DOing
REusable
MUSical data

http://www.doremus.org

Tutorial IAML 2016

PROJET FINANCÉ PAR L'ANR - PROJECT FUNDED BY THE ANR
ANR
<ANR-14-CE24-0020>

The DOREMUS Model

A 3mn crash course on FRBR

Remember the index card?

The good ol’ index card?

The index cards carried a lot of information:

- described on 3 cards, filed alphabetically under its title, author and subject.
- generally contained author name, book name, publisher and date, location in the library…

The bad bad index card?

What the index cards did not tell us about:

- other books by the same author
- other publications of the same book
- translations of the book
- other resources about the book, or referring to the book, or derived from it, or influenced by it…
- etc…

FRBR's four levels

WORK

EXPRESSION

MANIFESTATION

ITEM

In the bibliographic catalogue

Author	Kazantzakis, Nikos, 1883-1957
Uniform Title	O Christos xanastauronetai (English)
Main Title	The greek passion / by Nikos Kazantzakis ; translated by Jonathan Griffin
Imprint	New York : Simon and Schuster, 1954
Description	432 p. ; 21 cm
Other author	Griffin, Jonathan.

work

expression

manifestation

item

Location	Shelf number & volume	Loan period	Status
Book Collection (entrance floor)	PAA.KAZ2.CHR	30 DAYS	DUE 03-06-15

What is a work ?

According to FRBR-LRM (draft):

“A *work* is an abstract entity that permits the identification of the commonality of content beween and among various *expressions*”.

Don’t overthink works!

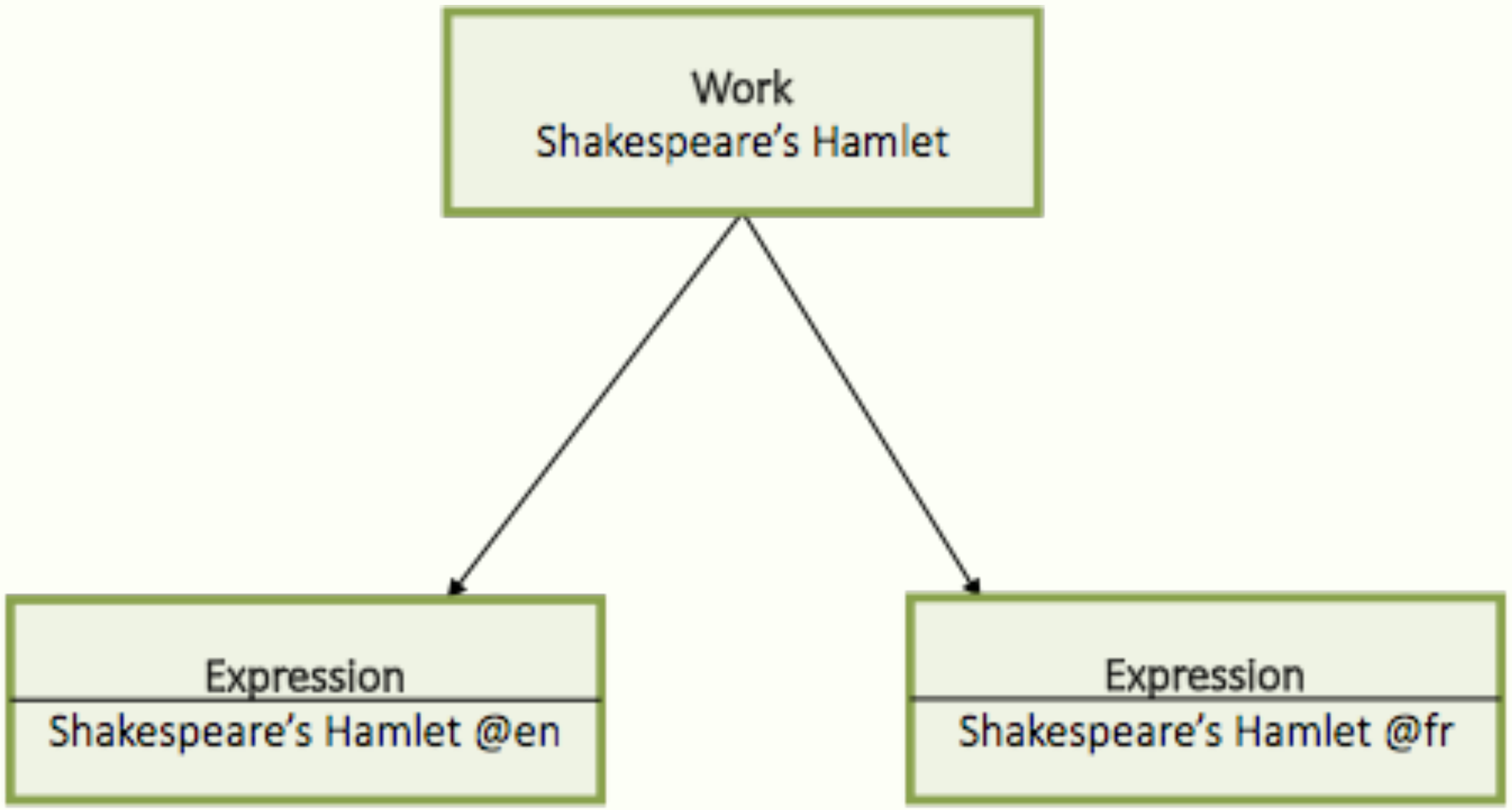
What is an Expression ?

According to FRBR-LRM (draft):

“An *expression* is a distinct constellation of signs of any form or nature intended to convey intellectual or artistic content and identifiable as such”.

An *expression* is the specific intellectual or artistic *form* that a *work* takes each time it is *realised* ”

Work and Expressions



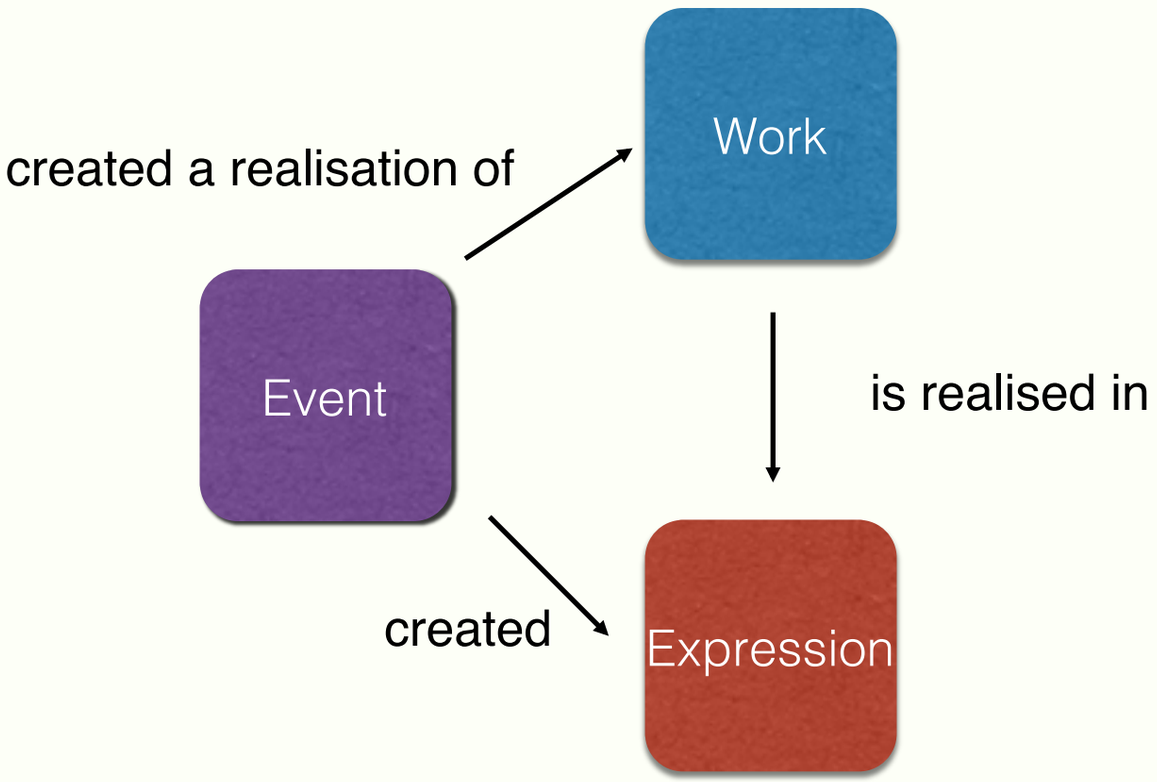
A brief introduction to FRBRoo

FRBRoo is derived from FRBRer,

FRBRoo is an extension of the CIDOC CRM model,

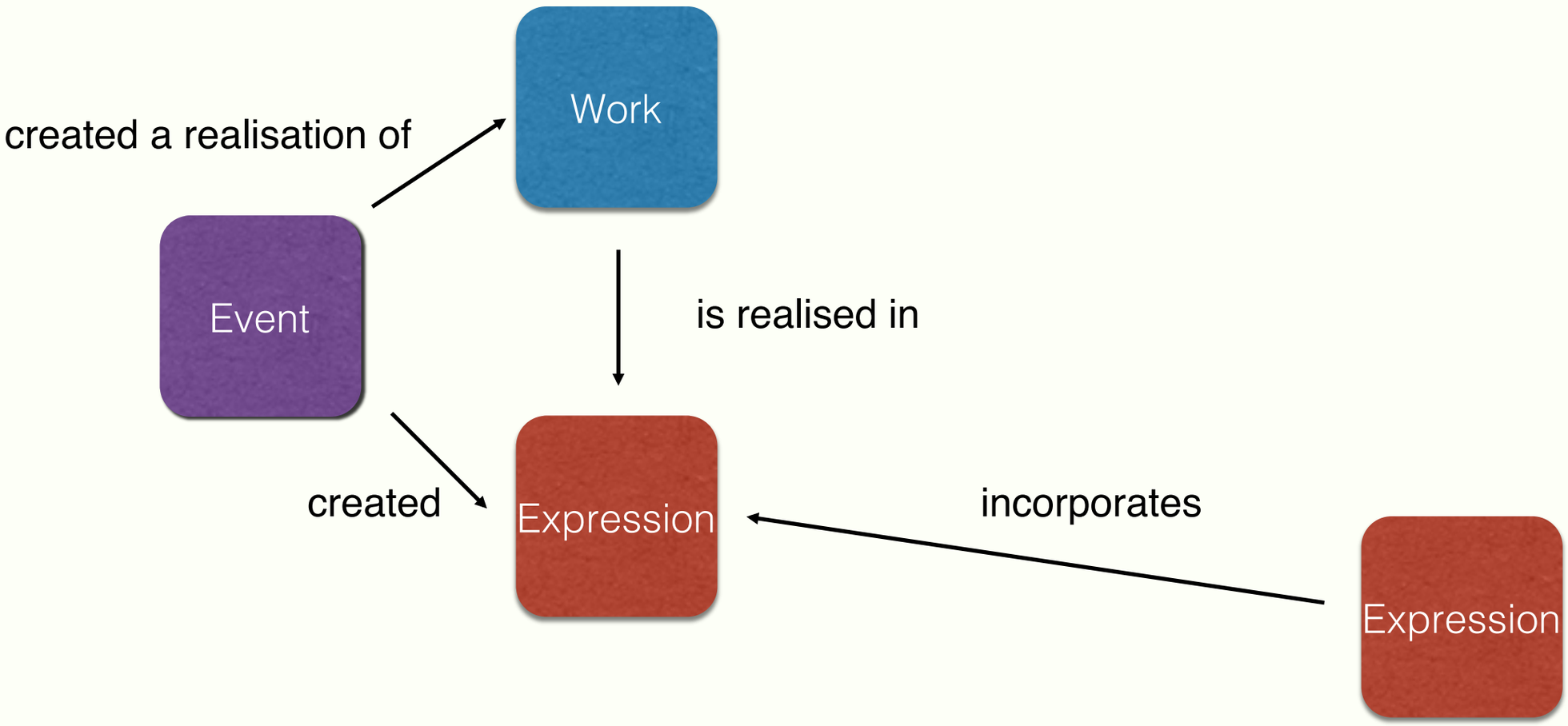
It is a dynamic model, allowing for the description of processes instead of results.

THE BUILDING BLOCKS (1/3)



An activity created an Expression, which is the realisation of a Work

THE BUILDING BLOCKS (2/3)

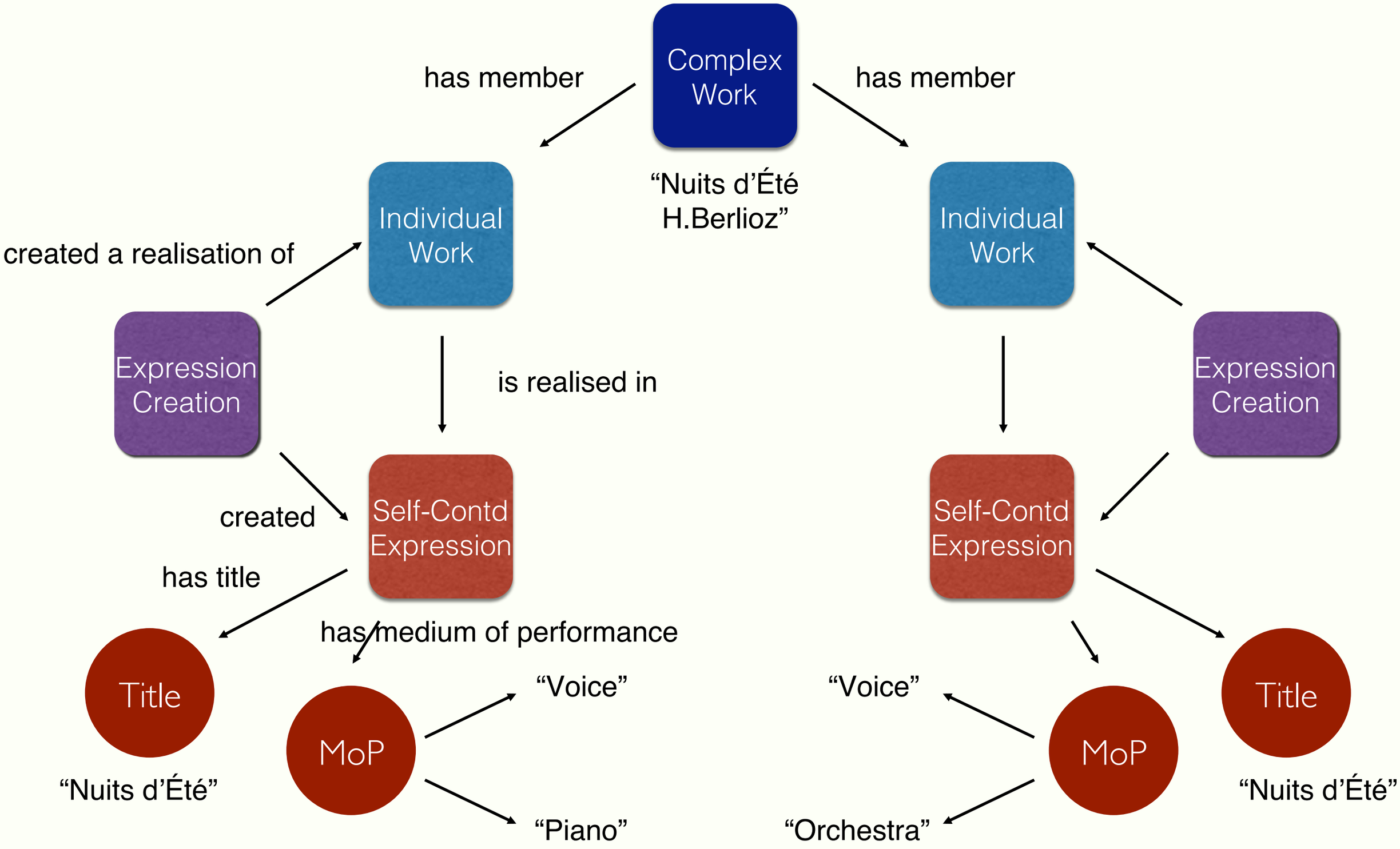


An Expression can incorporate another Expression

THE BUILDING BLOCKS (3/3)

- P1 is identified by : identification / appellation
- P2 has type : categorisation
- P3 has note : extensive description
- P16 used specific object : an event used an object (in a broad sense : an expression is an “object”)
- P67 refers to : referring to something else

FRBROO'S COMPLEX WORK



Beethoven, Ludwig van (1770-1827)
forme internationale
[Concertos. Piano, orchestre. No 5. Op. 73. Mi bémol majeur]
%{msg('VV.CodeLangue.fre')}

Genre musical : %{msg('VV.GenreMusical.co ')}

Date de l'oeuvre : 1809

Dédicace à l'archiduc Rodolphe de Habsbourg. - Date de composition : 1809. - 1re éd. : Leipzig : Breitkopf & Härtel, 1811

Distribution musicale : clavier - piano (1) (solo), orchestre - orchestre symphonique XIXe-XXe s. (1)

Forme(s) rejetée(s) :
< [L'Empereur (Concerto)]
%{msg('VV.CodeLangue.fre')}

Forme(s) associée(s) :
<< Fait partie de : Beethoven, Ludwig van (1770-1827). [Concertos. Piano, orchestre]

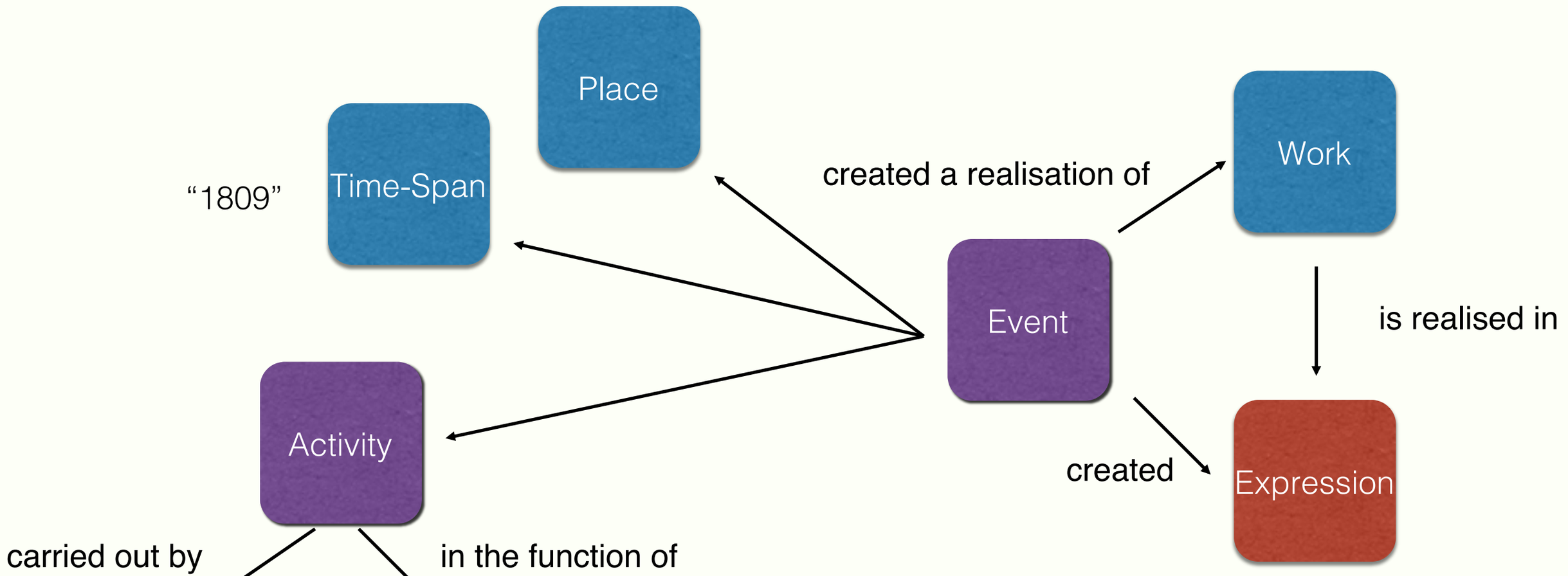
Source(s) :
Kinsky et Halm
Grove 7

Format : Intermarc

000 00669c0 au22000272 45
001 FRBNF139082450
008 890821130711yy co 1809 1
048 .. $b ka01 $a oa01
100 .. $3 13891295 Sw .0..b..... $a Beethoven Sm Ludwig van Sd 1770-1827
144 1. $w ....b.fre. $a Concertos Sb Piano, orchestre $n No 5 $p Op. 73 $t Mi bémol majeur
444 1. $w ....b.fre. $a L'lEmpereur $e Concerto
502 .. $3 13908109 Sa Beethoven $m Ludwig van $d 1770-1827 $t [Concertos. Piano, orchestre]
600 .. $a Dédicace à l'archiduc Rodolphe de Habsbourg $a Date de composition : 1809 $a 1re éd. : Leipzig : Breitkopf & Härtel, 1811
610 .. $a Kinsky et Halm
610 .. $a Grove 7
917 .. $o OPC $a 100366670
917 .. $o OPD $a 100056980 $b ATUM
996 .. $o OPP $a 14785161 Sd 20061017
996 .. $o OPP $a 16302637 Sd 20130711

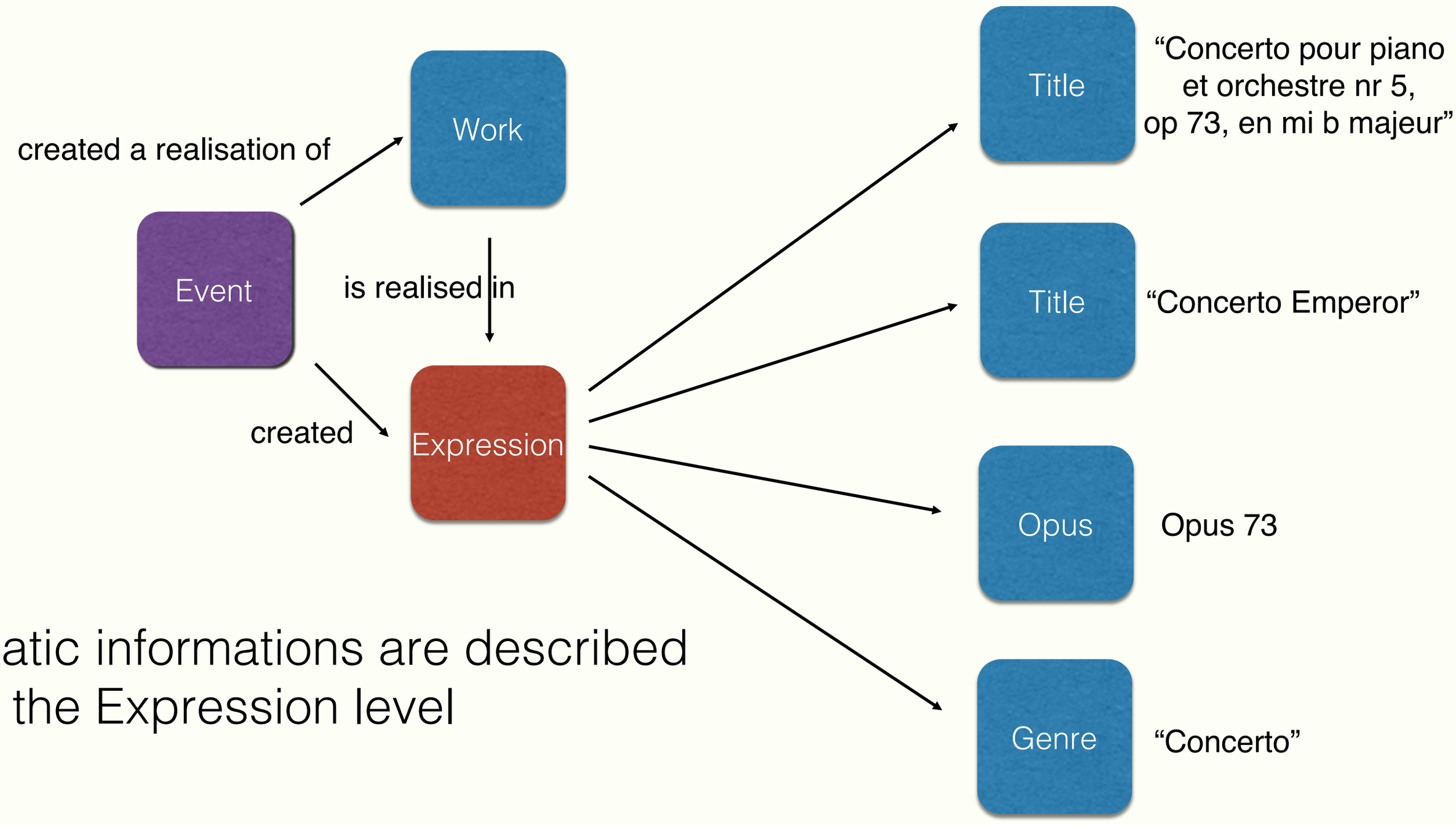
http://catalogue.bnf.fr/ark:/12148/cb13908245k.intermarc

DESCRIBING A MUSICAL WORK



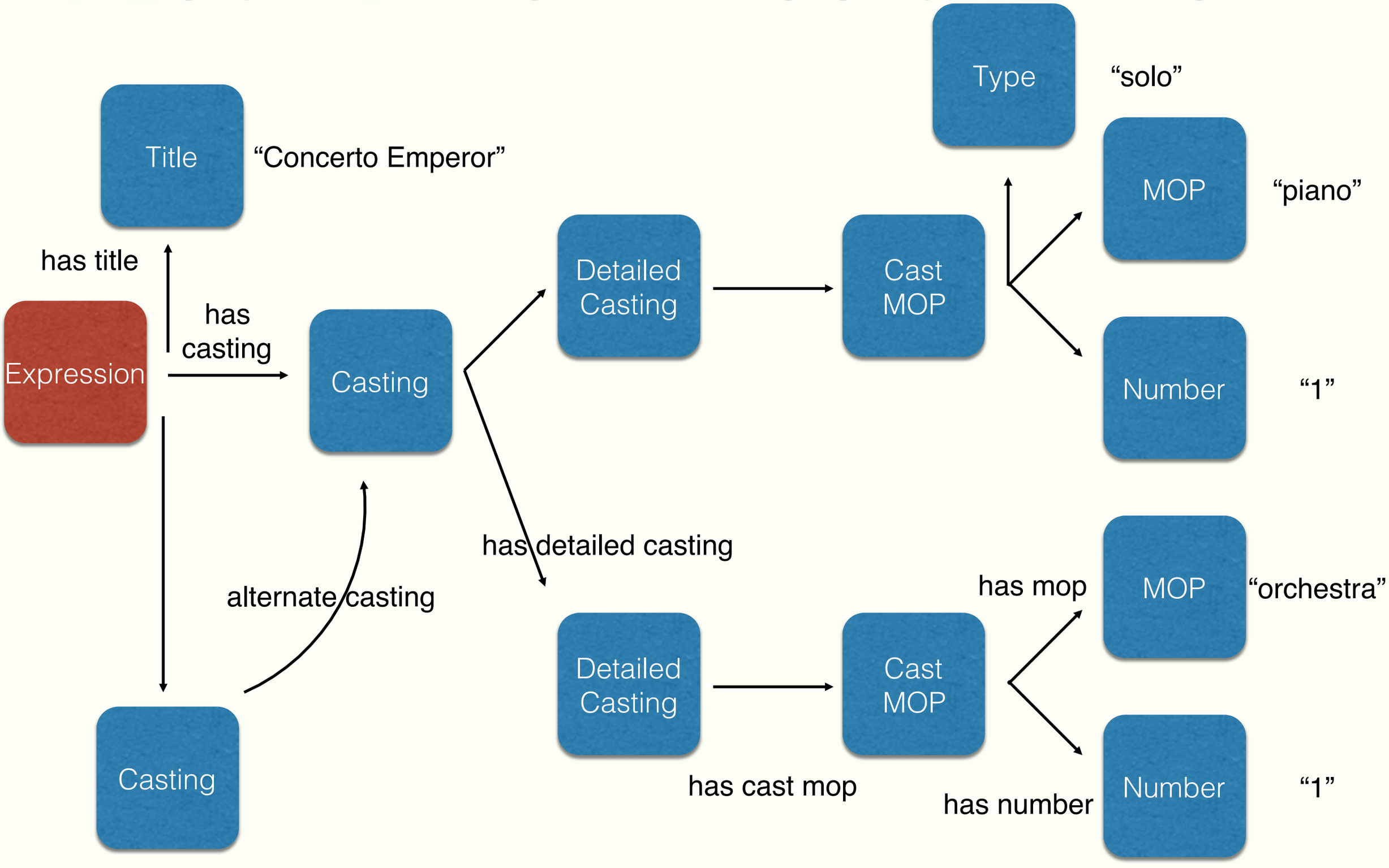
Informations about the creation of the Expression are described at the Event level

DESCRIBING A MUSICAL WORK



Static informations are described at the Expression level

DESCRIBING A MUSICAL WORK

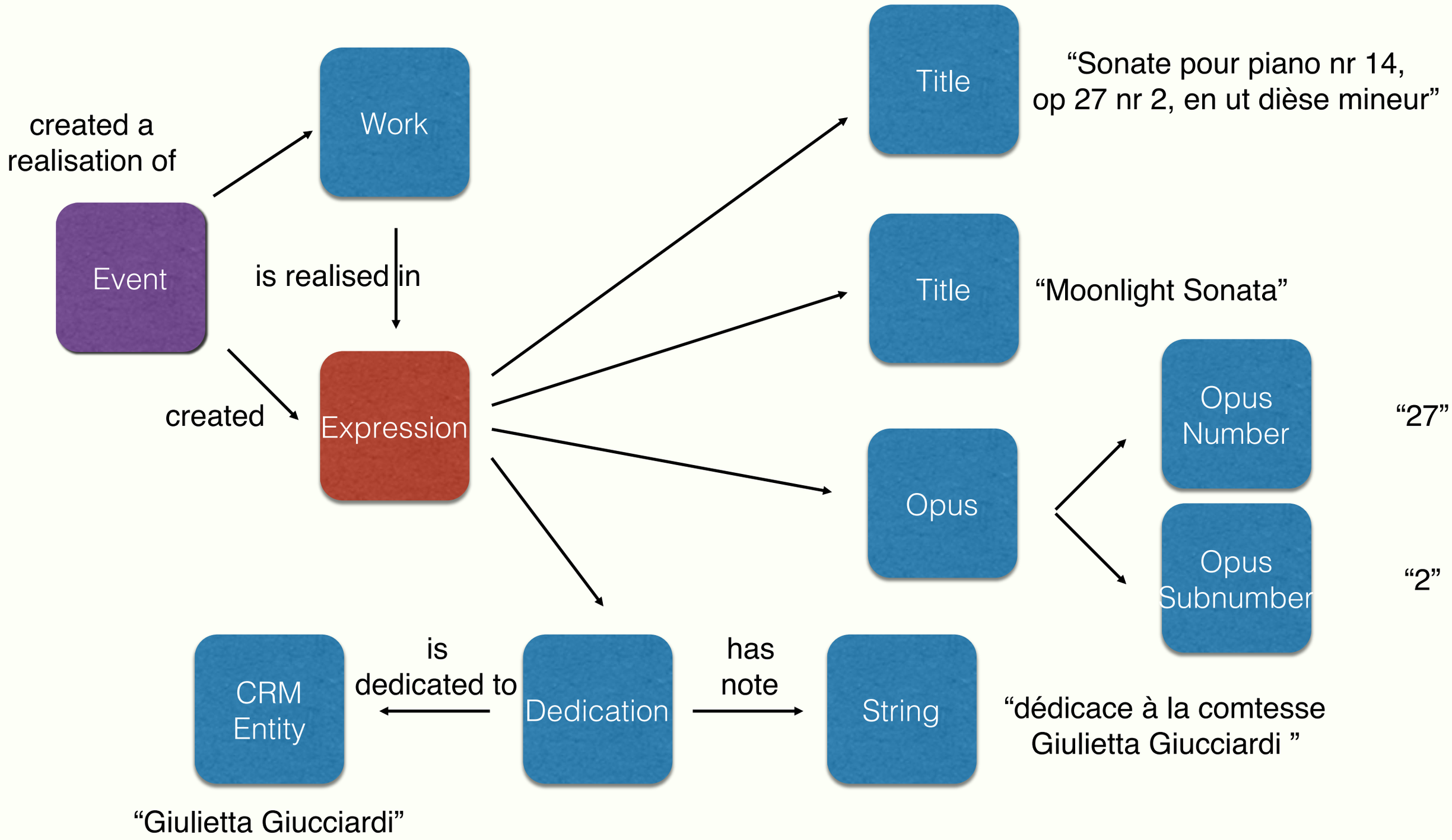


Format : Intermarc

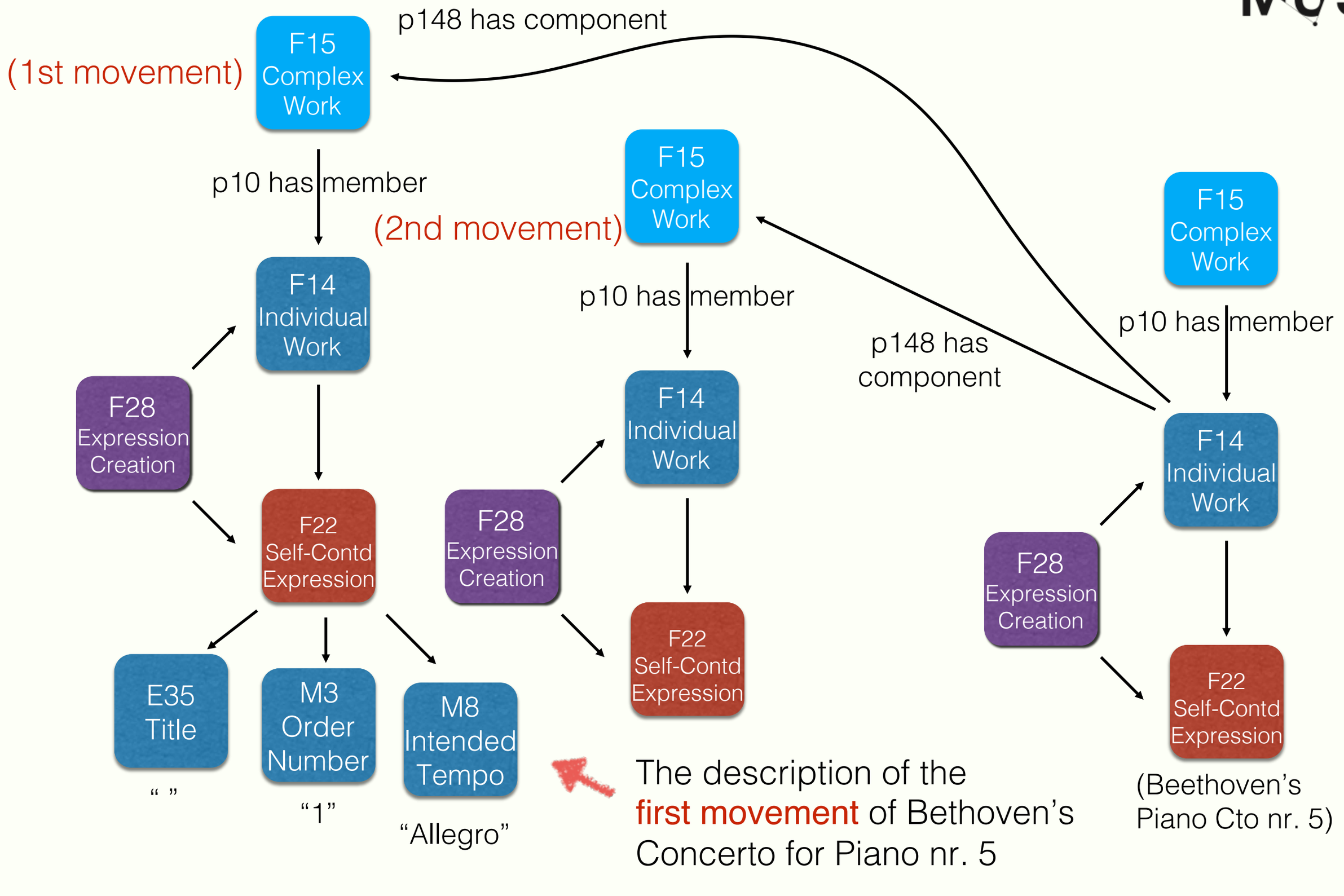
000 00953c0 au22000272 45
001 FRBNF139081882
008 890821130211yy sn 1801 010
048 .. $a ka01
100 .. $3 13891295 Sw .0..b..... $a Beethoven Sm Ludwig van Sd 1770-1827
144 1. $w ....b.fre. $a Sonates $b Piano Sp Op. 27, no 2 St Do dièse mineur
444 1. $w ....b.fre. $a Sonates $b Piano Sn No 14 St Do dièse mineur
444 1. $w ....b.ita. Sa Quasi una fantasia Sp Op. 27, no 2 Se Sonate
444 1. $w ....b.ita. Sa Sonata quasi una fantasia $p Op. 27, no 2
444 1. $w ....b.eng. $a Moonlight sonata
444 1. $w ....b.fre. $a Clair de lune $e Sonate
444 1. $w ....b.ger. $a Mondschein-Sonate
444 1. $w ....b.fre. $a Sonate au clair de lune
444 1. $w ....b.fre. $a Sonate Clair de lune
502 .. $3 14017453 Sa Beethoven $m Ludwig van $d 1770-1827 $t [Sonates (2). Op. 27]
600 .. $a Dédicace à la comtesse Giulietta Giucciardi $a Date de composition : 1801 $a 1re éd. : Vienne : Cappi, 1802
610 .. $a Kinsky
610 .. $a Grove 7
917 .. $o OPC $a 100366020
917 .. $o OPD $a 100087890 $b ATUM
996 .. $o OPP $a 14786691 Sd 20060411
996 .. $o OPP $a 16305693 Sd 20130211

http://catalogue.bnf.fr/ark:/12148/cb13908188k.intermarc

DESCRIBING A MUSICAL WORK



Describing a work's components

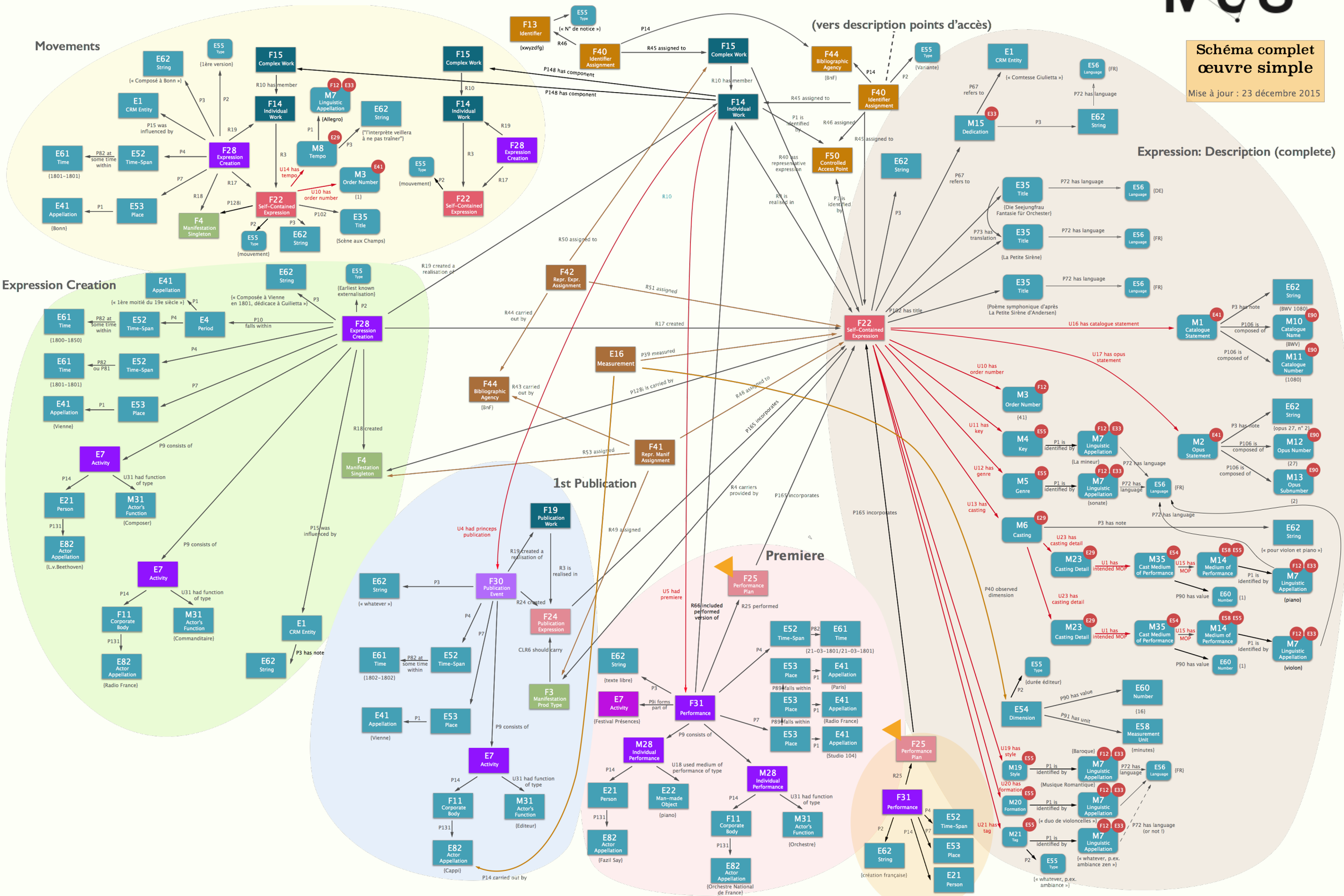


The description of the first movement of Bethoven's Concerto for Piano nr. 5

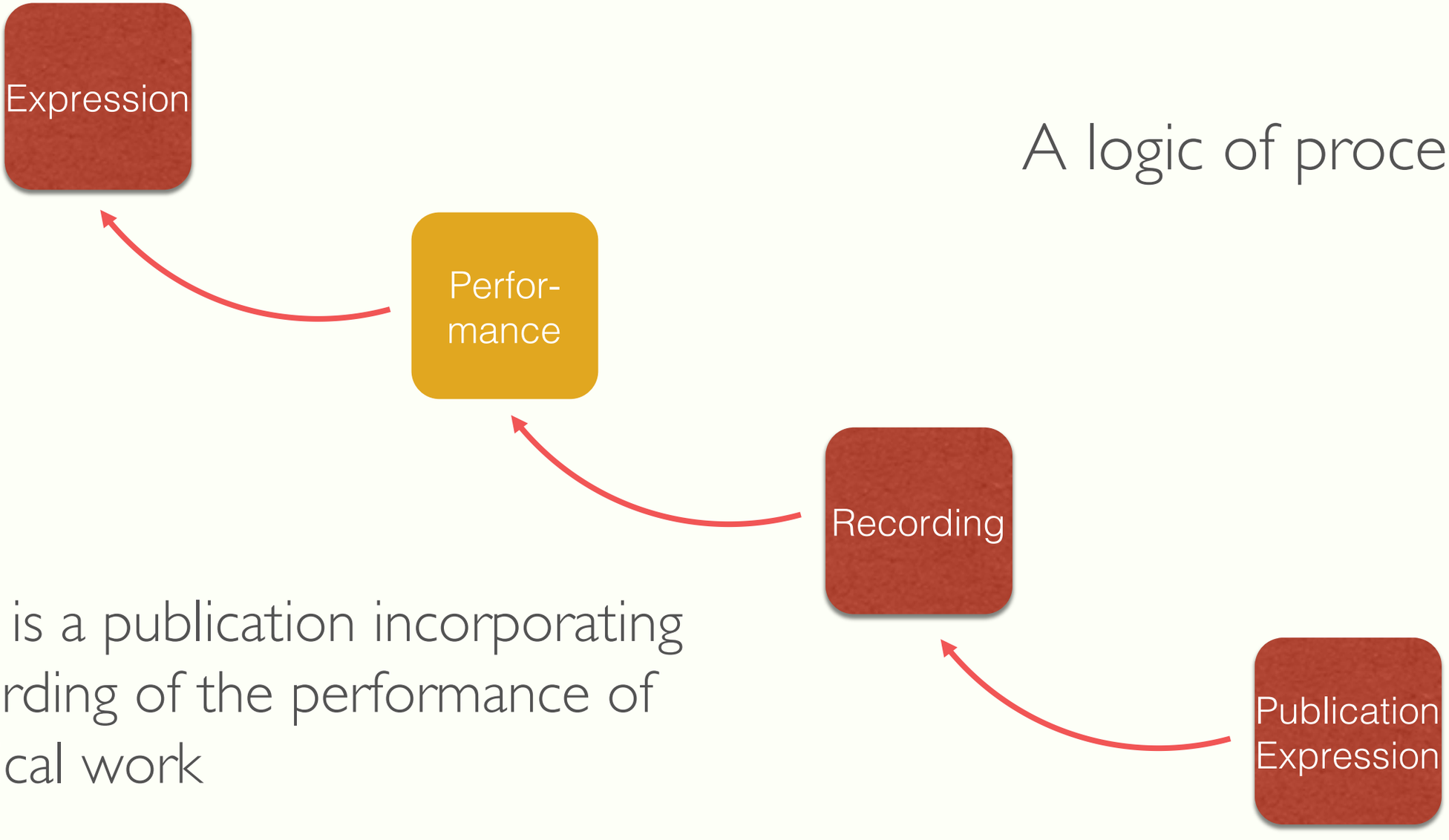
Describing a simple work

(a recap of the previous slides)

DOing REusable MUSical data



PERFORMANCES, RECORDINGS, PUBLICATIONS



A logic of processes

A CD is a publication incorporating a recording of the performance of a musical work

MODEL & RECORD

Rappel de la demande : 1 notices bibliographiques sélectionnées

Forme : **Notices complètes sans exemplaire**

Format : **Intermarc**

Notice bibliographique

000 01458n0 m 2200027 45g
001 FRBNF384428370000006
008 911002s 1991 ....frzxx b 001
009 ge x 1 kz
028 .. $e EMI classics Sa 2536554 $c Boite $d PM 451
038 .. $a 5099925365542
044 .. $g b19910912 $f c1967
048 0. $a ka
100 .. $3 13891295 Sw .0..b..... $a Beethoven Sm Ludwig van Sd 1770-1827 $4 0220
144 0. $3 13908155 $w ....b.fre. $a Sonates $b Piano $p Op. 13 $t Do mineur
245 1. $a Sonate n ° 8, op 13 "Pathétique" $d Enregistrement sonore Sb Sonate n °14, op 27 "Clair de lune" $b Sonate n °23, op 57 "Appassionata" Sf Beethoven Sj Daniel Barenboïm, p
260 2. $a Issy-les-Moulineaux $c EMI music France $a St Ouen l'Aumone $c distrib. EMI music France $d 1991 (DL)
280 .. $a 1 cass audio $c Dolby, Cr02 $e [1] f de dépl
300 .. $a London : prod. EMI records Ltd, P 1967
314 2. $p gb Sa Londres $d 19660900
323 .. $a Notice / Roubinet, Michel
640 1. $a 10909 $b 10900
700 .. $3 13891295 Sw .0..b..... $a Beethoven Sm Ludwig van Sd 1770-1827 $2 01 $4 0220
700 .. $3 13891295 Sw .0..b..... $a Beethoven Sm Ludwig van Sd 1770-1827 $2 02 $4 0220
701 .. $3 13891158 Sw 0 b $a Barenboim $m Daniel $d 1942-.... $4 1560
723 .. $3 13936485 Sw b $a EMI classics
730 .. $3 13889559 Sw 0 b $a EMI music France S4 3250
731 .. $3 13889559 Sw 0 b $a EMI music France S4 3210
732 .. $3 13888287 Sw 20 b $a EMI records Ltd $4 3160
744 .. $3 13908223 Sw ....b.fre. $a Sonates $b Piano Sp Op. 57 St Fa mineur $2 01
744 .. $3 13908188 Sw ....b.fre. $a Sonates $b Piano Sp Op. 27, no 2 St Do dièse mineur S2 02
748 .. $a Sonate n °14, op 27 "Clair de lune"
748 .. $a Sonate n °23, op 57 "Appassionata"
917 .. $o OPC $a 003574320

http://catalogue.bnf.fr/ark:/12148/cb384428371.intermarc

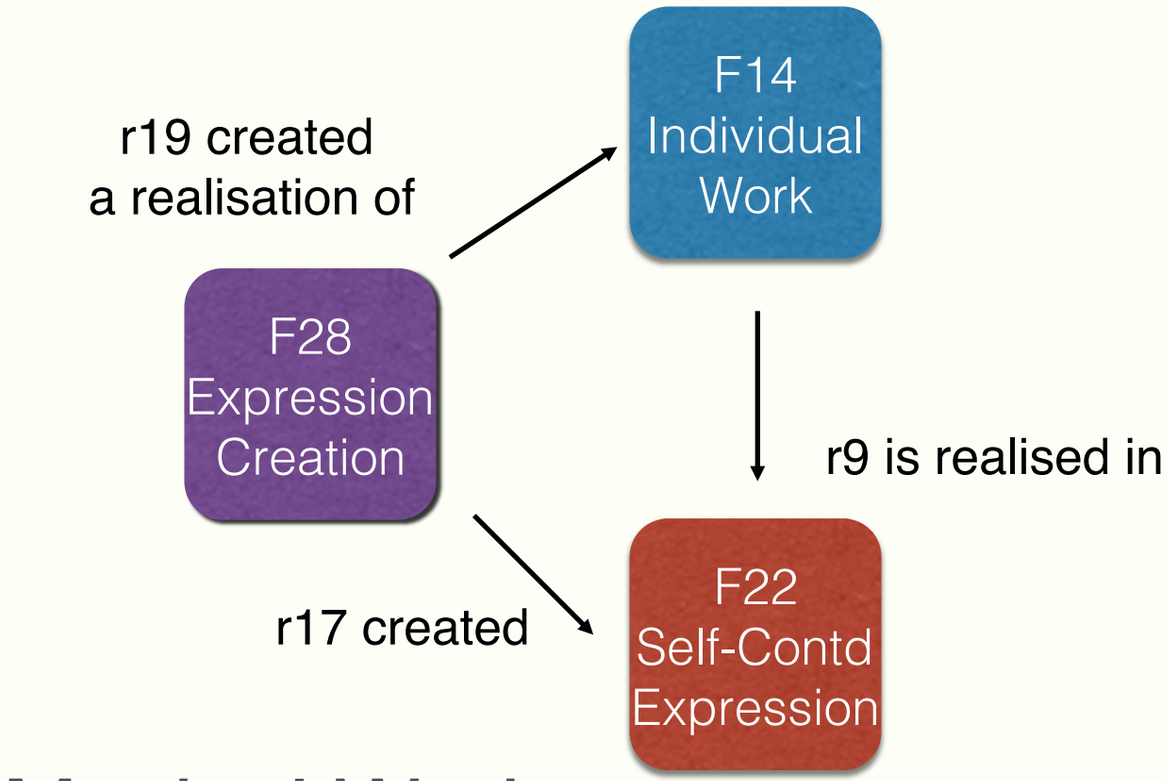
Expression

Perfor-
mance

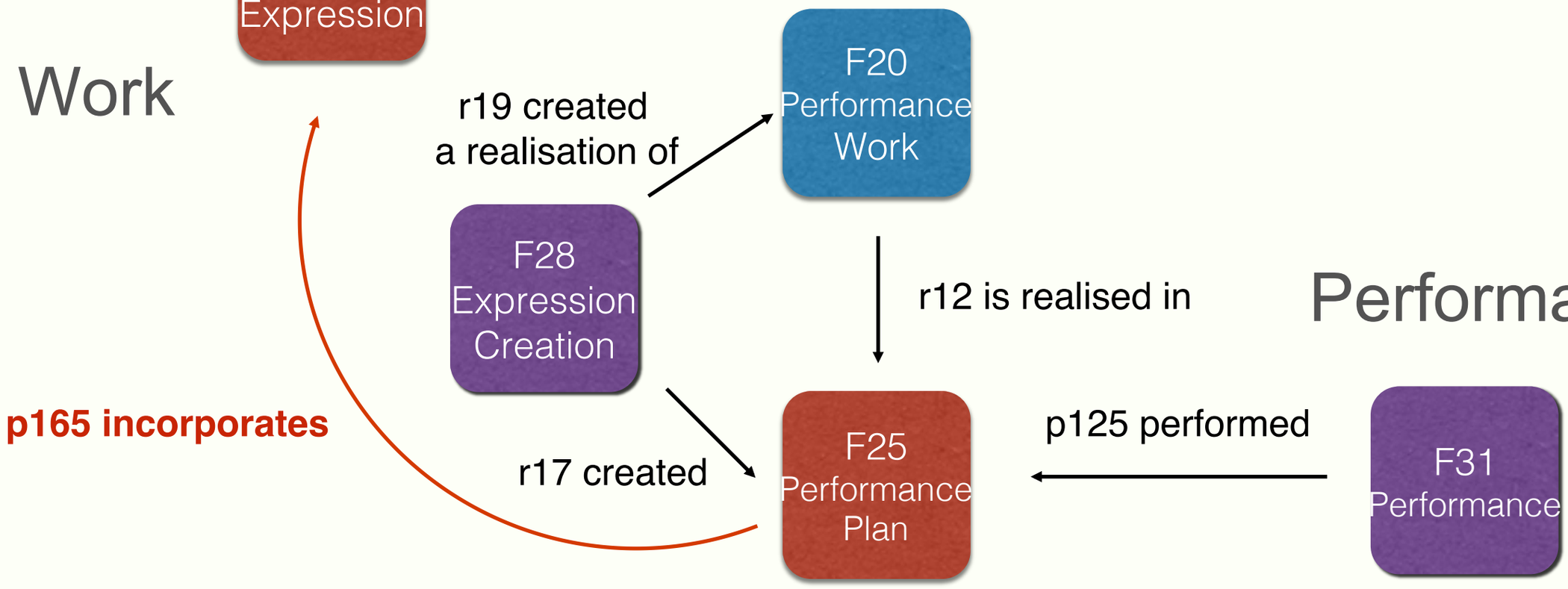
Recording

Publication
Expression

THE PERFORMANCE PLAN (1/3)



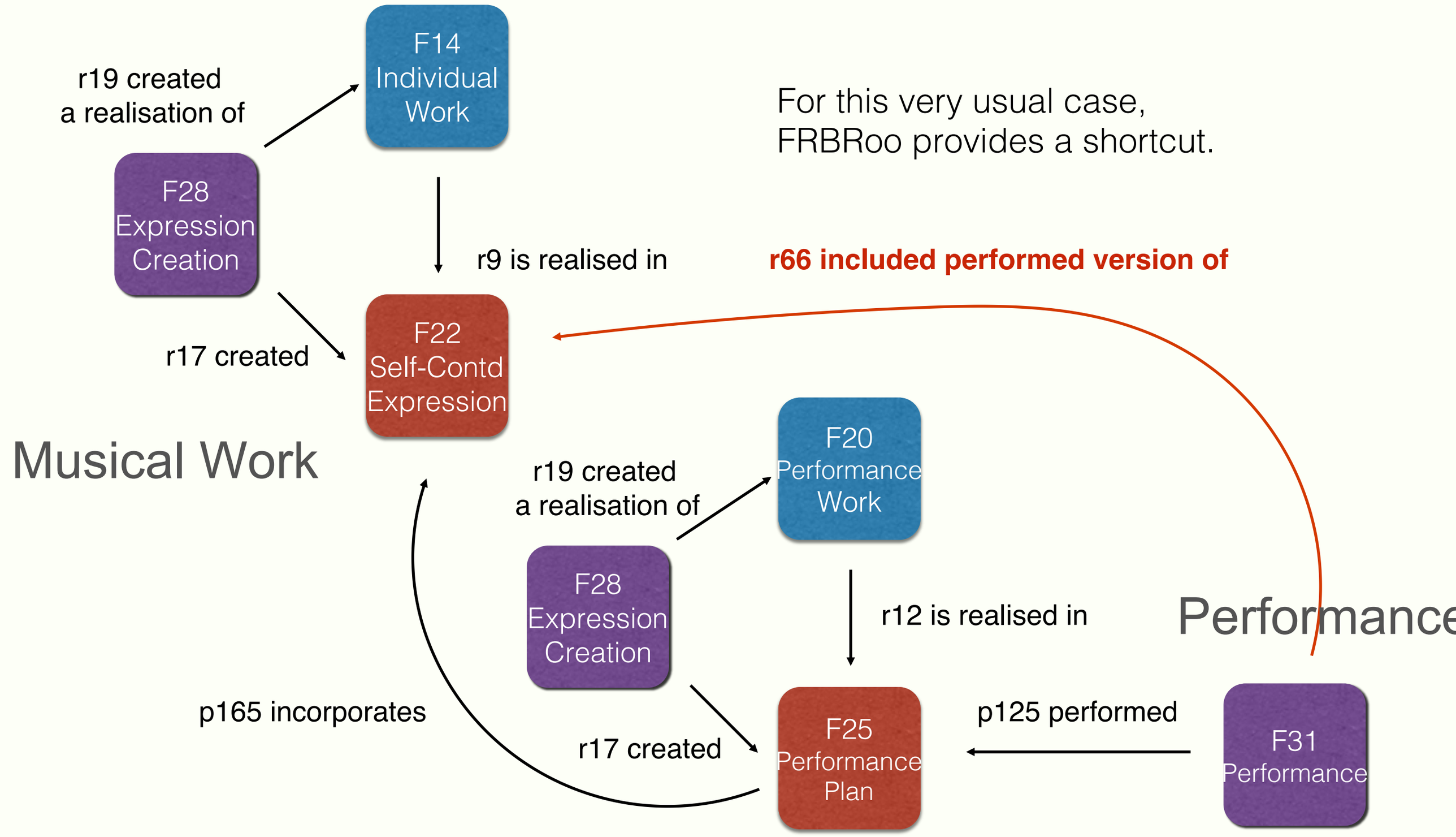
Musical Work



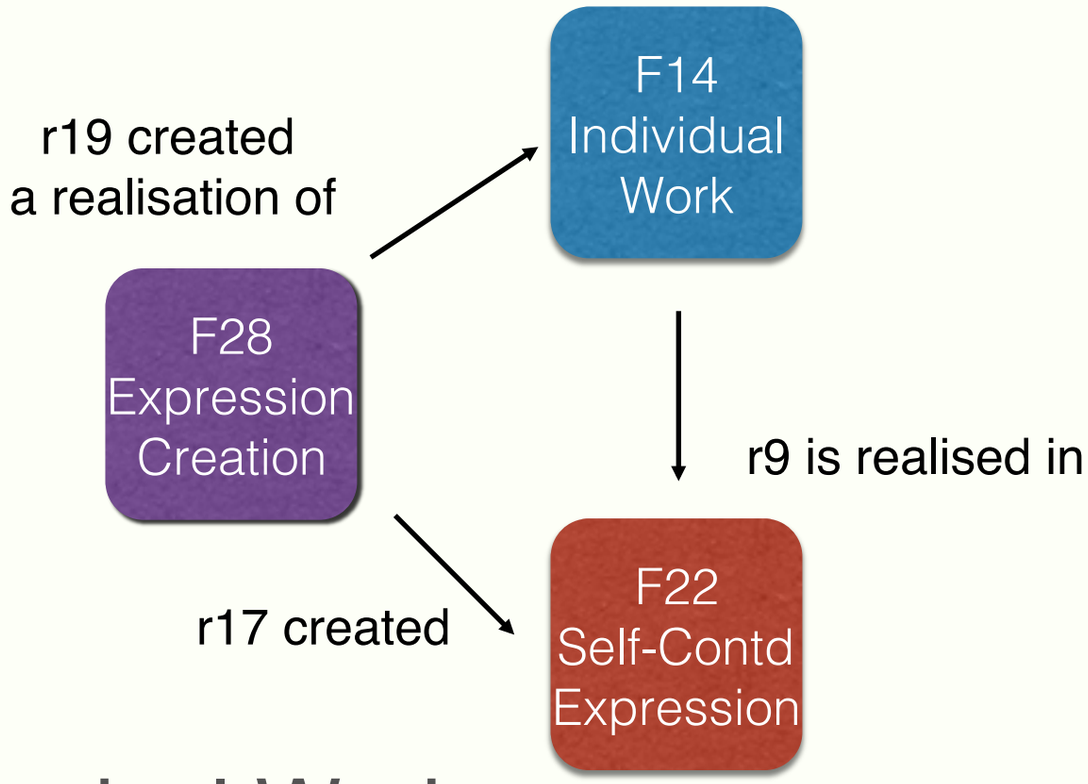
Performance

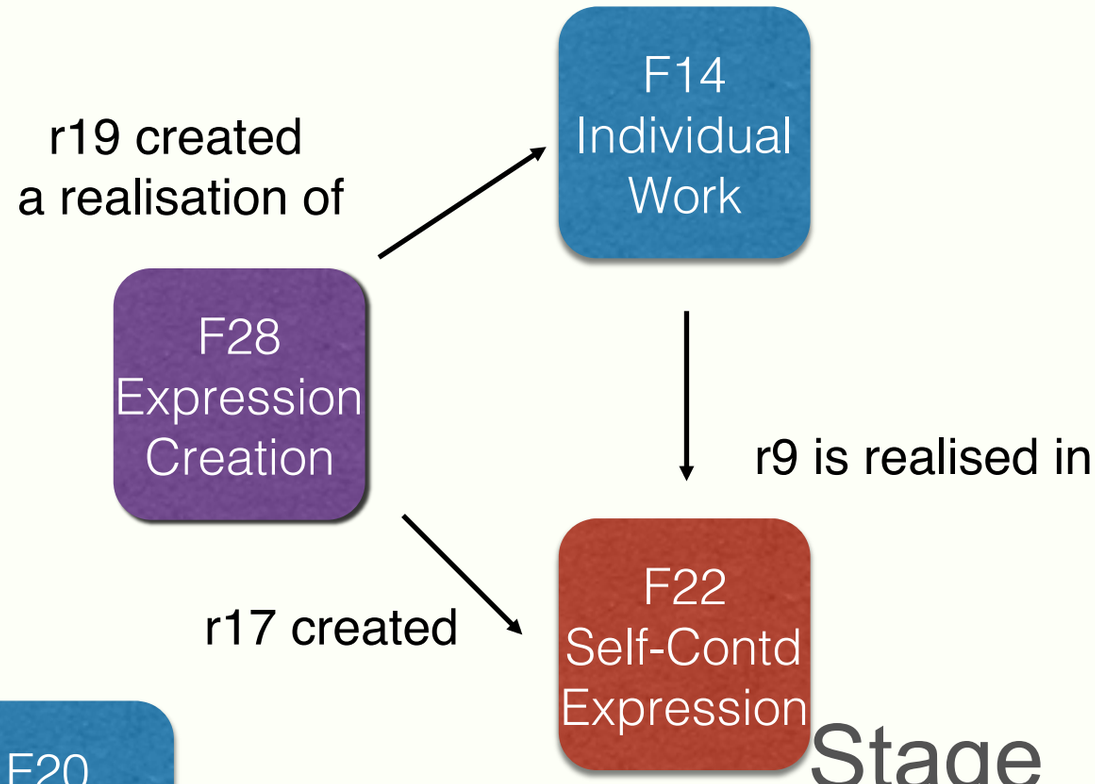
A simple example:
one (or more) musical work(s) and no information regarding any specific "plan".
This could be e.g. the live performance of a song. Do we need a Performance Plan?

THE PERFORMANCE PLAN (2/3)



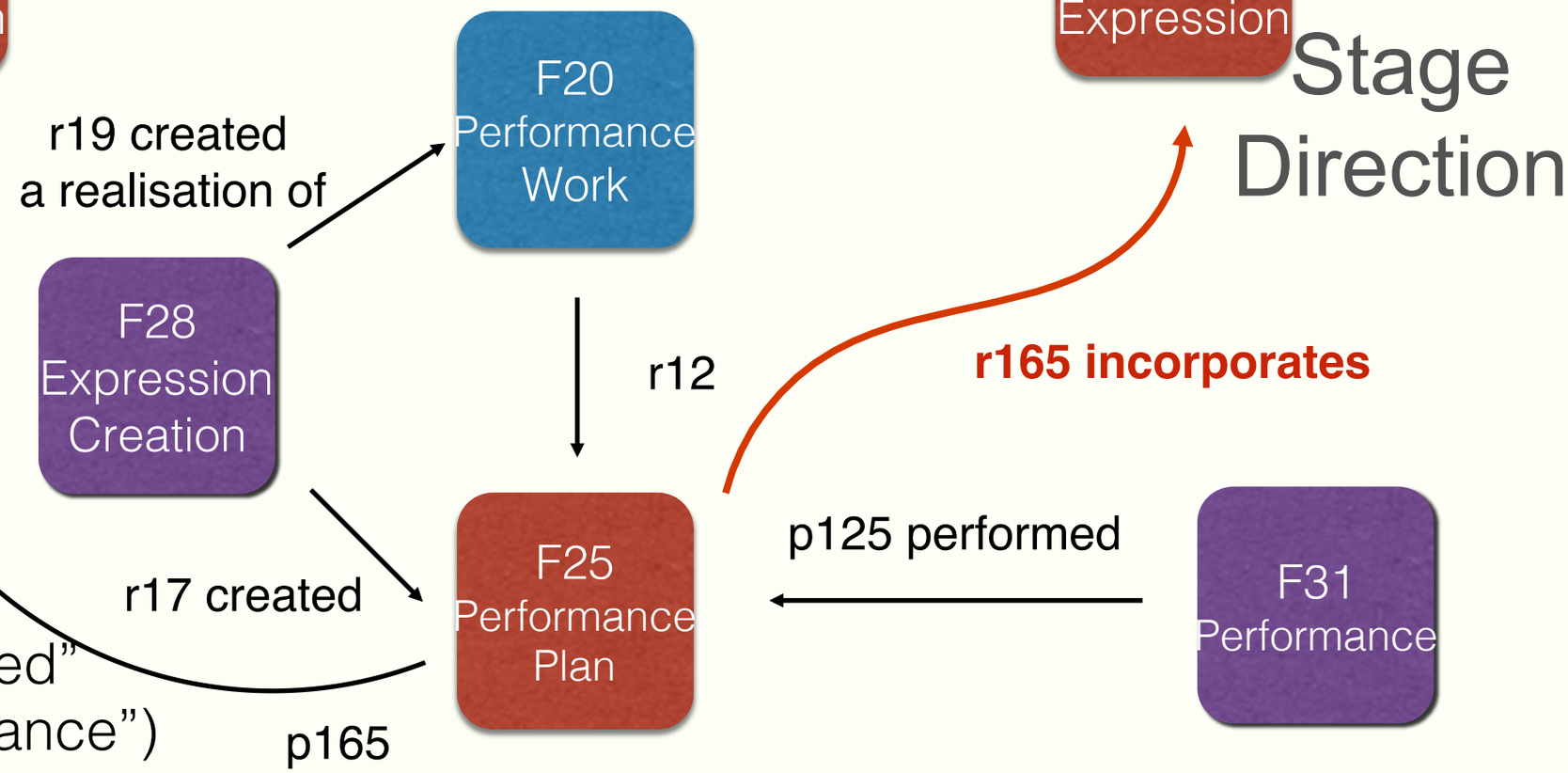
THE PERFORMANCE PLAN (3/3)





Musical Work

The performance plan allows for modelling any information that is not described in the performance: stage setting, choreography, specific intention (e.g. “unplugged” or “historically informed performance”)



DESCRIBING A PERFORMANCE

Describing a concert program

Time-Span

Place

Work

Context

Président du Conseil d'administration
Jean-Philippe Billarant

Directeur général
Laurent Bayle

Cité de la musique

Samedi 22 janvier - 20h
Salle des concerts

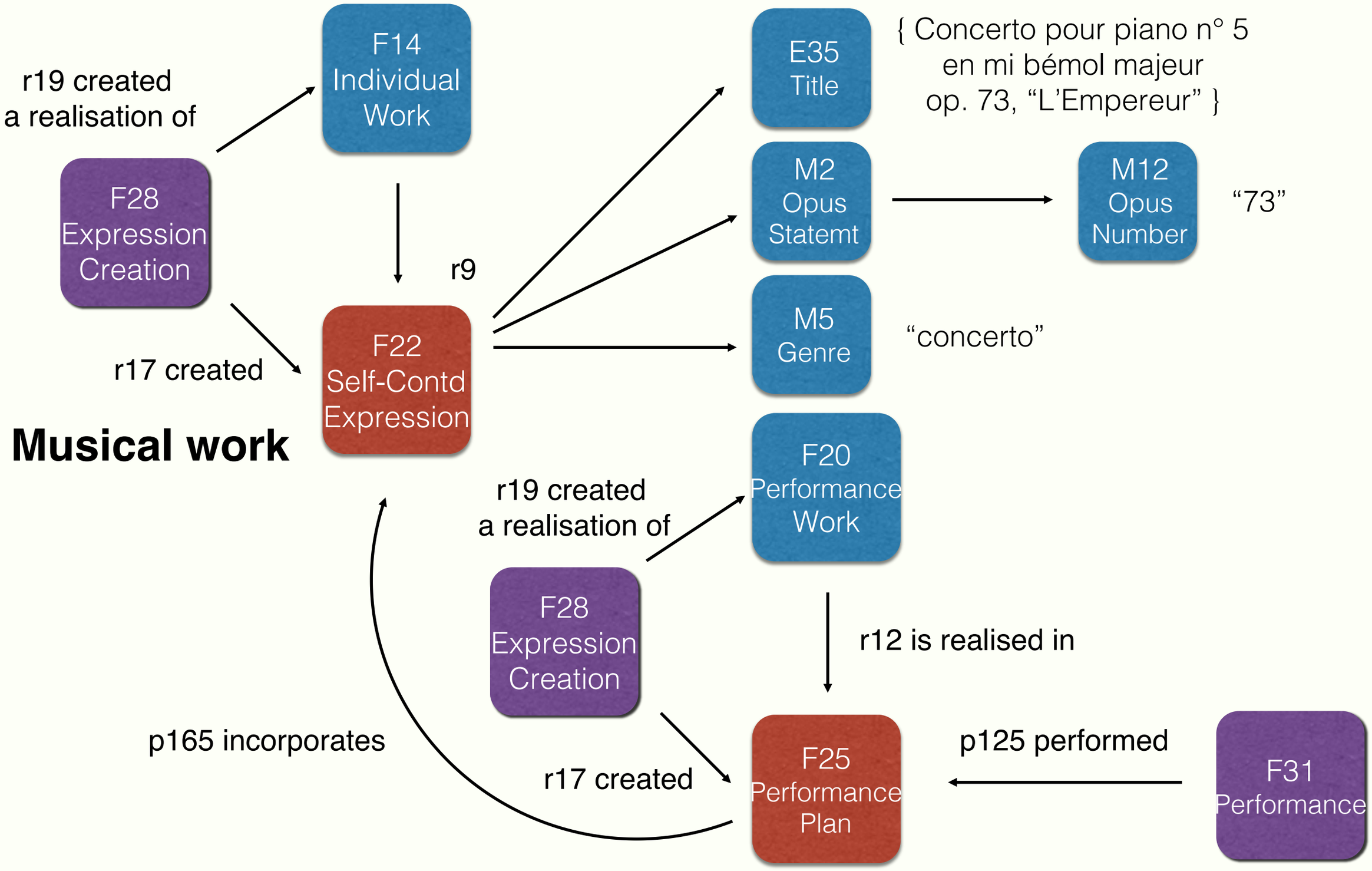
Ludwig van Beethoven (1770-1827)
Concerto pour piano n° 5 en mi bémol majeur, op. 73
" L'Empereur "
Allegro
Adagio un poco mosso. *Attacca.*
Rondo. Allegro
43'

entracte

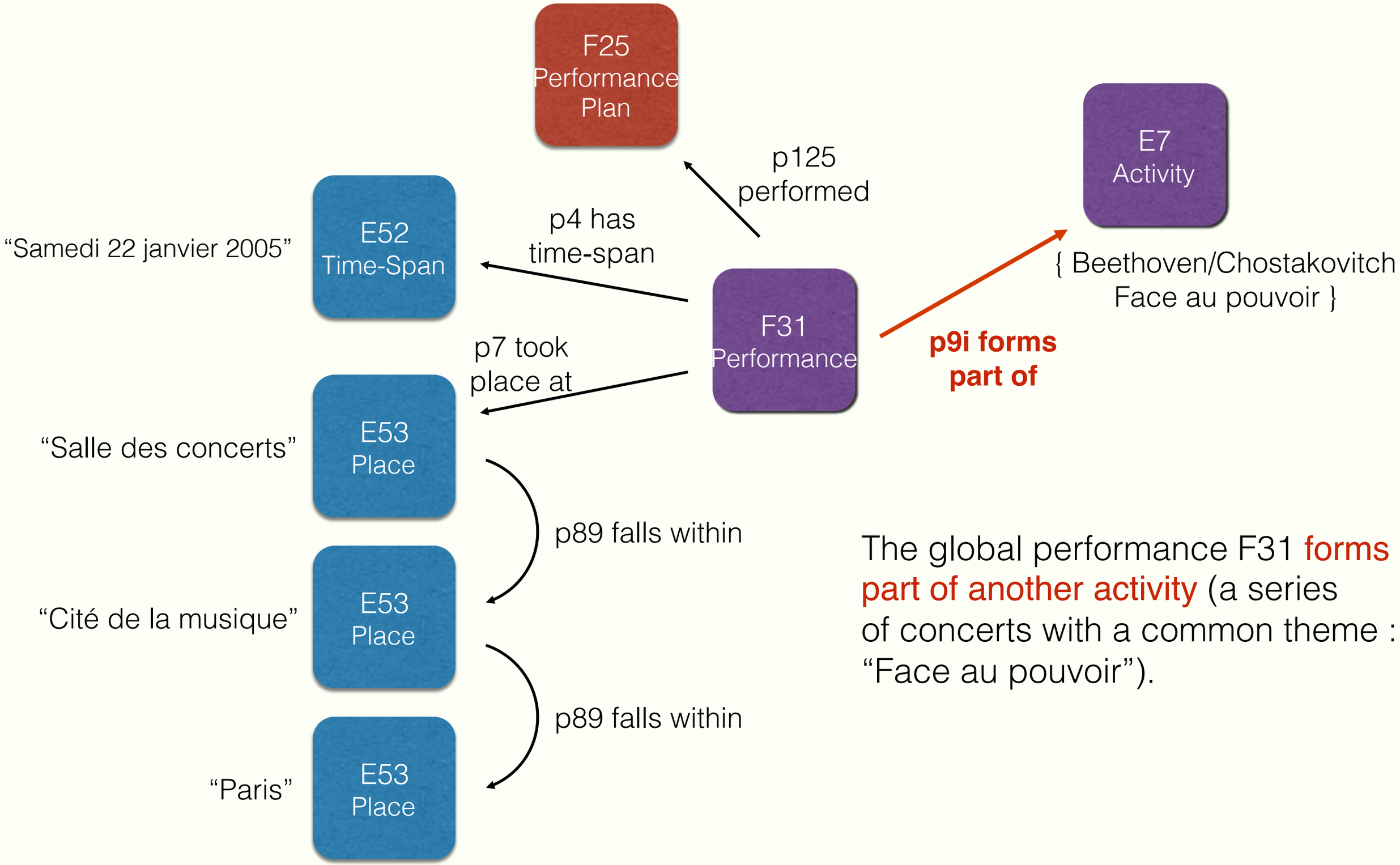
Dmitri Chostakovitch (1906-1975)
Symphonie n°12 en ré mineur, op. 112 « *L'Année 1917* »
Petrograd révolutionnaire. Moderato-Allegro. *Attacca*
Razliv. Allegro (L'istesso tempo)-Adagio. *Attacca*
« Aurora ». L'istesso tempo-Allegro. *Attacca*
Aube de l'Humanité. L'istesso tempo-Allegretto
40'

BEETHOVEN/CHOSTAKOVITCH
Face au pouvoir
Du vendredi 21 au jeudi 27 janvier 2005

DESCRIBING A PERFORMANCE



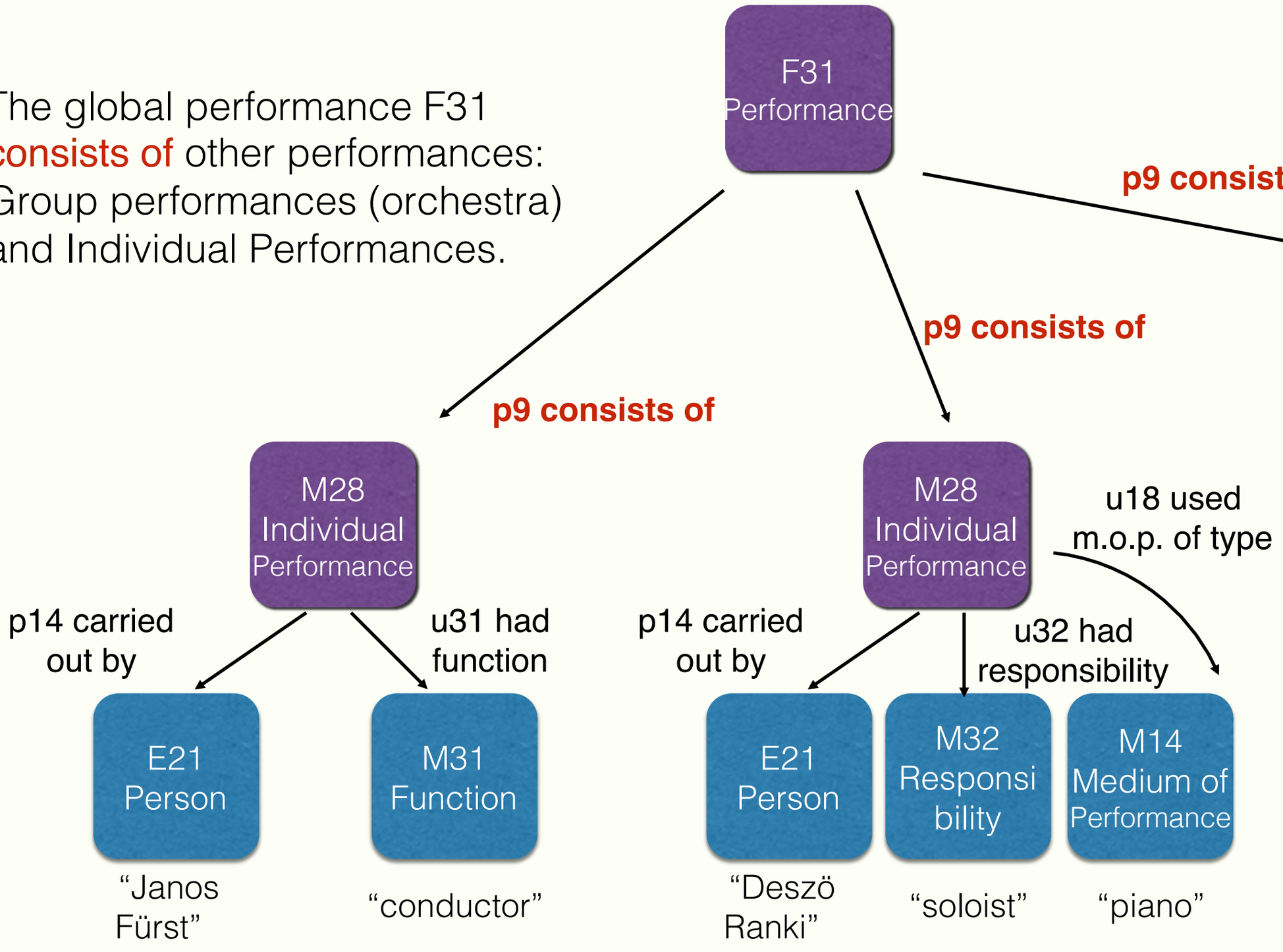
DESCRIBING A PERFORMANCE



The global performance F31 forms part of another activity (a series of concerts with a common theme : “Face au pouvoir”).

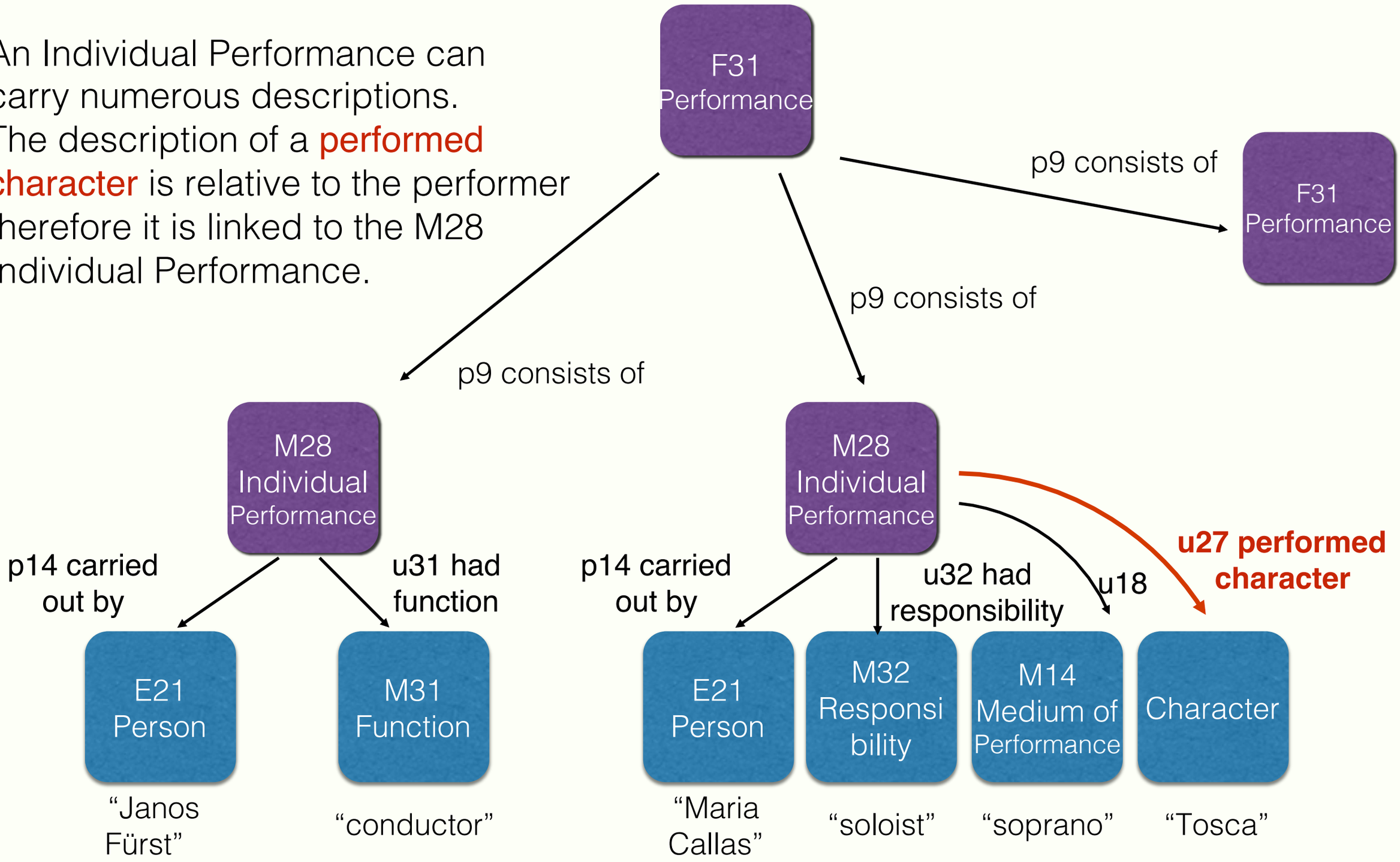
DESCRIBING A PERFORMANCE

The global performance F31 consists of other performances: Group performances (orchestra) and Individual Performances.



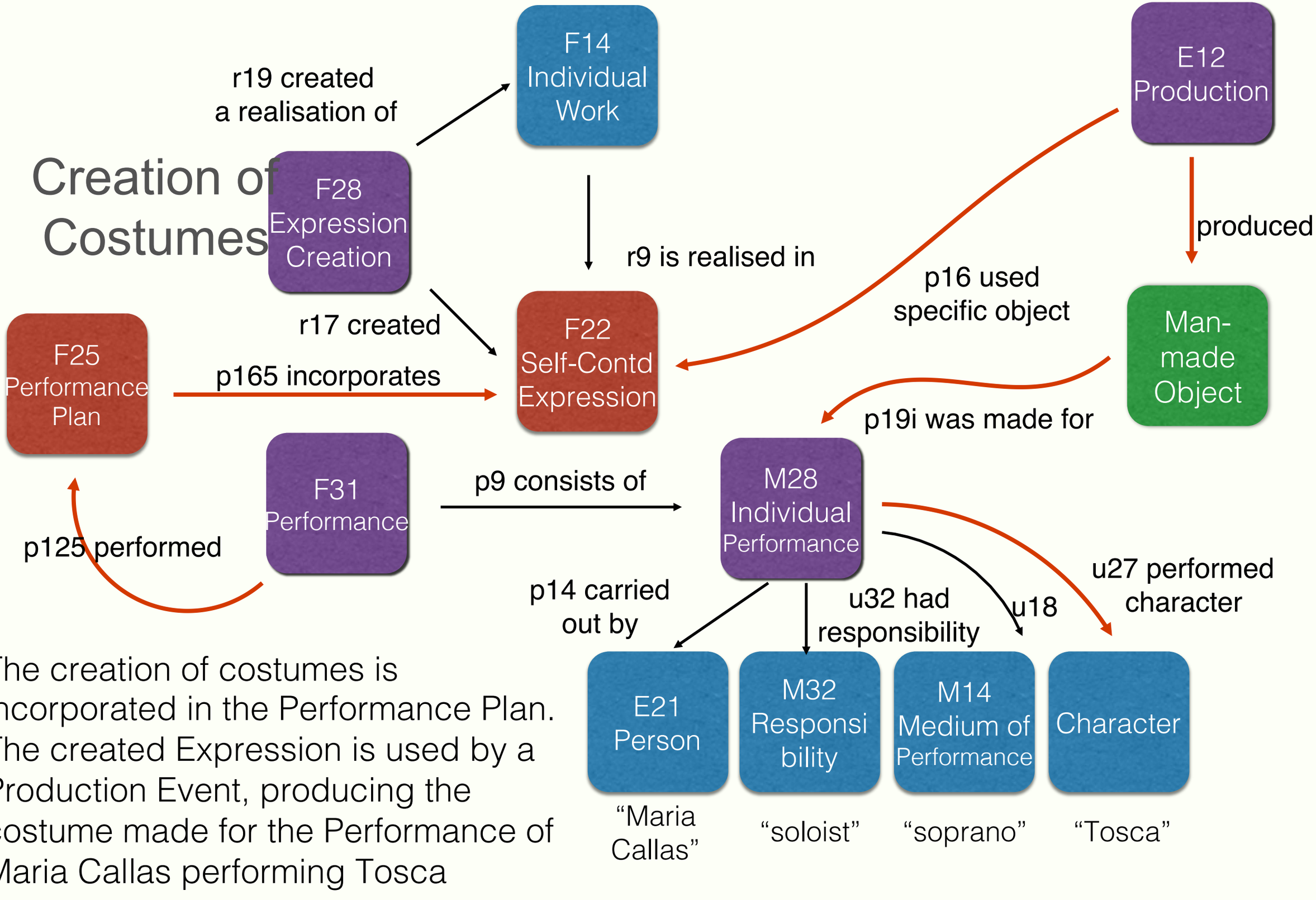
DESCRIBING A PERFORMANCE

An Individual Performance can carry numerous descriptions. The description of a performed character is relative to the performer therefore it is linked to the M28 Individual Performance.



USING AN OBJECT

Creation of Costumes



The creation of costumes is incorporated in the Performance Plan. The created Expression is used by a Production Event, producing the costume made for the Performance of Maria Callas performing Tosca

USING AN OBJECT

F31 Performance

p9 consists of

M28 Individual Performance

p16 used specific object

p14 carried out by

E21 Person

"Deszö Ranki"

M14 M.O.P

"pianoforte"

p2 has type

E22 Man-made Object

{http://xyz}

A performance may use a specific (unique) instrument, e.g. from the collection of a museum.
We may also want to describe the tuning of the instrument, through the activity M16 Maintenance.

u26 has maintained

M16 Maintenance

p14 carried out by

E21 Person

"Achille Dupond"

P2 has type

E55 Type

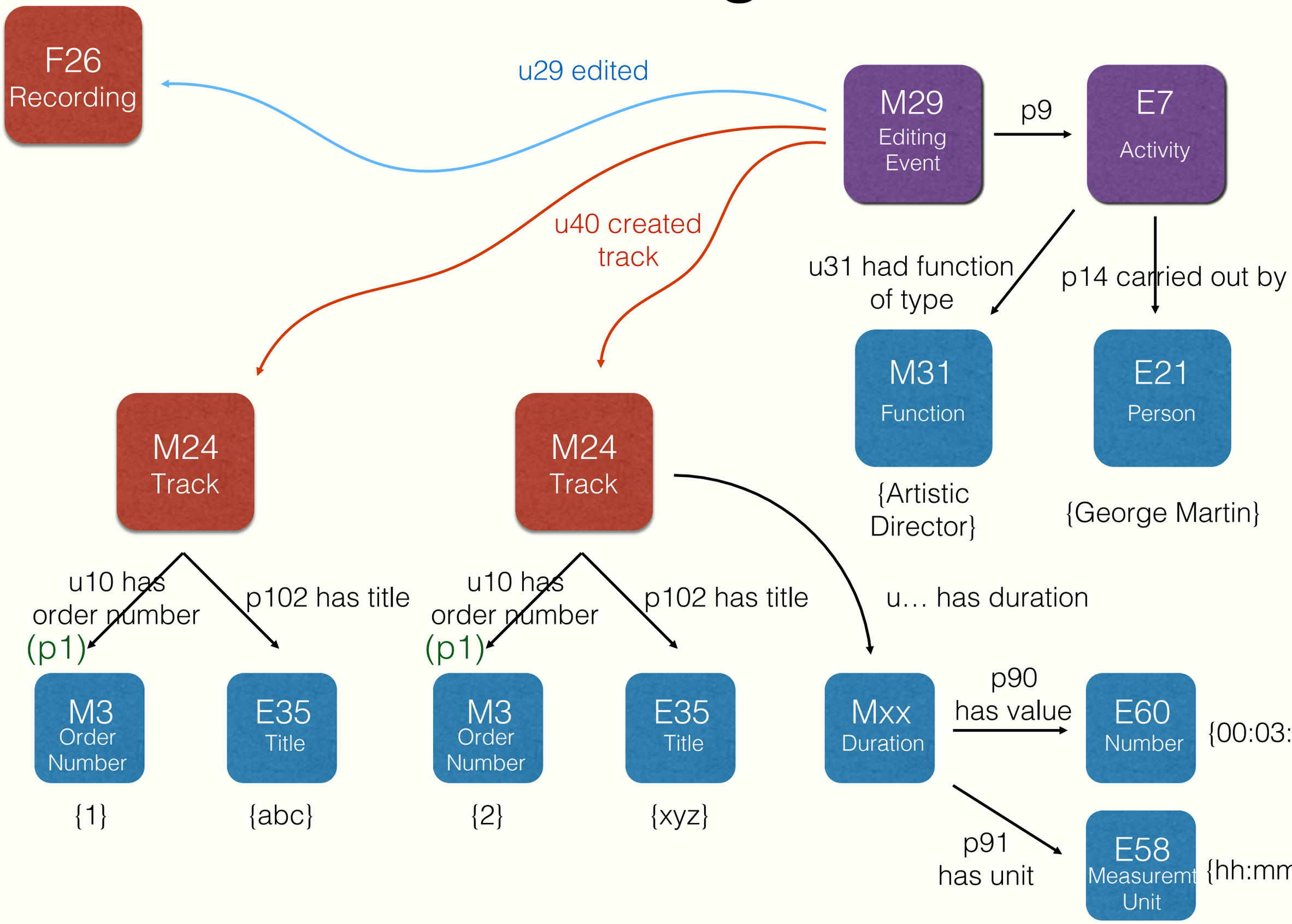
"tuning"

u31 had function of type

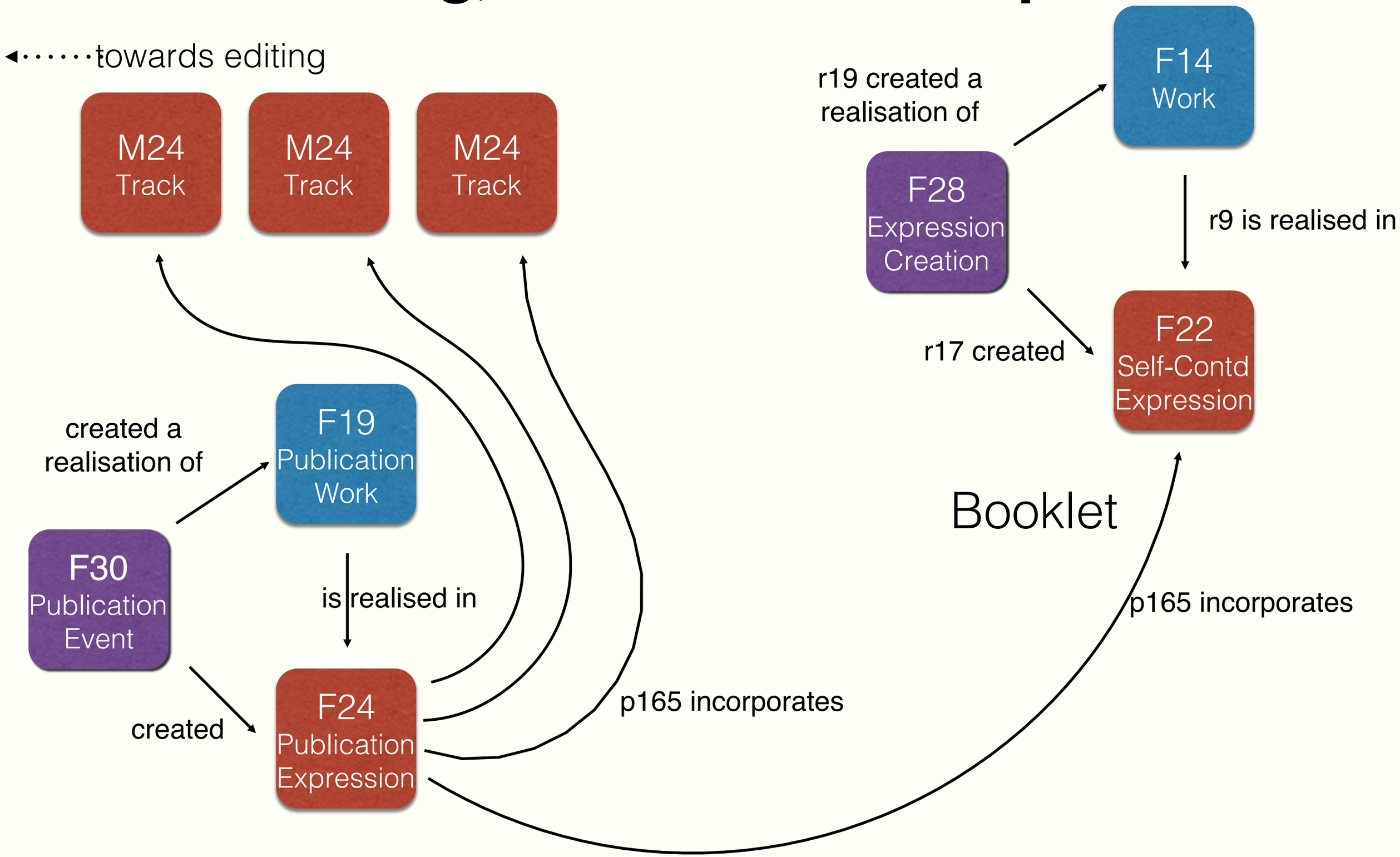
M31 Function

"tuner"

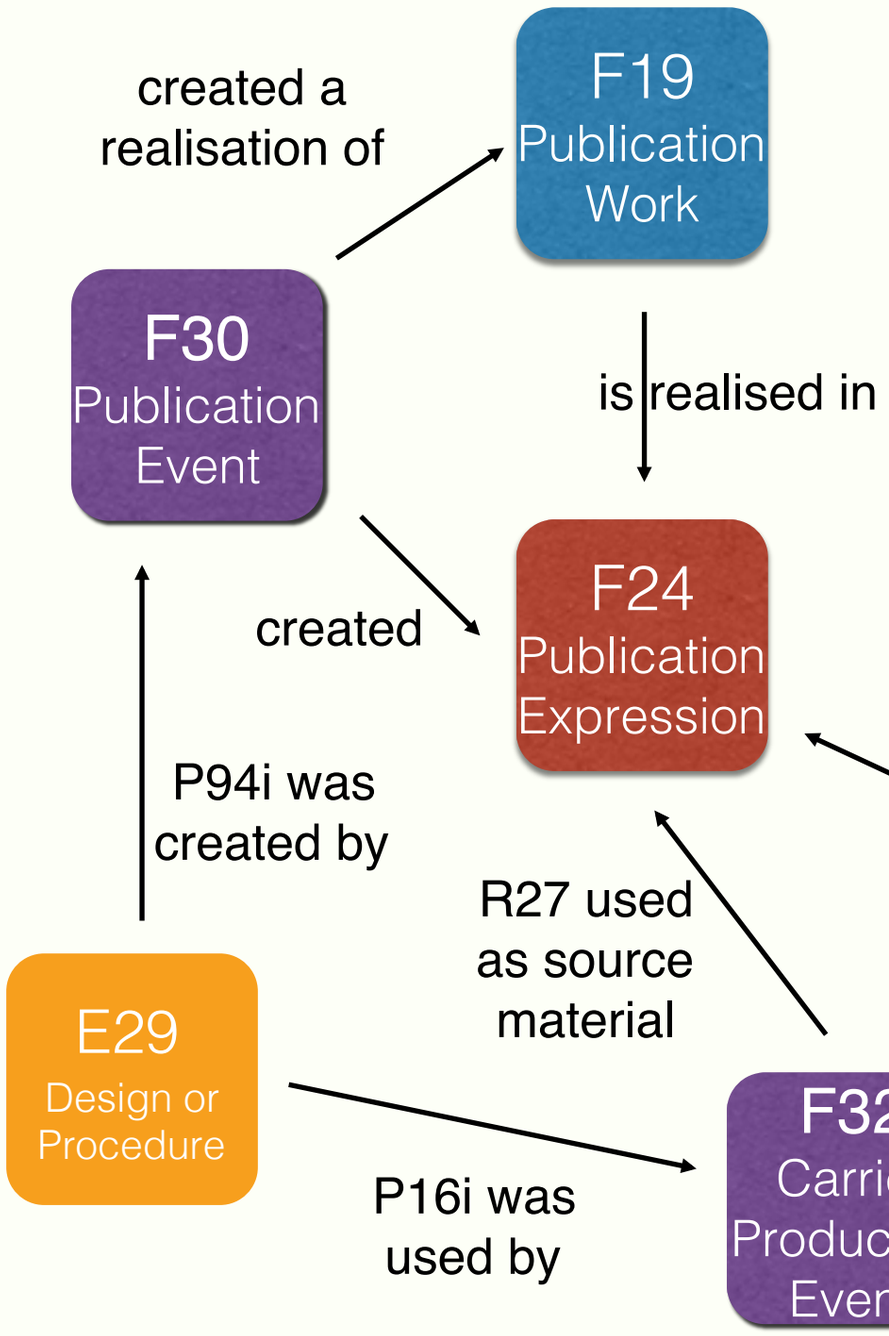
Editing


F26
Recording
u29 edited
M29
Editing
Event
p9
E7
Activity
u40 created
track
u31 had function
of type
p14 carried out by
M31
Function
E21
Person
{Artistic
Director}
{George Martin}
M24
Track
M24
Track
u10 has
order number
(p1)
p102 has title
u10 has
order number
(p1)
p102 has title
u… has duration
M3
Order
Number
E35
Title
M3
Order
Number
E35
Title
Mxx
Duration
p90
has value
E60
Number
{00:03:20}
{1}
{abc}
{2}
{xyz}
p91
has unit
E58
Measuremt
Unit
{hh:mm:ss}

Publishing, 1: Publication expression



Publishing, 2 : Item



The item is produced by a production activity: **F32 Carrier Production Event**.

This activity uses the F24 Publication Expression, (i.e. a set of signs provide by the publisher, to be carried by all the produced items).

The F30 Publication Event created not only the Publication Expression, but also a procedure, used by the F32 Carrier Production Event