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Explore DDC as linked data

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OVERVIEW

DDC as linked data

- Builds off working groups with EDUG input
- Began as Pansoft-developed prototype
- Fits into DDC ecosystem
- Expected release June 2024
- Six languages at launch
- Two access levels

Scope

- All **established** numbers (~56k from English data)
- 15 defined properties
- Opaque URIs
- Full access: All DDC data
- Free: Summaries

Lookup API

- Have DDC → Get URI
- Have URI → Get DDC

Examples

Mapping a Dewey Number to a Linked Data URI

```
https://id.oclc.org/worldcat/ddc/api/url?ddc=547,547.01-547.08,2--99
```

Response:

```
{  
  "547": "https://id.oclc.org/worldcat/ddc/E3qjRqVKXQBDCVQf93XJG6DkC6",  
  "547.01-547.08":  
    "https://id.oclc.org/worldcat/ddc/E33PkBHfR6fMf8GxqdRbPbWtgK",  
  "2--99": "https://id.oclc.org/worldcat/ddc/E368YdKVjcmfpXQctCTdbyMMmQ"  
}
```

Examples

Retrieving data about a Dewey Number from a Linked Data URI

`https://id.oclc.org/worldcat/ddc/E3qjRqVKXQBDCVQf93XJG6DkC6`

Response depends on whether user is authenticated...

Unauthenticated response:

```
{
  "@id": "https://id.oclc.org/worldcat/ddc/E3qjRqVKXQBDCVQf93XJG6DkC6",
  "@type": "skos:Concept",
  "created": "1996-06-01",
  "modified": "2024-04-24T05:40:29Z",
  "broader": "https://id.oclc.org/worldcat/ddc/E3DqwjJhTWjqVvVpXBRCH8tq48",
  "inScheme": "https://id.oclc.org/worldcat/ddc/",
  "notation": "547",
  "prefLabel": [
    { "@language": "de", "@value": "Organische Chemie" },
    { "@language": "it", "@value": "Chimica organica" },
    { "@language": "fr", "@value": "Chimie organique" },
    { "@language": "en", "@value": "Organic chemistry" },
    { "@language": "sv", "@value": "Organisk kemi" }
  ],
  "scopeNote": [
    { "@language": "it", "@value": "Classificare qui le sostanze biochimiche se non considerate nel loro contesto biologico" },
    { "@language": "en", "@value": "Class here biochemicals when not considered in their biological context" },
    { "@language": "sv", "@value": "Klassificera här biokemikalier när de inte behandlas i sitt biologiska sammanhang" },
    { "@language": "fr", "@value": "Classer ici les produits biochimiques considérés hors de leur contexte biologique" },
    { "@language": "de", "@value": "Hier auch: Biochemikalien, wenn sie nicht in ihrem biologischen Kontext betrachtet werden" }
  ],
  "@context": "https://id.oclc.org/worldcat/ddc/context.json"
}
```


Authenticated response:

```
{
  "@id": "https://id.oclc.org/worldcat/ddc/E3qjRqVKXQBDCVQf93XJG6DkC6",
  "@type": "skos:Concept",
  "created": "1996-06-01",
  "modified": "2024-04-24T05:40:29Z",
  "altLabel": [
    { "@language": "fr", "@value": "Chimie organique" },
    { "@language": "sv", "@value": "Kol (grundämne)--organisk kemi" },
    { "@language": "it", "@value": "Sostanze biochimiche--chimica organica" },
    { "@language": "fr", "@value": "Produits biochimiques--chimie organique" },
    ...
  ],
  "broader": "https://id.oclc.org/worldcat/ddc/E3DqwjJhTWjqVvVpXBRCH8tq48",
  "inScheme": "https://id.oclc.org/worldcat/ddc/",
  "narrower": [
    "https://id.oclc.org/worldcat/ddc/E3t4qWrykVT9rrTf99WfPMXV",
    "https://id.oclc.org/worldcat/ddc/E3QMWM6qv8db6qHcGtJ486xmtH",
    "https://id.oclc.org/worldcat/ddc/E3kkjHcC3QgdQmGcJvYJ69hmg",
    ...
  ],
  "notation": "547",
  "prefLabel": [
    { "@language": "de", "@value": "Organische Chemie" },
    { "@language": "it", "@value": "Chimica organica" },
    ...
  ],
  "related": [
    "https://id.oclc.org/worldcat/ddc/E3p3RrrFRFWTgRxhfgr8M8wmX",
    "https://id.oclc.org/worldcat/ddc/E43FQ4PJy3rRtXXB6X8XHHwCQC",
    ...
  ]
}
```

LIVE DEMO

Summary

- Human friendly UI
- RDF/JSON linked data format
- Lookup API
 - Get URI from DDC
 - Get DDC from URI

Integration of DDC data

- Subfields \$0 and \$1 authorized for MARC DDC fields
- WorldCat enriched with 80 million additional DDC
- Forthcoming features
 - DDC to FAST mappings
 - DEI annotations
 - Modeling changes
 - Facilitates sharing of built numbers across languages

Thank you!

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**Because
what is
known must
be shared.®**