

MIMO multilingual thesaurus

Rodolphe Bailly – Cité de la musique

Linked Heritage Seminar - 18th of April 2013



MIMO
musical instrument museums online

Explore the world
collections of musical
instruments

Welcome to the world's largest freely accessible database
for information on musical instruments held in public
collections. Our database now contains the records
of **50 815 instruments**.

[INSTRUMENT FAMILIES](#) | [MAP](#)

© MIMO - Musical Instrument Museums Online



The University of Edinburgh



NATIONAL
MUSEUM



Polo



Musikmuseet



[About MIMO](#) | [How to join MIMO](#) | [Contact](#) | [Credits](#)

Déroulé

- Context: the MIMO project
- MIMO multilingual issue
- Our solution
 - The MIMO vocabulary
 - Management Tool
- Use of the vocabulary
 - mimo-db
 - Europeana
 - External projects

MIMO

musical instrument museums online



45,000



1,800



300



europeana
think culture

www.europeana.eu

www.mimo-project.eu



THE UNIVERSITY of EDINBURGH

Image of Hardanger fiddle © University of Edinburgh



Co-funded by the European Union



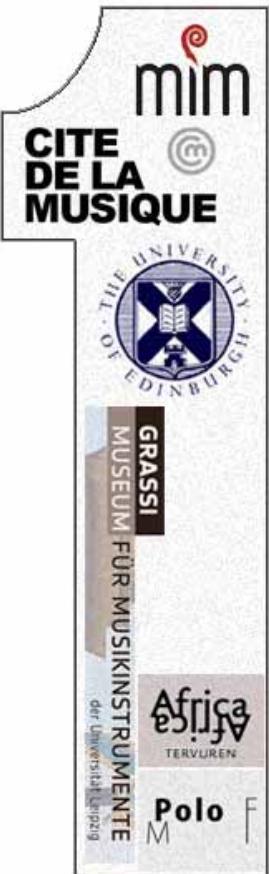


eContentplus

01/09/2009 - 31/08/2011

€3,197,870





1. University of Edinburgh (EUCHMI)
2. Germanisches Nationalmuseum, N  rnberg
3. University of Leipzig, Museum f  r Musikinstrumente
4. Africamuseum, Tervuren
5. Associazione "Amici del Museo degli Strumenti Musicali," Florence
6. C  te de la Musique, Paris
7. Musical Instrument Museum, Brussels
8. Universit   degli Studi di Firenze, Florence
9. Horniman Museum, London
10. Ethnologisches Museum, Berlin (Stiftung Preu  ischer Kulturbesitz)
11. The Stockholm Music Museum

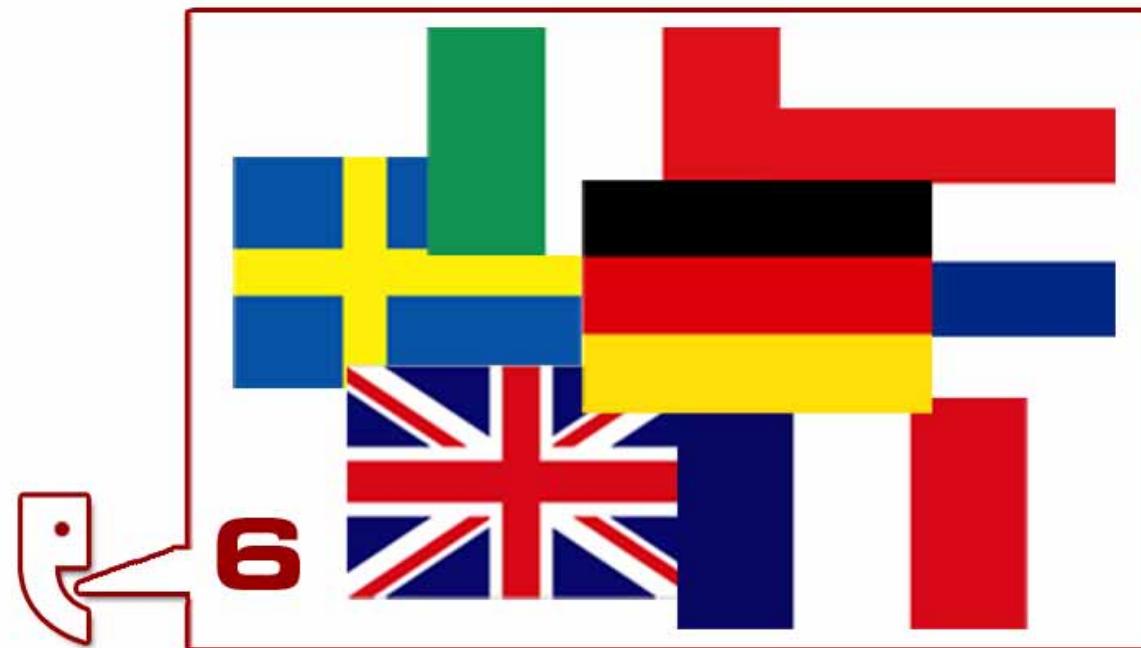


S M
B Staatliche Museen
zu Berlin



Musikmuseet.ø





Problem

Search by “instrument type”

Inside the original museum records:

Flute ; Flûte ; Flauto ; Flöte ; Fluit ; Flöjt

Search phrase using one language must return records in multiple languages

Our Solution

- 1/ Create a multilingual dictionary
- 2/ Add one of the dictionary term into each of the records
- 3/ Use the dictionary during the search request

Create a multilingual dictionary

1/ Define a structure for the dictionary :

- Build a 3 levels Thesaurus
- Duplicate this thesaurus for each language
- > 1 « pivot » thesaurus + 6 language specific

2/ Begin the work in one language using Excel

- Ask every participant to send terms proposals
- Manually de-duplicate

3/ In the meantime, choose or build a tool to translate and manage the thesaurus



Create a multilingual dictionary

	A	B	C	D	E
1	FAMILY (Pivot)	GROUP (Pivot)	KEYWORD (Pivot)	SYNONYMS, ALTERNATIVE TRANSLITERATIONS AND SPELLINGS (Pivot)	Pivot Language
689	Strings	Lutes	Komuz		
690	Strings	Lutes	Konting		
691	Strings	Lutes	Kopuz	Qopuz	
692	Strings	Lutes	Krajappi	Kra-chapee ; Chapee	Thai
693	Strings	Lutes	Lutar	Lotar ; Lothar	
694	Strings	Lutes	Lute		
695	Strings	Lutes	Lyre-bandurria		
696	Strings	Lutes	Mamokhorong		
697	Strings	Lutes	Mandole		
698	Strings	Lutes	Mandolone		
699	Strings	Lutes	Mandora	Calichon ; Gallichon	
700	Strings	Lutes	Molo		
701	Strings	Lutes	Nanduni		
702	Strings	Lutes	Nkoni	Ngoni	
703	Strings	Lutes	Orpharion	Orpheoreon	
704	Strings	Lutes	Pandoura		Greek
705	Strings	Lutes	Panduri	Phanduri	
706	Strings	Lutes	Penorcon		
707	Strings	Lutes	Pi-bang		
708	Strings	Lutes	Pipa	Pepa	
709	Strings	Lutes	Qanbus	Qabus ; Kabosy ; Qabus ; Kabosa ; Qanbu	
710	Strings	Lutes	Quwaytara	Kawaitara ; Kuwaytara ; Kuwithra ; Kuwi	
711	Strings	Lutes	Rabab	Rebab ; Ribab ; Rebâb	
712	Strings	Lutes	Rabel		
713	Strings	Lutes	Ruan		
714	Strings	Lutes	Sanshin		
715	Strings	Lutes	Sanxian	San hsien ; San-heen	
716	Strings	Lutes	Saradiya vina		
717	Strings	Lutes	Sarasvati vina		

MIMO Vocabulary Web Management Tool

The screenshot shows the MIMO Vocabulary Web Management Tool interface. The left sidebar contains a hierarchical tree view of musical instruments, with 'Wind instruments (23)' expanded to show various types like Accordions, Bagpipes, Bassoons, etc. The main search results page has the following layout:

- Detail**, **Graph**, **Relationships**, **Locations**, **Linked files** tabs at the top.
- Print** button on the right.
- Current term**: Alphorn
- Synonyms**: Alpenhorn
- Related terms**: 423.121.12 End-blown straight labrosones with mouthpiece
- Broader terms**: Trumpets
- Narrower terms**
- Translations**: English (Alphorn), French (Cor des Alpes), Italian (Corno delle Alpi), German (Alphorn), Dutch (Alphoorn), Swedish (Alphorn)

[Hierarchical](#) [Alphabetical](#) [Search](#)
[Detail](#) [Graph](#) [Relationships](#) [Locations](#) [Linked files](#)
[New top term](#) [Print](#)

Tricks and options

- Miriton (1)
- Strumenti a corde (18)
- Strumenti a percussione (19)
- Strumenti a tastiera (8)
- Strumenti ad aria (23)**
 - Altri (14)
 - Armoniche (2)
 - Clarinetti (36)
 - Cornamuse (38)
 - Cornette (4)
 - Cornetti (7)
 - Corni (12)
 - Corni da caccia (4)
 - Corni segnale (6)
 - Fagotti (21)
 - Fisarmoniche (11)
 - Flauti (257)
 - Flicorni (5)
 - Oboi (92)
 - Oficleidi (7)
 - Organi a bocca (14)
 - Rombi (2)
 - Sassofoni (8)
 - Saxhorn (21)
 - Serpentoni (6)
 - Trombe (86)**
 - Agwara
 - Amakondere
 - Ananta vijaya
 - Bak
 - Barataka
 - Bargumi
 - Bion
 - Bockhorn
 - Buccina
 - Buccin-trombone
 - Büchel

Broader terms

- Trombe


Current term

- Corno delle Alpi

Synonyms

Related terms

Narrower terms

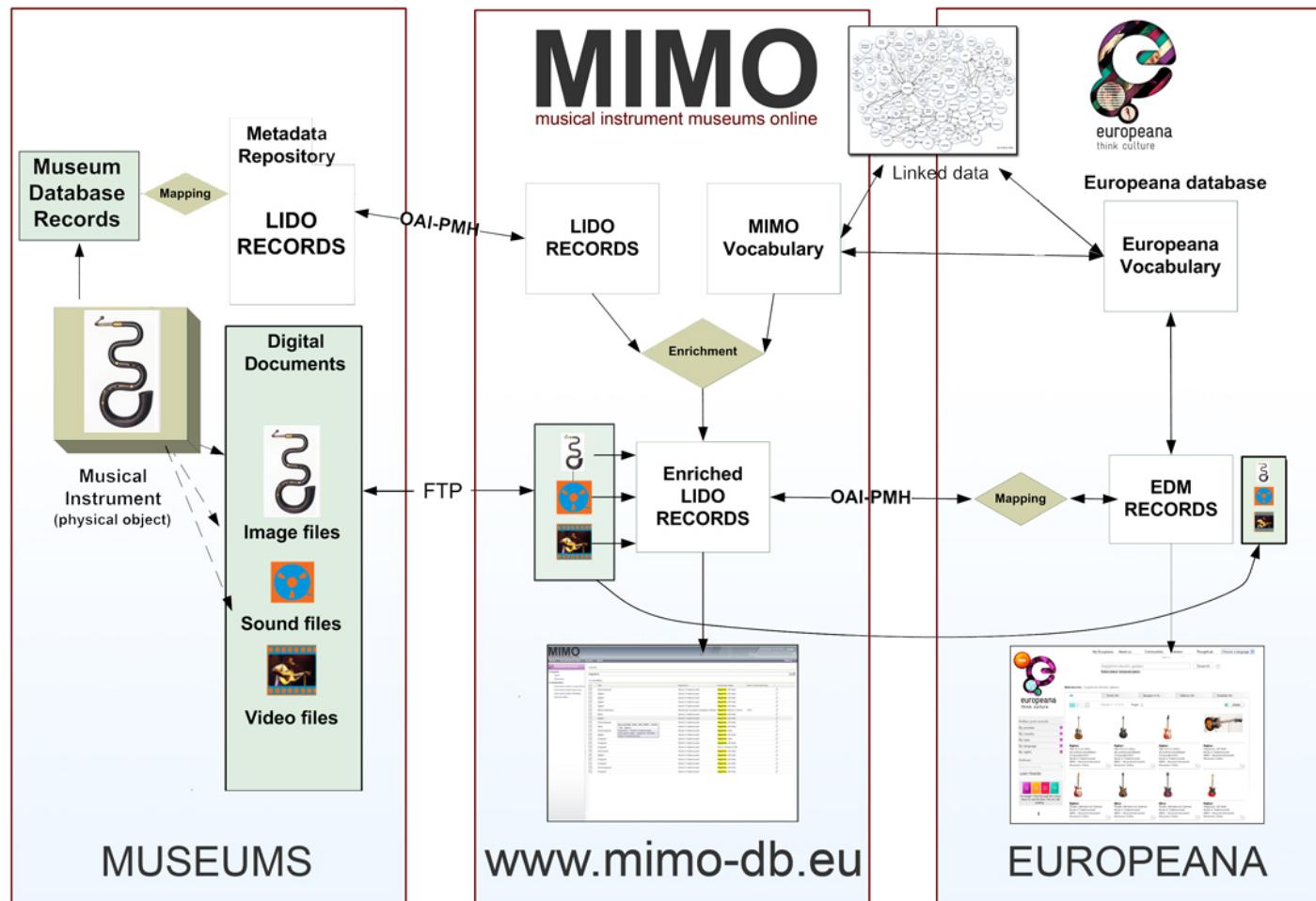
Translations

- | | |
|-----------------------|---------------|
| | Pivot |
| <input type="radio"/> | Alphorn |
| | English |
| <input type="radio"/> | Alphorn |
| | French |
| <input type="radio"/> | Cor des Alpes |
| | German |
| <input type="radio"/> | Alphorn |
| | Dutch |
| <input type="radio"/> | Alphoorn |
| | Swedish |
| <input type="radio"/> | Alphorn |

Solution

- 1/ Create a multilingual dictionary
- 2/ Add one of the dictionary term into each of the records
- 3/ Use the dictionary during the search request

Technical Infrastructure

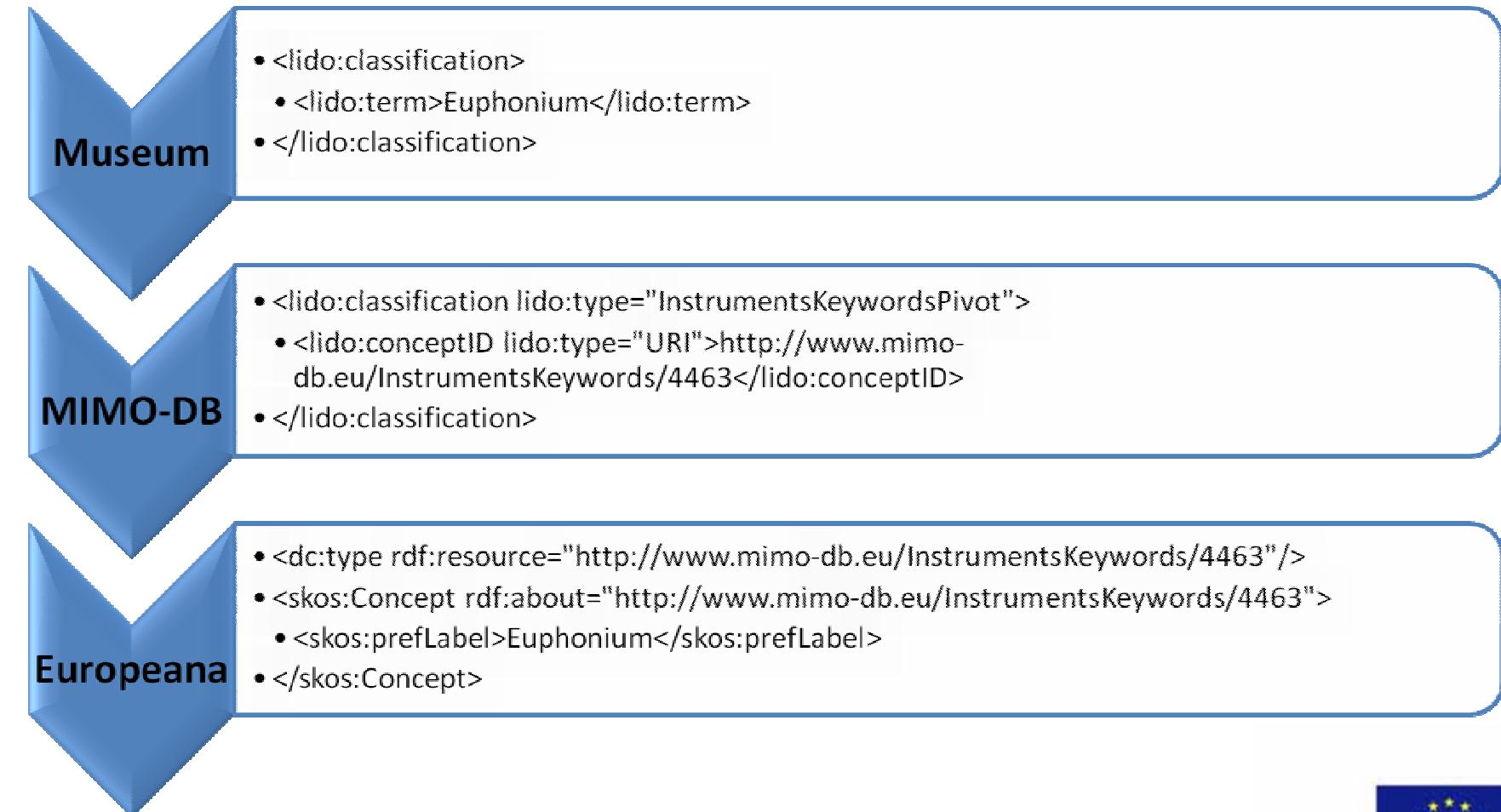


Add one of the dictionary term into each of the records

Entered by each museum into a specific LIDO field of the orginal record

link to the term into the thesaurus is programmatically added during metadata ingestion

Metadata enrichment

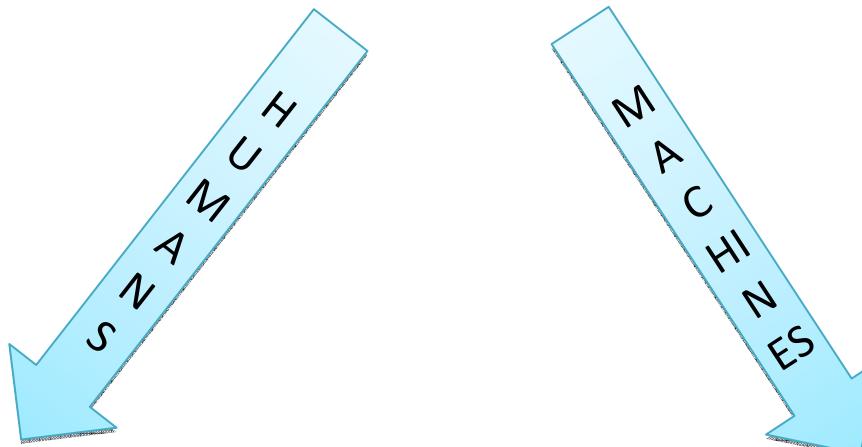


Work Package 2 – interability with Europeana

(LINKED) OPEN DATA EXPOSITION

URI for the instrument keyword « Octobass » :

<http://www.mimo-db.eu/InstrumentsKeywords/2232>



HTML

RDF
(SKOS)

Work Package 3 - Vocabulary



Use by MIMO-DB

MIMO
musical instrument museums online

Home > Documentary base > Search > Advanced

Documentary base

Search

Authorities

- Instrument makers (corporations)
- Instrument makers (persons)
- Instrument makers (families)
- Data providers

Instrument Identification

Data provider =

and Title =

and Keyword (tree structure) =

Keywords =

and музыкальные инструменты =

Instrument Classification

H-S Classification

and H-S Classification =

Instrument history

Early history =

and Late history =

and Early history =

Collection

Current owner or collection =

and Inventor =

and Former owner or collection =

Digital documents

Media =

Reset Search

Select a term

Tree Permutated display Alphabetical list Search

Selected terms : 1

O> Clavichords

Locations

Label	Clavichords
Id	LEXICON_00002231
Type of term	Terme Descripteur
Lexicon status	Standard
Creation date	15/11/2010 11:33:27
Term creator	Admin MIMO
Reference	New Grove Dictionary of Musical Instruments
Source	CM

OK Close

The screenshot illustrates the advanced search functionality of the MIMO-DB system. The main search interface includes fields for Data provider, Title, Keyword, and various classification and history filters. A prominent feature is the 'Select a term' dialog box, which provides a hierarchical navigation of instrument categories. The 'Clavichords' category is highlighted. The 'Locations' panel on the right provides a detailed view of the selected term, including its unique identifier (LEXICON_00002231), type (Terme Descripteur), standard status, creation date (15/11/2010 11:33:27), term creator (Admin MIMO), reference (New Grove Dictionary of Musical Instruments), and source (CM).

Use by Europeana

```
<edm:ProvidedCHO rdf:about="#ULEI:M0005329">
  <dc:coverage rdf:resource="http://sws.geonames.org/2851079"/>
  <dc:coverage>Radeberg/Sachsen/Deutschland/Europa</dc:coverage>
  <dc:creator rdf:resource="http://www.mimo-db.eu/InstrumentMaker/Person/293"
    <dc:creator>Schöne</dc:creator>
    <dc:date>um 1860</dc:date>
    <dc:description>Gesellenstück des Glasmachers Wilhelm Schöne. Glashütte i
      <dc:title>Grastrompete</dc:title>
      <dc:type rdf:resource="http://www.mimo-db.eu/InstrumentsKeywords/4419"/>
      <edm:type>IMAGE</edm:type>
    </dc:description>
  </dc:creator>
</edm:ProvidedCHO>
<edm:WebResource rdf:about="http://www.mimo-db.eu/media/ULEI/IMAGE/5486.
  <dc:rights>© Museum für Musikinstrumente der Universität Leipzig</dc:rights>
  <edm:rights rdf:resource="http://creativecommons.org/licenses/by-nc-sa/3.0/"/>
</edm:WebResource>
<edm:Agent rdf:about="http://www.mimo-db.eu/InstrumentMaker/Person/2935">
  <skos:prefLabel>Wilhelm Schöne</skos:prefLabel>
</edm:Agent>
<edm:Place rdf:about="http://sws.geonames.org/2851079"/>
  <skos:prefLabel xml:lang="de">Radeberg</skos:prefLabel>
  <skos:altLabel>Radeberg/Sachsen/Deutschland/Europa</skos:altLabel>
</edm:Place>
<skos:Concept rdf:about="http://www.mimo-db.eu/InstrumentsKeywords/4419">
  <skos:prefLabel>Natural trumpet</skos:prefLabel>
</skos:Concept>
<ore:Aggregation rdf:about="http://www.mimo-db.eu/IIIF/M0005329">
  <edm:aggregatedCHO rdf:resource="#ULEI:M0005329"/>
  <edm:hasView rdf:resource="http://www.mimo-db.eu/media/ULEI/IMAGE/5486.
  <edm:dataProvider>Museum für Musikinstrumente der Universität Leipzig</edm:dataProvider>
  <edm:provider>MIMO - Musical Instrument Museums Online</edm:provider>
  <edm:rights rdf:resource="http://creativecommons.org/licenses/by-nc-sa/3.0/"/>
  <edm:isShownBy rdf:resource="http://www.mimo-db.eu/media/ULEI/IMAGE/54
  <edm:isShownAt rdf:resource="http://www.mimo-db.eu/ULEI/M0005329"/>
  <edm:object rdf:resource="http://www.mimo-db.eu/media/ULEI/IMAGE/5486.jp
</ore:Aggregation>
```

Use by Europeana

Home

My Europeana

Choose a language ▾



Search ▾

gitaar

Search

Help

Matches for:

gitaar ✖

Refine your results:

- ▼ Add more keywords + Add
- ▼ By media type
 - IMAGE (771)
 - VIDEO (9)
 - SOUND (2)
 - TEXT (1)
- ▶ By language of description
- ▶ By year
- ▶ By providing country
- ▶ By copyright
- ▶ By provider
- Include content contributed by users

Share:

 Share

Results per page: 24 ▾

Results 1 - 24 of 783

1 of 33 > >>

 Anoniem, gitaar van José Quitin, s.d... 	 Midigitarr 	 Spaanse gitaar van Koos Speenhof... 	 Guitare 
 Guitare 	 Guitare 	 	 
 	 	 	 



Use by Europeana

Search ▾ Trombone à pistons 

Help

[Return to search results](#)

< Previous Next >


[View](#)

[View item at](#)
[Musik & Teatermuseet](#) 
[Share](#)
[Cite on Wikipedia](#)
[Translate details](#)
[Select language](#) 
Powered by Microsoft® Translator

Ventilbasun

Creator: <http://www.mimo-db.eu/InstrumentMaker/Person/2836>; Schediva

Coverage: <http://sws.geonames.org/698740/>

Type: <http://www.mimo-db.eu/InstrumentsKeywords/6337>; <http://www.mimo-db.eu/HornbostelAndSachs/2161>

Identifier: #SMS-MM:M793

Data provider: Musik & Teatermuseet

Provider: MIMO - Musical Instrument Museums Online

Providing country: MUL

Auto-generated tags ▾

What ▾

Concept Term: <http://www.mimo-db.eu/InstrumentsKeywords/6337>

Concept Label: [Ventilposaune] (de); [Trombone a macchina] (it); [Valve trombone] (def); [Trombone à pistons] (fr); [Ventilbasun] (sv); [Valve trombone] (en); [Ventiltrombone] (nl)

Concept Broader Label: <http://www.mimo-db.eu/InstrumentsKeywords/4360>

Concept Term: <http://www.mimo-db.eu/HornbostelAndSachs/2161>

Concept Label: [423.233.2 Valve trumpets with long air column (more than 2 m)] (def), [423.233.2 Valve trumpets with long air column (more than 2 m)] (en)

Concept Broader Label: <http://www.mimo-db.eu/HornbostelAndSachs/360>

Where ▾

Place Term: <http://sws.geonames.org/698740/>

Place Label: [Odessa] (def); [Odessa] (sv)

Geo Space: 46.47747; 30.73262

Who ▾

Agent Term: <http://www.mimo-db.eu/InstrumentMaker/Person/2836>

Search also for:

Title

Ventilbasun (20)

Who

Schediva (1)

Provider

Musik & Teatermuseet (4848)
MIMO - Musical Instrument Museums Online (36390)



Use by External projects

- education.citedelamusique.fr
- RILM (répertoire international de littérature musicale) ?
- Musiconis (ANR project on sound representations in the middle age) ?



education.citedelamusique.fr
version 1.3

Les ressources numériques de la Cité de la musique pour l'enseignement

[CONNEXION](#)

Retrouvez les photos, concerts, et autres documents liés à un instrument en cliquant sur les familles.

<div style="background-color: #ff6347; color: white; padding: 5px;">  CLAVIERS </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  CORDES </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  VENTS </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  PERCUSSIONS </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  INSTRUMENTS ÉLECTRONIQUES </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  INSTRUMENTS MÉCANIQUES </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  AUTRES INSTRUMENTS </div>	<div style="background-color: #ff6347; color: white; padding: 5px;">  ACCORDÉONS </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  BASSONS </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  BUGLES </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  CLAIRONS </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  CLARINETTES </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  CORNEMUSES </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  CORNETS À BOUQUIN </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  CORNETS À PISTONS </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  CORS </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  FLÛTES </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  HARMONICAS </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  HAUTBOIS </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  OPHICLÉIDES </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  ORGUES À BOUCHE </div> <div style="background-color: #ff6347; color: white; padding: 5px;">  RHOMBES </div>	<div style="background-color: #ff6347; color: white; padding: 5px;"> CHIBONI 1 </div> <div style="background-color: #ff6347; color: white; padding: 5px;"> CORNEMUSE 42 </div> <div style="background-color: #ff6347; color: white; padding: 5px;"> GAITA 3 </div> <div style="background-color: #ff6347; color: white; padding: 5px;"> GAJDE 7 </div> <div style="background-color: #ff6347; color: white; padding: 5px;"> MASAK 1 </div> <div style="background-color: #ff6347; color: white; padding: 5px;"> MUSSETTE 18 </div> <div style="background-color: #ff6347; color: white; padding: 5px;"> NEY-E ANBAN 5 </div> <div style="background-color: #ff6347; color: white; padding: 5px;"> ZAMPOGNA 4 </div> <div style="background-color: #ff6347; color: white; padding: 5px;"> ZUKRA 2 </div>
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