

http://www. **WindMusic**.org

Example of the new possibilities
for DSpace
when adding SKOS
thesaurus and authority lists
management

DSUG 2009, Göteborg, Sweden





came Centre d'Informations musicales





Dominicans' cloister in Guebwiller





La Marguerite

Adding to DSpace, SKOS compatible thesaurus and authority lists management

- Why ?
- What are the results achieved?
- How has it been done?
- What's next?

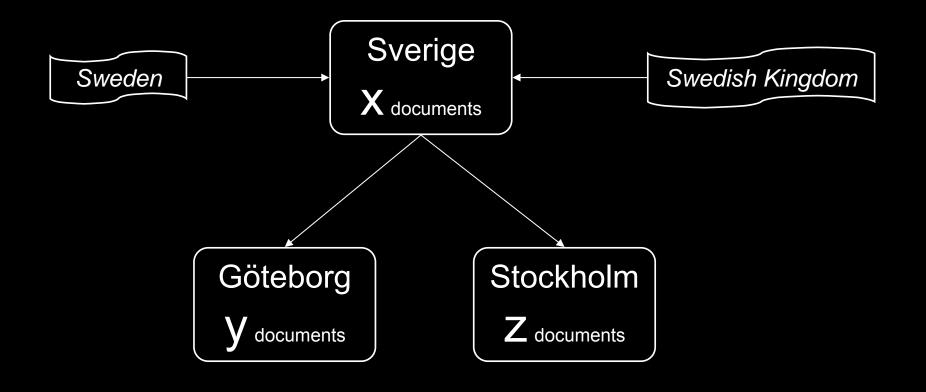


Internet is worldwide and World is MULTILINGUAL Sverige



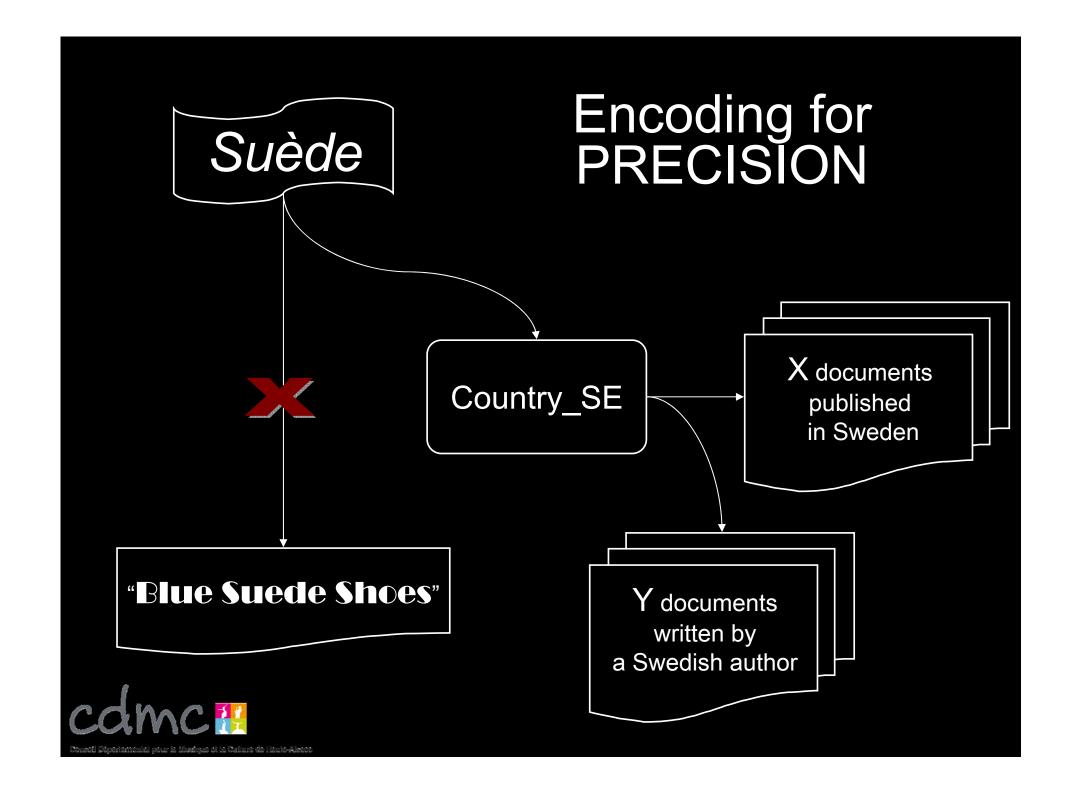
- - Sweden
 - Suède
 - Zweden
 - Schweden
 - Suecia
 - Svezia
 - Σουηδία
 - Ruotsi
 - Szwecja...





Exhaustivity = $x \cup y \cup z$







Suédoise

Suiden

Sveridge



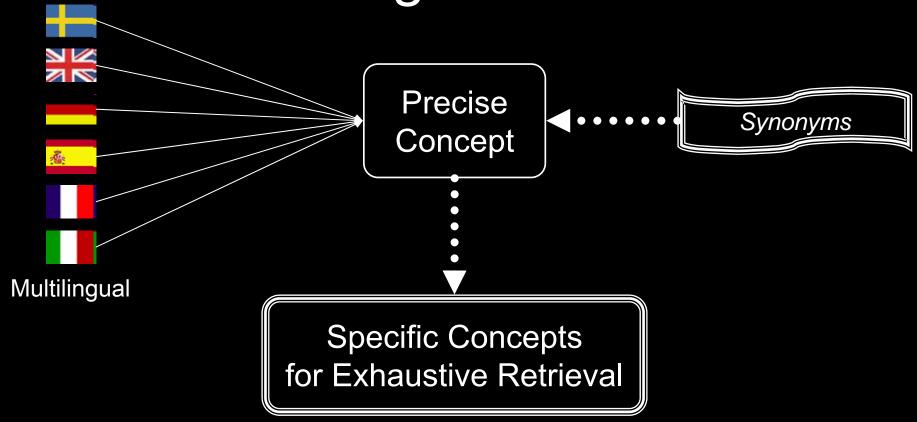
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- \rightarrow Sweden
- →Suède
- →Zweden
- →Schweden
- →Suecia
- →Svezia
- $\to \Sigma$ ουηδία
- \rightarrow Ruotsi
- →Szwecja

Data Quality



Country_SE

Controlling Field Values



Better Retrieval & Data Quality



WindMusic Demo Bienvenue Willkommen Wellcome WindMusic > AAA Search DSpace Opening camc hours Go Monday to Records Friday: Scores 9h - 12h30 Conseil Départemental pour la Musique et la Culture de Haute-Alsace 14h -General Search 17h00 Welcome on the Browse Musical Database of the CDMC Communities A project supported The CDMC Musical Information Center is focussed on musical works for wind bands & Collections by Upper and instruments. Subject Search Alsace In order to simplify the user's researches, the CDMC provides an online public access Council. News to its catalogue. Within the premises of the CDMC Musical Information Center, users Conseil Général can listen recordings, wearing headphones plugged to multimedia stations, while Sign on to: looking at their full scores. Tags Haut-Rhin My DSpace

Enter some text in the box below to search DSpace.

Go

authorized users

[WindMusic=

In process

Search

T Go



- Records
- Scores
- General Search

Browse

- Communities
 & Collections
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WindMusic >

Go

Communities and Collections

1. Wind Music Scores

- • 1.1. Concert Band Scores [16693]
- 1.2. "Batterie-Fanfare" Scores [1145]
- • 1.3. Big Band Scores [808]
- 1.4. Other Scores (Fanfare Band, Brass Band)
 [607]

2. Wind Music Recordings

- @ 2.1. Concert Band Recordings [21211]
- @ 2.2. "Batterie-Fanfare" Recordings [1577]
- @ 2.3. Big Band Recordings [346]
- ② 2.4. Other Recordings [2055]

3. Ensembles

- • 3.1. Scores [1134]
- @ 3.2. Recordings [832]

4. Solo and Educational Works

- 4.1. Solo Works [9672]
- 4.2. Educational Works [1117]
- 4.3. Children's Operas [77]

5. Other Resources

- \$\infty\$ 5.1. Books [1247]
- @ 5.2. CD [3027]
- @ 5.3. Audio-visual (Videotapes, DVD) [12]

AAA

• @ 5.4. CD-ROM [13]

6. Around Musical Works

- • 6.1. Authors (Biographies) [18666]
- 6.2. Publishers [1898]
- ◆ 6.3. Orchestra [1552]
- 🖺 6.4. Keywords (index) [914]
- \$6.5. Series [1657]



Bienvenue Willkommen Wellcome WindMusic > AAA **Search DSpace** Go Records → Records Scores Title: General Search Contributors: Browse Performer: Ommunities Orchestra: & Collections Subject Search Country: News Publishers: Sign on to: Keywords: → Tags AND 💌 → My DSpace AND 💌 authorized users Duration: -Recent Submissions: → [WindMusic=] Go Search → Home → Help



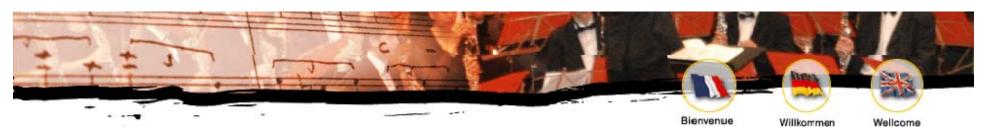
Bienvenue Willkommen WindMusic > AAA Search DSpace Go Records → Records Scores Title: General Search Contributors: jack Browse JACKSON, Joe (13) Performer: JACKSON, Leroy Communities Orchestra: JACKSON, Michael (23) & Collections JACKSON, Neil (2) Subject Search Country: JACKSON, Peter (2) News Publishers: Sign on to: Keywords: → Tags AND 💌 My DSpace authorized users AND 💌 Duration: -In process Recent Submissions: Go Search → Home → Help



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Scores	Title:			
General Search	Contributors:			
Browse	Performer:		<u> </u>	
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Subject Search	Country:	sw		
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Bienvenue Willkommen WindMusic > AAA Search DSpace Go Records → Records Scores Title: General Search Contributors: jack Browse JACKSON, Joe (13) Performer: JACKSON, Leroy Communities Orchestra: JACKSON, Michael (23) & Collections JACKSON, Neil (2) Subject Search Country: JACKSON, Peter (2) News Publishers: Sign on to: Keywords: → Tags AND 💌 My DSpace authorized users AND 💌 Duration: -In process Recent Submissions: → [WindMusic= Go Search → Home → Help



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classification: Works on CD AND author: JACKSON, Michael

JACKSON, Michael

Results 1-16 of 16.

nº	Newly Available Newly Available	Date issued Composer Call Number Titre	Title Similiraty Author	Tuna
		2.2		Туре
1	2006-04-26	We are the world	Composer: JACKSON, Michael	Works on CI
2	2005-05-09	We are the world	Composer: JACKSON, Michael	Works on Cl
3	2000-09-07	Heal the World	Composer: JACKSON, Michael	Works on C
4	2000-09-07	Heal the world	Composer: JACKSON, Michael	Works on C
5	2000-09-06	Earth song	Composer: JACKSON, Michael	Works on C
6	2000-09-06	You are not alone	Composer; JACKSON, Michael	Works on C
7_	2000-07-25	Songs of the Wiz	Composer:ROSS, Diana	Works on C
8	2000-07-18	Earth song	Composer: JACKSON, Michael	Works on C
9	2000-07-08	Heal the world	Composer: JACKSON, Michael	Works on C
10	2000-07-07	Michael	Composer: JACKSON, Michael	Works on C
11	2000-06-05	We are the world	Composer:RICHIE, Lionel	Works on C
12	2000-05-24	Tribute to Michael Jackson	Composer: JACKSON, Michael	Works on C
13	1999-08-16	Heal the World	Composer: JACKSON, Michael	Works on C
14	1999-08-06	The Girl is Mine	Composer: JACKSON, Michael	Works on C
15	1999-08-03	Heal the World	Composer: JACKSON, Michael	Works on C
16	1999-07-15	@ Earth Song	Composer: JACKSON, Michael	Works on C



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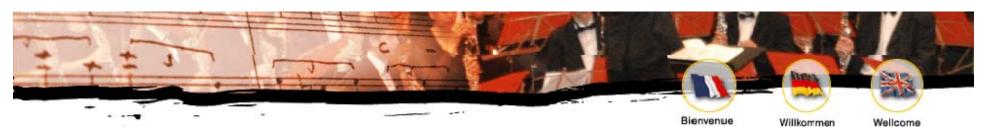
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classification: Works on CD AND author: JACKSON, Michael

Results 1-16 of 16.

=	Newly Available D	Date issued Composer Call Number	10 april 10 at 10 at 10	
nº	Call Number	Titre	Author	Туре
1	CDBBA000040-SOL		Composer: JACKSON, Michael	Works on CD
2	CDBBA000040-SOL		Composer: JACKSON, Michael	Works on CD
3	CDBBA000040-SOL	You are not alone	Composer: JACKSON, Michael	Works on CI
4	CDBBA000043-SOL		Composer: JACKSON, Michael	Works on CI
5_	CDHAROOO115-GLO		Composer: JACKSON, Michael	Works on CI
6	CDHAR000130-HAR		Composer: JACKSON, Michael	Works on CI
7_	CDHAR000133-HAR		Composer: JACKSON, Michael	Works on Cl
8	CDHAROOO175-JUS		Composer: JACKSON, Michael	Works on Cl
9_	CDHAR000262-NEW	Tribute to Michael Jackson	Composer: JACKSON, Michael	Works on CI
10	CDHAR000341-STA		Composer: JACKSON, Michael	Works on CI
11	CDHAR000342-TRA	Heal the world	Composer: JACKSON, Michael	Works on CI
12	CDHAR000428-DI0		Composer: JACKSON, Michael	Works on CI
13	CDHAR000521-TR0	Ø Songs of the Wiz	Composer:ROSS, Diana	Works on CI
14	CDHAR000712-ACA	We are the world	Composer:RICHIE, Lionel	Works on Cl
15	CDHAR001374-LET	We are the world	Composer: JACKSON, Michael	Works on Cl
16	CDHAROO1505-MOV	We are the world	Composer: JACKSON, Michael	Works on CI



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classification: Works on CD AND author: JACKSON, Michael

JACKSON, Michael

Results 1-16 of 16.

nº	Newly Available Newly Available	Date issued Composer Call Number Titre	Title Similiraty Author	Tuna
		2.2		Туре
1	2006-04-26	We are the world	Composer: JACKSON, Michael	Works on CI
2	2005-05-09	We are the world	Composer: JACKSON, Michael	Works on Cl
3	2000-09-07	Heal the World	Composer: JACKSON, Michael	Works on C
4	2000-09-07	Heal the world	Composer: JACKSON, Michael	Works on C
5	2000-09-06	Earth song	Composer: JACKSON, Michael	Works on C
6	2000-09-06	You are not alone	Composer; JACKSON, Michael	Works on C
7_	2000-07-25	Songs of the Wiz	Composer:ROSS, Diana	Works on C
8	2000-07-18	Earth song	Composer: JACKSON, Michael	Works on C
9	2000-07-08	Heal the world	Composer: JACKSON, Michael	Works on C
10	2000-07-07	Michael	Composer: JACKSON, Michael	Works on C
11	2000-06-05	We are the world	Composer:RICHIE, Lionel	Works on C
12	2000-05-24	Tribute to Michael Jackson	Composer: JACKSON, Michael	Works on C
13	1999-08-16	Heal the World	Composer: JACKSON, Michael	Works on C
14	1999-08-06	The Girl is Mine	Composer: JACKSON, Michael	Works on C
15	1999-08-03	Heal the World	Composer: JACKSON, Michael	Works on C
16	1999-07-15	@ Earth Song	Composer: JACKSON, Michael	Works on C



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Title:	We are the world simil.	
Туре:	Works on CD	≥ 26035
Language:		► 21270
Composer:	JACKSON, Michael	23
Conductor:	REIFT, Marc	□ 1105
Performer:	Philharmonic Wind Orchestra	490
Keywords:	21st century	► 11819 ►►
STATE TO THE PROPERTY OF THE STATE OF THE ST	Song	►945 ►► 1181 ► +
	Original work	► 29352 ► ►
	Symphonic band	►17164 ►►
Orchestras:	Concert band 1	► 36982
Publisher Reference:	CD7069	
Description:	1 plage	
Duration:	00:03:34	
Linked Scores:	◆ We are the World	
in:	 Movie and light music highlights 	► +45
Play:	\$	
CIM Call Number:	CDHAR001505-MOV	
URI (PermaLink):	http:/dspace/handle/68502/79897	
Annears in Collections	2.1. Concert Band Recordings	

We are the world author:personne_337 Go JACKSON, Michael → Records Results 1-23 of 23. → Scores → General Search **Browse** → Communities & Collections → Subject Search News Sign on to: → Tags → My DSpace authorized users → In process] Go → Home → Help

	Newly Available	Date issued Composer Call Nu	mber Title Similiraty	
nº	Newly Available	Titre	Author	Туре
1	2006-04-26	We are the world	Composer:JACKSON, Michael	Works on CD
2	2005-05-09	We are the world	Composer:JACKSON, Michael	Works on CD
3	2004-12-28	◆ We are the World	Composer:JACKSON, Michael	Wind band - Full score
4	2003-04-07	◆ Black or white	Author:JACKSON, Michael	Wind band - Full score
5.	2002-08-06	◆ Earth song	Composer:JACKSON, Michael	Ensemble music
6	2000-09-07	Heal the World	Composer:JACKSON, Michael	Works on CD
7	2000-09-07	Heal the world	Composer: JACKSON, Michael	Works on CD
8	2000-09-06	Earth song	Composer:JACKSON, Michael	Works on CD
9	2000-09-06	You are not alone	Composer:JACKSON, Michael	Works on CD
10	2000-07-25	Songs of the Wiz	Composer:ROSS, Diana	Works on CD
11	2000-07-18		Composer:JACKSON, Michael	Works on CD
12	2000-07-08	Heal the world	Composer:JACKSON, Michael	Works on CD
13	2000-07-07	Michael	Composer:JACKSON, Michael	Works on CD
14	2000-06-05	We are the world	Composer:RICHIE, Lionel	Works on CD
15	2000-05-24	Tribute to Michael Jackson	Composer:JACKSON, Michael	Works on CD
16	1999-08-16		Composer:JACKSON, Michael	Works on CD
17	1999-08-06		Composer:JACKSON, Michael	Works on CD
18	1999-08-03		Composer:JACKSON, Michael	Works on CD
19	1999-07-15		Composer:JACKSON, Michael	Works on CD
20	1998-07-10	Tribute to Michael Jackson	Composer:JACKSON, Michael	Wind band - Full score
21	1998-04-24	◆ Earth Song	Composer:JACKSON, Michael	Wind band - Full score
22	1997-12-02	◆ Earth Song	Composer:JACKSON, Michael	Wind band - Condensed score
23	1997-12-02	✓ Heal the world	Composer: TACKSON Michael	Wind hand - Condensed score



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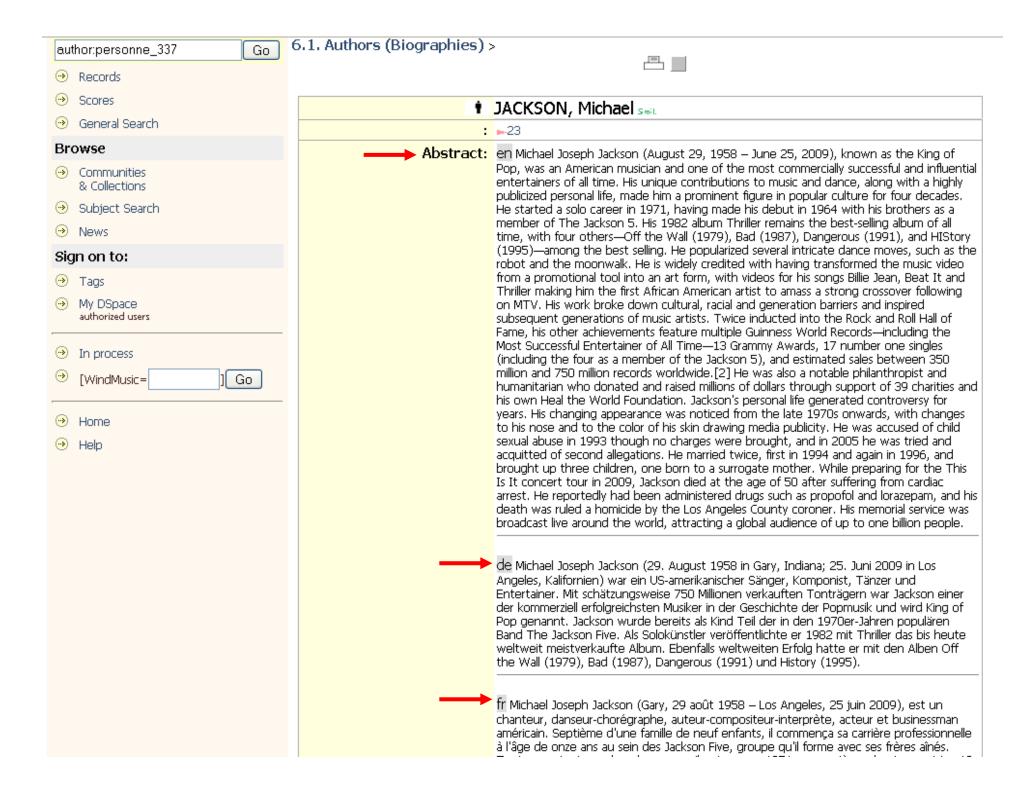




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Title:	We are the world simil.	
Type:	Works on CD	► 26035
Language:	20000000	► 21270
Composer:		► 23
Conductor:	REIFT, Marc	► 1105
Performer:	Philharmonic Wind Orchestra	► 490
Keywords:	21st century	▶ 11819 ▶ ◆
SOUTH CONTROL OF THE SOUTH SOUTH	Song Song	▶945 ▶ ▶1181 ▶ +4
	🛅 Original work	► 29352 ► ►
	Symphonic band	► 17164 ► ►
Orchestras:	Concert band 1	► 36982
Publisher Reference:	CD7069	
Description:	1 plage	
Duration:	00:03:34	
Linked Scores:	◆ We are the World	
in:	 Movie and light music highlights 	► +45
Play:	\$	
CIM Call Number:	CDHAR001505-MOV	
URI (PermaLink):	http:/dspace/handle/68502/79897	
Annears in Collections:	2.1. Concert Band Recordings	





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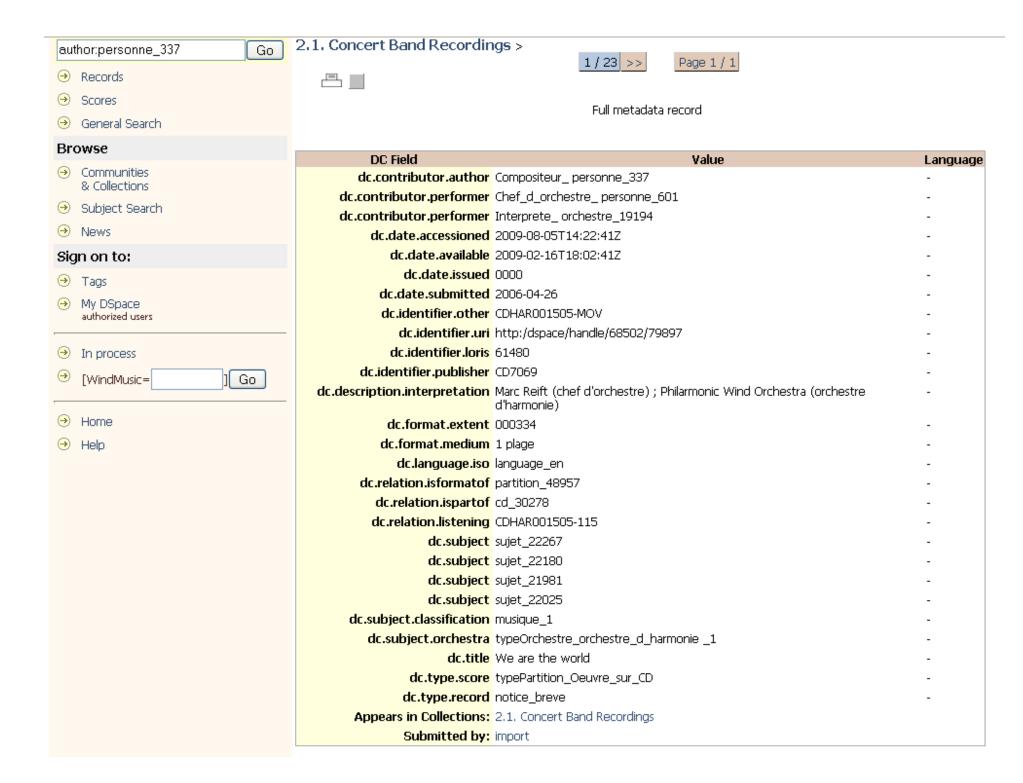




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Title:	We are the world simil.	
Type:	Works on CD	► 26035
Language:	English	► 21270
Composer:	JACKSON, Michael	≥ 23
Conductor:	REIFT, Marc	► 1105
Performer:	Philharmonic Wind Orchestra	► 490
Keywords:	21st century	<u>►</u> 11819 ► ►
1.0,110.110	Carlo Song	►945 ►► 1181 ► +
	Criginal work	► 29352 ►►
	Symphonic band	► 17164 ►►
Orchestras:	Concert band 1	► 36982
Publisher Reference:	CD7069	
Description:	1 plage	
Duration:	00:03:34	
Linked Scores:	◆ We are the World	
in:	 Movie and light music highlights 	► +45
Play:	P	
CIM Call Number:	CDHAR001505-MOV	
URI (PermaLink):	http:/dspace/handle/68502/79897	
Appears in Collections:	The state of the s	



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In Collections: 2.1. Concert Band Recordings

Indexing Access Autorisa	ions Withdraw Delete (Expunge)	
 Title Type Author Keywords Orchestras Publisher Reference Linked Scores CIM Call Number Add Bitstream 	occ.1 ;; occ.2 ;; occ.1 occ.2	Update: = Remove: X Add: +
† †	Title	
Title :	We are the world	= X +
Additional Title :		* +
Contents list :		= +
† †	Туре	
Туре :	Works on CD typePartition_Oeuvre_sur_CD	= X

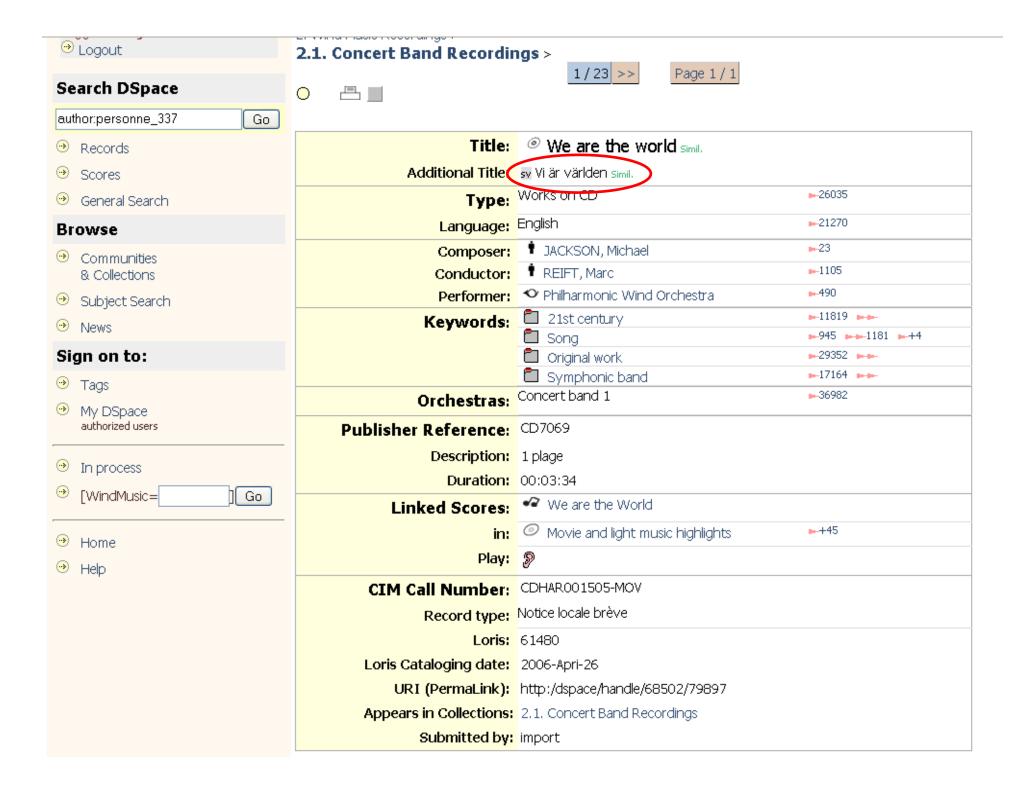
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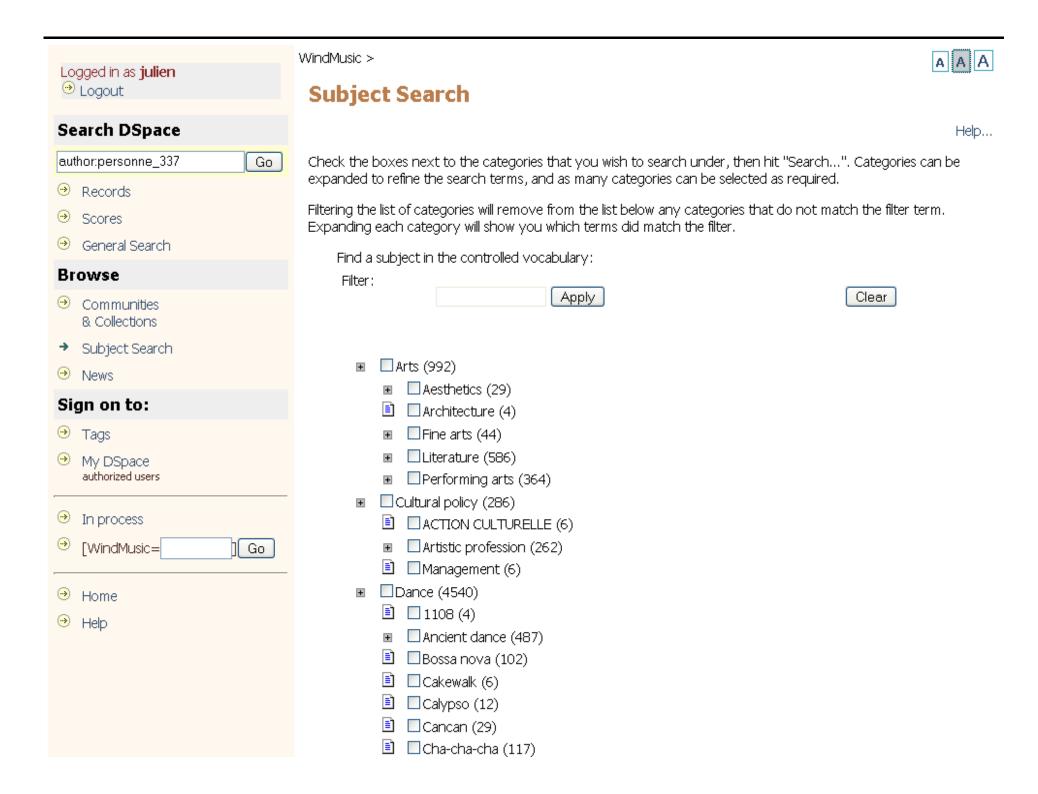


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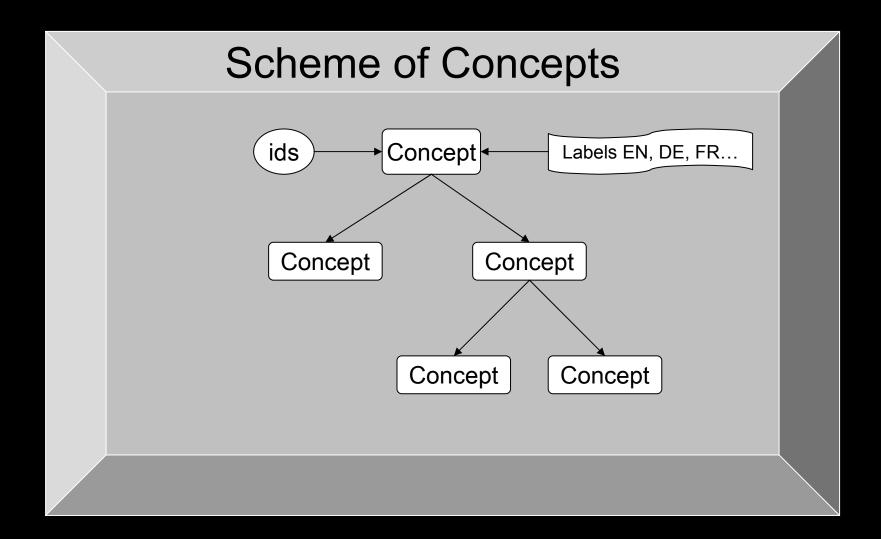
In Collections: 2.1. Concert Band Recordings

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$\uparrow \uparrow$		Title		
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	Additional Title :	Vi är världen	sw Swahili	= +
	Contents list :		Swati <i>Swedish</i>	= +
† †		Туре]
	Туре :	Works on CD typePartition_Oeuvre_sur_CD		= X





Simple Knowledge Organization System









Thesauri and Authority Lists sources



- SQL Dynamic Sources
 - DSpace Collections
 - Any existing databases from another application
- CSV (Tabular) files
- XML
- RDF to be implemented

All sources are made accessible with a common SKOS compatible API





DSpace Integration - Encoding

- The user selects a Concept Label using "Auto-complete"
 - to Add a value to a Metadata field
 - to Change a value
 - to select a concept to be Searched
 - The concept code is stored (or searched) by DSpace

Labels also have to be mapped to concept codes when Importing new data...



DSpace Indexing

- Explode concepts with all their labels and their broader concepts
- Add to Lucene all translations and synonyms for each concept referred by metadata:
 - Enables word searches using any of those terms
- Add to Lucene all broader concepts for each code referred by metadata:
 - Search can include narrower concepts
 - Search can start from a category of authority list entries (e.g. all records with an author born in a given country)
- Count removed and added concept references:
 - Concepts are displayed with usage statistics in each index and application





DSpace Metadata Rendering:

Decoding concept references to users

- Best available concept label for the user language
- Count of concept usage in different applications and for different search indexes
- Exporting metadata fields in OAI or RSS





Refine your search

▼ Access

Online (21)

At the Library (18)

▼ Format

Book (21)

Journal/Periodical (7)

Conference Proceedings (1)

Microformat (1)

▼ Author

Wood, D. (2)

Bailey, Charles W. (Charles

Wesley), 1950- (1)

Baker, Donald J. (1)

Bullivant, Lucy (1)

Chaboo, Caroline Simmrita (1)

more

▼ Publication Year

Last 50 years (20)

Last 10 years (9)

Last 3 years (4)

This year (1)

▼ Topic

Earth sciences (4)

Economics (2)

European federation (2)

Geology (2)

International law (2)





What's next?

- Dublin Core Application
 Profile (DCAP) to standardize
 Metadata Processing
 Parameterization
- Integration with SolR: Faceted Browsing, BlackLight?
- SHAME for data update
- SKOS RDF support

Project information can be found at http://www.ASKOSI.org