

DO
RE
MUS

Doing
REusable
MUSical data



DO
RE
MUS

Doing
REusable
MUSical data

Learning material : data model

<http://www.doremus.org>

Editor: Jean Delahousse (delahousse.jean@gmail.com) / Niels Nicolas (niels.nicolas@ourouk.com)
Ourouk

Summary

- Introduction
- Data access
- Data model overview
- Controlled vocabularies for DOREMUS

Introduction

Introduction

Target audience

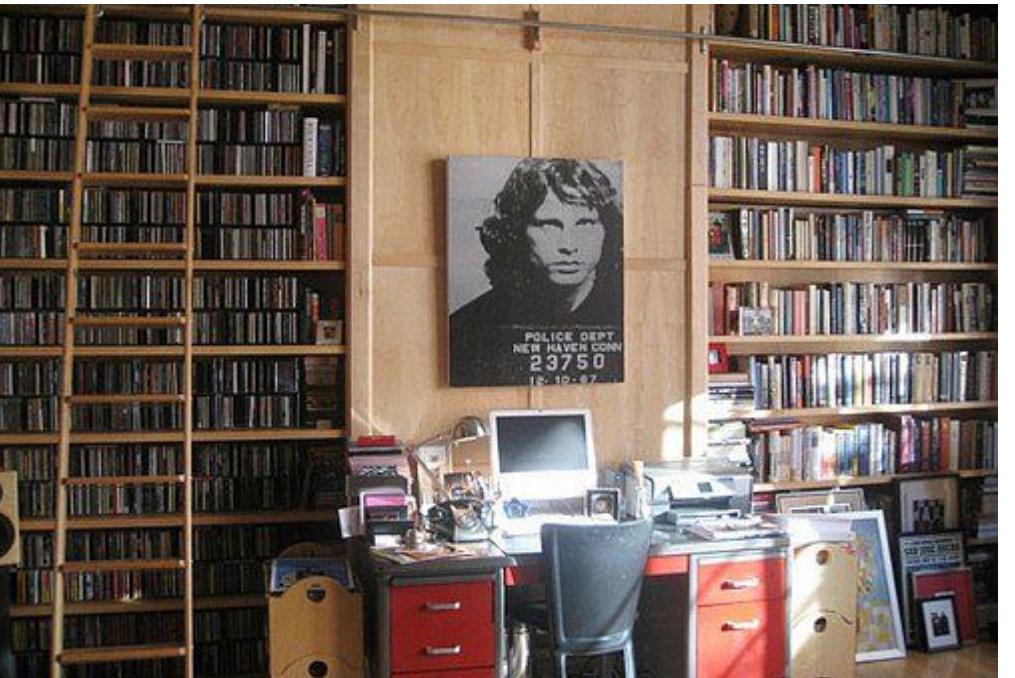
This presentation of the DOREMUS model is intended for anyone who:

- Describe musical resources according to the DOREMUS model
- Publish musical data according to the DOREMUS model
- Explore a RDF DOREMUS graph
- Integrate musical data conforming DOREMUS model into applications or knowledge graphs

This presentation is intended for documentalists as for computer scientists. The two visions are presented. The collection of slides can be adapted according to the public.

Introduction

There are multiple points of view on a same domain



« People » view

Love stories, Gossips, News

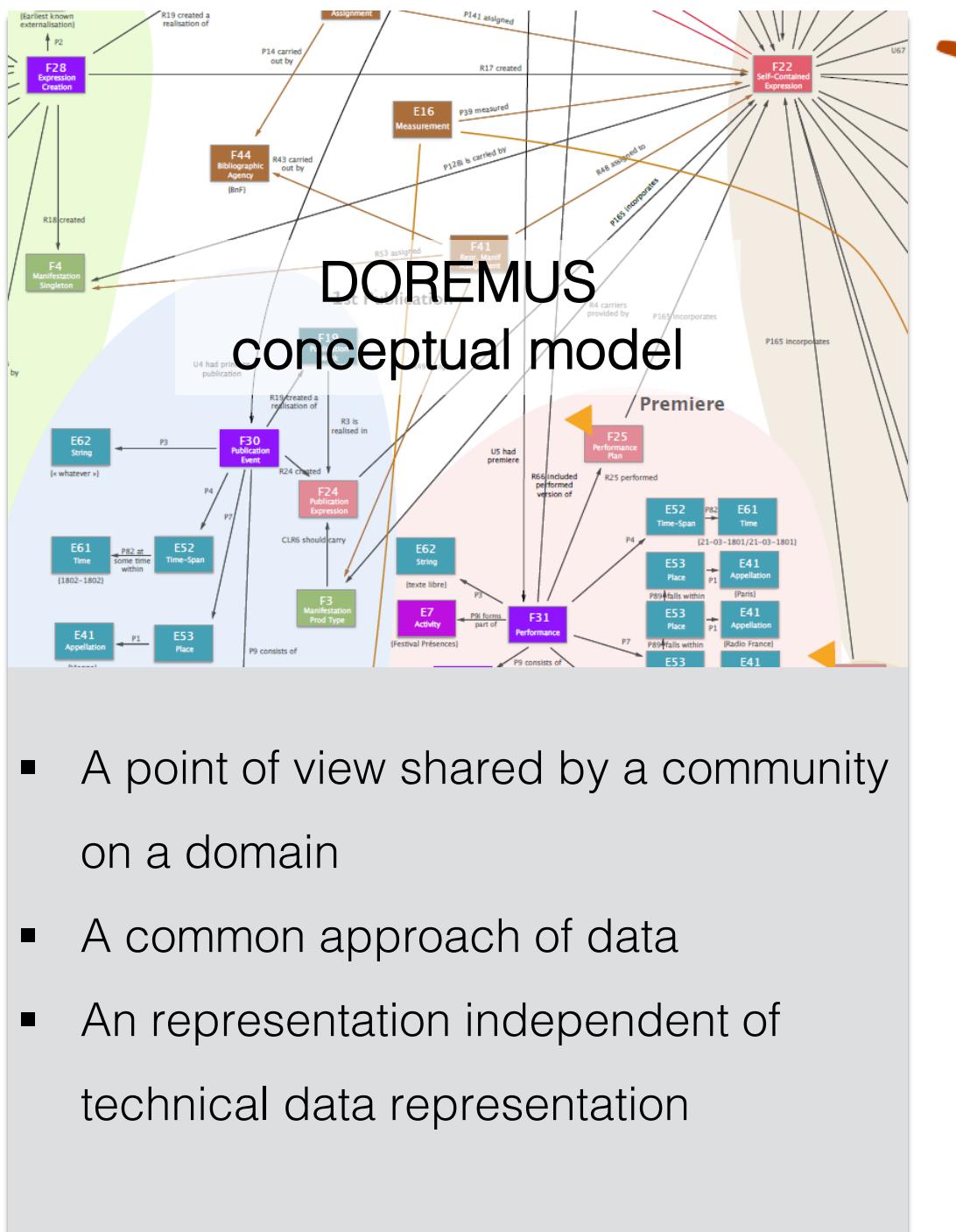
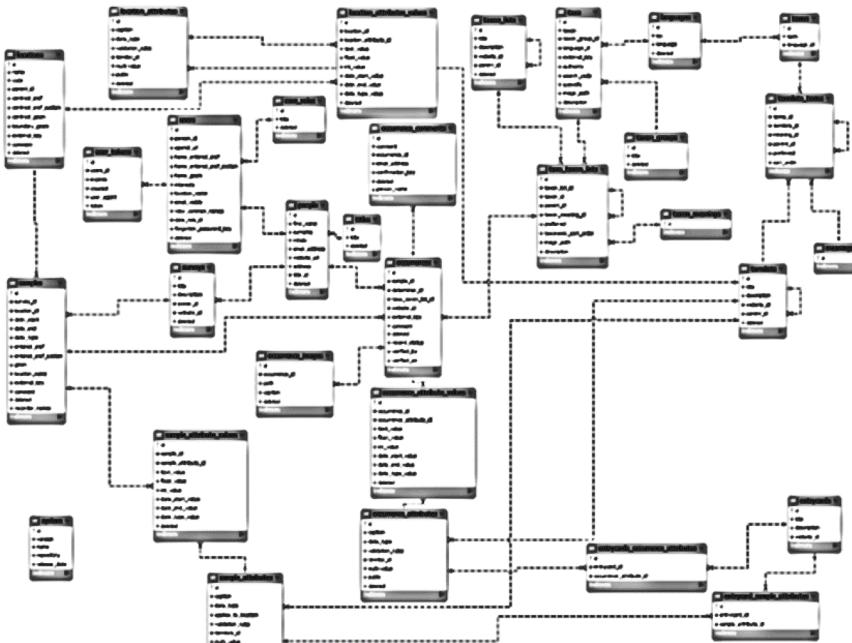
« Music librarian » view

Concerts, Albums, Works

Introduction

From conceptual to data model

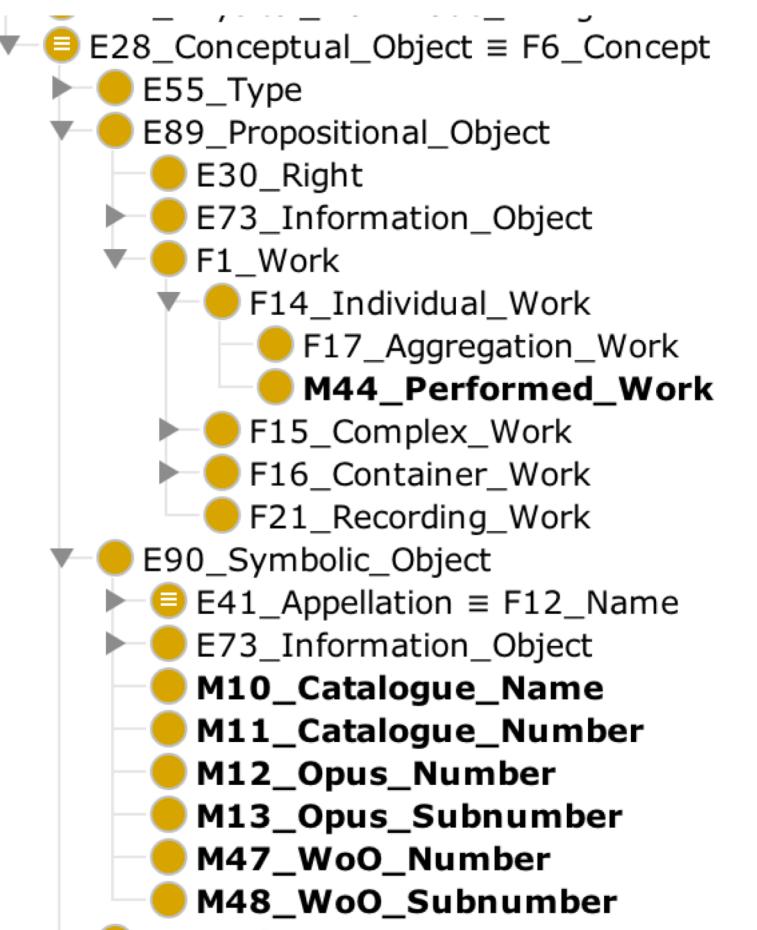
Entity Relation data model



DOREMUS
conceptual model

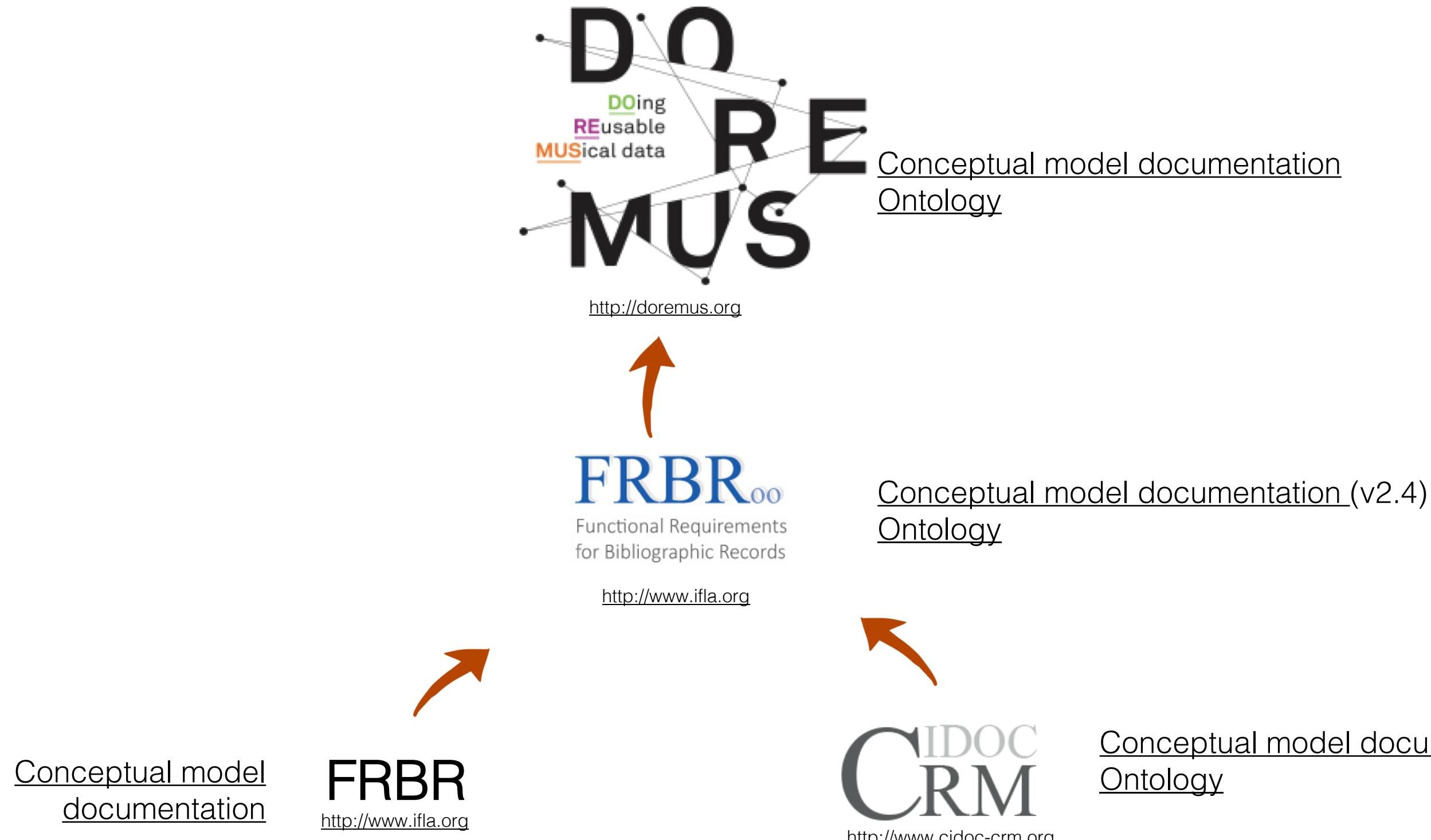
- A point of view shared by a community on a domain
- A common approach of data
- An representation independent of technical data representation

Ontology OWL for
RDF data representation



Introduction

DOREMUS bases



Data access

Data access

Access for humans & machines

<http://overture.doremus.org/>

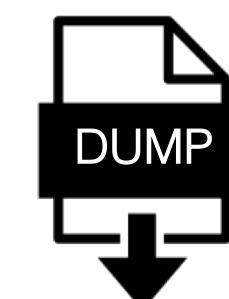
<http://data.doremus.org/sparql>



<http://data.doremus.org/sparql>



<http://data.doremus.org/api>



<https://github.com/DOREMUS-ANR/knowledge-base/tree/master/data>

<http://data.doremus.org/>

Data model overview

Data model overview

Naming conventions

Classes

M = Classes Doremus

E = Classes CIDOC-CRM

F = Classes FRBRoo

Properties

U, CLU = Propriétés Doremus

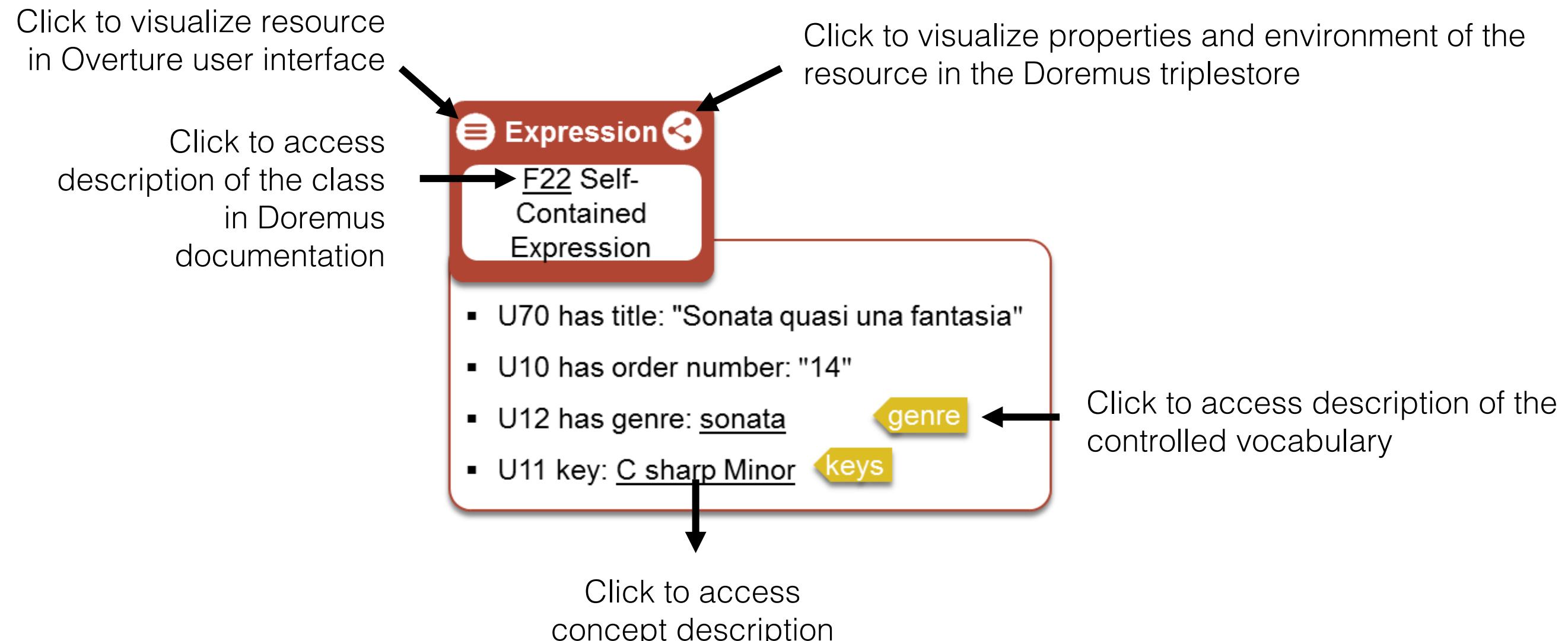
P = Propriétés CIDOC-CRM

R = Propriétés FRBRoo

CLP, CLR = peuvent être des propriétés FRBRoo ou Doremus

Data model overview

How to use the next slides ?



Data model overview

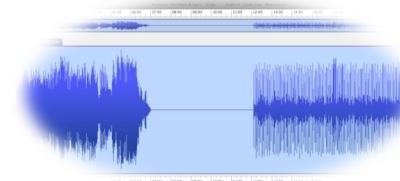
Timeline



1801
Composition of
*Sonata quasi una
fantasia* by
Beethoven



2014
Studio Performance

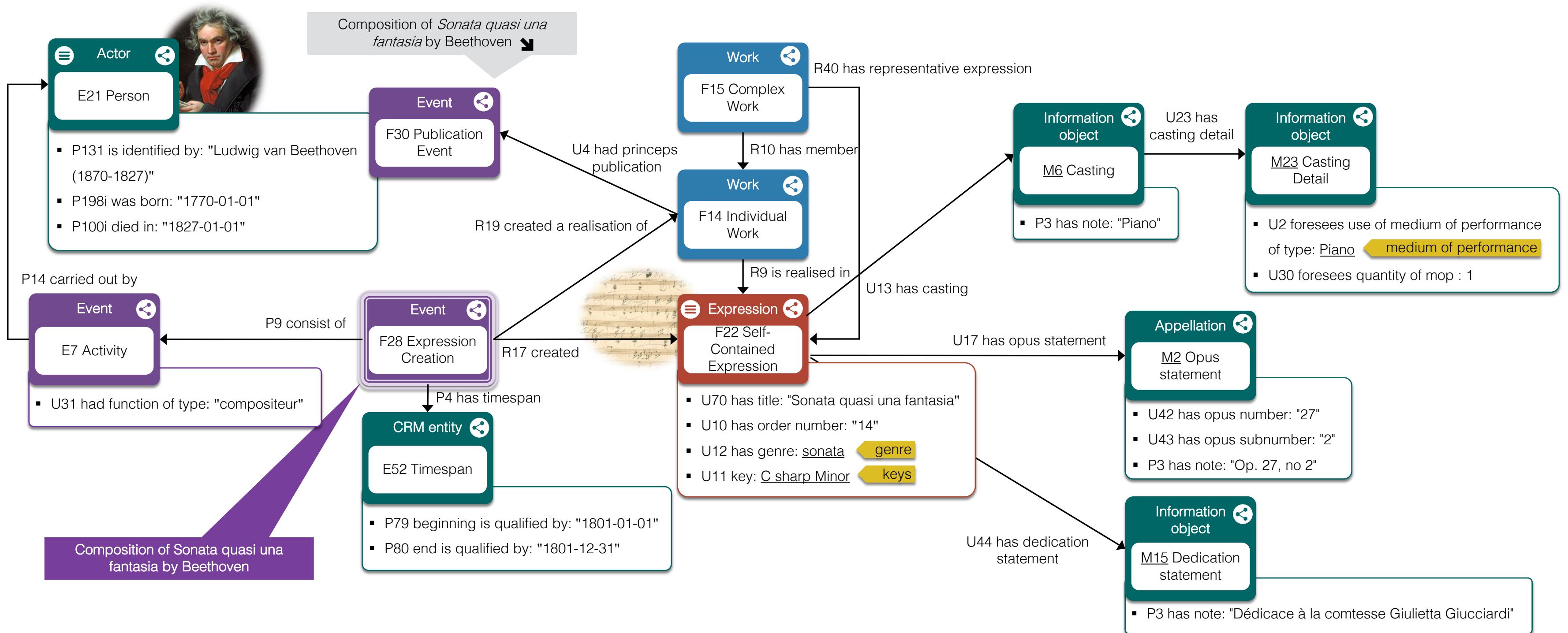


2014
Editing tracks of Recording



Data model overview

Musical composition



Original notice in BNF catalog

Musical composition

{BnF Catalogue général}

Tout Recherche avancée AUTEURS A-Z SUJETS A-Z PÉRIODIQUES CO

Accueil > Titre uniforme musical

Notice de titre musical

Notice Au format public

Beethoven, Ludwig van (1770-1827) forme internationale
[Sonates. Piano. Op. 27, no 2. Do dièse mineur] français

Genre musical : sonate

Date de l'oeuvre : 1801

Dédicace à la comtesse Giulietta Giucciardi. - Date de composition : 1801. - 1re éd. : Vienne : Cappi, 1802

Distribution musicale : clavier - piano (1)

Forme(s) rejetée(s) :

- < [Sonates. Piano. No 14. Do dièse mineur] français
- < [Quasi una fantasia. Op. 27, no 2 (Sonate)] italien
- < [Sonata quasi una fantasia. Op. 27, no 2] italien
- < [Moonlight sonata] anglais
- < [Clair de lune (Sonate)] français
- < [Mondschein-Sonate] allemand
- < [Sonate au clair de lune] français
- < [Sonate Clair de lune] français

Forme(s) associée(s) :

- << Fait partie de : Beethoven, Ludwig van (1770-1827). [Sonates (2). Op. 27]
- >> << A pour adaptation : Huguenin, Charles (1870-1939). [Prière de l'âme affligée]
- >> << A inspiré : Garde, Bernard (1953-....). [Nuit Sélène]
- >> << Postérieurement, voir : Garde, Bernard (1953-....). [Cantate au clair de lune]

Source(s) :

- Kinsky
- Grove 7

Notice n° : FRBNF13908188

Création : 89/08/21 Mise à jour : 13/02/11

Notice Au format Unimarc

000 cx h22 45
 001 FRBNF139081882
 005 20130211
 009 <http://catalogue.bnf.fr/ark:/12148/cb13908188k>
 039 .. \$o OPP \$a 14786691 \$d 20060411
 039 .. \$o OPP \$a 16305693 \$d 20130211
 100 .. \$a 19890821afrey50 ba0
 102 .. \$a XX
 103 .. \$a 1801
 106 .. \$a 010
 128 .. \$a n \$b ka01
 152 .. \$a AFNOR Z 44-079 Sc 2
 240 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 frefre \$t Sonates \$r Piano \$s Op. 27, no 2 \$u Do dièse mineur
 300 |. \$a Dédicace à la comtesse Giulietta Giucciardi. - Date de composition : 1801. - 1re éd. : Vienne : Cappi, 1802
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 frefre \$t Sonates \$r Piano \$s No 14 \$u Do dièse mineur
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 freita \$t Quasi una fantasia \$s Op. 27, no 2 \$l Sonate
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 freita \$t Sonata quasi una fantasia \$s Op. 27, no 2
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 freeng \$t Moonlight sonata
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 frefre \$t Clair de lune \$l Sonate
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 freger \$t Mondschein-Sonate
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 frefre \$t Sonate au clair de lune
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 frefre \$t Sonate Clair de lune
 540 .. \$5 xxc \$0 A pour adaptation : \$3 [17075835](#) \$a Huguenin \$b Charles \$f 1870-1939 \$t [Prière de l'âme affligée]
 540 .. \$5 xxz \$0 A inspiré : \$3 [17067436](#) \$a Garde \$b Bernard \$f 1953-.... \$t [Nuit Sélène]
 540 .. \$5 xxh \$0 Postérieurement, voir \$3 [17067430](#) \$a Garde \$b Bernard \$f 1953-.... \$t [Cantate au clair de lune]
 540 .. \$5 g \$3 [14017453](#) \$a Beethoven \$b Ludwig van \$f 1770-1827 \$t [Sonates (2). Op. 27]
 801 .. \$a FR \$b FR-751131015 \$c 20130211
 810 .. \$a Kinsky
 810 .. \$a Grove 7

Access original notice in BNF catalog :
<http://catalogue.bnf.fr/ark:/12148/cb13908188k.public>

RDF graph

Musical composition 1/2

```

1 @prefix mus: <http://data.doremus.org/ontology#> .
2 @prefix efrbroo: <http://erlangen-crm.org/efrbroo/> .
3 @prefix skos: <http://www.w3.org/2004/02/skos/core#> .
4 @prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
5 @prefix ecrm: <http://erlangen-crm.org/current/> .
6 @prefix owl: <http://www.w3.org/2002/07/owl#> .
7 @prefix dct: <http://purl.org/dc/terms/> .
8
9 <http://data.doremus.org/work/bde624b9-ae05-3ce5-b8db-67f6fa133d85>
10    rdf:type efrbroo:F15_Complex_Work ;
11    efrbroo:R40_has_representative_expression <http://data.doremus.org/expression/d72301f0-0aba-3ba6-93e5-c4efbee9c6ea> ;
12    efrbroo:R10_has_member <http://data.doremus.org/work/30256b51-d277-3688-ad62-560ae982ff2f> .
13
14 <http://data.doremus.org/work/30256b51-d277-3688-ad62-560ae982ff2f>
15    rdf:type efrbroo:F14_Individual_Work ;
16    mus:U4_had_princeps_publication <http://data.doremus.org/event/9f25e0d8-2abb-3034-a902-c8b469091556> ;
17    efrbroo:R9_is_realised_in <http://data.doremus.org/expression/d72301f0-0aba-3ba6-93e5-c4efbee9c6ea> .
18
19 <http://data.doremus.org/expression/d72301f0-0aba-3ba6-93e5-c4efbee9c6ea>
20    rdf:type efrbroo:F22_Self-Contained_Expression ;
21    mus:U10_has_order_number "14" ;
22    ecrm:P102_has_title "Quasi una fantasia" , "Sonate Clair de lune" , "Mondschein-Sonate" , "Sonata quasi una fantasia" , "Sonate au clair de lune" , "Moonlight sonata" , "Clair de lune"
23    ecrm:P67_refers_to <http://data.doremus.org/expression/d72301f0-0aba-3ba6-93e5-c4efbee9c6ea/dedication> .
24    mus:U17_has_opus_statement
25      [ rdf:type mus:M2_Opus_Statement ;
26        ecrm:P3_has_note "Op. 27, no 2" ;
27        mus:U43_has_opus_subnumber "2" ;
28        mus:U42_has_opus_number "27" ] ;
29    mus:U12_has_genre <http://data.doremus.org/vocabulary/iaml/genre/sn> ;
30    mus:U13_has_casting <http://data.doremus.org/expression/d72301f0-0aba-3ba6-93e5-c4efbee9c6ea/casting/1> ;
31    mus:U11_has_key <http://data.doremus.org/vocabulary/key/cxm> .
32
33 <http://data.doremus.org/vocabulary/iaml/genre/sn>
34    rdf:type skos:Concept ;
35    skos:prefLabel "Sonate"@de , "sonate"@fr , "sonata"@es , "sonata"@en , "sonata"@it .
36
37 <http://data.doremus.org/vocabulary/key/cxm>
38    rdf:type skos:Concept ;
39    skos:prefLabel "Do diesis minore"@it , "Cis Moll"@de , "Do sostenido menor"@es , "Do dièse mineur"@fr , "C sharp Minor"@en .
40

```

RDF graph

Musical composition 2/2

```

41 <http://data.doremus.org/event/3f9d2fae-da75-3c66-902d-fa3a0755d892>
42   rdf:type efrbroo:F28_Expression_Creation ;
43   efrbroo:R17_created <http://data.doremus.org/expression/d72301f0-0aba-3ba6-93e5-c4efbee9c6ea> ;
44   efrbroo:R19_created_a_realisation_of <http://data.doremus.org/work/30256b51-d277-3688-ad62-560ae982ff2f> .
45   ecrm:P9_consists_of
46     [ mus:U31_had_function_of_type "compositeur"@fr ;
47       ecrm:P14_carried_out_by <http://data.doremus.org/artist/6963af5e-b126-3d40-a84b-97e0b78f5452> ] ;
48   ecrm:P4_has_time-span [ecrm:P82_at_some_time_within "18010101/18011231"^^dct:W3CDTF] .
49
50 <http://data.doremus.org/artist/6963af5e-b126-3d40-a84b-97e0b78f5452>
51   rdf:type ecrm:E21_Person ;
52   owl:sameAs <http://isni.org/isni/0000000121268987> , <http://catalogue.bnf.fr/ark:/12148/cb138912954> ;
53   ecrm:P131_is_identified_by "Ludwig van Beethoven" ;
54   ecrm:P98i_was_born "1770" .
55
56 <http://data.doremus.org/expression/d72301f0-0aba-3ba6-93e5-c4efbee9c6ea/casting/1>
57   rdf:type mus:M6_Casting ;
58   ecrm:P3_has_note "Piano" ;
59   mus:U23_has_casting_detail
60     [ rdf:type mus:M23_Casting_Detail ;
61       mus:U2_foresees_use_of_medium_of_performance_of_type <http://data.doremus.org/vocabulary/iaml/mop/kpf> ] .
62 <http://data.doremus.org/vocabulary/iaml/mop/kpf>
63   rdf:type skos:Concept ;
64   skos:prefLabel "Klavier"@de , "piano"@pt , "piano"@fr , "piano"@es , "piano"@en , "pianoforte"@it .
65
66 <http://data.doremus.org/expression/d72301f0-0aba-3ba6-93e5-c4efbee9c6ea/dedication>
67   rdf:type mus:M15_Dedication ;
68   mus:U44_has_dedication_statement "Dédicace à la comtesse Giulietta Giucciardi"@fr .

```

Sparql query

Musical composition

QUERY : Find all musical works of genre « sonata » composed for « piano »

```

1  SELECT DISTINCT ?F22_Self_Contained_Expression (SAMPLE(?title) AS ?title) ?composerName
2
3  WHERE {
4    ?F22_Self_Contained_Expression mus:U12_has_genre <http://data.doremus.org/vocabulary/iaml/genre/sn>;
5                                mus:U13_has_casting/mus:U23_has_casting_detail/mus:U2_foresees_use_of_medium_of_performance_of_type
6                                <http://data.doremus.org/vocabulary/iaml/mop/kpf>;
7                                ecrm:P102_has_title ?title.
8
9    OPTIONAL {
10      ?F28_Expression_Creation efrbroo:R17_created ?F22_Self_Contained_Expression;
11      ecrm:P9_consists_of/ecrm:P14_carried_out_by/ecrm:P131_is_identified_by ?composerName.
12    }

```

Access original file : https://drive.google.com/open?id=0BwopBdic2_jUSGVPT2hrT3pLZjg

Extract of results

F22_Self_Contained_Expression	title	composerName
http://data.doremus.org/expression/23e6481c-84f9-3b71-951a-b2e9cfa95564	"Sonata in a minor"	"Franz Schubert"
http://data.doremus.org/expression/0498b432-8d78-3163-8c2d-ac9feef98310	"Messe blanche"	"Aleksandr Nikolaevič Skrâbin"@rus
http://data.doremus.org/expression/f43ee594-4bc8-382f-8a69-1d0ea18f5be5	"Sonate brève"	"Alexandre Gasparov"
http://data.doremus.org/expression/1446e248-08ce-3839-9424-30950b48d91e	"Sonatinas"	"Stany David Lasry"
http://data.doremus.org/expression/a18c404c-54f4-38bd-b3d6-eb7d74e2525b	"Sonate"	"Cécile Chaminade"
	"Sonatinas"	"Stany David Lasry"

Sarql query

Musical composition

QUERY : How many musical works by genre

```

1 SELECT ?genre (SAMPLE(?genreLabel) AS ?genreLabel) (COUNT(?F22_Self_Contained_Expression) AS ?F22_Self_Contained_Expression_COUNT)
2
3 WHERE {
4 ?F22_Self_Contained_Expression mus:U12_has_genre ?genre.
5 ?genre skos:prefLabel ?genreLabel.
6 | FILTER regex(lang(?genreLabel), "en")
7 }
8 GROUP BY ?genre
9 ORDER BY DESC(?F22_Self_Contained_Expression_COUNT)

```

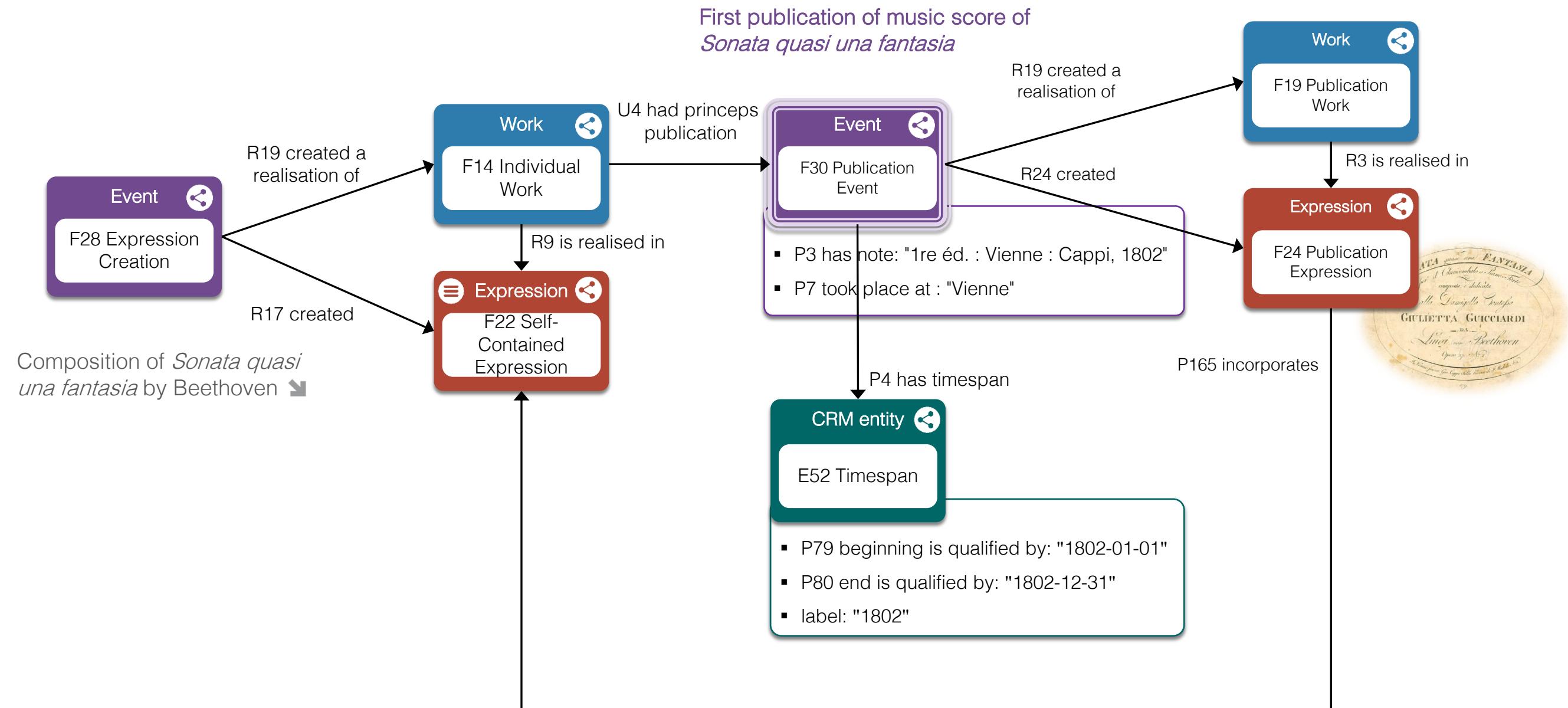
Access original file : https://drive.google.com/open?id=0BwopBdic2_jUczkwYTV4N2M1SjQ

Extract of results

genre	genreLabel	F22_Self_Contained_Expression_COUNT
http://data.doremus.org/vocabulary/iaml/genre/zz	"other form"@en	12075
http://data.doremus.org/vocabulary/iaml/genre/mo	"motet"@en	6333
http://data.doremus.org/vocabulary/iaml/genre/sn	"sonata"@en	6002
http://data.doremus.org/vocabulary/iaml/genre/uuu	"unknown form"@en	5286
http://data.doremus.org/vocabulary/iaml/genre/co	"concerto"@en	4638
http://data.doremus.org/vocabulary/iaml/genre/sg	"song"@en	4529
http://data.doremus.org/vocabulary/iaml/genre/df	"dance form"@en	4350
http://data.doremus.org/vocabulary/iaml/genre/wz	"waltz"@en	3617
http://data.doremus.org/vocabulary/iaml/genre/dui	"duo"@en	3543
http://data.doremus.org/vocabulary/iaml/genre/op	"opera"@en	3024
http://data.doremus.org/vocabulary/iaml/genre/ct	"cantata"@en	3014
	"quartet"@en	2828

Data model overview

Music score publication



Original notice in BNF catalog

Music score publication

{BnF Catalogue général}

Tout Recherche avancée AUTEURS A-Z SUJETS A-Z PÉRIODIQUES CO

Accueil > Titre uniforme musical

Notice de titre musical

Notice Au format public

Beethoven, Ludwig van (1770-1827) forme internationale
[Sonates. Piano. Op. 27, no 2. Do dièse mineur] français

Genre musical : sonate

Date de l'oeuvre : 1801

Dédicace à la comtesse Giulietta Giucciardi. - Date de composition : 1801. - 1re éd. : Vienne : Cappi, 1802

Distribution musicale : clavier - piano (1)

Forme(s) rejetée(s) :

- < [Sonates. Piano. No 14. Do dièse mineur] français
- < [Quasi una fantasia. Op. 27, no 2 (Sonate)] italien
- < [Sonata quasi una fantasia. Op. 27, no 2] italien
- < [Moonlight sonata] anglais
- < [Clair de lune (Sonate)] français
- < [Mondschein-Sonate] allemand
- < [Sonate au clair de lune] français
- < [Sonate Clair de lune] français

Forme(s) associée(s) :

- << Fait partie de : Beethoven, Ludwig van (1770-1827). [Sonates (2). Op. 27]
- >> << A pour adaptation : Huguenin, Charles (1870-1939). [Prière de l'âme affligée]
- >> << A inspiré : Garde, Bernard (1953-....). [Nuit Sélène]
- >> << Postérieurement, voir : Garde, Bernard (1953-....). [Cantate au clair de lune]

Source(s) :

- Kinsky
- Grove 7

Notice n° : FRBNF13908188

Création : 89/08/21 Mise à jour : 13/02/11

Notice Au format Unimarc

000 cx h22 45
 001 FRBNF139081882
 005 20130211
 009 <http://catalogue.bnf.fr/ark:/12148/cb13908188k>
 039 .. \$o OPP \$a 14786691 \$d 20060411
 039 .. \$o OPP \$a 16305693 \$d 20130211
 100 .. \$a 19890821afrey50 ba0
 102 .. \$a XX
 103 .. \$a 1801
 106 .. \$a 010
 128 .. \$a n \$b ka01
 152 .. \$a AFNOR Z 44-079 Sc 2

300 |. \$a Dédicace à la comtesse Giulietta Giucciardi. - Date de composition : 1801. - 1re éd. : Vienne : Cappi, 1802

440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 frefre \$t Sonates \$r Piano \$s No 14 \$u Do dièse mineur
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 freita \$t Quasi una fantasia \$s Op. 27, no 2 \$l Sonate
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 freita \$t Sonata quasi una fantasia \$s Op. 27, no 2
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 freeng \$t Moonlight sonata
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 frefre \$t Clair de lune \$l Sonate
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 freger \$t Mondschein-Sonate
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 frefre \$t Sonate au clair de lune
 440 .. \$a Beethoven \$b Ludwig van \$f 1770-1827 \$7 ba0yba0y \$8 frefre \$t Sonate Clair de lune
 540 .. \$5 xx0 \$0 A pour adaptation : \$3 [17075835](#) \$a Huguenin \$b Charles \$f 1870-1939 \$t [Prière de l'âme affligée]
 540 .. \$5 xxz \$0 A inspiré : \$3 [17067436](#) \$a Garde \$b Bernard \$f 1953-.... \$t [Nuit Sélène]
 540 .. \$5 xxh \$0 Postérieurement, voir \$3 [17067430](#) \$a Garde \$b Bernard \$f 1953-.... \$t [Cantate au clair de lune]
 540 .. \$5 g \$3 [14017453](#) \$a Beethoven \$b Ludwig van \$f 1770-1827 \$t [Sonates (2). Op. 27]
 801 .. \$a FR \$b FR-751131015 \$c 20130211
 810 .. \$a Kinsky
 810 .. \$a Grove 7

Access original notice in BNF catalog :
<http://catalogue.bnf.fr/ark:/12148/cb13908188k.public>

Sparql query

Music score publication

QUERY : Find all scores first published in Vienna during 19th century

```

1  SELECT ?F30_Publication_Event ?F22_Self_Contained_Expression_TITLE ?F22_Self_Contained_Expression_COMPOSER_NAME ?P79_beginning_isQualified_by ?P80_end_isQualified_by "Vienne"
2
3
4 WHERE {
5   ?F30_Publication_Event a efrbroo:F30_Publication_Event;
6           ecrm:P7_took_place_at "Vienne";
7           ecrm:P4_has_time-span ?P4_has_time_span.
8
9   ?P4_has_time_span ecrm:P80_end_isQualified_by ?P80_end_isQualified_by;
10          ecrm:P79_beginning_isQualified_by ?P79_beginning_isQualified_by.
11          FILTER (?P80_end_isQualified_by < "1899-12-31"^^xsd:dateTime)
12          FILTER (?P79_beginning_isQualified_by > "1800-01-01"^^xsd:dateTime)
13
14 ?F30_Publication_Event ^mus:U4_had_princeps_publication ?F14_Individual_Work.
15   ?F14_Individual_Work efrbroo:R9_is_realised_in ?F22_Self_Contained_Expression.
16
17   ?F22_Self_Contained_Expression mus:U70_has_title ?F22_Self_Contained_Expression_TITLE;
18           ^efrbroo:R17_created ?F28_Expression_Creation.
19           FILTER regex(lang(?F22_Self_Contained_Expression_TITLE), "fr")
20
21   ?F28_Expression_Creation ecrm:P9_consists_of/ecrm:P14_carried_out_by/ecrm:P131_isIdentifiedBy ?F22_Self_Contained_Expression_COMPOSER_NAME.
22
23 }
24 ORDER BY (?P79_beginning_isQualified_by)
```

Access original file : https://drive.google.com/open?id=0BwopBdic2_jUN2k4SDNSU2hWWmM

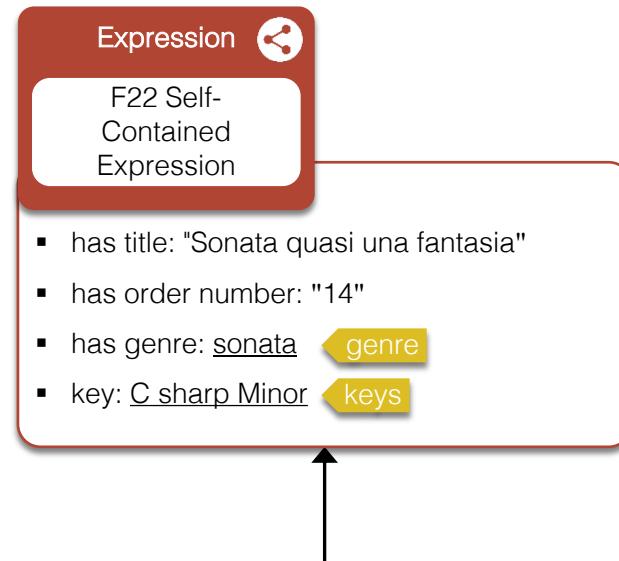
Extract of results

F30_Publication_Event	F22_Self_Contained_Expression_TITLE	F22_Self_Contained_Expression_COMPOSER_NAME	P79_beginning_isQualified_by	P80_end_isQualified_by	callret-5
http://data.doremus.org/event/9068b290-e5e5-36ca-a356-357a5c8ebda3	"Quatuors"@fr	"Beethoven, Ludwig van (1770-1827)"	1801-01-01	1801-12-31	Vienne
http://data.doremus.org/event/b97aded1-ca6f-3f46-a0ee-825a8b76e767	"Sonates"@fr	"Beethoven, Ludwig van (1770-1827)"	1801-01-01	1801-12-31	Vienne
http://data.doremus.org/event/501405d5-1162-334e-9851-c2f053eac8b2	"L'amant malheureux et constant"@fr	"Ferrari, Giacomo Gotifredo (1763-1842)"	1802-01-01	1802-12-31	Vienne
http://data.doremus.org/event/710622e8-43ba-37a8-8420-ed91e246924a	"Variations"@fr	"Gelinek, Josef (1758-1825)"	1802-01-01	1802-12-31	Vienne
http://data.doremus.org/event/e874fd6e-ad7c-3052-9305-938805c14d9d	"Fantaisies"@fr	"Mozart, Wolfgang Amadeus (1756-1791)"	1802-01-01	1802-12-31	Vienne

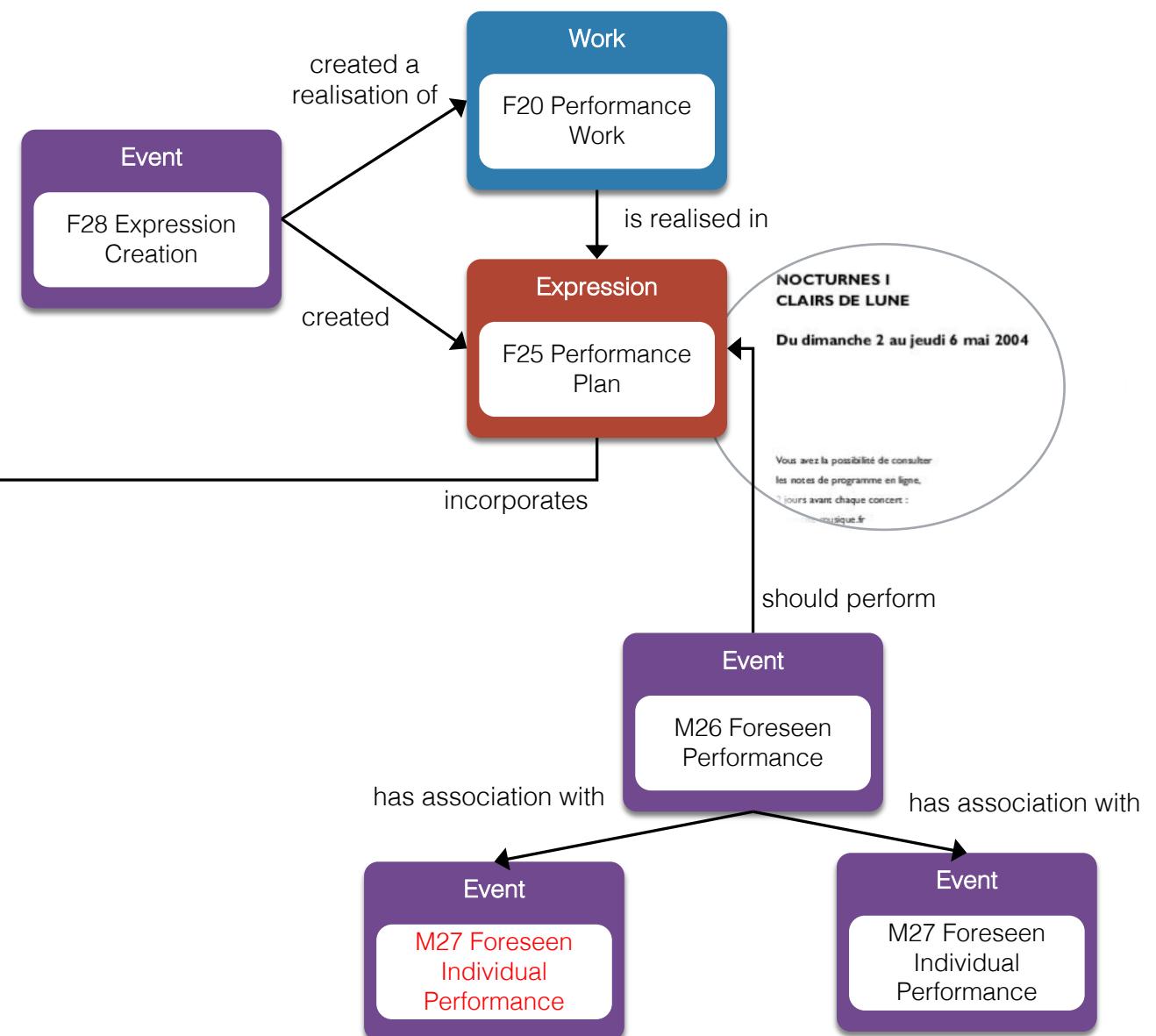
Data model overview

Concert programming

Composition of *Sonata quasi una fantasia* by Beethoven



Publication of concert program :
2nd to 6th May 2004
Concert Nocturne 1 Clairs de lune at Philharmonie of Paris



DRAFT

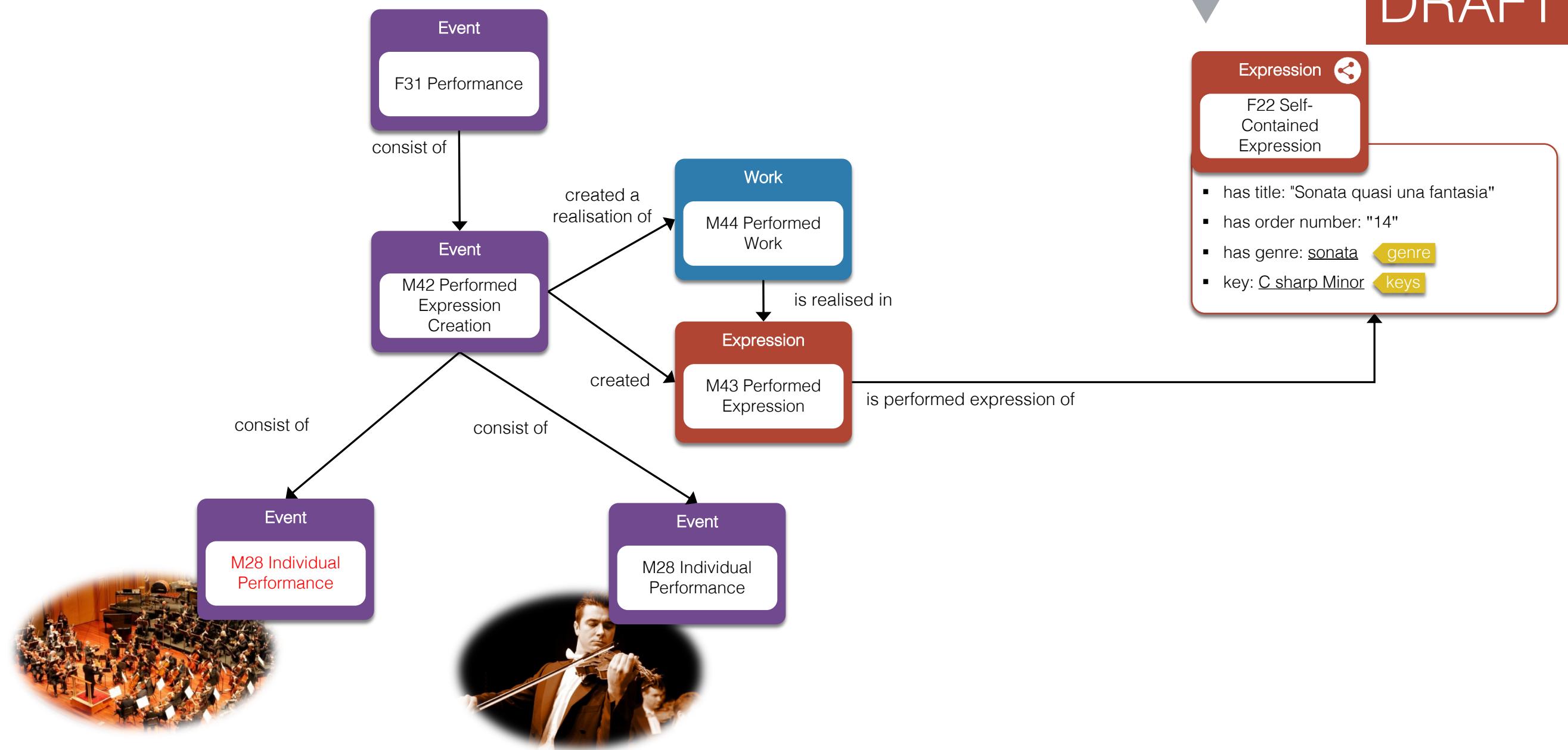
Data model overview

Musical performance

2nd May 2004

Concert Nocturne 1 Clairs de lune

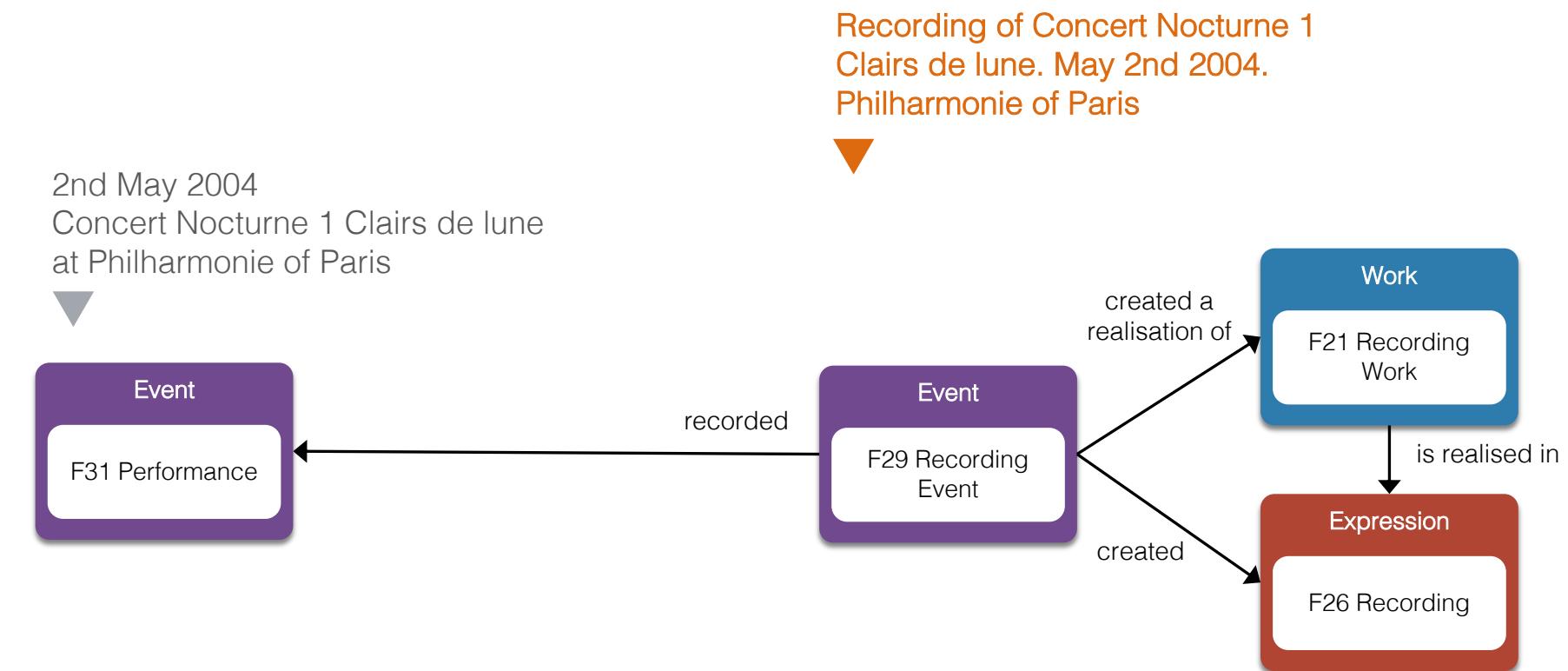
at Philharmonie of Paris



Data model overview

Performance recording

DRAFT



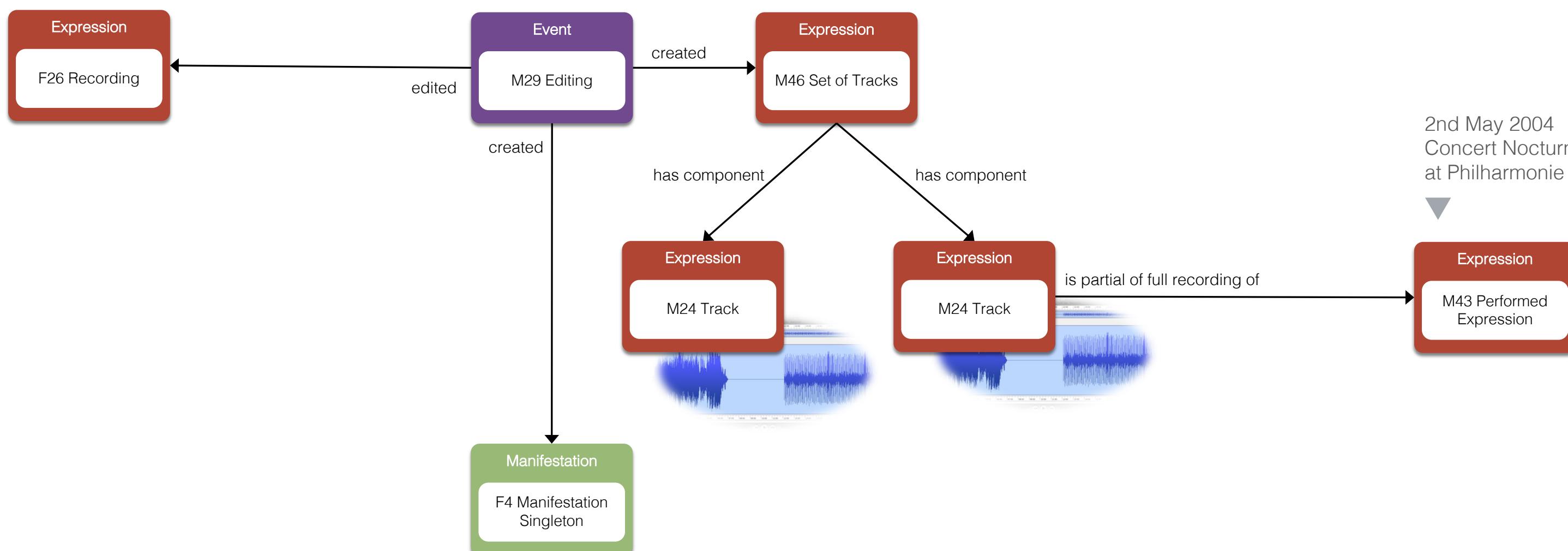
Data model overview

Editing tracks

DRAFT

Recording of Concert Nocturne 1
 Clairs de lune. May 2nd 2004.
 Philharmonie of Paris

**Editing tracks of Recording of Concert
 Nocturne 1 Clairs de lune. May 2nd
 2004. Philharmonie of Paris**

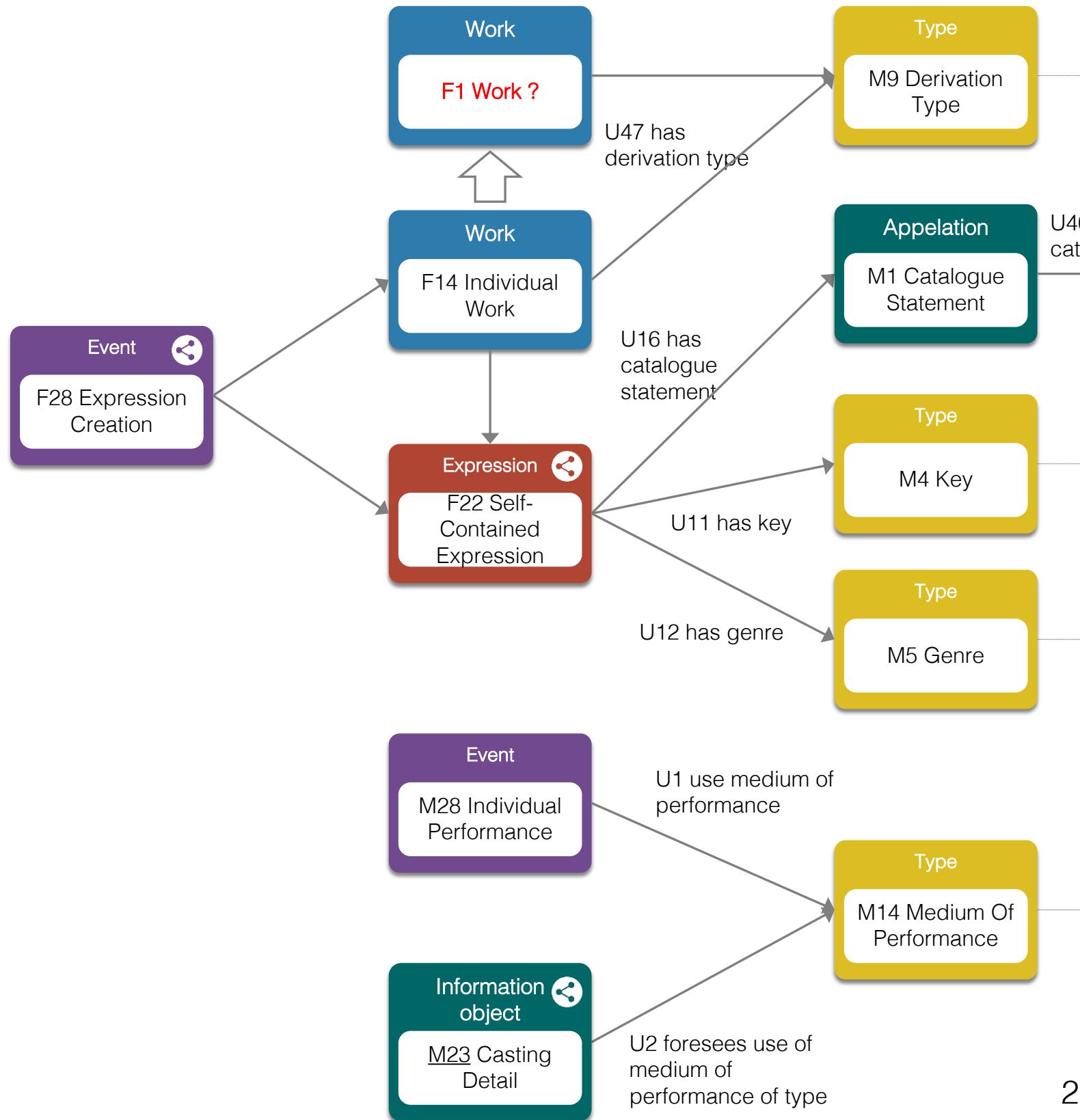


2nd May 2004
 Concert Nocturne 1 Clairs de lune
 at Philharmonie of Paris

Controlled vocabularies

Controlled vocabularies

Overview



Controlled vocabularies

derivation



catalogue



key



genre



medium of performance



Controlled vocabularies

List of keys

Summary description

URI	http://data.doremus.org/vocabulary/key/
Title	List of keys
Creator	doremus.org
Description	The sum of relations, melodic and harmonic, existing between the tones of a scale or musical system
Created	2016-09-01
Conforms	SKOS
License	
Language	English, French, Deutsch, Italian, Spanish
DOREMUS usages	<ul style="list-style-type: none"> ▪ Equivalent class: M4 Key ▪ Used for: U11 key (in class F22 Self-Contained Expression)

Alignment

IFLA	Key of musical work http://iflastandards.info/ns/unimarc/terms/key#
------	--------------------------------------------------------------------------------------------------------------------------------------

Some english values label

[D Minor](#)
[D flat Major](#)
[D Major](#)
[E flat Minor](#)
[F sharp Major](#)
[E Major](#)
[E Minor](#)
[A Major](#)
[C flat Major](#)
...

Distribution

SPARQL	http://data.doremus.org/sparql
CSV	À préciser
RDF	À préciser

Controlled vocabularies

List of keys

QUERY : Find all musical works in C sharp Minor

```

1  SELECT ?title ?key (SAMPLE(?composerName) AS ?composerName)
2
3  WHERE {
4    ?F22_Self_Created_Expression mus:U11_has_key <http://data.doremus.org/vocabulary/key/c>;
5        mus:U70_has_title ?title.
6
7    <http://data.doremus.org/vocabulary/key/c> skos:prefLabel ?key.
8    FILTER (lang(?key)="en")
9
10   OPTIONAL {
11     ?F28_Expression_Creation efrbroo:R17_created ?F22_Self_Created_Expression;
12     ecrm:P9_consists_of/ecrm:P14_carried_out_by/ecrm:P131_is_identified_by ?composerName.
13   }
14 }
15 LIMIT 100

```

Access original file : https://drive.google.com/open?id=0BwopBdic2_jUSGVPT2hrT3pLZjg

Extract of results

title	key	composerName
"Toccatas Toccata, arpeggio, fuga"@fr	"C Major"@en	"Scarlatti, Alessandro (1660-1725)"
"Gavotte"	"C Major"@en	"Dedieu, Paul (18..-1899)"
"Fuge über ein Thema von Tomaso Albinoni"	"C Major"@en	"Bach, Johann Sebastian (1685-1750)"
"Air varié"	"C Major"@en	"Sor, Fernando (1778-1839)"
"Missa sancti Joannis Nepomuceni"@la	"C Major"@en	"Haydn, Michael (1737-1806)"
"Si, si, luci adorate"	"C Major"@en	"Vivaldi, Antonio (1678-1741)"

Controlled vocabularies

List of types of derivation

Summary description

URI	http://data.doremus.org/vocabulary/derivation/
Title	List of types of derivation
Creator	doremus.org
Description	List of derivation links between two works
Created	2016-09-01
Conforms	SKOS
License	
Language	English, French, Deutsch, Italian, Spanish
DOREMUS usages	<ul style="list-style-type: none"> ▪ Equivalent class: M9 Derivation Type ▪ Used for: U47 has derivation type (class E89 Propositional Object)

Some english values label

[Fantasy](#)
[Orchestration](#)
[Reharmonization](#)
[Transcription](#)
[Variation](#)
[Reconstruction](#)
[Harmonization](#)
[Medley](#)
[Reorchestration](#)
...

Alignment

--	--

Distribution

SPARQL	http://data.doremus.org/sparql
CSV	À préciser
RDF	À préciser

Controlled vocabularies

List of modes

Summary description

URI	http://data.doremus.org/vocabulary/mode/
Title	List of modes
Creator	doremus.org
Description	Mode generally refers to a type of scale, coupled with a set of characteristic melodic behaviours
Created	2016-09-01
Conforms	SKOS
License	
Language	English, French
DOREMUS usages	<ul style="list-style-type: none"> ▪ Equivalent class: M22 Mode À préciser ▪ Used for: U22 has mode (class F22 Self-Contained Expression) À préciser

Alignment

--	--

Some english values label

modern musical scales

dorian mode

mixolydian mode

...

western church modes

lydian mode

aeolian mode

...

...

Distribution

SPARQL	http://data.doremus.org/sparql
CSV	À préciser
RDF	À préciser

Controlled vocabularies

List of genres

Summary description

URI	http://data.doremus.org/vocabulary/iaml/genre/
Title	List of musical genres
Creator	iaml.info
Description	À préciser
Created	À préciser
Conforms	SKOS
License	À préciser
Language	English, French, Deutsch, Italian
DOREMUS usages	<ul style="list-style-type: none"> ▪ Equivalent class: M5 Genre ▪ Used for: U12 has genre (class F22 Self-Contained Expression)

Some english values label

[byzantine canon](#)
[children's song](#)
[foxtrot](#)
[fugue](#)
[folie](#)
[forlana](#)
[galop](#)
[hard rock](#)
...

Alignment

IFLA	The form of a musical work http://iflastandards.info/ns/unimarc/terms/fom/
BNF	Rameau À préciser

Distribution

SPARQL	http://data.doremus.org/sparql
CSV	À préciser
RDF	À préciser

Controlled vocabularies

Use of genres in DOREMUS datasets

