG | Verbundzentrale des GBV (VZG)



## Concordances

We collect concordances and mappings in a public database run with [jskos-server](#). The database can be queried via this web interface and via an API at <https://coli-conc.gbv.de/api/>.

| from | x      | to   | x                           | creator | x                         | date     | download  | mappings | CSV |
|------|--------|--|-----------------------------|---------|---------------------------|----------|---|----------|-----|
| from | to     | description                                    | creator                     | date    | download                  | mappings | CSV   | CSV      | CSV |
| DDC  | RVK    | DDC 1000er-Klassen                             | VZG                         | 2013    | <a href="#">JSKOS CSV</a> | 2,033    |  |          |     |
| RVK  | BK     | Recht  | ULB Tirol                   | 2013    | <a href="#">JSKOS CSV</a> | 15,045   |  |          |     |
| DDC  | BK     | Full DDC up to three digits                    | VZG                         |         | <a href="#">JSKOS CSV</a> | 1,223    |  |          |     |
| RVK  | DDC    | TA-TD Allgemeine Naturwissenschaft             | GESIS                       |         | <a href="#">JSKOS CSV</a> | 68       |  |          |     |
| DDC  | BK     | Chemie   | TUB Hamburg-Harburg         |         | <a href="#">JSKOS CSV</a> | 99       |  |          |     |
| DDC  | RVK    | Mathematik                                     | Philipp Zumstein            | 2016    | <a href="#">JSKOS CSV</a> | 40       |  |          |     |
| RVK  | BK     | Germanistik                                    | ULB Tirol                   | 2013    | <a href="#">JSKOS CSV</a> | 23,379   |  |          |     |
| RVK  | DDC    | Chemie und Pharmazie                           | GESIS                       |         | <a href="#">JSKOS CSV</a> | 771      |  |          |     |
| RVK  | DDC    | U Physik                                       | GESIS                       |         | <a href="#">JSKOS CSV</a> | 1,335    |  |          |     |
| DDC  | RVK    | Bibliotheks- und<br>Informationswissenschaften | HdM Stuttgart               | 2009    | <a href="#">JSKOS CSV</a> | 378      |  |          |     |
| RVK  | GND    | GND-Indexterme der RVK                         | UB Regensburg               | 2015    | <a href="#">JSKOS CSV</a> | 94,195   |  |          |     |
| DDC  | ixtheo | DDC zu IxTheo-Klassifikation                   | Timotheus Chang Whae<br>Kim |         | <a href="#">JSKOS CSV</a> | 586      |  |          |     |
| RVK  | BK     | Wirtschaft                                     | ULB Tirol                   | 2013    | <a href="#">JSKOS CSV</a> | 758      |  |          |     |
| DDC  | BK     | Politikwissenschaft                            | SUB Hamburg                 |         | <a href="#">JSKOS CSV</a> | 655      |  |          |     |
| DDC  | RVK    | Philosophie und Psychologie (1--)              | VZG                         |         | <a href="#">JSKOS CSV</a> | 1,058    |  |          |     |

# Cocoda Live Demo

- <https://coli-conc.gbv.de/cocoda/app/>
- Note: DDC in English is currently not available in the release version of the tool, it is only used here for demo purposes.

**Source Scheme** all 

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

[Show 157 more](#)**Target Scheme** all 

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

[Show 157 more](#)

Welcome to Cocoda!

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

★ DDC Dewey Decimal Classification ✖

Type to search...

DDC Dewey Decimal Classification

- 🔗 <http://bartoc.org/en/node/241>
- 🔗 <http://dewey.info/scheme/edition/e23/>
- 🔗 <http://www.wikidata.org/entity/Q48460>
- 🔗 <http://id.loc.gov/ontologies/bibframe/ClassificationDdc>
- 🔗 <http://www.bl.uk/schemas/bibliographic/blterms#TopicDDC>

Available mappings

...

> 000 Computer science, information & general works

> 100 Philosophy & psychology

> 200 Religion

> 300 Social sciences

> 400 Language

> 500 Science

> 600 Technology

> 700 Arts & recreation

> 800 Literature

> 900 History & geography

> T1--0 Table 1. Standard Subdivisions

> T2--0 Table 2. Geographic Areas, Historical Periods, Biography

T3--0 Table 3. Subdivisions for the Arts, for

Mapping Editor

Drag and drop a concept here.

+

Drag and drop a concept here.

+

...

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Mapping Browser

Available Mappings ▾

L C

Automatic Mappings ▾

CR CC WR

Select a concept to see mappings and mapping recommendations

★ WD Wikidata [0] PUBLIC DOMAIN ✖

Type to search...

WD Wikidata

[0] PUBLIC DOMAIN

- 🔗 <http://bartoc.org/en/node/1940>
- 🔗 <http://www.wikidata.org/entity/2013>

Available languages: de, en

Available mappings

...

No Tree Available



★ DDC Dewey Decimal Classification

Economics

↑ 300 Social sciences  
↑ 330 Economics  
**330 Economics**

Info Search Links

http://dewey.info/class/330/e23/  
Label (en): Economics

↓ 330.01 Philosophy and theory  
↓ 330.02-330.08 Standard subdivisions  
↓ 330.09 History, geographic treatment, biography

...  
320 Political science  
330 Economics  
**330 Economics**  
331-333 Economics of labor, finance, land, energy  
334 Cooperatives  
335 Socialism and related systems  
336 Public finance  
337 International economics  
338 Production  
339 Macroeconomics and related topics  
340 Law  
350 Public administration & military science  
360 Social problems & social services  
370 Education

### Mapping Editor

Drag and drop a concept here.

+

Drag and drop a concept here.

+

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### Mapping Browser

Available Mappings ▾      Automatic Mappings ▾

L C      CR CC WR

| From                                     | To                     | Actions |
|--|------------------------|---------|
| L Local: no results                      |                        |         |
| C Concordance Registry: no results       |                        |         |
| CR colo-conc Recommendations: no results |                        |         |
| WR DDC 330 Economics                     | ≈ WD Q8134 economics   | ⓘ ⓘ ⓘ   |
| WR " 330 Economics                       | ≈ " Q3132462 Economics | ⓘ ⓘ ⓘ   |
| WR " 330 Economics                       | ≈ " Q4530324 Economics | ⓘ ⓘ ⓘ   |

★ WD Wikidata [0] PUBLIC DOMAIN

Economics

WD Wikidata [0] PUBLIC DOMAIN

http://bartoc.org/en/node/1940  
http://www.wikidata.org/entity/2013

Available languages: de, en

Available mappings

No Tree Available



**★ DDC Dewey Decimal Classification**

economics

↑ 300 Social sciences  
↑ 330 Economics  
**330 Economics** +

**Info** **Search Links**

<http://dewey.info/class/330/e23/>  
Label (en): Economics

↓ 330.01 Philosophy and theory  
↓ 330.02-330.08 Standard subdivisions  
↓ 330.09 History, geographic treatment, biography /

...  
320 Political science  
330 Economics  
**330 Economics**  
331-333 Economics of labor, finance, land, energy  
334 Cooperatives  
335 Socialism and related systems  
336 Public finance  
337 International economics  
338 Production  
339 Macroeconomics and related topics  
340 Law  
350 Public administration & military science  
360 Social problems & social services  
370 Education

### Mapping Editor

Drag and drop a concept here.

Drag and drop a concept here.

+ +

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### Mapping Browser

Available Mappings ▾ L C

Automatic Mappings ▾ CR CC WR

| From                               | To                     | Actions  |
|------------------------------------|------------------------|--|
| Local: no results                  |                        |  |
| C Concordance Registry: no results |                        |  |
| CR DDC 330 Economics               | WD Q8134 economics     | <span style="border: 1px solid orange; padding: 2px;">i</span> <span style="border: 1px solid orange; padding: 2px;">e</span> <span style="border: 1px solid orange; padding: 2px;">d</span> |
| CR " 330 Economics                 | " Q8134 economics      | <span style="border: 1px solid orange; padding: 2px;">i</span> <span style="border: 1px solid orange; padding: 2px;">e</span> <span style="border: 1px solid orange; padding: 2px;">d</span> |
| CR " 201.73 Economics              | " Q8134 economics      | <span style="border: 1px solid orange; padding: 2px;">i</span> <span style="border: 1px solid orange; padding: 2px;">e</span> <span style="border: 1px solid orange; padding: 2px;">d</span> |
| CR " 261.85 Economics              | " Q8134 economics      | <span style="border: 1px solid orange; padding: 2px;">i</span> <span style="border: 1px solid orange; padding: 2px;">e</span> <span style="border: 1px solid orange; padding: 2px;">d</span> |
| CR " T3C--3553 Economics           | " Q8134 economics      | <span style="border: 1px solid orange; padding: 2px;">i</span> <span style="border: 1px solid orange; padding: 2px;">e</span> <span style="border: 1px solid orange; padding: 2px;">d</span> |
| ...                                |                        |  |
| WR DDC 330 Economics               | ≈ WD Q8134 economics   | <span style="border: 1px solid orange; padding: 2px;">i</span> <span style="border: 1px solid orange; padding: 2px;">e</span> <span style="border: 1px solid orange; padding: 2px;">d</span> |
| WR " 330 Economics                 | ≈ " Q3132462 Economics | <span style="border: 1px solid orange; padding: 2px;">i</span> <span style="border: 1px solid orange; padding: 2px;">e</span> <span style="border: 1px solid orange; padding: 2px;">d</span> |
| WR " 330 Economics                 | ≈ " Q4530324 Economics | <span style="border: 1px solid orange; padding: 2px;">i</span> <span style="border: 1px solid orange; padding: 2px;">e</span> <span style="border: 1px solid orange; padding: 2px;">d</span> |

**★ WD Wikidata [0] PUBLIC DOMAIN**

economics

↑ Q34749 social science

✗ Q8134 economics +

**Scope** **Info** **Search Links**

social science that analyzes the production, distribution, and consumption of goods and services

No Tree Available

★ DDC Dewey Decimal Classification

economics

↑ 300 Social sciences  
↑ 330 Economics  
**330 Economics**

Info Search Links

<http://dewey.info/class/330/e23/>

Label (en): Economics

↓ 330.01 Philosophy and theory  
↓ 330.02-330.08 Standard subdivisions  
↓ 330.09 History, geographic treatment, biography

> 320 Political science  
▼ 330 Economics  
  > 330 Economics  
    > 331-333 Economics of labor, finance, land, energy  
    > 334 Cooperatives  
    > 335 Socialism and related systems  
    > 336 Public finance  
    > 337 International economics  
    > 338 Production  
    > 339 Macroeconomics and related topics  
  > 340 Law  
  > 350 Public administration & military science  
  > 360 Social problems & social services  
  > 370 Education

### Mapping Editor

Drag and drop a concept here.

Drag and drop a concept here.

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### Mapping Browser

| From                               | To                     | Actions          |
|------------------------------------|------------------------|------------------|
| Local: no results                  |                        |                  |
| C Concordance Registry: no results |                        |                  |
| CR DDC 330 Economics               | WD Q8134 economics     | info edit delete |
| CR " 330 Economics                 | " Q8134 economics      | info edit delete |
| CR " 201.73 Economics              | " Q8134 economics      | info edit delete |
| CR " 261.85 Economics              | " Q8134 economics      | info edit delete |
| CR " T3C--3553 Economics           | " Q8134 economics      | info edit delete |
| WR DDC 330 Economics               | ≈ WD Q8134 economics   | info edit delete |
| WR " 330 Economics                 | ≈ " Q3132462 Economics | info edit delete |
| WR " 330 Economics                 | ≈ " Q4530324 Economics | info edit delete |

save as mapping

★ WD Wikidata [0] PUBLIC DOMAIN

economics

↑ Q34749 social science

✗ Q8134 economics

Scope Info Search Links

social science that analyzes the production, distribution, and consumption of goods and services

No Tree Available

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www.gbv.de



★ DDC Dewey Decimal Classification

economics

↑ 300 Social sciences  
↑ 330 Economics  
**330 Economics**

**Info** **Search Links**

<http://dewey.info/class/330/e23/>  
Label (en): Economics

↓ 330.01 Philosophy and theory  
↓ 330.02-330.08 Standard subdivisions  
↓ 330.09 History, geographic treatment, biography

...  
320 Political science  
330 Economics  
**330 Economics**  
331-333 Economics of labor, finance, land, energy  
334 Cooperatives  
335 Socialism and related systems  
336 Public finance  
337 International economics  
338 Production  
339 Macroeconomics and related topics  
340 Law  
350 Public administration & military science  
360 Social problems & social services  
370 Education

### Mapping Editor

Drag and drop a concept here.

+

Drag and drop a concept here.

+

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### Mapping Browser

Available Mappings ▾ Automatic Mappings ▾

L C CR CC WR

| From                             | To                     | Actions       |
|----------------------------------|------------------------|---------------|
| DDC 330 Economics                | ≈ WD Q8134 economics   | i edit delete |
| Concordance Registry: no results |                        |               |
| CR DDC 330 Economics             | WD Q8134 economics     | i edit delete |
| CR " 330 Economics               | " Q8134 economics      | i edit delete |
| CR " 201.73 Economics            | " Q8134 economics      | i edit delete |
| CR " 261.85 Economics            | " Q8134 economics      | i edit delete |
| CR " T3C--3553 Economics         | " Q8134 economics      | i edit delete |
| ...                              |                        |               |
| WR DDC 330 Economics             | ≈ WD Q8134 economics   | i edit delete |
| WR " 330 Economics               | ≈ " Q3132462 Economics | i edit delete |

★ WD Wikidata [0] PUBLIC DOMAIN

economics

Q34749 social science

**Q8134 economics**

**Scope** **Info** **Search Links**

social science that analyzes the production, distribution, and consumption of goods and services

No Tree Available



★ DDC Dewey Decimal Classification

Algebra

↑ 500 Science  
↑ 510 Mathematics

✗ 512 Algebra

Info Search Links

http://dewey.info/class/512/e23/  
Label (en): Algebra

↓ 512.001-512.009 Standard subdivisions  
↓ 512.02 Abstract algebra  
↓ 512.1 Algebra combined with other branches of

...  
510 Mathematics  
511 General principles of mathematics  
512 Algebra  
513 Arithmetic  
514 Topology  
515 Analysis  
516 Geometry  
517 [Unassigned]  
518 Numerical analysis  
519 Probabilities and applied mathematics  
520 Astronomy  
530 Physics  
540 Chemistry  
550 Earth sciences & geology  
560 Fossils & prehistoric life

### Mapping Editor

Drag and drop a concept here.

Drag and drop a concept here.

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### Mapping Browser

Available Mappings ▾ Automatic Mappings ▾

L C CR CC WR

| From                                      | To                              |
|---|---------------------------------|
| L Local: no results                       |                                 |
| C Concordance Registry: no results        |                                 |
| CR colic-conc Recommendations: no results |                                 |
| WR DDC 512 Algebra                        | ≈ WD Q3968 algebra              |
| WR " 512 Algebra                          | ≈ " Q205464 algebraic structure |

save and edit

★ WD Wikidata [0] PUBLIC DOMAIN

Algebra

WD Wikidata [0] PUBLIC DOMAIN

http://bartoc.org/en/node/1940  
http://www.wikidata.org/entity/2013

Available languages: de, en

Available mappings

No Tree Available

★ DDC Dewey Decimal Classification

Algebra

↑ 500 Science  
↑ 510 Mathematics

512 Algebra

Info Search Links

<http://dewey.info/class/512/e23/>

Label (en): Algebra

↓ 512.001-512.009 Standard subdivisions  
↓ 512.02 Abstract algebra  
↓ 512.1 Algebra combined with other branches of

...  
510 Mathematics  
511 General principles of mathematics  
512 Algebra  
513 Arithmetic  
514 Topology  
515 Analysis  
516 Geometry  
517 [Unassigned]  
518 Numerical analysis  
519 Probabilities and applied mathematics  
520 Astronomy  
530 Physics  
540 Chemistry  
550 Earth sciences & geology  
560 Fossils & prehistoric life

Mapping Editor

DDC      WD

512 Algebra

= exact match

> < Q3968 algebra

~ →

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Mapping Browser

Available Mappings ▾   Automatic Mappings ▾

L C CR CC WR

| From                                     | To                              | Actions |
|--|---------------------------------|---------|
| DDC 512 Algebra                          | ≈ WD Q3968 algebra              | ⓘ ⓘ ⓘ   |
| C Concordance Registry: no results       |                                 |         |
| CR coli-conc Recommendations: no results |                                 |         |
| WR DDC 512 Algebra                       | ≈ WD Q3968 algebra              | ⓘ ⓘ ⓘ   |
| WR " 512 Algebra                         | ≈ " Q205464 algebraic structure | ⓘ ⓘ ⓘ   |

★ WD Wikidata [0] PUBLIC DOMAIN

Algebra

WD Wikidata

[0] PUBLIC DOMAIN

<http://bartoc.org/en/node/1940>

<http://www.wikidata.org/entity/2013>

Available languages: de, en

Available mappings

No Tree Available

The screenshot shows the Mapping Editor interface with three main panels: DDC, WD, and a central Mapping Browser.

**DDC Panel:** Shows the path from Science to Mathematics, then to 512 Algebra, which is highlighted in yellow. Below it is a tree view of categories like 510 Mathematics, 511 General principles of mathematics, etc.

**WD Panel:** Shows the Wikidata search results for "Algebra".

**Central Panel:** The Mapping Editor interface. It displays a mapping between "512 Algebra" (DDC) and "Q3968 algebra" (Wikidata). A red arrow points to the "save mapping" button. The Mapping Browser below shows four mappings:

| From                                      | ≈ | To                          |
|---|---|-----------------------------|
| L DDC 512 Algebra                         | ≈ | WD Q3968 algebra            |
| C Concordance Registry: no results        | ≈ |                             |
| CR colic-conc Recommendations: no results | ≈ |                             |
| WR DDC 512 Algebra                        | ≈ | WD Q3968 algebra            |
| WR " 512 Algebra                          | ≈ | Q205464 algebraic structure |

**Bottom Right:** A message "No Tree Available" is displayed.

★ DDC Dewey Decimal Classification

Plasma

> ↑ 600 Technology  
⋮  
↑ 612.11 Blood

✖ 612.116 Plasma +

Info Search Links

🔗 <http://dewey.info/class/612.116/e23/>

Label (en): Plasma

corpuscles)  
612.115 Coagulation (Clotting)  
612.116 Plasma +  
612.117 Platelets  
➤ 612.118 Biophysics and biological properties  
612.12 Blood chemistry  
➤ 612.13-612.18 Circulation  
➤ 612.3 Digestive system  
➤ 612.6 Reproduction, development, maturation  
➤ 612.9 Regional physiology  
➤ 613 Personal health and safety  
➤ 614 Forensic medicine; incidence of injuries, wounds, disease; public preventive medicine

Mapping Editor

Drag and drop a concept here.

+

Drag and drop a concept here.

+

↔ ☰ 🗑️ ✘

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Mapping Browser

Available Mappings ▾ L C Automatic Mappings ▾ CR CC WR

| From                                     | To                         | Operations |
|--|----------------------------|------------|
| L Local: no results                      |                            |            |
| C Concordance Registry: no results       |                            |            |
| CR coli-conc Recommendations: no results |                            |            |
| WR DDC 612.116 Plasma                    | ≈ WD Q10251 plasma         | ⓘ ⓘ ⓘ      |
| WR " 612.116 Plasma                      | ≈ " Q79749 blood plasma    | ⓘ ⓘ ⓘ      |
| WR " 612.116 Plasma                      | ≈ " Q185146 plasma display | ⓘ ⓘ ⓘ      |

★ WD Wikidata [0] PUBLIC DOMAIN

Plasma

WD Wikidata [0] PUBLIC DOMAIN

🔗 <http://bartoc.org/en/node/1940>

🔗 <http://www.wikidata.org/entity/2013>

Available languages: de, en

Available mappings

No Tree Available

DDC Dewey Decimal Classification

plasma

600 Technology  
612.11 Blood  
**612.116 Plasma**

Info Search Links

<http://dewey.info/class/612.116/e23/>  
Label (en): Plasma

corpuscles)  
612.115 Coagulation (Clotting)  
**612.116 Plasma**  
612.117 Platelets  
612.118 Biophysics and biological properties  
612.12 Blood chemistry  
612.13-612.18 Circulation  
612.3 Digestive system  
612.6 Reproduction, development, maturation  
612.9 Regional physiology  
613 Personal health and safety  
614 Forensic medicine; incidence of injuries, wounds, disease; public preventive medicine

Mapping Editor

Drag and drop a concept here.

Does not fit!

Drag and drop a concept here.

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WD Wikidata

plasma

**Q102205 fluid**  
**Q10251 plasma**

Scope Info Search Links

state of matter

Mapping Browser

Available Mappings ▾

L C

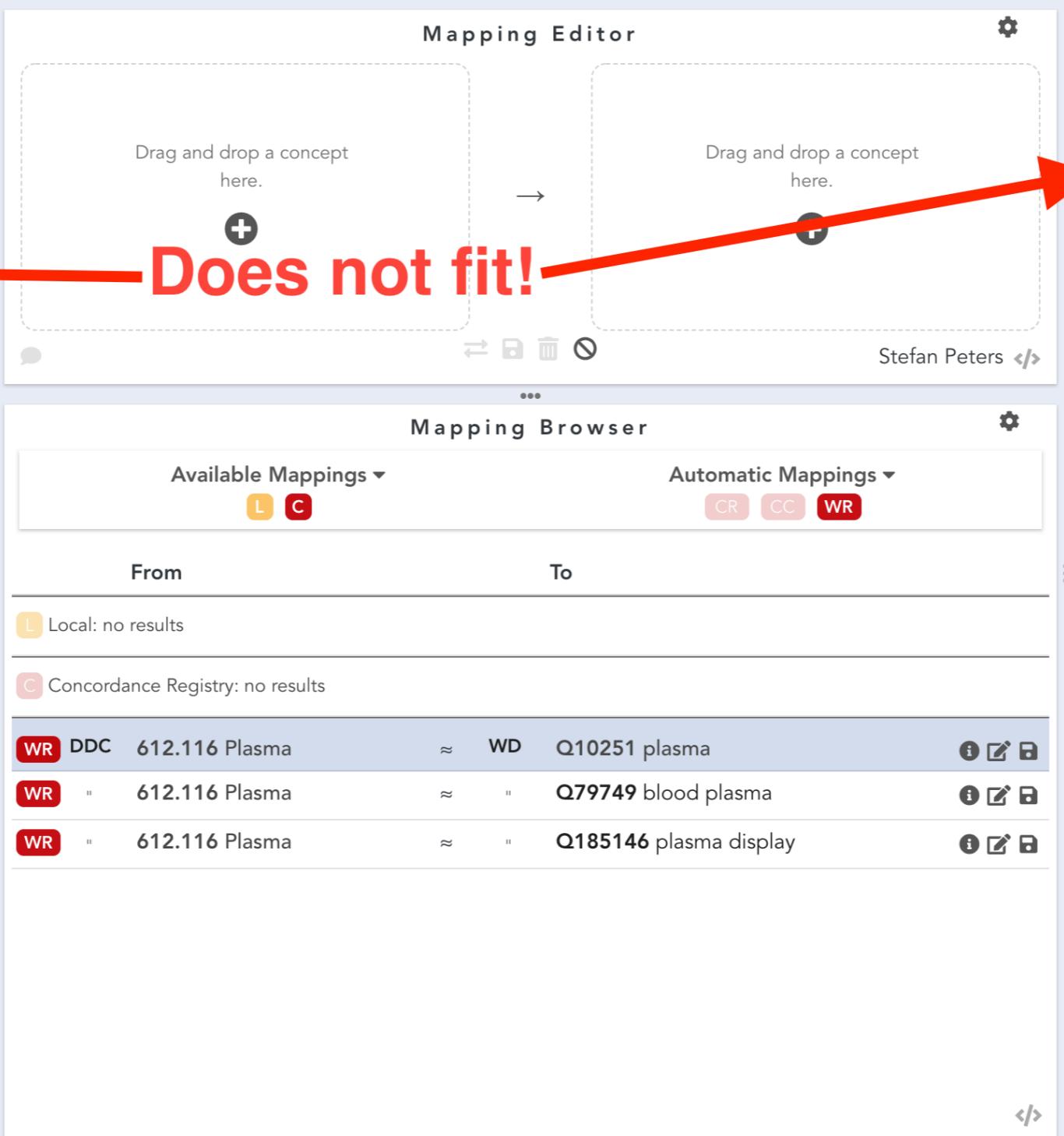
From To

Local: no results

Concordance Registry: no results

| WR | DDC | From           | ≈ | WD | To                     | Actions                               |
|----|-----|----------------|---|----|------------------------|---------------------------------------|
| WR | DDC | 612.116 Plasma | ≈ | WD | Q10251 plasma          | <i>info</i> <i>edit</i> <i>delete</i> |
| WR | "   | 612.116 Plasma | ≈ | "  | Q79749 blood plasma    | <i>info</i> <i>edit</i> <i>delete</i> |
| WR | "   | 612.116 Plasma | ≈ | "  | Q185146 plasma display | <i>info</i> <i>edit</i> <i>delete</i> |

No Tree Available



★ DDC Dewey Decimal Classification ✖

blood plasma

> ↑ 600 Technology  
⋮  
↑ 612.11 Blood  
✖ 612.116 Plasma + ↴

**Info** **Search Links**

🔗 <http://dewey.info/class/612.116/e23/>  
Label (en): Plasma

corpuscles)  
612.115 Coagulation (Clotting)  
612.116 Plasma + ↴  
612.117 Platelets  
> 612.118 Biophysics and biological properties  
612.12 Blood chemistry  
> 612.13-612.18 Circulation  
> 612.3 Digestive system  
> 612.6 Reproduction, development, maturation  
> 612.9 Regional physiology  
> 613 Personal health and safety  
> 614 Forensic medicine; incidence of injuries, wounds, disease; public preventive medicine

Mapping Editor

Drag and drop a concept here.

+

Does fit! 👍

Drag and drop a concept here.

Stefan Peters ↴

Mapping Browser

Available Mappings ▾ L C

Automatic Mappings ▾ CR CC WR

| From                               | To                         | Actions   |
|------------------------------------|----------------------------|---|
| L Local: no results                |                            |   |
| C Concordance Registry: no results |                            |   |
| WR DDC 612.116 Plasma              | ≈ WD Q79749 blood plasma   | <span style="color: #ccc;">i</span> <span style="color: #ccc;">✎</span> <span style="color: #ccc;">d</span> |
| WR " 612.116 Plasma                | ≈ " Q10251 plasma          | <span style="color: #ccc;">i</span> <span style="color: #ccc;">✎</span> <span style="color: #ccc;">d</span> |
| WR " 612.116 Plasma                | ≈ " Q185146 plasma display | <span style="color: #ccc;">i</span> <span style="color: #ccc;">✎</span> <span style="color: #ccc;">d</span> |

WD Wikidata [0] PUBLIC DOMAIN ✖

blood plasma

Q7873 blood

Q79749 blood plasma + ↴

Scope Info Search Links

liquid component of blood

No Tree Available

A large red arrow points from the DDC term '612.116 Plasma' in the left sidebar to the Wikidata entry 'Q79749 blood plasma' in the right sidebar. A thumbs-up emoji is overlaid on the mapping editor area.

**RVK Regensburg Classification**

(0) PUBLIC DOMAIN

Arbeitsrecht

Rechtswissenschaft

PF Arbeitsrecht (Labor Law)

Editorial Info Search Links

s.a. QV 700

PF 100 - PF 285 Allgemeines  
 PF 300 - PF 570 Arbeitsverhältnis,  
 Arbeitsvertrag (Individualarbeitsrecht)  
 PF 600 - PF 665 Kollektives Arbeitsrecht  
 PF 720 - PF 740 Betriebliche Altersversorgung  
 und Vermögensbildung in Arbeitnehmerhand

Unternehmensrecht sowie sonstiges privates  
 Wirtschaftsrecht

PF Arbeitsrecht

PG Rechtspflege, Gerichtsverfassung,  
 Zivilverfahrensrecht und Nebengebiete

PH Strafrecht, Strafverfahrensrecht,  
 Kriminologie

PI Allgemeine Rechtslehre und  
 Rechtstheorie, Rechts- und  
 Staatsphilosophie, Rechtssoziologie

PJ Medizinrecht (Biorecht, Recht des  
 Gesundheitswesens, Arzneimittel- und  
 Medizinproduktrecht, Medizinstrafrecht,  
 Apothekenrecht)

PK Allgemeine Staatslehre und  
 Staatsphilosophie

Mapping Editor

Drag and drop a concept here.

+

Drag and drop a concept here.

+

Stefan Peters

Mapping Browser

Available Mappings ▾

L C

Automatic Mappings ▾

CR CC

From To

L Local: no results

C Concordance Registry: no results

|                        |  |        |
|------------------------|--|--------|
| cc RVK PF Arbeitsrecht | DDC 331.011 Rights and position of labor             | i edit |
| cc " PF Arbeitsrecht   | " 344 Labor, social service, education, cultural law | i edit |
| cc " PF Arbeitsrecht   | " 344.01 Labor                                       | i edit |
| cc " PF Arbeitsrecht   | " 344.01133  | i edit |
| cc " PF Arbeitsrecht   | " 344.0188   | i edit |

Mapping candidates generated by CCMapper's algorithms

**DDC Dewey Decimal Classification**

Arbeitsrecht

DDC Dewey Decimal Classification

http://bartoc.org/en/node/241  
 http://dewey.info/scheme/edition/e23/  
 http://www.wikidata.org/entity/Q48460  
 http://id.loc.gov/ontologies/bibframe/ClassificationDdc  
 http://www.bl.uk/schemas/bibliographic/blterms#TopicDDC  
 Available mappings

> 000 Computer science, information & general works  
 > 100 Philosophy & psychology  
 > 200 Religion  
 > 300 Social sciences  
 > 300 Social sciences, sociology & anthropology  
 > 310 Statistics  
 > 320 Political science  
 > 330 Economics  
 > 340 Law  
 > 340 Law  
 > 341 Law of nations  
 > 342-349 Branches of law; laws, regulations, cases; law of specific



★ RVK Regensburg Classification

(0) PUBLIC DOMAIN

Arbeitsrecht

↑ P Rechtswissenschaft

✖ PF Arbeitsrecht

Editorial Info Search Links

s.a. QV 700

PF 100 - PF 285 Allgemeines

PF 300 - PF 570 Arbeitsverhältnis, Arbeitsvertrag (Individualarbeitsrecht)

PF 600 - PF 665 Kollektives Arbeitsrecht

PF 720 - PF 740 Betriebliche Altersversorgung und Vermögensbildung in Arbeitnehmerhand

Unternehmensrecht sowie sonstiges privates Wirtschaftsrecht

PF Arbeitsrecht

PG Rechtspflege, Gerichtsverfassung, Zivilverfahrensrecht und Nebengebiete

PH Strafrecht, Strafverfahrensrecht, Kriminologie

PI Allgemeine Rechtslehre und Rechtstheorie, Rechts- und Staatsphilosophie, Rechtssoziologie

PJ Medizinrecht (Biorecht, Recht des Gesundheitswesens, Arzneimittel- und Medizinproduktrecht, Medizinstrafrecht, Apothekenrecht)

PK Allgemeine Staatslehre und Staatsphilosophie

### Mapping Editor

RVK DDC

narrower relation

PF Arbeitsrecht

344 Labor, social service, education, cultural law

Stefan Peters

### Mapping Browser

Available Mappings Automatic Mappings

| From                               | To   | Actions       |
|------------------------------------|--|---------------|
| L RVK PF Arbeitsrecht              | DDC 344 Labor, social service, education, cultural law | i edit delete |
| C Concordance Registry: no results |  |               |
| CC RVK PF Arbeitsrecht             | DDC 331.011 Rights and position of labor               | i edit delete |
| CC " PF Arbeitsrecht               | " 344 Labor, social service, education, cultural law   | i edit delete |
| CC " PF Arbeitsrecht               | " 344.01 Labor   | i edit delete |
| CC " PF Arbeitsrecht               | " 344.01133  | i edit delete |
| CC " PF Arbeitsrecht               | " 344.0188   | i edit delete |
|                                    | ...  |               |

★ DDC Dewey Decimal Classification

Arbeitsrecht

DDC Dewey Decimal Classification

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

<http://dewey.info/scheme/edition/e23/>

<http://www.wikidata.org/entity/Q48460>

<http://id.loc.gov/ontologies/bibframe/ClassificationDdc>

<http://www.bl.uk/schemas/bibliographic/blterms#TopicDDC>

Available mappings

> 000 Computer science, information & general works

> 100 Philosophy & psychology

> 200 Religion

✓ 300 Social sciences

> 300 Social sciences, sociology & anthropology

> 310 Statistics

> 320 Political science

> 330 Economics

✓ 340 Law

> 340 Law

> 341 Law of nations

✓ 342-349 Branches of law; laws, regulations, cases; law of specific



## ★ RVK Regensburg Classification

(0) PUBLIC DOMAIN



Labor

↑ P Rechtswissenschaft

✖ PF Arbeitsrecht

Editorial Info Search Links

s.a. QV 700

↳ PF 100 - PF 285 Allgemeines

↳ PF 300 - PF 570 Arbeitsverhältnis,

Arbeitsvertrag (Individualarbeitsrecht)

↳ PF 600 - PF 665 Kollektives Arbeitsrecht

↳ PF 720 - PF 740 Betriebliche Altersversorgung

und Vermögensbildung in Arbeitnehmerhand

Unternehmensrecht sowie sonstiges privates  
Wirtschaftsrecht

✖ PF Arbeitsrecht

✖ PG Rechtspflege, Gerichtsverfassung,  
Zivilverfahrensrecht und Nebengebiete✖ PH Strafrecht, Strafverfahrensrecht,  
Kriminologie✖ PI Allgemeine Rechtslehre und  
Rechtstheorie, Rechts- und  
Staatsphilosophie, Rechtssoziologie✖ PJ Medizinrecht (Biorecht, Recht des  
Gesundheitswesens, Arzneimittel- und  
Medizinproduktrecht, Medizinstrafrecht,  
Apothekenrecht)✖ PK Allgemeine Staatslehre und  
Staatsphilosophie

✖ PR Sozialrecht und Arbeitsrecht

### Mapping Editor

exact match

RVK DDC

**PF Arbeitsrecht** = 344.01 Labor

Stefan Peters

**Mapping Browser**

| From                               | To   |
|------------------------------------|--|
| L RVK PF Arbeitsrecht              | DDC 344.01 Labor                                     |
| L " PF Arbeitsrecht                | " 344 Labor, social service, education, cultural law |
| C Concordance Registry: no results |  |
| CC RVK PF Arbeitsrecht             | DDC 344.01 Labor                                     |
| CC " PF Arbeitsrecht               | " 331.011 Rights and position of labor               |
| CC " PF Arbeitsrecht               | " 344 Labor, social service, education, cultural law |
| CC " PF Arbeitsrecht               | " 344.01133  |
| CC " PF Arbeitsrecht               | " 344.0188   |

★ DDC Dewey Decimal Classification

**Labor**

↳ ↑ 300 Social sciences

⋮

↳ 344 Labor, social service, education, cultural law

✖ 344.01 Labor

Info Search Links

🔗 http://dewey.info/class/344.01/e23/  
Label (en): Labor

↳ 344.0101 Philosophy and theory

↳ 344.011-344.018 Specific aspects of labor

⋮

↳ 344.009 History, geographic treatment, biography

✖ 344.01 Labor

↳ 344.02 Government-sponsored insurance

↳ 344.03 Social service

↳ 344.05 Police services, other aspects of public safety, matters concerning public morals and customs

↳ 344.06 Public works

↳ 344.07 Education

344.08 Educational and cultural exchanges

↳ 344.09 Culture and religion

344.1 Socioeconomic regions

344.2 Regional/intergovernmental

**RVK Regensburg Classification**

(0) PUBLIC DOMAIN

Labor

↑ P Rechtswissenschaft

✗ PF Arbeitsrecht

Editorial Info Search Links

- ccmapper
- Wikipedia (de)
- Wikipedia (en)
- RVK Online

↓ PF 100 - PF 285 Allgemeines

↓ PF 300 - PF 570 Arbeitsverhältnis, Arbeitsvertrag (Individualarbeitsrecht)

Unternehmensrecht sowie sonstiges privates Wirtschaftsrecht

> PF Arbeitsrecht

> PG Rechtspflege, Gerichtsverfassung, Zivilverfahrensrecht und Nebengebiete

> PH Strafrecht, Strafverfahrensrecht, Kriminologie

> PI Allgemeine Rechtslehre und Rechtstheorie, Rechts- und Staatsphilosophie, Rechtssoziologie

> PJ Medizinrecht (Biorecht, Recht des Gesundheitswesens, Arzneimittel- und Medizinproduktrecht, Medizinstrafrecht, Apothekenrecht)

> PK Allgemeine Staatslehre und Staatsphilosophie

> DL Sozialrecht

**Mapping Editor**

Drag and drop a concept here.

+

Drag and drop a concept here.

+

Stefan Peters

**Mapping Browser**

Available Mappings ▾

L C

Automatic Mappings ▾

CR CC

| From                               | To   | Actions |
|------------------------------------|--|---------|
| RVK PF Arbeitsrecht                | = DDC 344.01 Labor                                     | ⓘ ✎ ⏷   |
| " PF Arbeitsrecht                  | < " 344 Labor, social service, education, cultural law | ⓘ ✎ ⏷   |
| C Concordance Registry: no results |  |         |
| CC RVK PF Arbeitsrecht             | DDC 344.01 Labor                                       | ⓘ ✎ ⏷   |
| CC " PF Arbeitsrecht               | " 331.011 Rights and position of labor                 | ⓘ ✎ ⏷   |
| CC " PF Arbeitsrecht               | " 344 Labor, social service, education, cultural law   | ⓘ ✎ ⏷   |
| CC " PF Arbeitsrecht               | " 344.01133  | ⓘ ✎ ⏷   |
| CC " PF Arbeitsrecht               | " 344.0188   | ⓘ ✎ ⏷   |

**DDC Dewey Decimal Classification**

Labor

↑ 300 Social sciences

⋮

↑ 344 Labor, social service, education, cultural law

✗ 344.01 Labor

Info Search Links

🔗 http://dewey.info/class/344.01/e23/ Label (en): Labor

↓ 344.0101 Philosophy and theory

↓ 344.011-344.018 Specific aspects of labor

⋮

> 344.009 History, geographic treatment, biography

> 344.01 Labor

> 344.02 Government-sponsored insurance

> 344.03 Social service

> 344.05 Police services, other aspects of public safety, matters concerning public morals and customs

> 344.06 Public works

> 344.07 Education

344.08 Educational and cultural exchanges

> 344.09 Culture and religion

344.1 Socioeconomic regions

344.2 Regional/intergovernmental

# Future Plans

- Add more KOS.
- Offer tools to easily convert one's own systems into JSKOS format.
- Improve the tool (usability, tutorial, new features).
  - Already collected many ideas:  
<https://github.com/gbv/cocoda/issues>
  - e.g.: coli-ana integration (see next slide)
  - More intelligent mapping recommendations.

# Example: coli-ana in Cocoda

- Decomposition of synthesized DDC notations right in Cocoda:

The screenshot shows a Cocoda search interface. At the top, there is a yellow header bar with a close button (X) and a number '700.90440747471'. To the right of the number is a blue '+' button. Below the header is a navigation bar with three tabs: 'Info' (selected), 'Search Links', and 'coli-ana'. The main content area displays a hierarchical list of terms and their meanings:

- 700.90440747471
- 7 Arts & recreation
- 70 Arts
- 700 The arts
- 700.904 Modern arts
- T1--0904 20th century, 1900-1999
- T1--09044 1940-1949
  - T1--074 Museums, collections, exhibits
  - T2--7 North America
  - T2--74 Northeastern United States
    - (New England and Middle Atlantic states)
  - T2--747-749 Middle Atlantic states
  - T2--747 New York (State)
  - T2--7471 New York Metropolitan Area

# More Information

- Slides: <https://exo.pm/edug2019/slides.pdf>
- Project homepage: <https://coli-conc.gbv.de>
- GitHub repository for Cocoda:  
<https://github.com/gbv/cocoda>
- Cocoda documentation and manual:  
<https://gbv.github.io/cocoda/>