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# DDC Subject Categories for DNB's Linked Data Service



# Content

- 1. Current situation**
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# DDC Subject Categories at DNB

- All Series in the Deutsche Nationalbibliografie and the New Release Service are organised using DDC Subject Categories
- Arrangement of approximately 100 classes based on Dewey Decimal Classification (DDC)

# DDC Subject Categories at DNB

- Some Subject Categories vary from the DDC system to facilitate greater precision when searching individual literature groups:
  - Textbooks -> Subject Category S
  - Literature for children and young people -> Subject Category K
  - Fiction: Along with Subject Categories 800–891.8, works of fiction are assigned to Subject Category B





# DDC Subject Categories in RDF

Not very useful

Have to look in a separated PDF to know what ,B' stands for

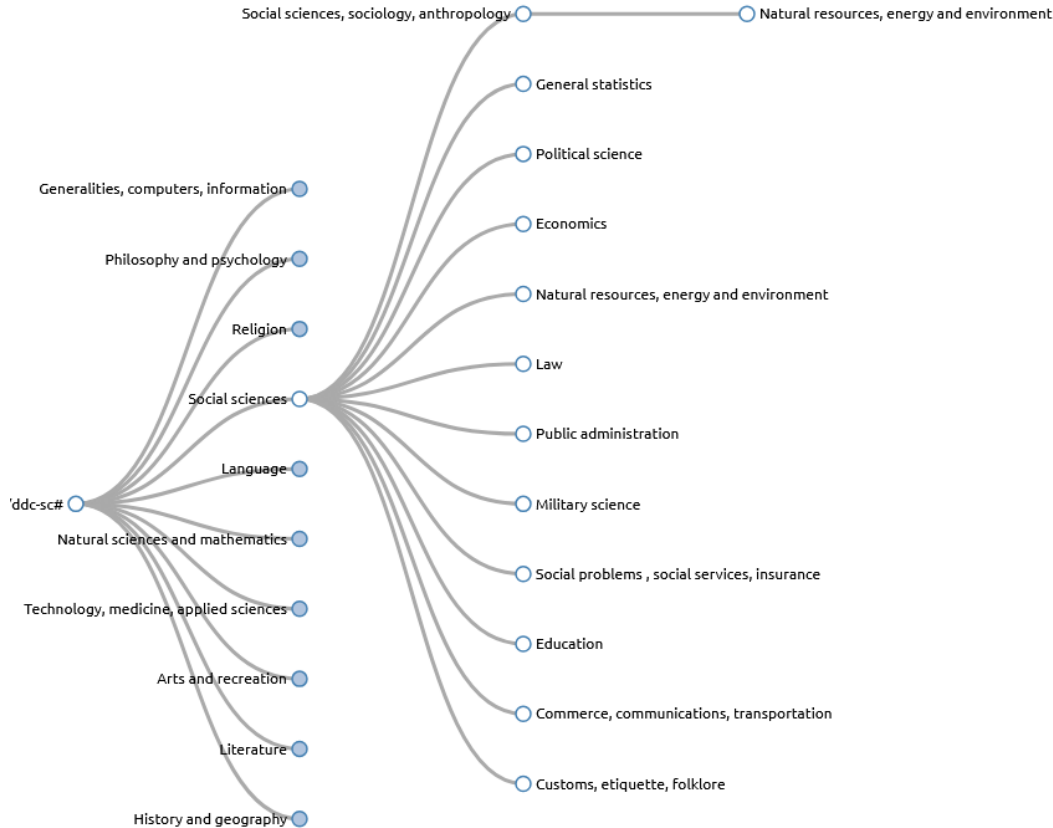
Solution: provide DDC Subject Categories as SKOS Vocabulary

# DDC Subject Categories as SKOS

```
vann:preferredNamespaceUri "https://d-nb.info/standards/classification/ddc-sc#"
vann:preferredNamespacePrefix "ddc-sc"
dct:license <http://creativecommons.org/publicdomain/zero/1.0/>
```

In development:

<https://github.com/deutsche-nationalbibliothek/lds-vocabulary/blob/develop/valueVocabulary/ddc-sc.ttl>



- **Social problems , social services, insurance**  
 CC : 360  
 BT : **Social sciences**  
 TT : **Social sciences**
- **Social sciences**  
 CC : 300  
 NT : **Social sciences, sociology, anthropology**  
 NT : **General statistics**  
 NT : **Political science**  
 NT : **Economics**  
 NT : **Natural resources, energy and environment**  
 NT : **Law**  
 NT : **Public administration**  
 NT : **Military science**  
 NT : **Social problems , social services, insurance**  
 NT : **Education**  
 NT : **Commerce, communications, transportation**  
 NT : **Customs, etiquette, folklore**
- **Social sciences, sociology, anthropology**  
 CC : 300  
 BT : **Social sciences**  
 TT : **Social sciences**  
 NT : **Natural resources, energy and environment**

# Mapping to DDC

```
<https://d-nb.info/standards/classification/ddc-sc#SG_B> a skos:Concept ;  
    skos:prefLabel "Social sciences, sociology, anthropology"@en ;  
    skos:narrowMatch <http://dewey.info/class/300/e23/> ;  
    [...]
```

```
<https://d-nb.info/standards/classification/ddc-sc#SG_B> a skos:Concept ;  
    skos:prefLabel "Social sciences, sociology, anthropology"@en ;  
    skos:narrowMatch <https://id.oclc.org/worldcat/ddc/E49XXXMBFvg8P6dHGvTvvtTDqc> ;  
    [...]
```



```
<https://d-nb.info/1369684541> a bibo:Document;  
  dc:title "Qwert";  
  dcterms:creator <https://d-nb.info/gnd/121686876>;  
  dc:subject <https://d-nb.info/standards/classification/ddc-sc#SG830> ,  
            <https://d-nb.info/standards/classification/ddc-sc#SG_B> .
```

```
<https://d-nb.info/standards/classification/ddc-sc#SG_B> a skos:Concept ;  
  skos:notation "B" ;  
  skos:prefLabel "Belletristik"@de ;  
  skos:prefLabel "Fiction"@en ;  
  skos:scopeNote "Wird nur als zusätzliche Sachgruppe zusätzlich zu den Hauptsachgruppen 800-891.8 vergeben"@de ;  
  skos:scopeNote "Separate category that is only used in addition to main categories 800-891.8"@en ;  
  skos:inScheme <https://d-nb.info/standards/classification/ddc-sc#> .
```

```
<https://d-nb.info/standards/classification/ddc-sc#SG830> a skos:Concept ;  
  skos:notation "830" ;  
  skos:note "Enthält die DDC-Klassen 830"@de ;  
  skos:note "Includes DDC classes 830"@en ;  
  skos:prefLabel "Deutsche Literatur"@de ;  
  skos:prefLabel "German literature"@en ;  
  skos:narrowMatch <https://id.oclc.org/worldcat/ddc/E37h44gqVt9bp7wdD6wCvKCKj9> ;  
  skos:broader :HK800 ;  
  skos:inScheme <https://d-nb.info/standards/classification/ddc-sc#> .
```

```
SELECT ?work ?title ?subject WHERE {  
  ?work dcterms:creator <https://d-nb.info/gnd/121686876> ;  
  dc:title ?title ;  
  dc:subject ?subject .  
}
```

| ?work   | ?title                            | ?subjectLabel |
|---|-----------------------------------|---------------|
| <a href="https://d-nb.info/1369684541">https://d-nb.info/1369684541</a> | Qwert                             | 830           |
| <a href="https://d-nb.info/1369684541">https://d-nb.info/1369684541</a> | Qwert                             | B             |
| <a href="https://d-nb.info/1324942754">https://d-nb.info/1324942754</a> | Die Insel der Tausend Leuchttürme | 830           |
| <a href="https://d-nb.info/1324942754">https://d-nb.info/1324942754</a> | Die Insel der Tausend Leuchttürme | B             |
| <a href="https://d-nb.info/1268651141">https://d-nb.info/1268651141</a> | Jesus total                       | 741.5         |

```
SELECT ?work ?title ?subjectLabel WHERE {  
  ?work dcterms:creator <https://d-nb.info/gnd/121686876> ;  
  dc:title ?title ;  
  dc:subject ?subject .  
  ?subject skos:prefLabel ?subjectLabel .  
  FILTER (lang(?subjectLabel) = "en")  
}
```

| ?work   | ?title                            | ?subjectLabel                 |
|---|-----------------------------------|-------------------------------|
| <a href="https://d-nb.info/1369684541">https://d-nb.info/1369684541</a> | Qwert                             | German literature             |
| <a href="https://d-nb.info/1369684541">https://d-nb.info/1369684541</a> | Qwert                             | Fiction                       |
| <a href="https://d-nb.info/1324942754">https://d-nb.info/1324942754</a> | Die Insel der Tausend Leuchttürme | German literature             |
| <a href="https://d-nb.info/1324942754">https://d-nb.info/1324942754</a> | Die Insel der Tausend Leuchttürme | Fiction                       |
| <a href="https://d-nb.info/1268651141">https://d-nb.info/1268651141</a> | Jesus total                       | Comics, cartoons, caricatures |



```
SELECT ?work ?title ?creator WHERE {  
  ?work dcterms:creator ?creator ;  
        dc:title ?title ;  
        dc:subject/skos:prefLabel "Architecture"@en .  
}
```

| <b>?work</b>  | <b>?title</b>  | <b>?creator</b>   |
|---|--|---|
| <a href="https://d-nb.info/1000007596">https://d-nb.info/1000007596</a> | Städte zum Wohlfühlen                                | <a href="https://d-nb.info/gnd/1115666355">https://d-nb.info/gnd/1115666355</a> |
| <a href="https://d-nb.info/1000057925">https://d-nb.info/1000057925</a> | Vertikalisierung im brasilianischen Wohnungsbau      | <a href="https://d-nb.info/gnd/140282033">https://d-nb.info/gnd/140282033</a>   |
| <a href="https://d-nb.info/1000003515">https://d-nb.info/1000003515</a> | Österreichische Architektur des 19. und 20. Jah[...] | <a href="https://d-nb.info/gnd/132991500">https://d-nb.info/gnd/132991500</a>   |




# Summary

- 1. Meaningful Labels
- 2. Labels in both German and English
- 3. Semantic Interoperability
- 4. Improved Search & Discovery
- 5. Open & Reusable

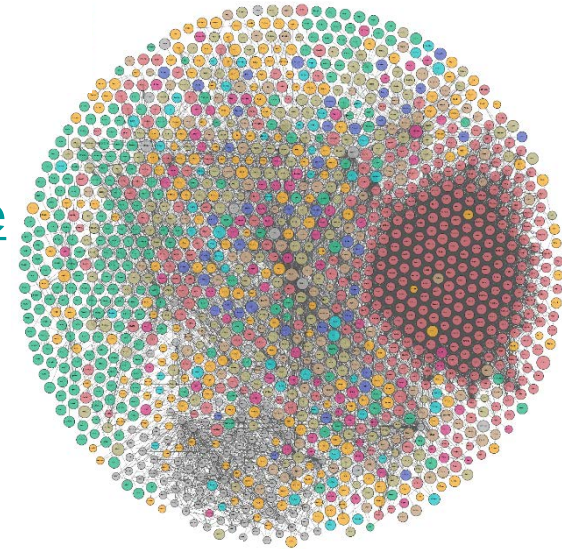
# Thanks!

Linked Data Service:

- Metadata Service [metadatendienste@dnb.de](mailto:metadatendienste@dnb.de)
- Tracy Arndt [t.arndt@dnb.de](mailto:t.arndt@dnb.de) ✉
- [@nabatz@openbiblio.social](https://www.openbiblio.social/@nabatz) 

Websites:

- <https://www.dnb.de/metadatendienste>
- <https://www.dnb.de/lds>
- <https://data.dnb.de/opendata/>
- <https://sparql.dnb.de>



The Linked Open Data Cloud from lod-cloud.net (CC-BY)