

[This is an accompanying document provided by Tina Mengel and referring only to the talk “Dewey Basics for Mapping”]

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Dewey Basics for Mapping

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Bringing Dewey Mappings onto the Semantic Web

Our presentation will be divided into 3 main parts. Mine will be Top 1, which is more or less a summary of reasons why the DDC has become such a demanded scheme for mapping,

and Top 2, where I want to go into details about what to consider most when a mapping project knocks on the door.

The focus will be in the first place on the intellectual challenges and not on machine-assisted mapping.

Lars will talk about Linked Library Data and ways to represent mapped data in general. He will discuss problems and approaches to solve the problems that come along with the representation of heterogeneous types of mappings.

- 1. What it is about to map Dewey**
- 2. Things to talk about (early!) in the mapping project**
- 3. Things to consider when you want to share your mappings with someone else**

- The DDC is a universal classification system, meaning that it covers all disciplines of knowledge
- DDC numbers are language-independent and each number represents a topic or a bundle of topics, plus Relative Index terms
- The DDC is used worldwide - that is why Dewey communities meet around the globe on a regular basis to discuss DDC issues and to share experiences and projects with Dewey, and work on beneficial developments like we do today
- Dewey is permanently growing. Updated Dewey content mirrors new literature that in turn mirrors the library users' information needs.

This is what have been some of the arguments in favor of a Dewey mapping at CrissCross times. Today I want to add another argument:

WebDewey has become an internationally used tool for DDC classification and for the various working with Dewey in general. The number building tool makes it easier than ever to create new numbers for complex concepts, and:

WebDewey is the place where mapped terminology enhances verbal access to DDC classes. Not to speak of possible future developments for multilingual search and display of Dewey content and mappings..

But WebDewey is only ONE place where mappings may be represented and used. Your mapping project may still consider other scenarios to integrate mappings.

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What is it about to map Dewey

Advantages of the DDC

- universal
- numeric and verbal
- used worldwide
- number building
- ongoing updates
- WebDewey US and family WebDeweys used around the world to classify with DDC
 - o Built numbers
 - o Number building tool
 - o Application adapted to local requirements
 - o Additional terminology (Mappings!)

What are the typological characteristics of my system to be mapped compared to the typological characteristics of the DDC? This alone can make some decisions easy - or more complicate.

The DDC is strongly expressed by hierarchy: Notational hierarchy is expressed by the length of a Dewey number, meaning that a subordinate number usually has more digits than the broader number.

The structural hierarchy takes place more on the subject level and is represented by the logic that every subordinate topic can be seen as a part of all the broader topics above it. We will come back to that issues later.

When concepts have been combined prior to the system's use for indexing or classification, you speak of precoordinated concepts. In the DDC this is represented by built numbers, but also by combined topics in the class headings, in the notes, and in the Relative Index.

What is it about to map Dewey

Typological characteristics

- hierarchy
 - o notational
 - o structural
- precoordination
 - o built numbers
 - o compound concepts

Due to the fact that the DDC is arranged by discipline, topics may appear in more than one place in the classification.

In the DDC, one topic – or specific aspects of a topic – can occur in more than one place of the classification. This is also the main characteristic of the Relative Index, because there, topics are structured by disciplines. When it comes to mapping the DDC, the Relative Index is one of the most helpful things, not only because of its representation by disciplines, but especially because of its functioning as an indicator for additional content of a class.

Notes are a powerful feature of the DDC. Notes tell us, what's hot and what's not in a class.

And they take our view away from the class to show us what other aspects of a topic there are in other disciplines or further up or down the hierarchy.

What is it about to map Dewey

Typological characteristics (2)

- context dependency
 - o 1 topic in >1 disciplines
 - o reference notes
- Notes
 - o What's in the class?
 - o What does not belong to the class but elsewhere?
- Relative Index
 - o structured by disciplines
 - o indicator for "What's in the class" but also for "What *e/se* is in the class?"

As we have now recalled the most important basics of DDC's typology, we can now take a closer look at the issues that really matter in a mapping project.

- Where is the beginning and the end of the entity to be mapped?
- What kind of linkages do we want to establish between the systems to be mapped?
- Up to which level of precision do we want to map?

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Things to talk about (early!) in the mapping project

Connotation scope (scope of meaning)

Unidirectional vs. bidirectional mapping

Specificity

In the System A you have an element of a thesaurus, of another classification scheme, of an ontology or taxonomy whatsoever.

The target element in the DDC is a DDC number, a notation.

That's the surface.

But the actual mapping takes place on the subject level. It is about to find the best common verbal denominator, if you like.

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Connotation scope

What are the elements to be mapped?

System A	System B
Element of - Thesaurus - Classification scheme - Taxonomy - ...	Element of DDC - NOTATION

The actual mapping takes place on the subject level.

This graph is based on the classical triangle of meaning. The principle of Concept – Object and Label is probably quite known in this room.

Winfried Gödert has summarized this to call it a Simple entity. This kind of consolidation makes sense if you want to make comparisons or statements about the interoperability of semantic elements.

Just to make that clear: even a Simple entity can be very complex in itself, but the crucial characteristic for a Simple entity is that it represents only ONE concept and is represented by a term that consists of only ONE string.

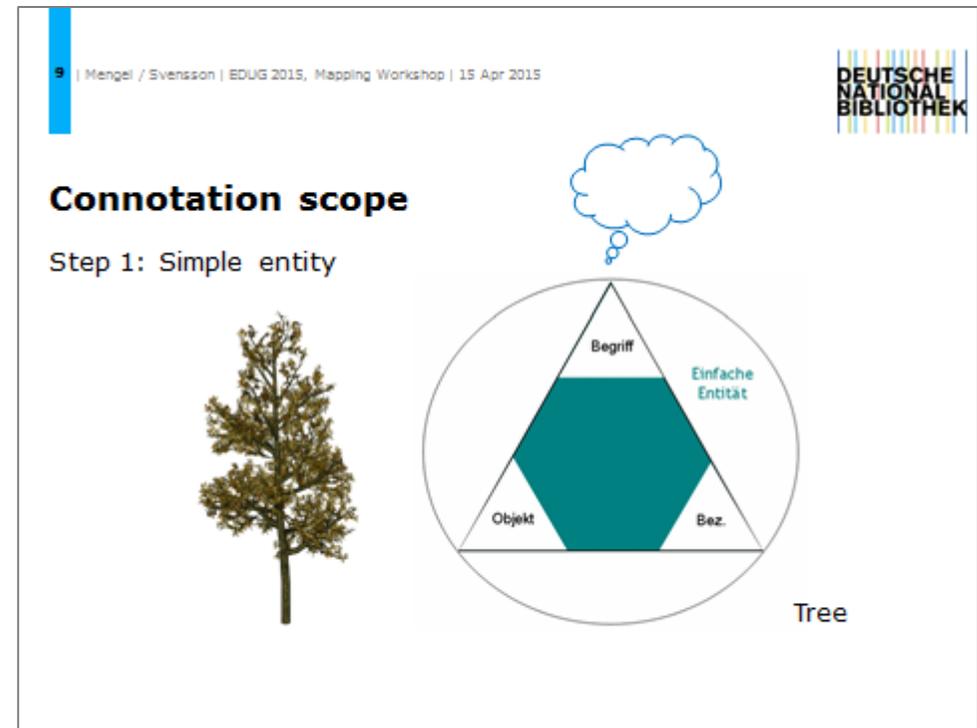


Figure (Triangle A without my poor adjustments): Gödert, Winfried: Semantische Wissensrepräsentation und Interoperabilität. In: Information Wissenschaft & Praxis 61 (2010) 1, S. 5-28

On this slide we see a second triangle: The Simple entity has become a Complex entity.

It intends to give you a notion of the high degree of semantic complexity we deal with when we are mapping elements of two schemes that are used for indexing.

Common to all kinds of controlled vocabulary that is used for indexing is that they are editorially composed and maintained collections of topical entities which are: perhaps enriched by definitions, perhaps are pre-combined or adopted to local use. They provide solution for the treatment of linguistic ambiguity problems, like for homonyms. And,

specified like this, these entities are unchangeable in meaning within the system. In the field of library and information retrieval that is an essential characteristic because it is the unambiguity of the vocabulary that makes documents retrievable.

For a mapping, however, this complexity can represent a challenge, the more, if both System A and B use different ways to handle those problems.

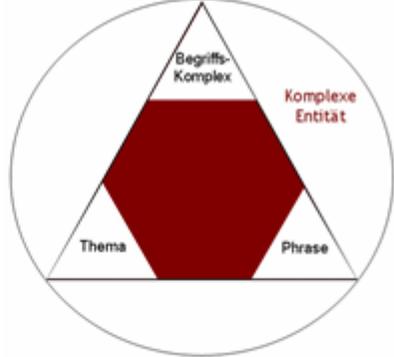
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Connotation scope

Step 2: Complex entity

- pre-combined
- predefined
- limited for certain use
- part of a discipline
- positioned in a hierarchy
- ...



The diagram shows a large circle containing a white triangle. Inside the triangle is a red hexagon. The top vertex of the triangle is labeled 'Begriffs-Komplex'. The bottom-left vertex is labeled 'Thema' and the bottom-right vertex is labeled 'Phrase'. The red hexagon is labeled 'Komplexe Entität' on its right side.

Figure: Gödert, Winfried: Semantische Wissensrepräsentation und Interoperabilität. In: Information Wissenschaft & Praxis 61 (2010) 1, S. 5-28

Well, and this is what makes mappers happy:

Complex entity A

MATCHES

Complex entity B

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Connotation scope

Step 3: Complex entity A MATCHES Complex entity B



Complex entity A

Complex entity B

For instance, if in the System A, like here an imagined thesaurus, the entity to be mapped is Diplomatie, it cannot be ignored that it is embedded in a relational hierarchy and in a discipline that is General politics.

This matches the DDC number for Diplomacy within Political Science in the 320s. Also here, the discipline and hierarchy and the contents of the class are part of the complexity of the entity.

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Connotation scope

Example for: Complex entity A MATCHES Complex entity B

BT Außenpolitik
Diplomatie
P.01 (allg. Politik)

320
Political science
327
International relations
327.2
Diplomacy

When we want to map a Complex entity A of the initial system, we take it to the DDC number that seems to be good enough for a mapping.

In the next step we would have to analyze the class contents. What topics are represented by the number? Is our entity A a bingo to one of the topics in that class? And how is our entity – if found in the class – related to the other topics in the class?

To make this a little more clear I have listed the “What’s in the class” notes, and in addition, I have assigned three categories of connotation scopes, to give you an idea of how broad or narrow a topical space can expand or limit within a class.

In the first table, the connotation scopes of topics that are found in class elements of Category A affect the whole class number.

Please note that Definition notes, Variant-name notes and scope notes do not only have an impact on the present class, but may also affect subordinate classes as they have “hierarchical force”.

Example:

Scope note in 155.84: Limited to ethnic groups in areas where they are not predominant

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Connotation scope

DDC: What’s in the class?

Category A	
Class heading	Expands or limits the scope of meaning of the whole class number (Notes usually refer to class heading)
Definition note	
Variant-name note	
Scope note	

Class-here notes and Including notes have a special effect on the expansion or limitation of a topic's scope of meaning.

According to DDC terms, topics in Class-here notes approximate the whole of the class, even if broader or narrower than the class heading. They can be understood as major topics of a class. One point that is often forgotten is that topics in class-here notes have influence also on other classes, as they have so called "hierarchical force".

Topics in Including notes follow the principle of "standing room": They are without sufficient literature to have their own number, and are usually narrower in scope than the class number.

Examples:

152.1 Sensory perception

Class here: receptive processes and functions, discrimination, thresholds

152.1423 Pattern perception

Including: form perception

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Connotation scope

DDC: What's in the class?

Category B	
Class-here note	Expands or limits the scope of meaning of a topic
Principle of "approximate the whole"	
Including note	
Principle of "standing room"	

The third category is quite interesting because here one thing becomes really evident: both Relative Index terms and Mapped terms are not only mirroring topics that are listed in the class heading or notes, but are also representing topics that are not explicitly mentioned in the class.

Please note that the latter might pose a problem if an automated mapping approach is chosen.

Examples:

153.754 Movement perception

RI: Movement perception -> psychology

152.142 Spatial perception

RI: Space perception -> psychology -> visual perception

RI: Spatial perception -> psychology -> visual perception

Mapped GND subject headings:

Größenkonstanz

Größenwahrnehmung

Raumwahrnehmung

Entfernungsschätzen

Raumvorstellung

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Connotation scope

DDC: What's in the class?

Category C	
Relative Index terms	Show one-to-one correspondence to a topic explicitly mentioned in the class notes or heading
Mapped terms	Expand or limit the scope of meaning of the whole class or of a certain topic that may or may not be explicitly mentioned in the class

This brings me to one of the biggest questions for me in DDC mapping. How to handle those invisible contents? I only can try to give some practical advices for the time being and refer to the research that Rebecca and Michael have started at OCLC some years ago and that hopefully will be carried on.

The DDC is so well-structured and tries to be as comprehensive as possible for most of the topics treated in the classes but nevertheless, when you want to establish a comprehensive mapping to all or most entities of your initial system, you have to exhaust all possibilities of both systems.

So, what can be invisible content in the DDC?

- Topics that are equivalent in meaning or are logically part of a topic that is mentioned in the class : **Make use of synonym and hierarchical relationships in the initial system**
- Topics that are logically opposites to each other (e.g., Morality and Immorality in 170) : **Make use of hierarchical relationships like broader or narrower terms, depending how your system deals with opposites**
- Topics originating in a superordinate number that have hierarchical force : **Here I see something that the DDC could do for mappers: indicate topics that have hierarchical force, indicate subordinate numbers that are affected by hierarchical force. Up to now, mappers need to click up and down the hierarchy to recognize topics in subordinate numbers that are existing, but not visible**
- Topics originating in a component of a built number that have hierarchical force : **Same for this one: any signal can help, especially when a deep-level mapping is applied**

- Topics that are explicitly mentioned only in a see reference, see-also reference or class-elsewhere note and not in the number they direct to : **Mappers (and also Dewey translators, btw) face two problems here: Terms may be inflected or “described” and therefore are not literally identical with the term in number they direct to what makes them often hard to find.**

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Connotation scope

DDC: What else is in the class – but not visible?

- Topics that are equivalent in meaning or are logically part of a topic that is mentioned in the class.
- Topics that are logically opposites to each other (e.g., Morality and Immorality in 170)
- Topics originating in a superordinate number that have hierarchical force
- Topics originating in component of a built number that have hierarchical force
- Topics that are explicitly mentioned only in a see reference, see-also reference or class-elsewhere note and not in the number they direct to
- Topics from multi-level or compound RI terms that have a specific equivalent in the entity A vocabulary but are not listed as such in the RI
- Topics that are logically additional examples when an example is given in a note
- Topics that are implied in descriptive or phrasal topics in the class heading or notes

DDC and DDC translations can help by terminological consistency, but also automated ways or better search options for interconnected numbers to reveal the whole topical neighborhood would be so good to have

- Topics from multi-level or compound RI terms that have a specific equivalent in the entity A vocabulary but are not listed as such in the RI : **Also a tricky task for Mappers. Problems occur on both sides. One is that controlled vocabularies tend to use a lot of outdated terms and are often not in line regarding the modernness of their terms. Another problem may pose a different degree of pre-combination of the entities. Artificial term constructions or permutations may also pose a problem.**
- Topics that are logically additional examples when an example is given in a note : **Typical example: *Arrange alphabetically according to, e.g. example - That's a nice solution for the DDC, but can cause overtime work for the Mapper who probably needs to do some exhaustive searches, depending how good relationships are modeled in the initial system.***
- Topics that are implied in descriptive or phrasal topics in the class heading or notes : **Typical formulations here are terms starting with “all kinds of” or numbers without notes or Relative Index terms, but with a Standard subdivisions heading, or combined phrases like “description, critical appraisal of”**

For all these cases, mappings are often hard to find, but once established, especially for the latter three points listed here, the value of mapped terminology becomes quite clear, I think.

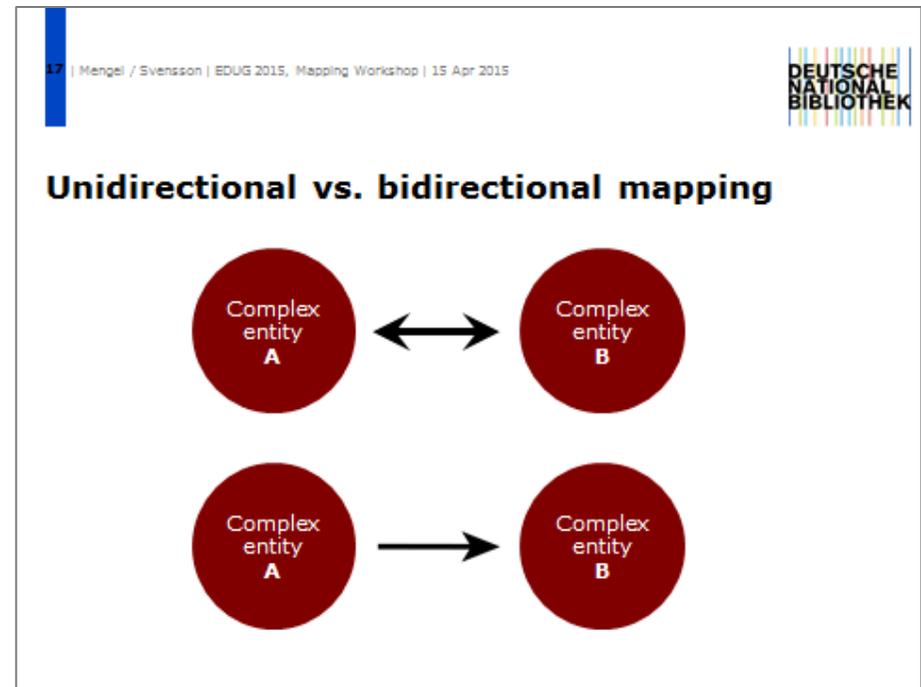
Directionality in Mappings

Questions to ask related to the directedness of mappings:

Do you want the linkages to be fully equivalent? Or do you see the bigger benefit in a directed mapping, that is, Complex entity A is contained in Complex entity B?

If the systems to be mapped are typologically similar, a bidirectional mapping might be a good solution because you can expect a high degree of semantic exchangeability of the concepts.

If the systems to be mapped are typologically different, like for example a thesaurus and a classification system, you may consider to chose a unidirectional mapping, because you can expect only few fully equivalents among the linked entities.



Simple example to illustrate the problem:

Tektonik is an entity in the initial system. The scope of meaning covers only the specific topic, maybe there are some synonyms, maybe the term is embedded in a relational hierarchy. Anyways, in the end, the entity to be mapped does not cover the full meaning of DDC number 551.8 ; it is listed in the Class-here note, so it covers at least more than half of the meaning of the class.

Due to this analysis it is not possible to map the DDC number back to the thesaurus entity. The scopes of meaning are still too different, the DDC number just “eats up” the single topic.

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Unidirectional vs. bidirectional mapping

Initial system		DDC
Tektonik	→	551.8 Structural geology Class here deformation, diastrophism, epeirogeny, tectonics
	←	

In the beginning there were only three Degrees of Determinacy,

D1 for when an entity A has only a little overlapping with the connotation scope of the DDC class

D2 for when entity A is logically a part of the class

and

D3 for when entity A covers more than the half of the meaning of a class.

But also in our one-direction approach of mapping from a thesaurus to the DDC we encountered mappings that were fully identical in meaning and which could therefore be considered as an 1:1 mapping that could also be read bidirectionally.

So, in the course of the mapping project we added a fourth degree of determinacy to make explicit that in these cases the highest possible degree of conceptual congruence of the two mapped entities are given.

Besides their function as relationships under consideration of unidirectional linking, the degrees of determinacy are also intended to serve as an instrument for the design of search options or for ranking algorithms in end user retrieval scenarios.

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Unidirectional vs. bidirectional mapping

- Degrees of Determinacy
Relationship based on the Connotation scopes of both systems and under consideration of unidirectional mapping

D4 = fully correspondent
D3 = high relevance
D2 = partial relevance
D1 = minor relevance

The diagram illustrates unidirectional mapping between two concepts. It features two red circles, one on the left labeled 'Concept with A' and one on the right labeled 'Concept with B'. A black arrow points from the left circle to the right circle, indicating a one-way relationship from A to B.

Specificity

- To which degree of precision do you want to map your vocabulary?
- What are the consequences if mapped only on the top levels of the DDC?
- How strict do you want to handle context dependency, what are the consequences for your retrieval scenario?

I cannot answer these questions for you because this requires a deep analysis of your local system to be mapped and of your general objectives of the project, for example end user retrieval environment vs. an expert concordance database.

What I can do, is to show how the DDC handles Specificity and what might be arguments in favor of a certain degree of specificity in mapping.

What has been earlier mentioned is the DDC's main characteristic of Notational hierarchy. As a rule of thumb you can say that any subordinate class is a specification of the number that is one digit shorter, depending on what has been added by number building.

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Specificity

- Notational hierarchy

000	Computer science, information & general works
000	Computer science, knowledge & systems
004-006	Computer science; computer programming, programs, data; special computer methods
005	*Computer programming, programs, data
005.7	*Data in computer systems
005.71	*Data communications
005.712	Programming for specific types of computers, for specific operating systems, for specific user interfaces
005.7126	Personal computers--communications--programming, . . .
005.71265	Personal computers--communications--programming--specific computers, . . .

So why not using this feature to get to more exact mappings?

Subject headings that are used for indexing for example can be very specific and narrow in their scope of meaning.

If all specific topics were put in broader classes, users searching for documents on the specific topic would probably have to deal with huge result sets containing also all the other topics of the broader class.

In CrissCross we therefore decided in favor of a Deep-level mapping, which means that we were trying to find the most specific DDC number available in the system, but additionally we decided to create numbers according to DDC number building rules if a subject heading could be represented more precisely by that built number.

In our times we still used MelvilClass for creating institutional built numbers in order to match a specific subject heading.

Today, WebDewey provides the best platform for user-created numbers, and with the number building tool it is becoming easier than ever to produce new numbers.

The functionality of user-contribution will be developed in the near future, which will be another argument for a Deep-level mapping, because then it will be possible for all of us to share new numbers – and that will be a great enrichment also for the global DDC database.

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Specificity

- Number building

**Bauhausstil
(Architektur)**

Deep-level mapping

720.9 History, geographic treatment, biography [formerly also 721.09]
+
T2–43 Germany and neighboring central European countries
+
T1--09042
1920–1929

Another aspect of Specificity in the DDC is the Structural hierarchy.

I want to treat this only in a nutshell but wanted to not miss it to mention, because this is an aspect that can be easily overlooked when searching the suitable number.

Whatever is true of the general topic is also true of subordinate topics.

For the intellectual mapping process this is a rule worth a tattoo.

I remember that we had a lot of struggle with this during CrissCross because there were only few examples and explanations that time to be found in the internet and literature.

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Specificity

- Structural hierarchy
 - Whatever is true of the general topic is also true of subordinate topics*
- **Hierarchical force**
 - Where to find?
 - Definition notes, Variant-name, former-name notes, Scope notes, Class-here notes, Number-built notes, Class-elsewhere notes, Former heading notes, See references

Not all mappers are also DDC classifiers – I wasn't, by the way, - and in the beginning, DDC interpretation might not be so easy.

So, again:

What is true of the general topic is also true of subordinate topics.

Without the Relative Index term in this class for Elder persons you wouldn't have any cue to understanding the contents of the class, if you didn't read down the structural hierarchy, to get to:

Single social welfare government programs directed to elder persons.

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Specificity

- Structural hierarchy

353.537 *Personen höheren Alters

300 Sozialwissenschaften
350 Öffentliche Verwaltung, Militärwissenschaft
352-354 Einzelne Themen der öffentlichen Verwaltung
353 Einzelne Bereiche der öffentlichen Verwaltung
353.3-353.9 Öffentliche Verwaltung in inhaltlichen Bereichen ohne Bezug auf Wirtschaft oder Umwelt
353.5 *Socialhilfeverwaltung
353.53 *Programme für Personengruppen
353.537 *Personen höheren Alters

Anmerkungen
*Hänge an wie bei 352-354 angewiesen

Synthetische Notation erstellen

GND (Gemeinsame Normdatei)

Altenhilfsplanung
Altenplan
Bundesaltenplan

Single social welfare government programs directed to elder persons

Registereinträge (Deutsch)

Ältere Personen-Regierungsprogramme
Ältere Personen-Socialhilfe-Öffentliche Verwaltung

Historie

The second example is one for the principle of **Hierarchical force** in the DDC.

The number on the right side for Cruelty to animals looks quite empty. There are no notes and there is only one Relative Index term telling us nothing that we don't know yet.

If you mappers come across such a class you should hear a bell ring.

In the superordinate numbers there are some notes to be found that give us a hint of the hidden class content for the Cruelty to animals number.

The topics in the Definition note in 364 as well as in the Class-here note in the subclass of 364 have hierarchical force also for 364.187.

Noticing that, the Cruelty to animals number is no longer that empty!

All the aspects of the notes that have hierarchical force in the broader numbers also apply for Cruelty to animals.

This gives a lot more specification to the class contents – and hence more options for mappings – than could be expected without consideration of hierarchical force.

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Specificity

- Structural hierarchy: **Hierarchical force:** Example:

364 Criminology Definition note: <i>Crime and its alleviation</i>	364 Criminology 364.1 Criminal offenses 364.18 Other offenses 364.187 Cruelty to animals
364.1 Criminal offenses Class-here note: <i>conspiracy to and incitement to commit an offense, individuals identified with a specific offense or type of offense, investigation of specific crimes, crimes without victims</i>	Notes History Relative Index Terms (English)  Cruelty to animals--criminology

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Specificity

- Structural hierarchy: **Hierarchical force:** Example:

364 Criminology Definition note: <i>Crime and its alleviation</i>	364.187 Cruelty to animals Definition note: Crime against animals and its alleviation
364.1 Criminal offenses Class-here note: <i>conspiracy to and incitement to commit an offense, individuals identified with a specific offense or type of offense, investigation of specific crimes, crimes without victims</i>	Class-here note: conspiracy to and incitement to commit an offense against animals, individuals identified with a specific offense or type of offense against animals, investigation of specific crimes against animals, ...

Coming back once again to the typological differences of the systems to be mapped, context dependency might be another factor that requires some attention.

In the DDC, a topic can occur in more than one discipline. Depending on what your project's aim is, it might make sense to consider mapping in any of the disciplines that your users will find helpful for their tasks.

Example:

An entity A Fast food could for example be mapped to DDC class for Timesaving cooking.

But users may also be interested in literature on other aspects of Fast food, like the Sociology of eating, or in the context of Meals and table service.

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Specificity

- Context dependency

A topic can occur in more than one discipline – in the DDC, that is in all disciplines in which the topic has literary warrant

Fast Food 641.555 \$d2 306.4613 \$d2 642.1 \$d2	One-to-many mapping	641.555 Timesaving cooking 306.4613 *Personal health 642.1 Meals for home, family, individuals
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Further things to talk about (early!) in the mapping project

- Mapping of Tables - Yes or no?
- Updating (hence versioning) of mappings according to DDC changes - Yes or no? And if Yes, how?

Mille grazie, ragazzi e ragazze !

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