

Developing facets in UDC for online retrieval

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KOS types

- keywords
- subject headings systems
- taxonomies
- thesauri
- **classification schemes**
 - **general = universal**: LCC, DDC, **UDC**, BC2...
 - special = domain
- ontologies
- ...

Universal Decimal Classification

created by P Otlet & HM Lafontaine, based on Dewey

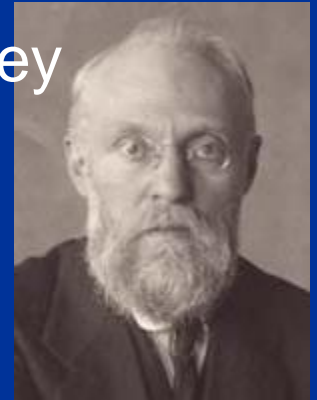
1904-7 first published

translation exists in 39 languages

concepts expressed by notation (language independent)

continuous updates and extensions (~68.000 classes)

currently maintained by UDC Consortium, The Hague



UDC main table

- 0 **Knowledge.** Computer science. Documentation...
- 1 **Philosophy.** Psychology
- 2 **Religion**
- 3 **Social sciences**
- 4 [vacant]
- 5 Mathematics. **Natural Sciences**
- 6 **Applied Science.** Medicine. Technology
- 7 The **arts.** Recreation. Entertainment. Sport
- 8 Language. Linguistics. **Literature**
- 9 Geography. Biography. **History**

UDC auxiliary tables

Symbols

+ /

Co-ordination. Extension

: :: []

Relation. Order fixing. Subordination

Common auxiliary “facets”

=0/=9

Languages

(01/09)

Forms

(1/9)

Places

(=0/=9)

Ethnic groups

"0/9"

Time

-01/-05

Common properties

indicators
identify the
source
table

Special auxiliary facets

-1/-9 or

.01/.09 or

`01/`09

Combination in UDC

1	philosophy
(1)	Europe
"193"	1930s
-027.1	development

1 (1) "193"-027.1

development of European philosophy in the 1930s

Use in OPACs



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Select index to browse:	Subject ZBZ, Music: Form/Type beginning with... Subject ZBZ, Music: Orchestration beginning with... Subject ZBZ, LCSH/NAB beginning with... UDC
Type word or phrase:	<input type="text" value="1"/>
	<input type="button" value="Go"/> <input type="button" value="Clear"/>

Browse List: ETH Subjects UDC

No. of Recs	Entry
88	1-051 PHILOSOPHERS
88	1-051 PHILOSOPHES
72	101 AUFGABE, BEDEUTUNG UND WESEN DER PHILOSOPHIE
72	101 BUT ET ESSENCE DE LA PHILOSOPHIE
72	101 NATURE AND ROLE OF PHILOSOPHY
26	101(37) PHILOSOPHIE ROMAINE
26	101(37) RÖMISCHE PHILOSOPHIE
26	101(37) ROMAN PHILOSOPHY
146	101(38) GREEK PHILOSOPHY
146	101(38) GRIECHISCHE PHILOSOPHIE

Use in subject gateways



Katalog OKO

Naslovnica

Gor

Kazalo

Iskanje

1 Filozofija. Psihologija

Philosophy. Psychology

101	Bistvo in vloga filozofije (<i>Nature and role of philosophy</i>)
11	Metafizika (<i>Metaphysics</i>)
13	Filozofija duha (<i>Philosophy of mind</i>)
14	Filozofski sistemi (<i>Philosophical systems</i>)
159.9	Psihologija (<i>Psychology</i>)
16	Logika (<i>Logic</i>)
17	Filozofija morale. Etika (<i>Philosophy of moral. Ethics</i>)

Hiperviri (Hypersources)

1. [Guide to Philosophy on the Internet](#)
2. [Stanford Encyclopedia of Philosophy](#)

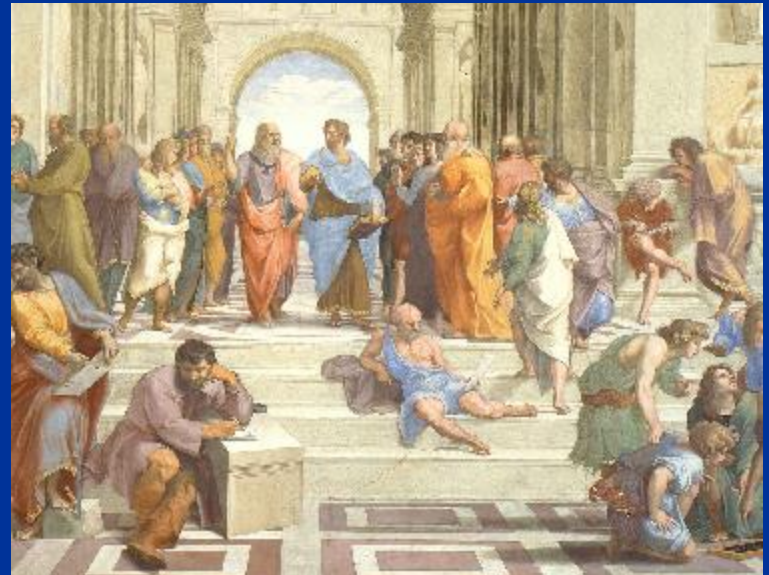
Revision of 1 Philosophy

2009-2010: study to produce a proposal

discussion group <italia@udcc.org>

aims:

- facetize structure
- update subclasses
- update terminology



Methods

- considering facets of philosophy in:
 - encyclopaedias, dictionaries
 - other KOSs: BC2, thesauri, ...
- discussing which facets are needed
- discussing which facet should be given priority:
Systems? Branches?...
- analyzing syntactical relationships between facets

Facetization

Suggested facets of philosophy:

- Branches. Fields
- Systems. Schools. Traditions. Periods. History
- Viewpoints. Standpoints. Doctrines. Approaches
- Topics. Special philosophies. Domain philosophies
- Development. Interactions
- Practice. Method. Argumentation
- Applications. Applied philosophy
- Philosophers. Promoters
- Sources. Materials

Facetization

Current subclasses moved to facets:

101.8 => 1-5 "methods of philosophizing"

14 => 1-8 "philosophical systems and points of view"

Thus we get concepts such as:

1-5 "methods of phylosophizing"

1-8 philosophical systems and points of view

1-83 "rationalism"

Making possible to express compound concepts:

1-83-5 "methods of rationalism"

Question arising

Special philosophies, e.g.
“philosophy of science”, “of law” ...

currently classed under each subject by colon combination:

5 : 1 “science *in relation to* philosophy”

Create a facet for them?

1-7 “special philosophy”

1-7 : **5** “philosophy *of* science”

Extra-defined facets

In line with the development of UDC,
notation should be obtained by combination
with existing classes:

1-7 : 5 “philosophy of science”

The colon is needed so that
a query for *5* retrieves the compound classmark

Context-defined facets

A different case are concepts occurring only within a facet:

1-8 “philosophical viewpoints”

1-811 according to number and quality of principles

1-811.1 “monism”

No need for separator here.

Every faceted KOS has these two kinds of facets !

[Gnoli 2006 ISKO Vienna]

Parsing issues

1-76:5-43-2:1

⇒ 1-76:5 1-43 1-2:1

or

⇒ 1-76 5-43-2 1 ?

Computers have to be instructed for correct parsing;

Ideally notation, respecting ASCII order, would mechanically produce a desired sequence

Complex compounds

More precise the expressed relationships –
more demanding the parsing.

“Murphy’s law” of conflict between

- human parsing (notation simple and short)
- machine parsing (notation complex and long)

[Austin 1979]

Looking for good compromises...

Cfr. ILC solution of default shortened foci

Findings

UDC should continue to be facetized to achieve more logical and better structure of knowledge fields

Extra- and context-defined facets need different treatments

Online retrieval is improved by:

- unique notation for each concept
- explicit relationships
- unambiguous syntax

Within such constraints,
notation should be as simple as possible

Next questions

Finalize a citation order for the facets of philosophy

Decide a standard notation for facets throughout UDC

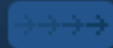
Decide a standard priority between relationships

Manage concept identification in notation combinations and changes

[Slavic & Isaac in this workshop]

Provide easy interfaces for classifiers and for users

Stay tuned...



Universal Decimal Classification

MONDAY, 17 AUGUST 2009

UDC Philosophy Revision: report 1

Earlier this year (see our blog item [philosophy](#)) we have announced the start of the work on the revision of class 1 Philosophy by Italian working group on UDC (see discussion list [Italia - Gruppo di lavoro italiano sulla Universal Decimal Classification](#)).

Claudio Gnoli has now published the report on the work done so far at <http://italia.udcc.org/report1.html>

Posted by Aida Slavic at [23:06](#)

[0 comments](#)

Labels: [philosophy](#), [revision](#)

SATURDAY, 18 JULY 2009

UDC Twitter

UDC is now on twitter. You can follow us at <http://twitter.com/UDCC>

Posted by Aida Slavic at [13:06](#)

[0 comments](#)

Labels: [twitter](#), [UDCC](#)

TUESDAY, 16 JUNE 2009

June 2009 Classification and Indexing Section Newsletter

The June 2009 issue of the Classification and Indexing Section Newsletter is now available at

http://www.ifa.org/en/publications/newsletter_1

UDC
CONSORTIUM

UDC

The **Universal Decimal Classification** (UDC) is the world's foremost multilingual documentary classification scheme for all fields of knowledge, a sophisticated indexing and retrieval tool.

twitter

[UDC-forum - UDC discussion mailing list English](#)

[CDU-ES Lista de distribución sobre la CDU en español](#)

[Italia - Gruppo di lavoro italiano sulla Classificazione decimale universale](#)

[UDK lista - discussion list on UDC in Croatian](#)

udcc.org