



DOREMUS & FRBRoo

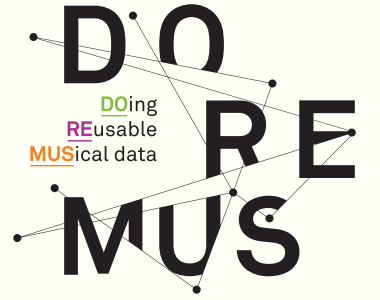
An update on DOREMUS today
and an opinion on the future of FRBRoo

<http://www.doremus.org>



CRM SIG meeting
Berlin, December 2016

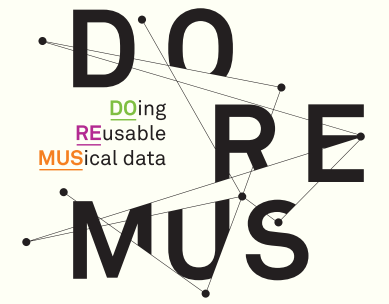
DOREMUS, a short intro



- 3-year research project
- 3 cultural heritage institutions + labs
- Enriching catalogues, publishing as LOD
- Creating a model, controlled vocabularies, tools

Concentrating on complex musics, which other models cannot describe (Music Ontology)

DOREMUS, a short intro



Links :

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

<http://library.ifla.org/1322/>

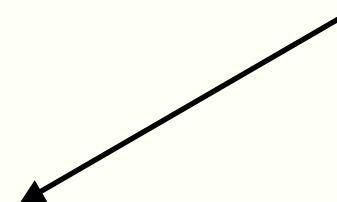
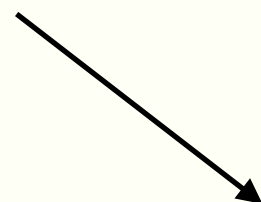
<https://github.com/DOREMUS-ANR>

The DOREMUS model



CIDOC-CRM
(musées)

FRBR
(bibliothèques)

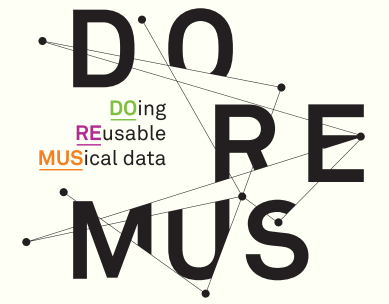


FRBRoo

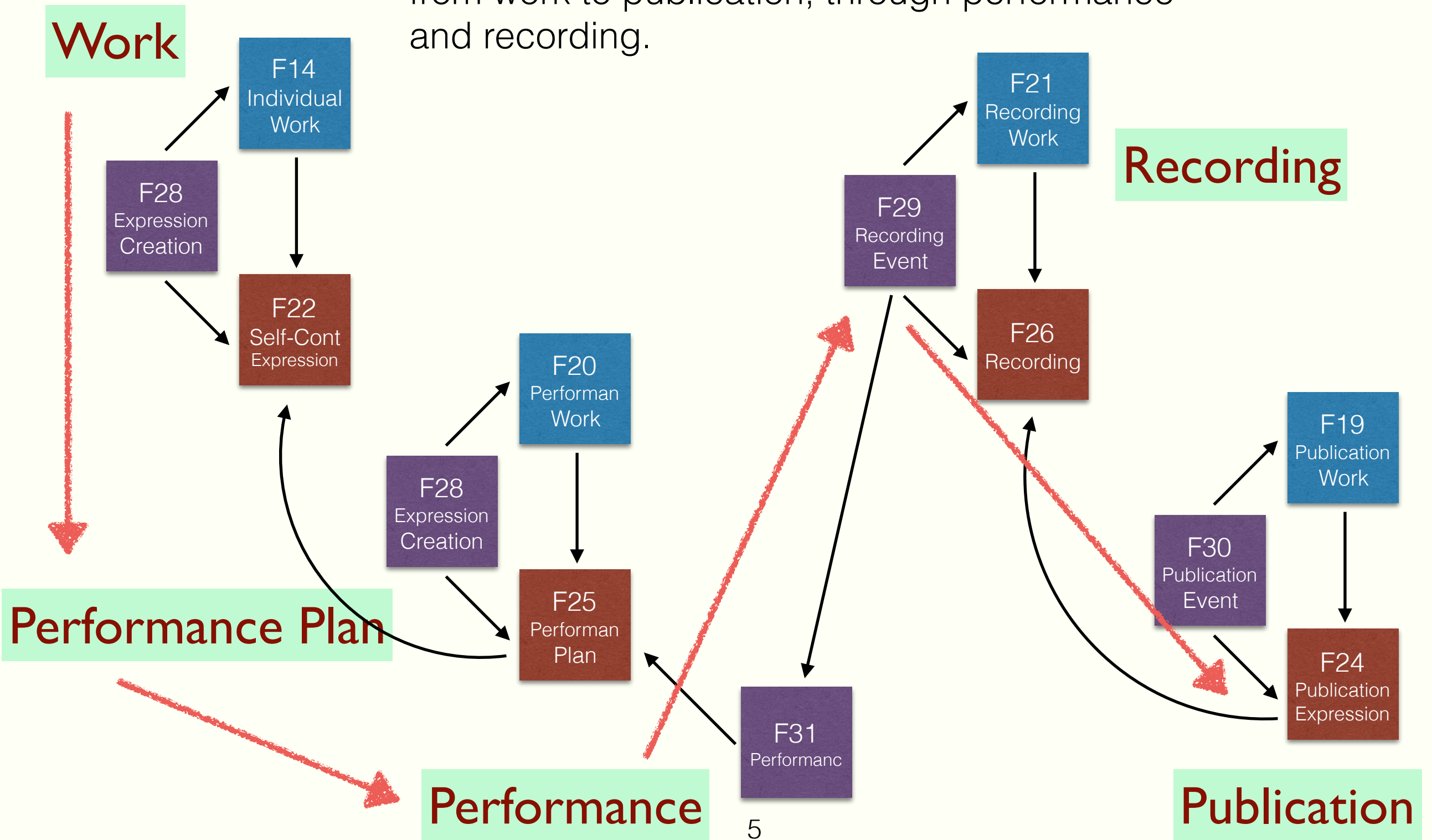


DOREMUS

The DOREMUS model



A simplified representation of a FRBRoo process from work to publication, through performance and recording.



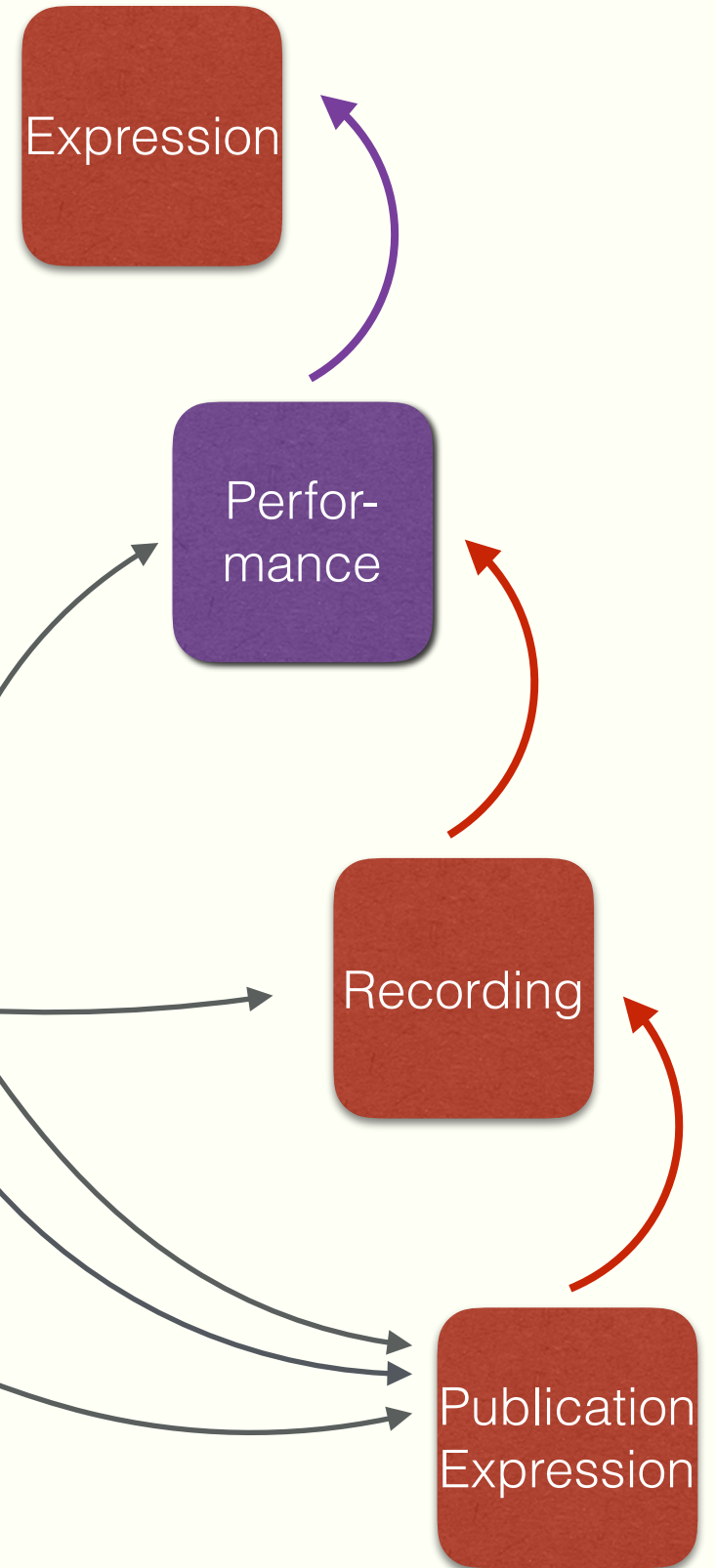
The DOREMUS model

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 \$a 2536554 \$c Boite \$d PM 451
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 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 \$b Sonate n °14, op 27 "Clair de lune" \$b Sonate n °23, op 57 "Appassionata" \$f Beethoven \$j 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 \$a Londres \$d 19660900
 323 .. \$a Notice / Roubinet, Michel
 640 1. \$a 10909 \$b 10900
 700 .. \$3 [13891295](#) \$w .0..b..... \$a Beethoven \$m Ludwig van \$d 1770-1827 \$2 01 \$4 0220
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 701 .. \$3 [13891158](#) \$w 0 b \$a Barenboim \$m Daniel \$d 1942-.... \$4 1560
 723 .. \$3 [13936485](#) \$w b \$a EMI classics
 730 .. \$3 [13889559](#) \$w 0 b \$a EMI music France \$4 3250
 731 .. \$3 [13889559](#) \$w 0 b \$a EMI music France \$4 3210
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 744 .. \$3 [13908223](#) \$w ...b.fre. \$a Sonates \$b Piano \$p Op. 57 \$t Fa mineur \$2 01
 744 .. \$3 [13908188](#) \$w ...b.fre. \$a Sonates \$b Piano \$p Op. 27, no 2 \$t Do dièse mineur \$2 02
 748 .. \$a Sonate n °14, op 27 "Clair de lune"
 748 .. \$a Sonate n °23, op 57 "Appassionata"
 917 .. \$o OPC \$a 003574320



The DOREMUS model

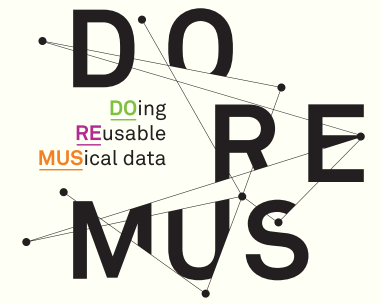


Created 45 classes, 65 properties
More coming with Manifestation modelling

Validation by IFLA in 2017 ?

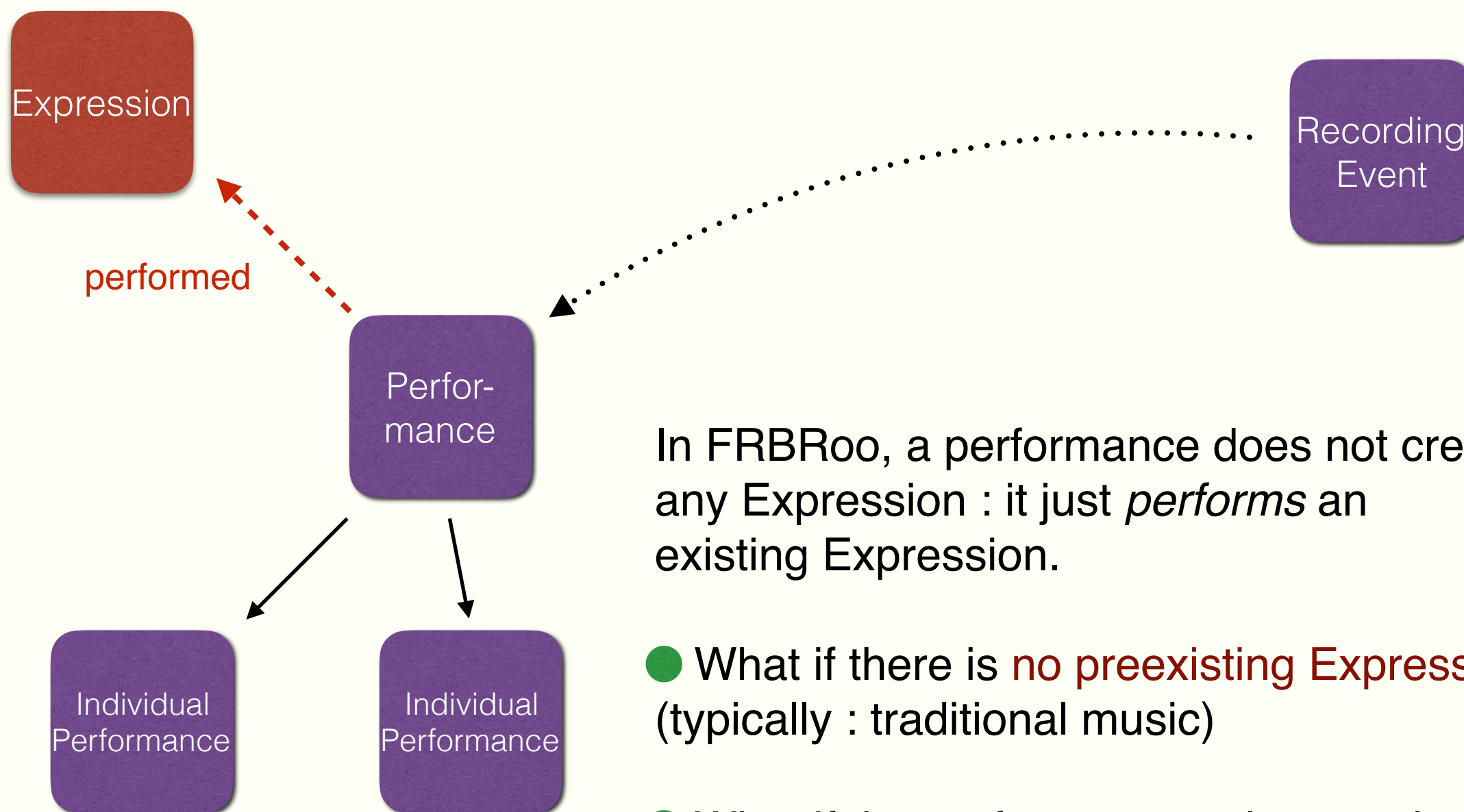
Future : a core model + modules

The DOREMUS model



- Performed Expressions
- Expressions, not Works
- Properties rather than Classes

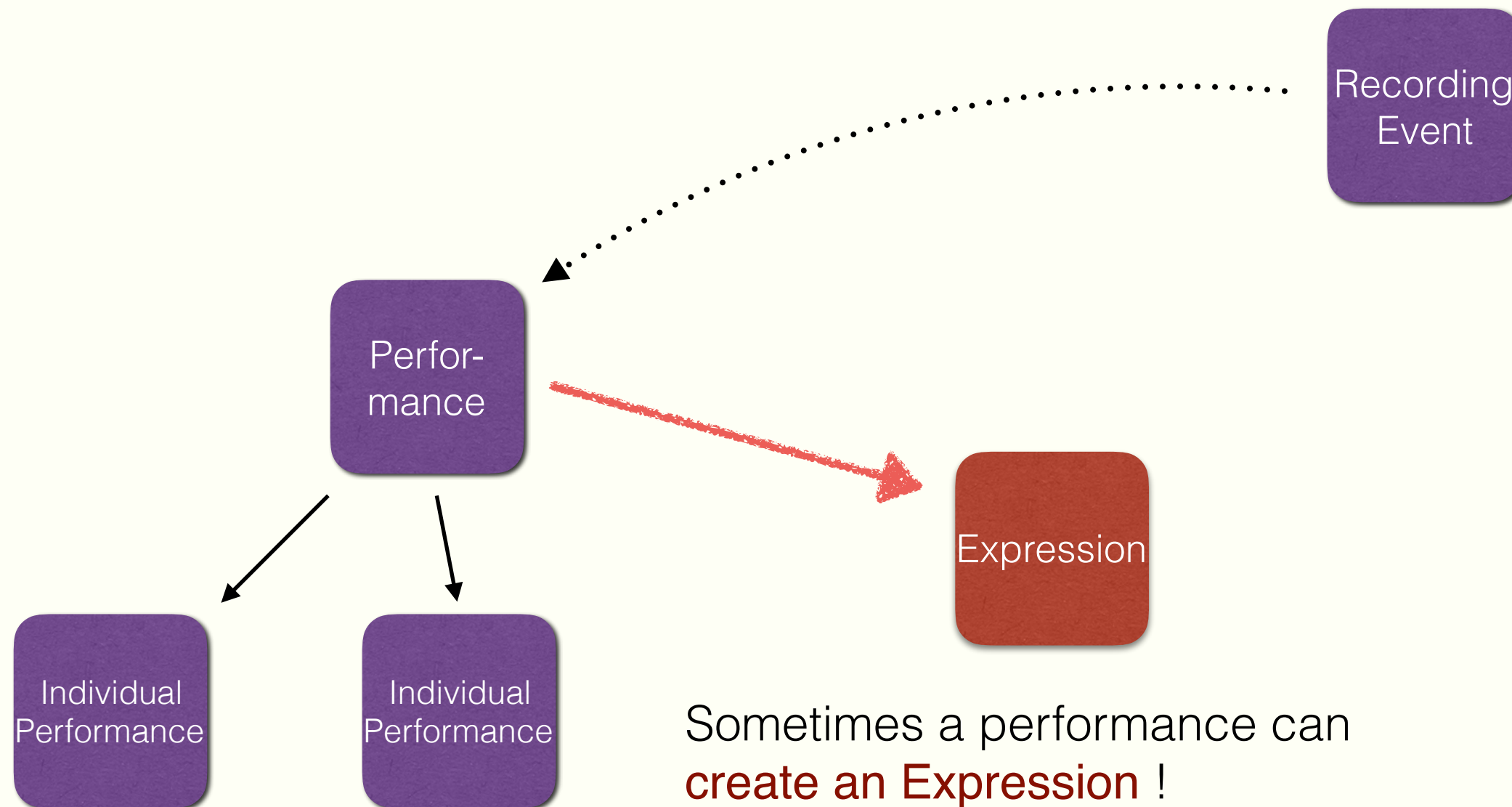
The performance in FRBRoo



In FRBRoo, a performance does not create any Expression : it just *performs* an existing Expression.

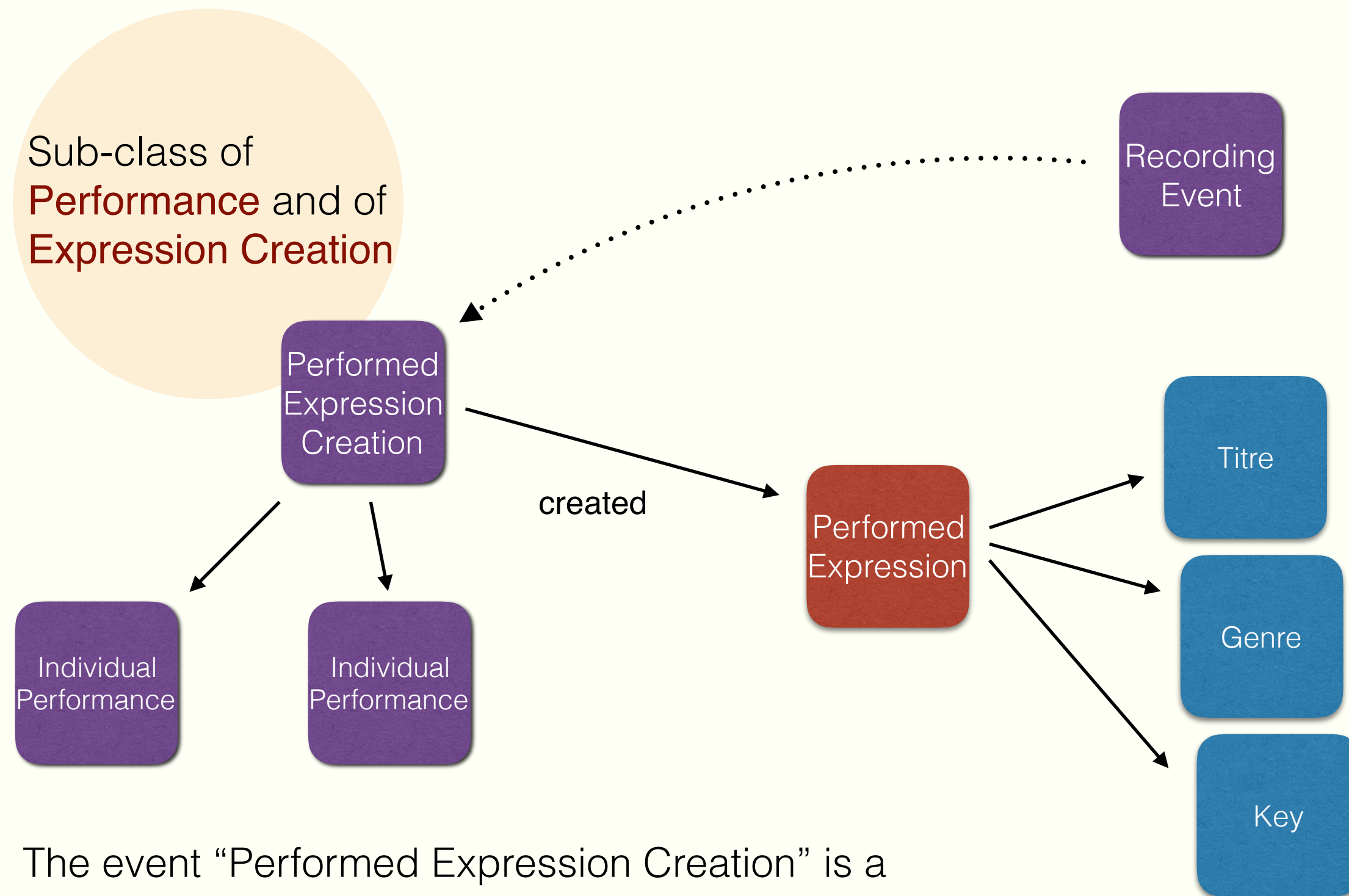
- What if there is **no preexisting Expression** ? (typically : traditional music)
- What if the performance only uses the Expression as a **material for a new creation** ? (typically : jazz music)

The performance in FRBRoo



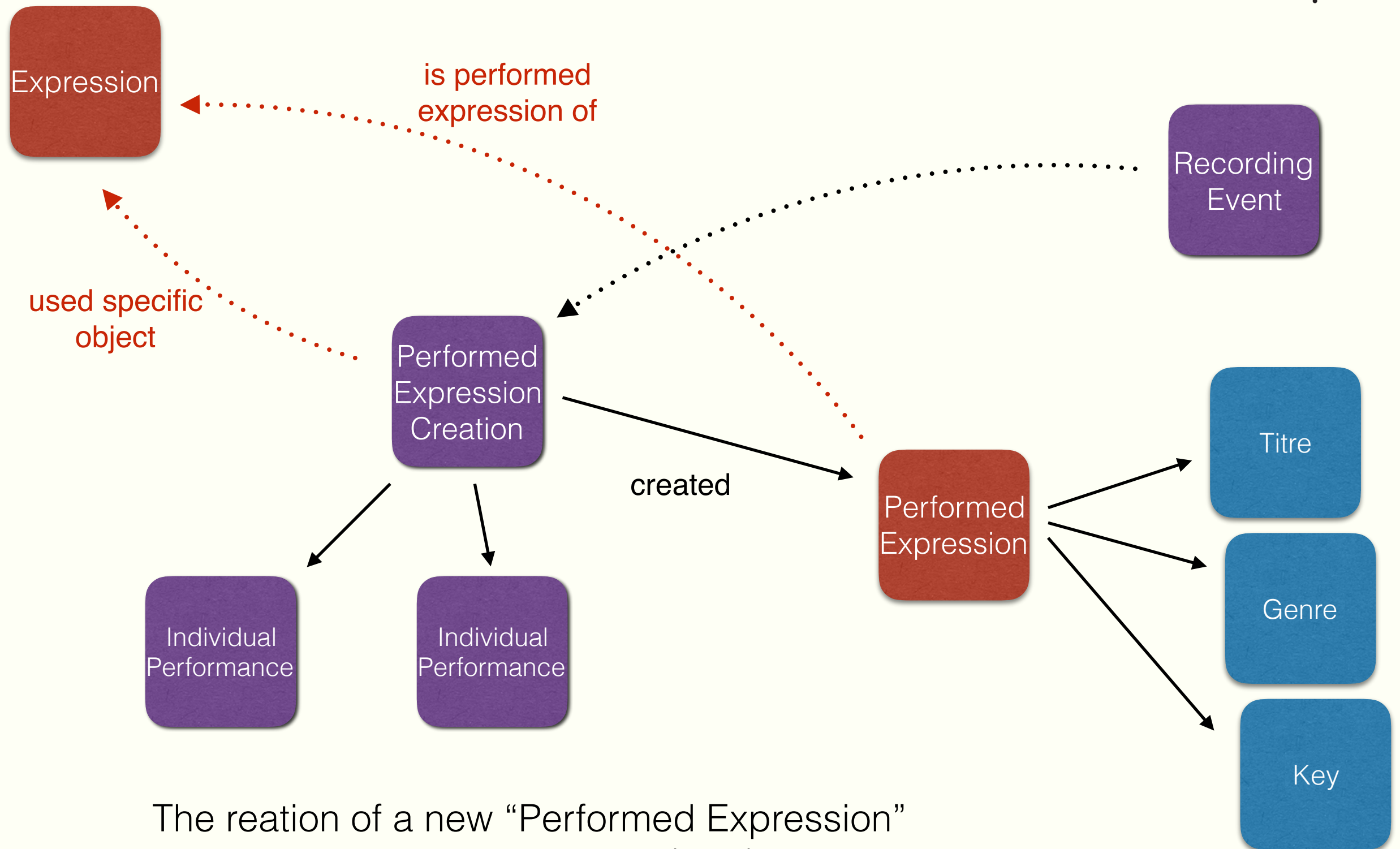
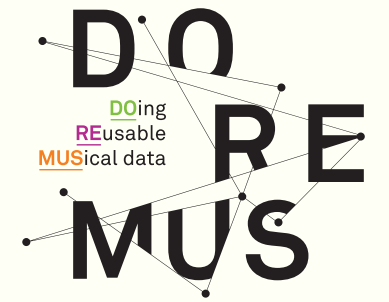
Sometimes a performance can **create an Expression** !
We want to be able to describe the result of the Performance.

The performance in FRBRoo



The event "Performed Expression Creation" is a performance creating a "Performed Expression".

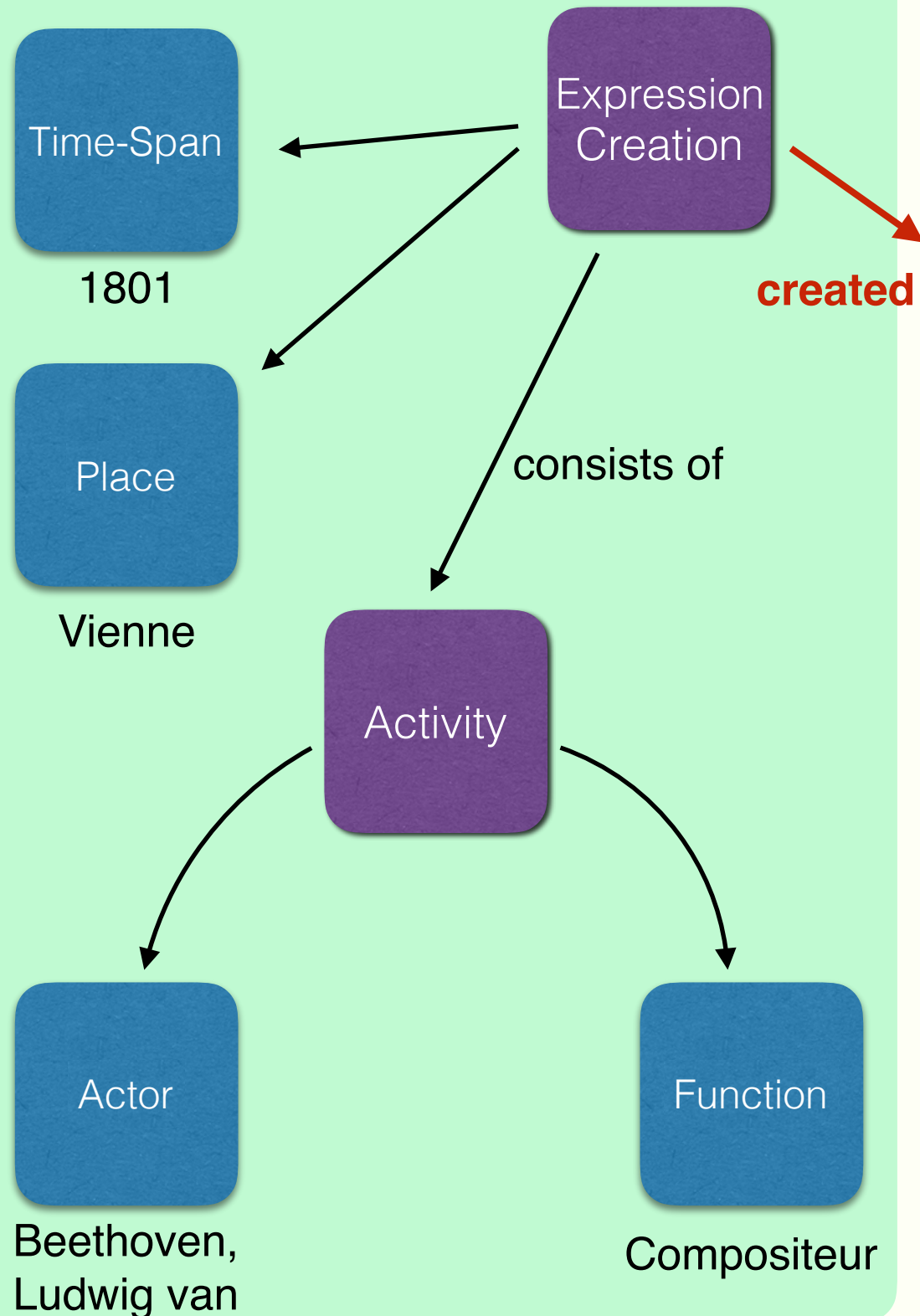
The performance in FRBRoo



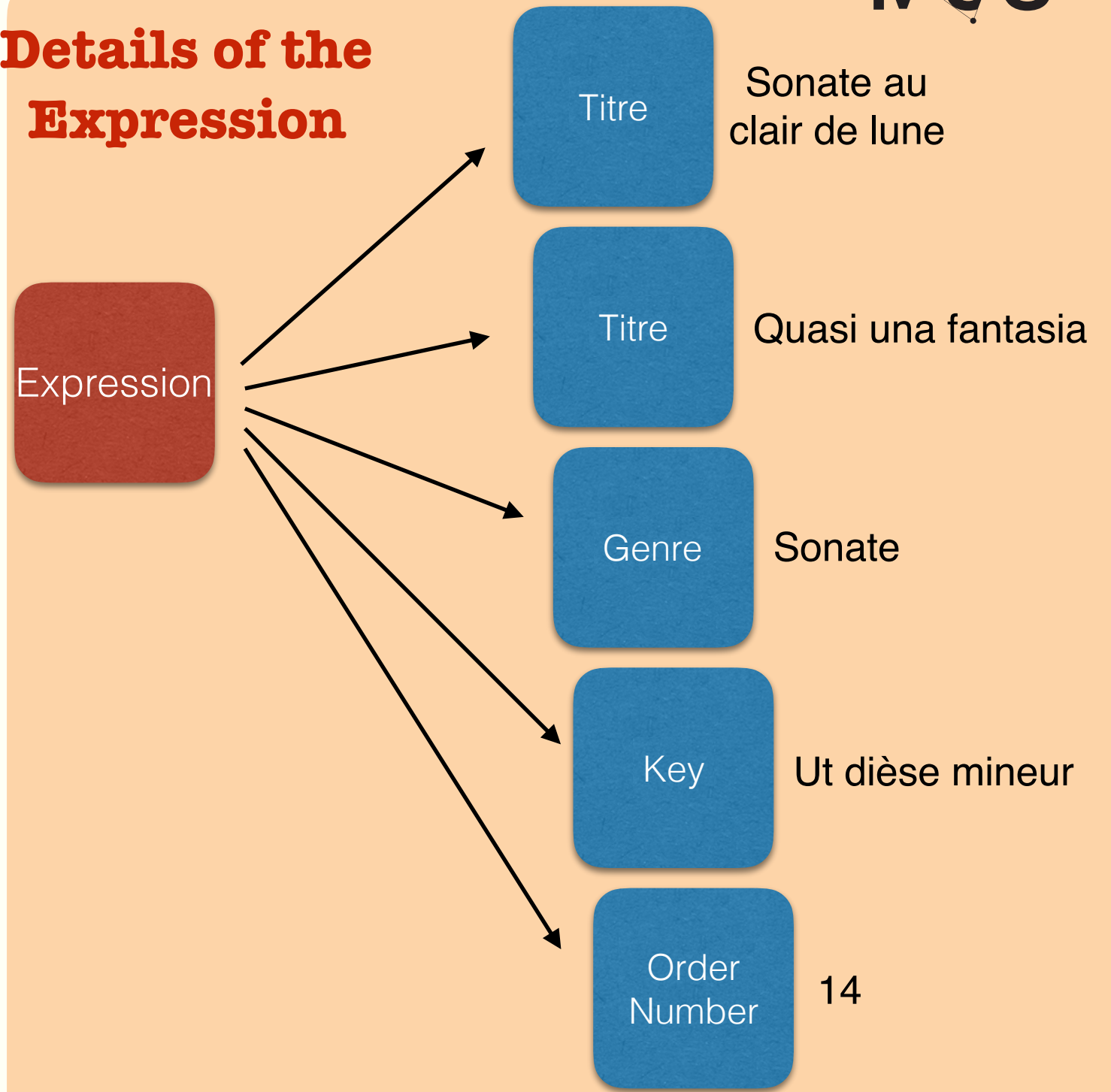
The relation of a new "Performed Expression" can **use a preexisting material** (jazz).

Using Expressions, not Works

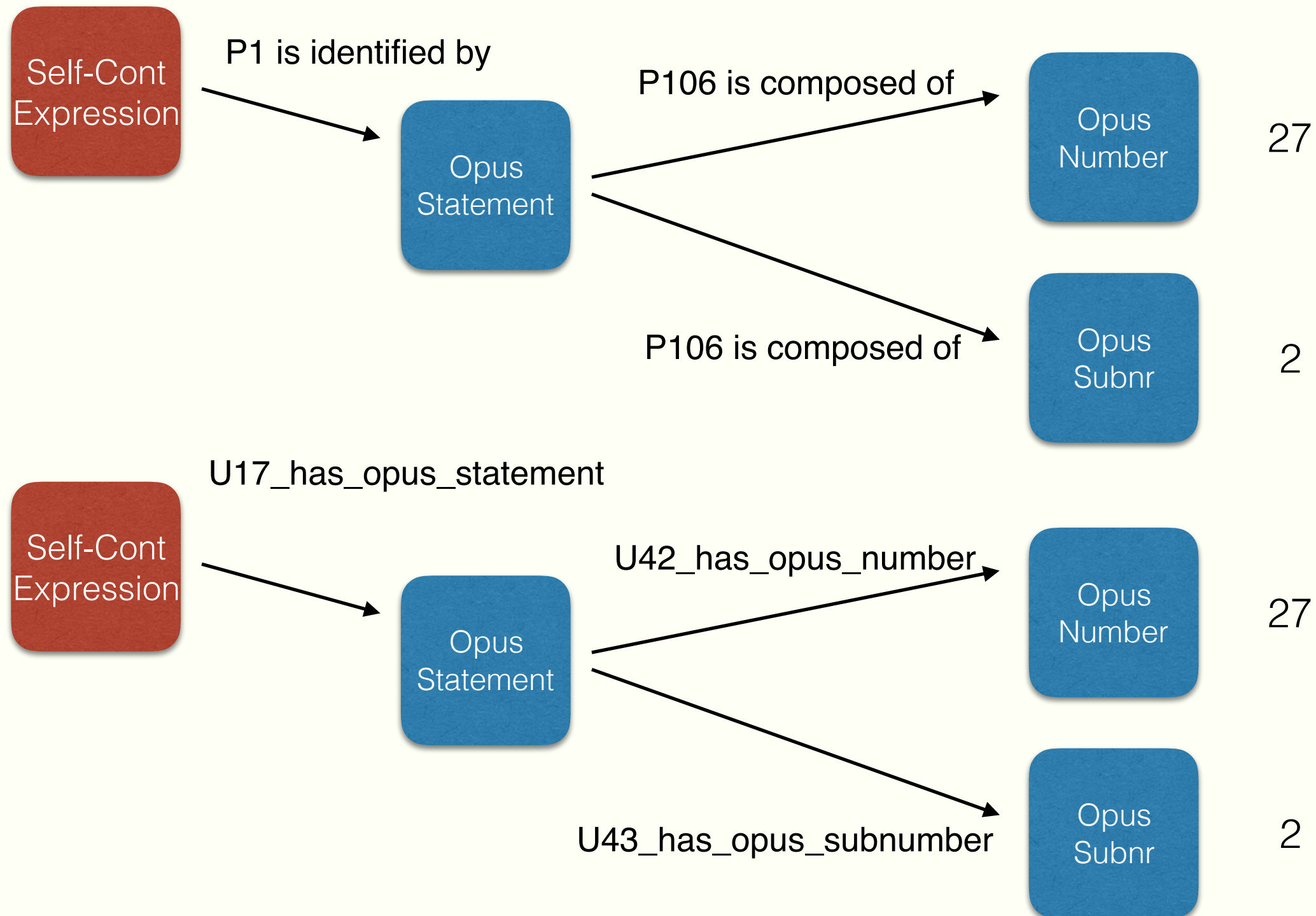
Creation Event



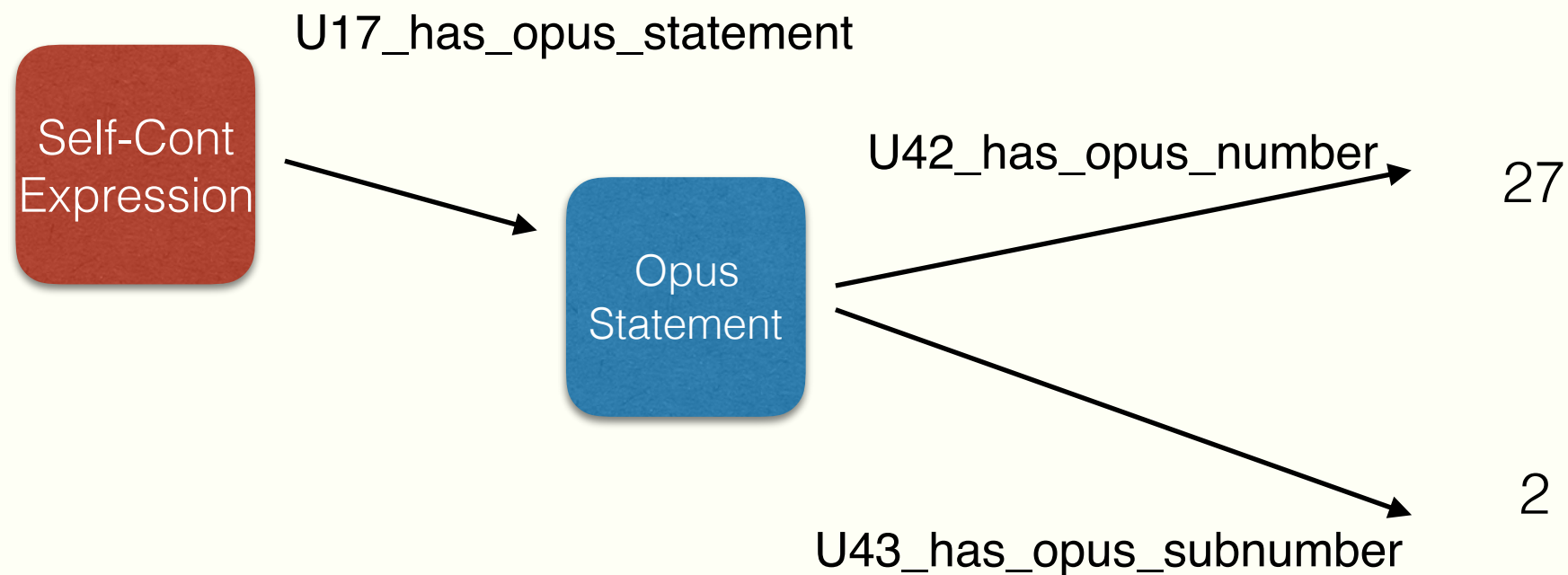
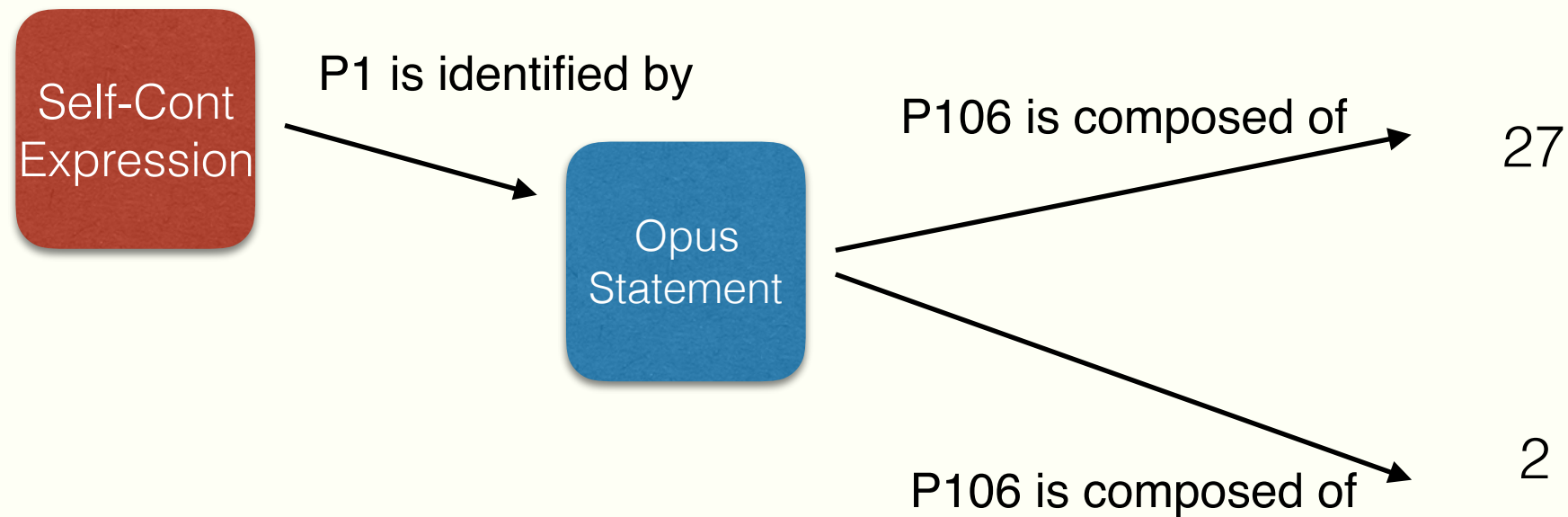
Details of the Expression



Using Properties, rather than Classes



Using Properties, rather than Classes



FRBRoo, a feedback

- Need for learning tools
- Library-oriented
- Difficult for FRBRians
- Confusion created by FRBRer
- Graphic representation misleading
- Some confusing concepts in FRBRoo
- LRM-izing Works ?

FRBRoo, a feedback

Need for learning tools

Need for some “primer”, or **FRBRoo 101**.
We cannot immerse newcomers in FRBRoo
like lobsters in boiling water !



FRBRoo, a feedback

Need for learning tools

We also need **deep-dive material** on non-obvious modelling solutions.

e.g. how do we model aggregations ?



FRBRoo, a feedback

A library-oriented model

CRM is very high-level

FRBRoo is more library-oriented

Not all potential users are libraries

Some very specific concepts could be part of a separate module

FRBRoo, a feedback

Difficult for FRBRians ?

FRBRoo is not a translation of FRBRer
Some concepts are *interpreted* differently
Some are *developped*, e.g. Manifestion is
represented in F3 Manifestation Product Type
and in F24 Publication Expression.

FRBRoo, a feedback

Reproducing the FRBRer confusion ?

FRBRer created some confusion, especially as concerns the notion of Work.
This confusion can be found also in FRBRoo.

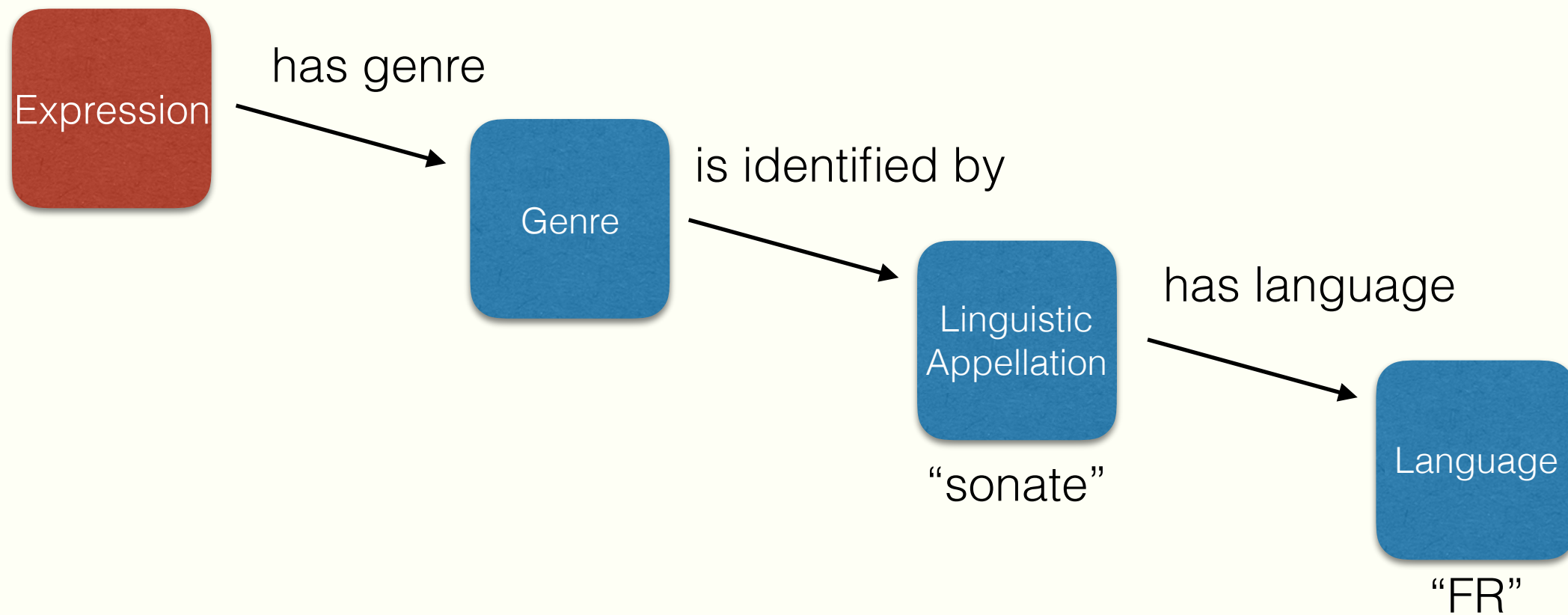
FRBRoo, a feedback

Graphic representation misleading ?

When people say FRBRoo is complex, they often refer to what they understood from the graphical representation of the model.

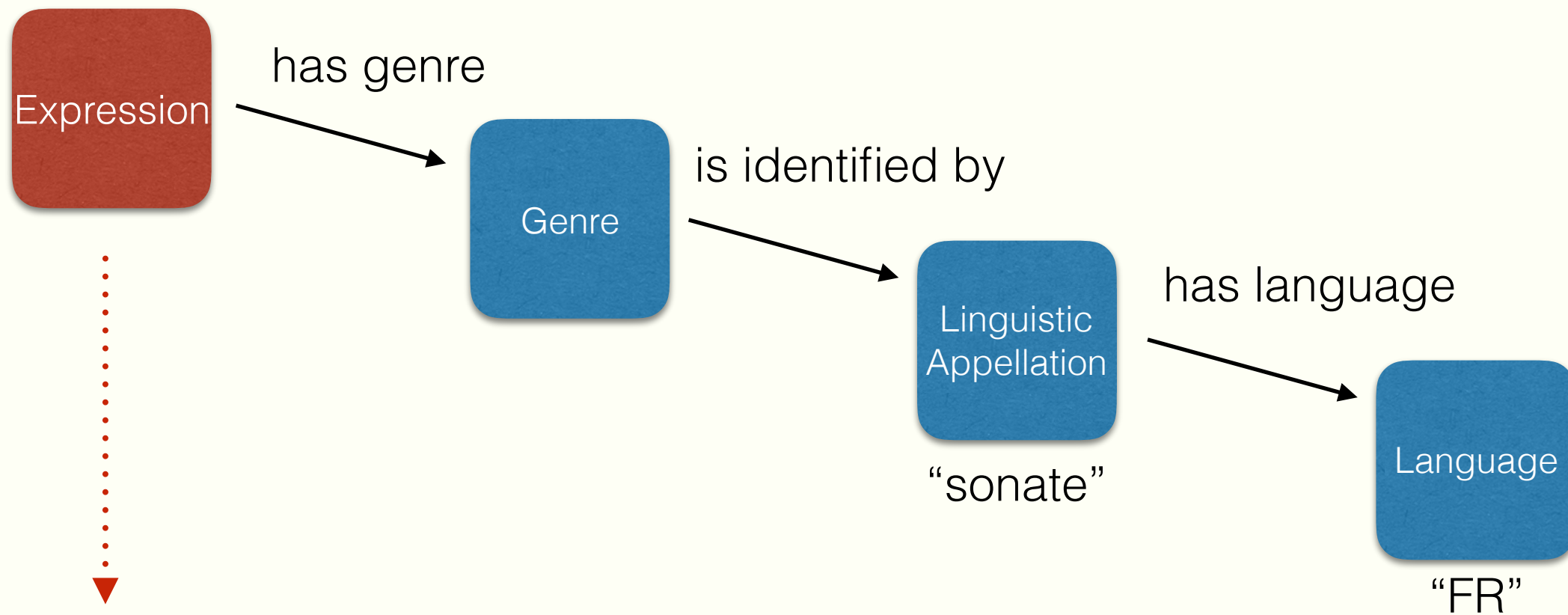
FRBRoo, a feedback

Graphic representation misleading ?



FRBROO, a feedback

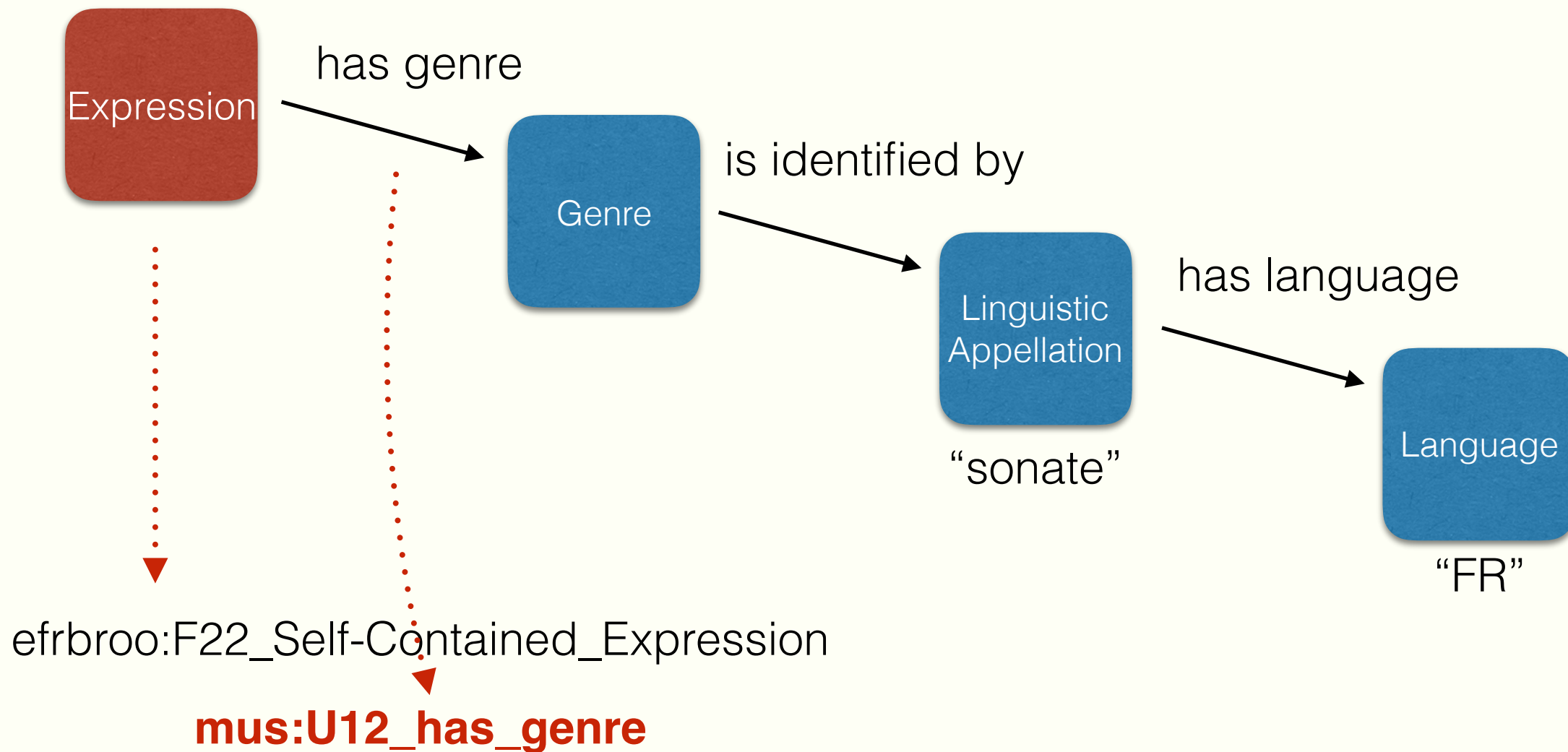
Graphic representation misleading ?



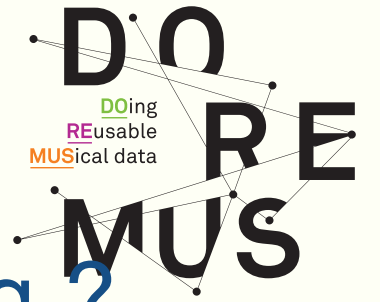
efrbroo:F22_Self-Contained_Expression

FRBRoo, a feedback

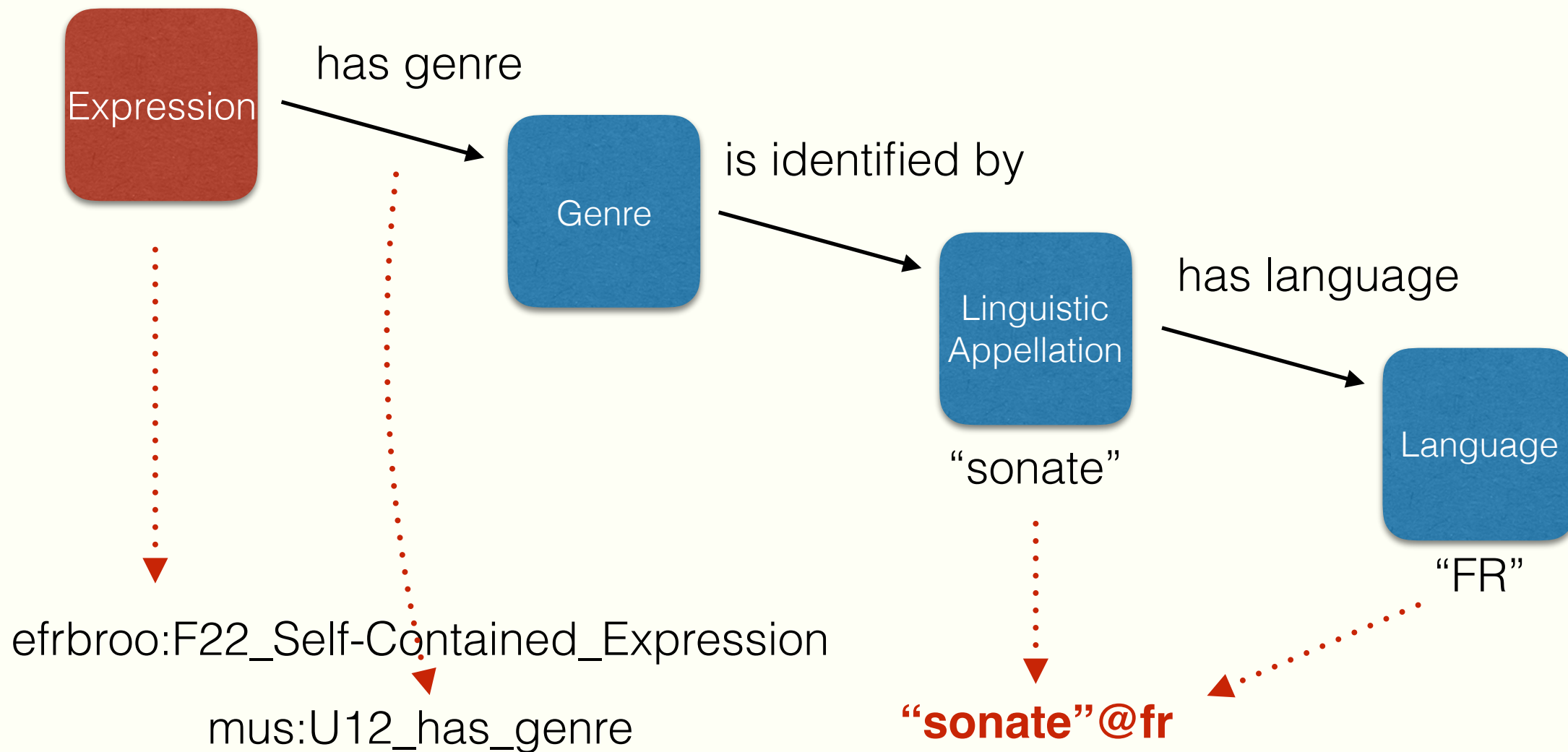
Graphic representation misleading ?



FRBRoo, a feedback

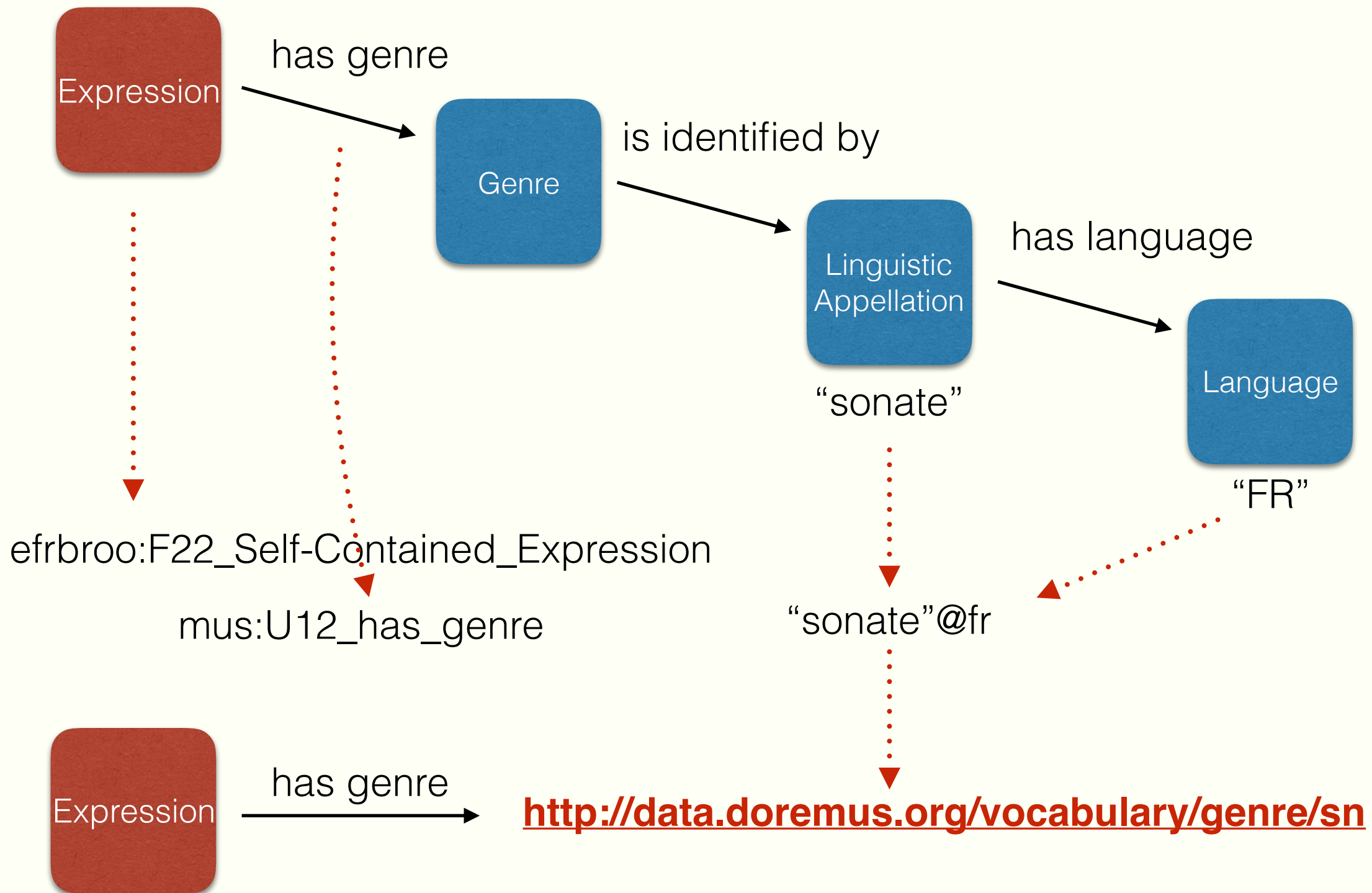


Graphic representation misleading ?



FRBRoo, a feedback

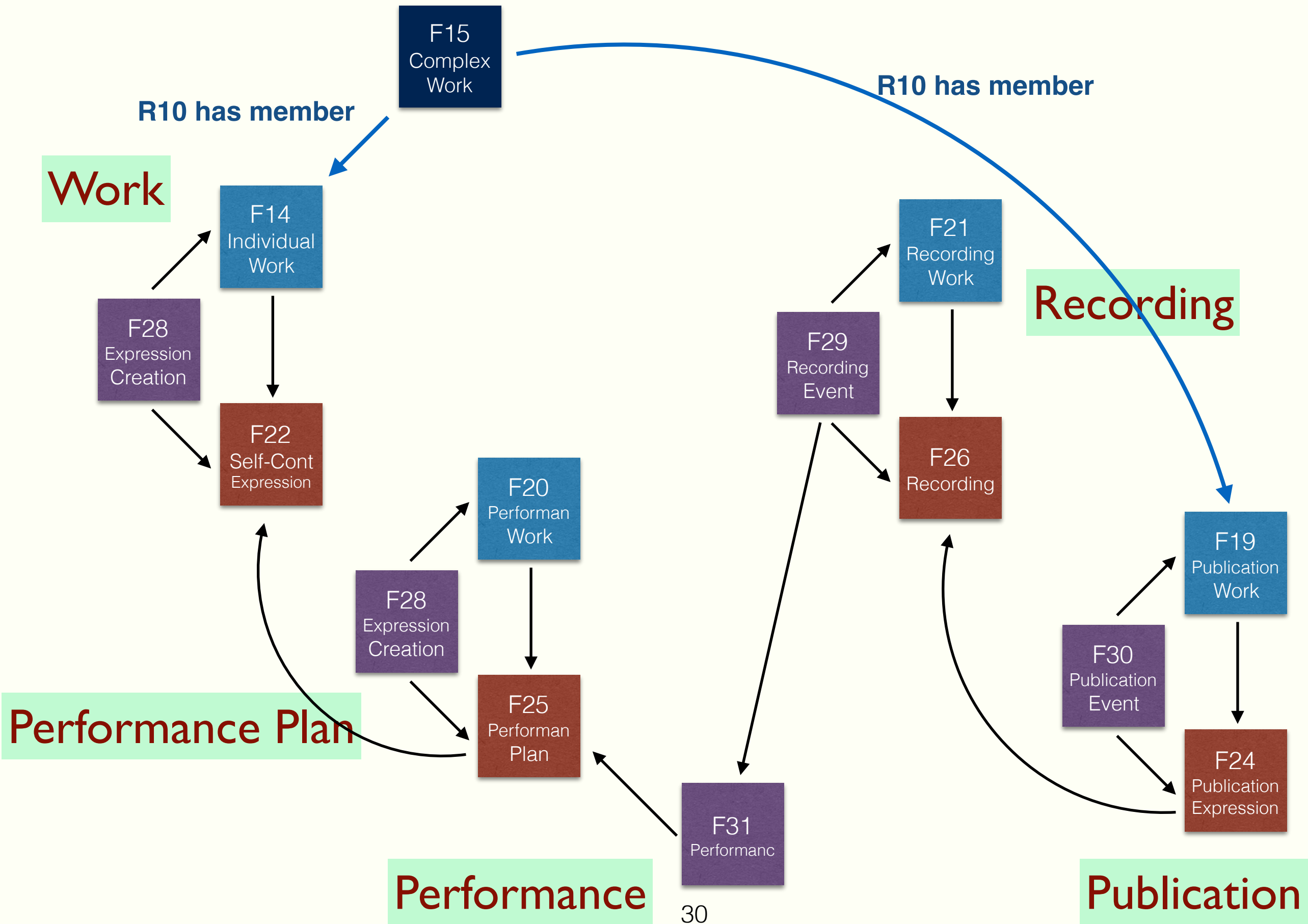
Graphic representation misleading ?

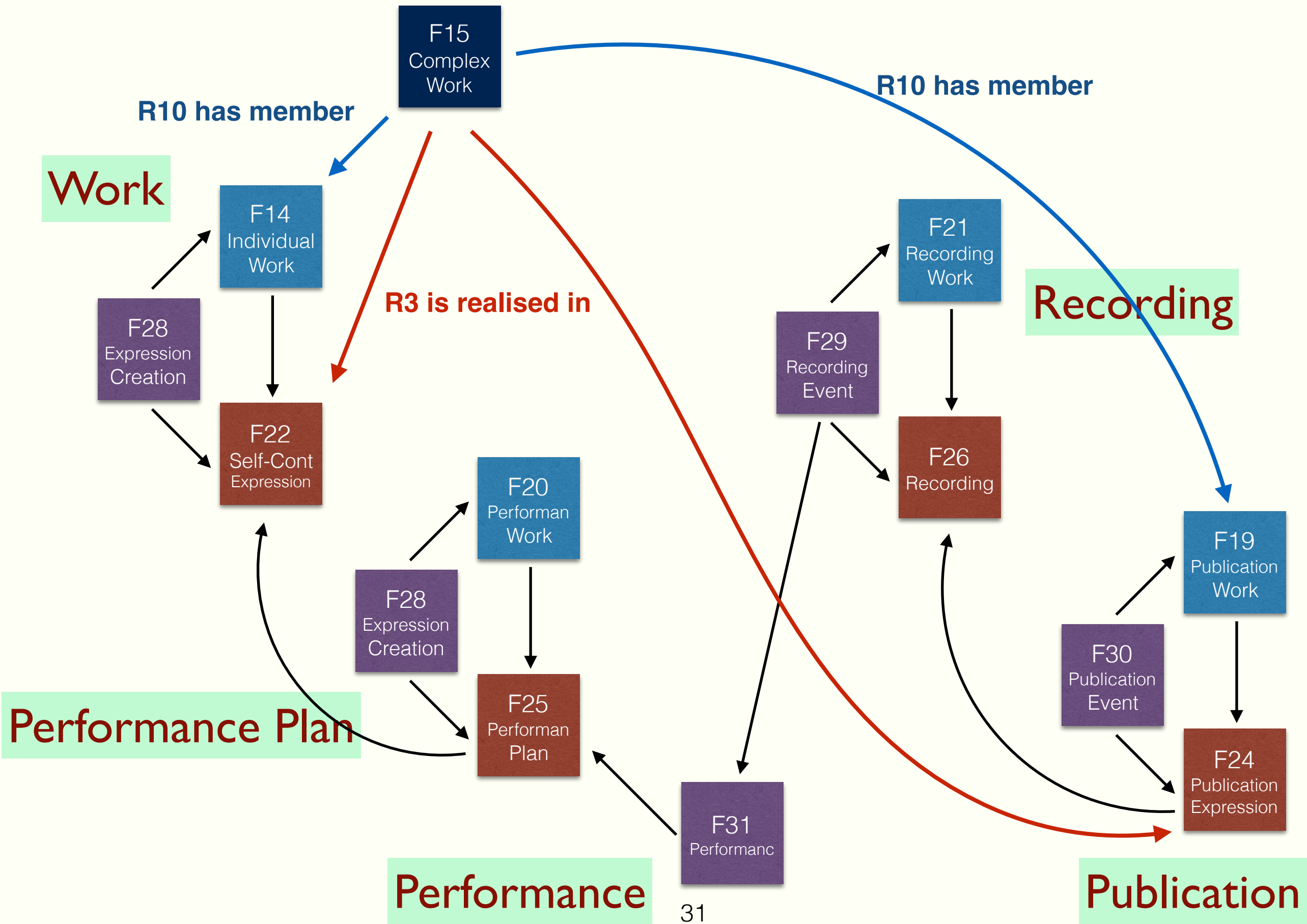


FRBRoo, a feedback

LRM-izing FRBRoo ?

Probably the greatest source of confusion in FRBR and consequently in FRBRoo is the concept of **Work**.





Do we need Works ?

What is a Work anyhow?

LRM-E2 : “A Work is an abstract entity that permits the **identification** of the **commonality of content** between and among various Expressions”.

LRM-E2 : “A Work comes into existence simultaneously with the creation of its first Expression, **no Work can exist without there being at least one Expression** of the Work”.

LRM-E2 : “**User needs are the basis** for determining whether instances of Expressions are considered to belong to the same instance of Work”.

Do we need Works ?

Works in FRBR-LRM and FRBRoo

FRBRoo :

F1 Work

F14 Individual Work

F15 Complex Work

F16 Container Work

F17 Aggregation Work

F18 Serial Work

F19 Publication Work

F20 Performance Work

F21 Recording Work

Do we need Works ?

Works in FRBR-LRM and FRBRoo

FRBRoo :

F1 Work

F14 Individual Work

F15 Complex Work

F16 Container Work


F17 Aggregation Work

F18 Serial Work

F19 Publication Work

F20 Performance Work

F21 Recording Work



Linked to one
and only one
Expression

What “commonality of content”
does a Work identify when it is
linked to one and only one
Expression *by definition* ?

Do we need Works ?

Works in FRBR-LRM and FRBRoo

FRBRoo :

F1 Work

F14 Individual Work

F15 Complex Work

F16 Container Work

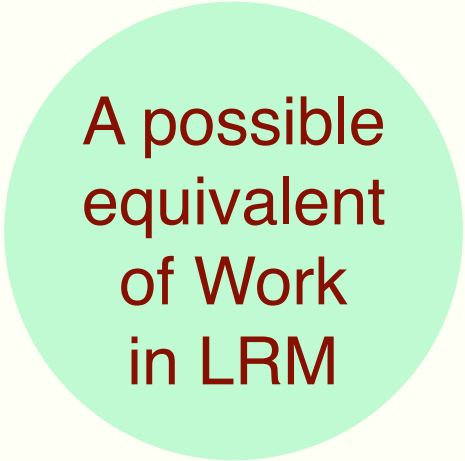
F17 Aggregation Work

F18 Serial Work

F19 Publication Work

F20 Performance Work

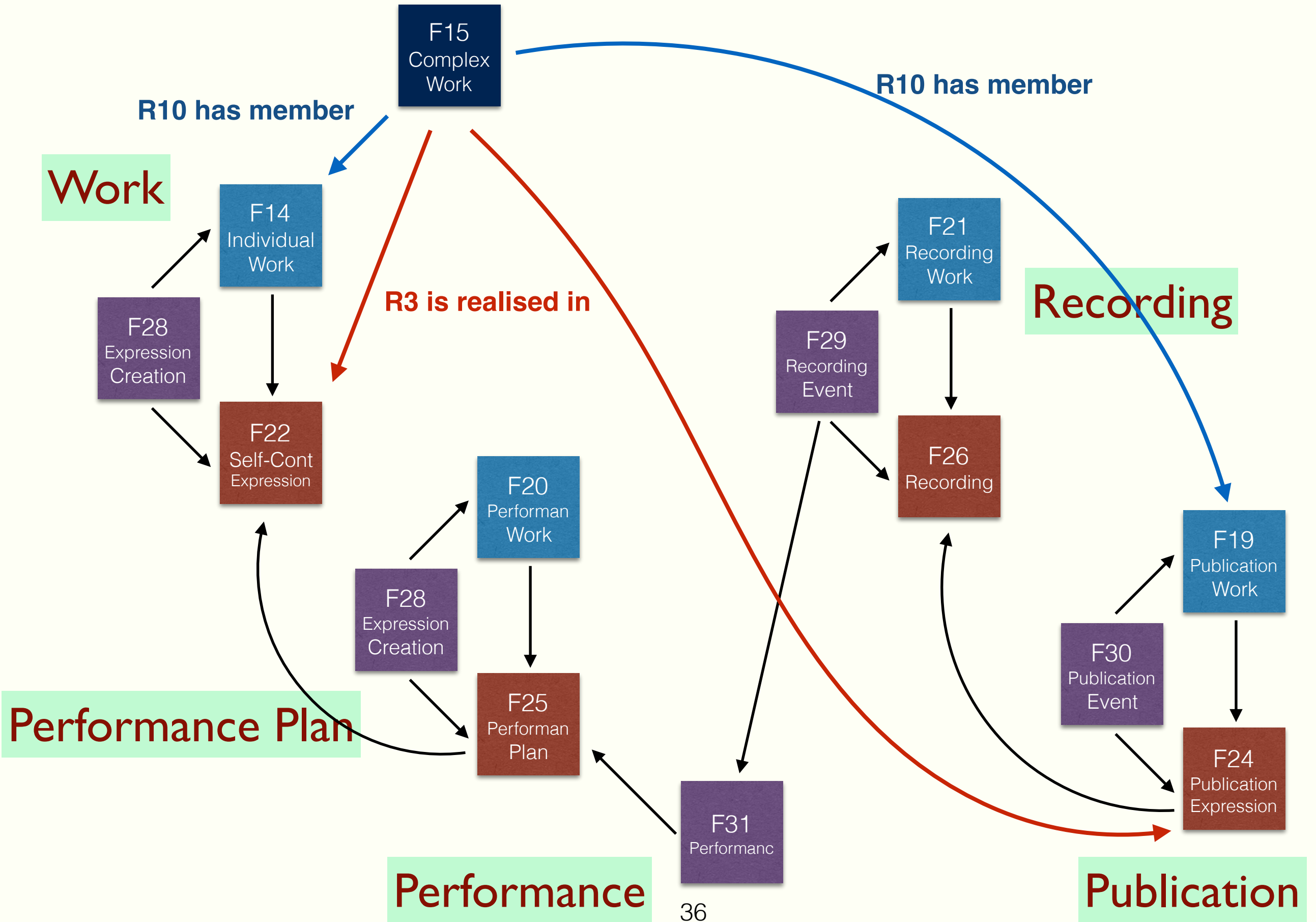
F21 Recording Work



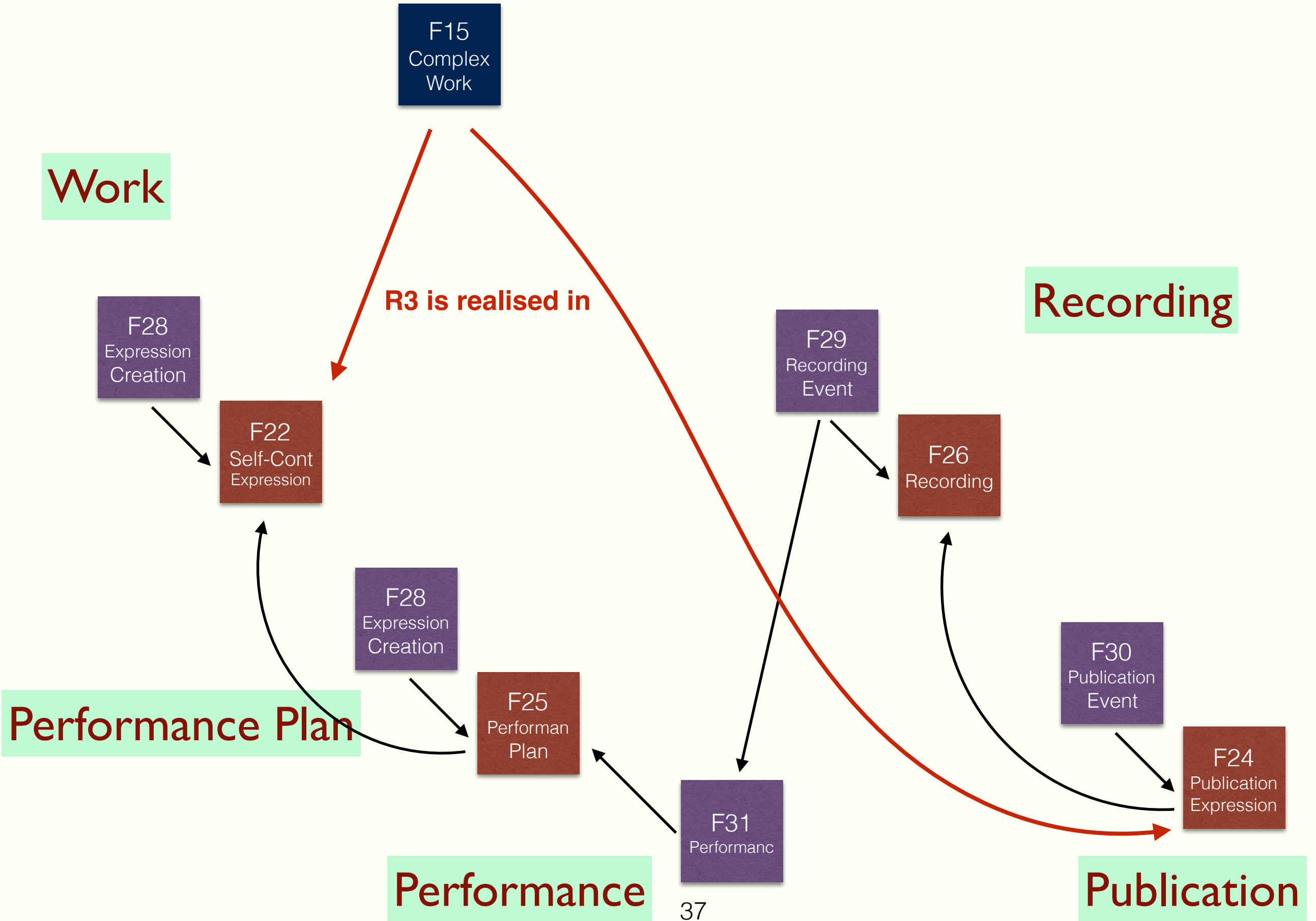
A possible
equivalent
of Work
in LRM

The only FRBRoo class nearing the “commonality of content” in FRBRoo is F15 Complex Work. But it states a “dominance of concept”.

...back to our initial schema :



...and now without the unnecessary Works:



Do we need all these Works ?

What about relationships expressed at the Work level ?

Some relationships are expressed at the Work level :

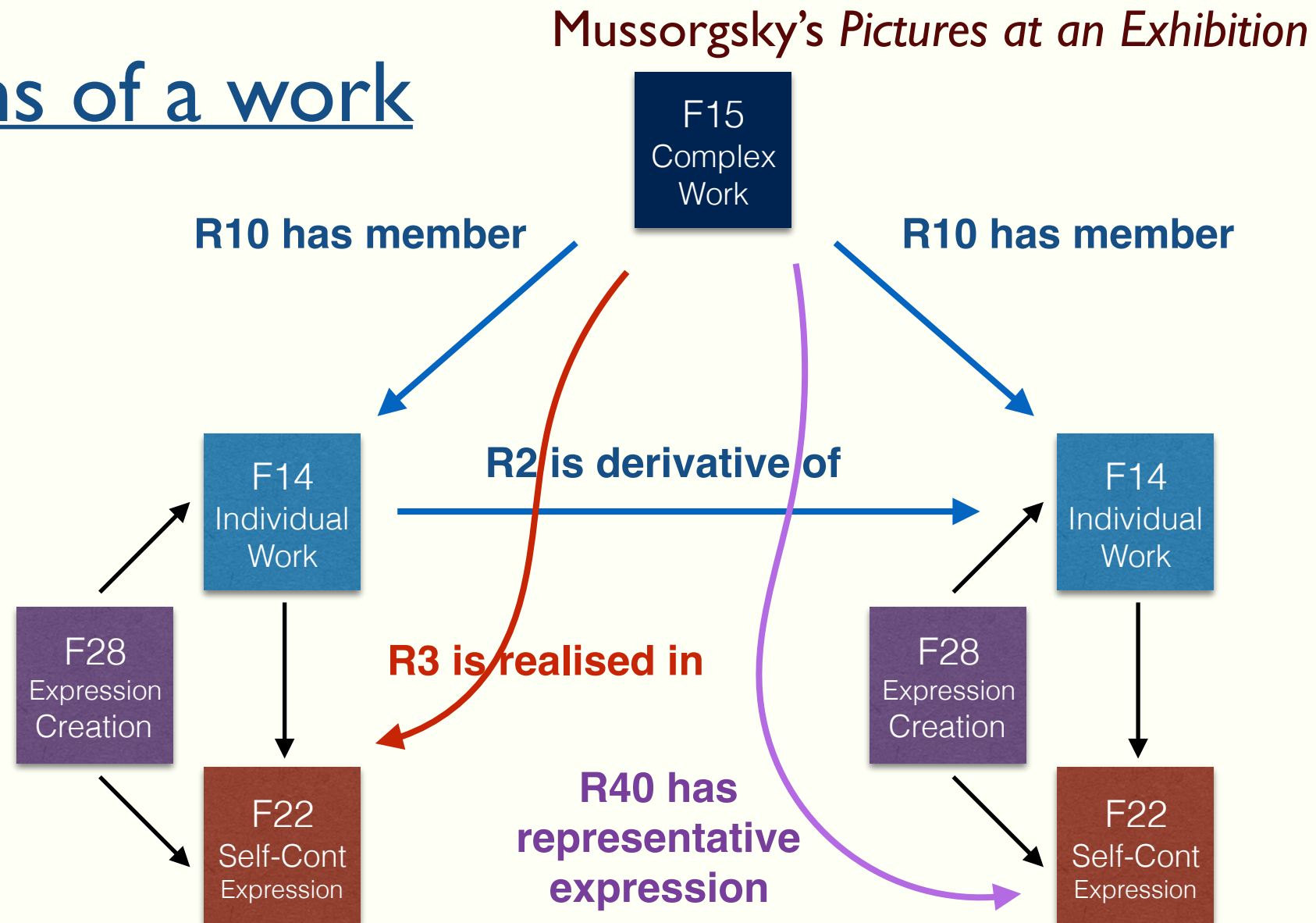
F1 Work R1 is logical successor of F1 Work

F1 Work R2 is derivative of F1 Work

Do we need all these Works ?

What about relationships expressed at the Work level ?

Derivations of a work



Ravel's Pictures at an Exhibition

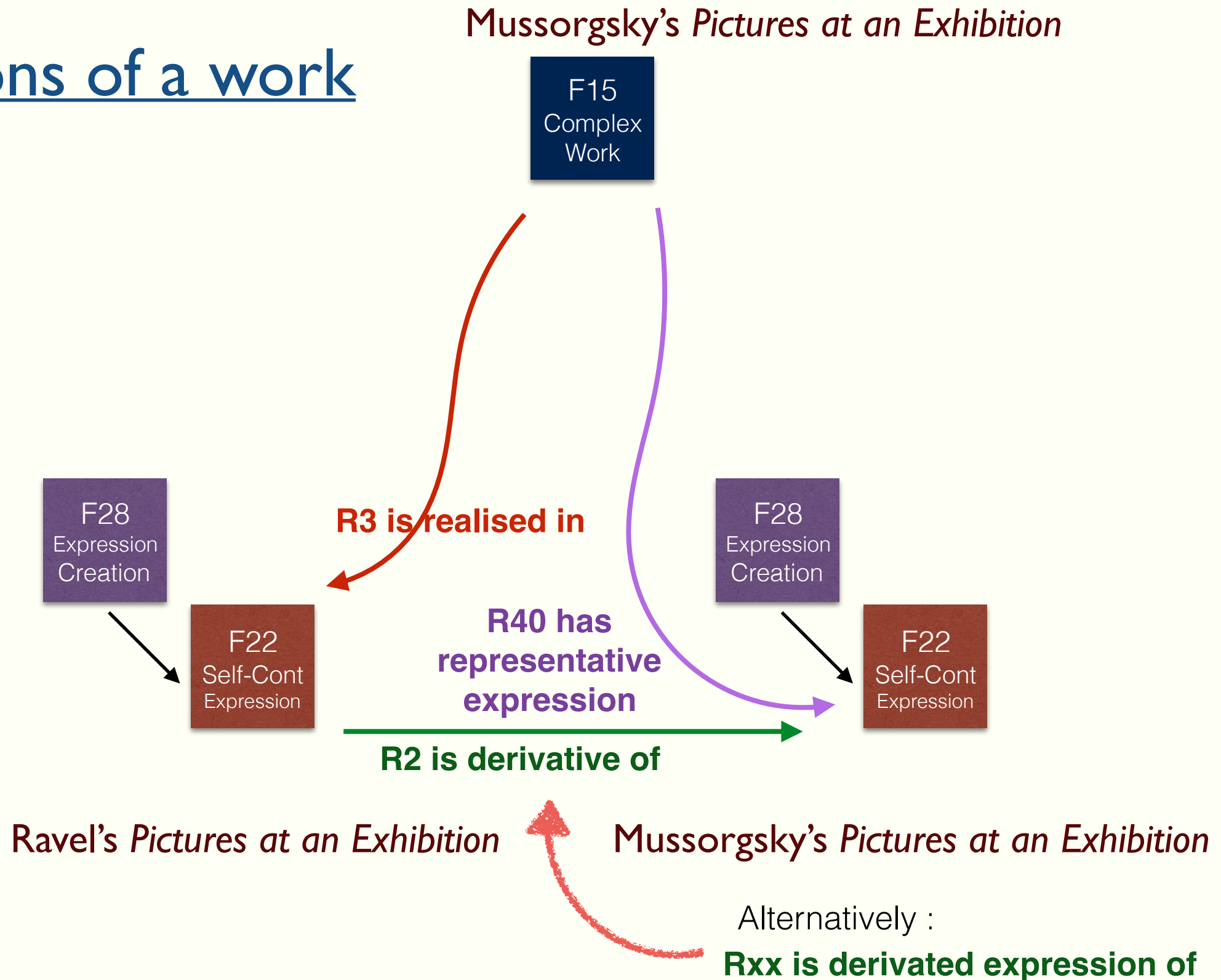
Mussorgsky's Pictures at an Exhibition

Remember the F14 is realised in one and only one F22

Do we need all these Works ?

What about relationships expressed at the Work level ?

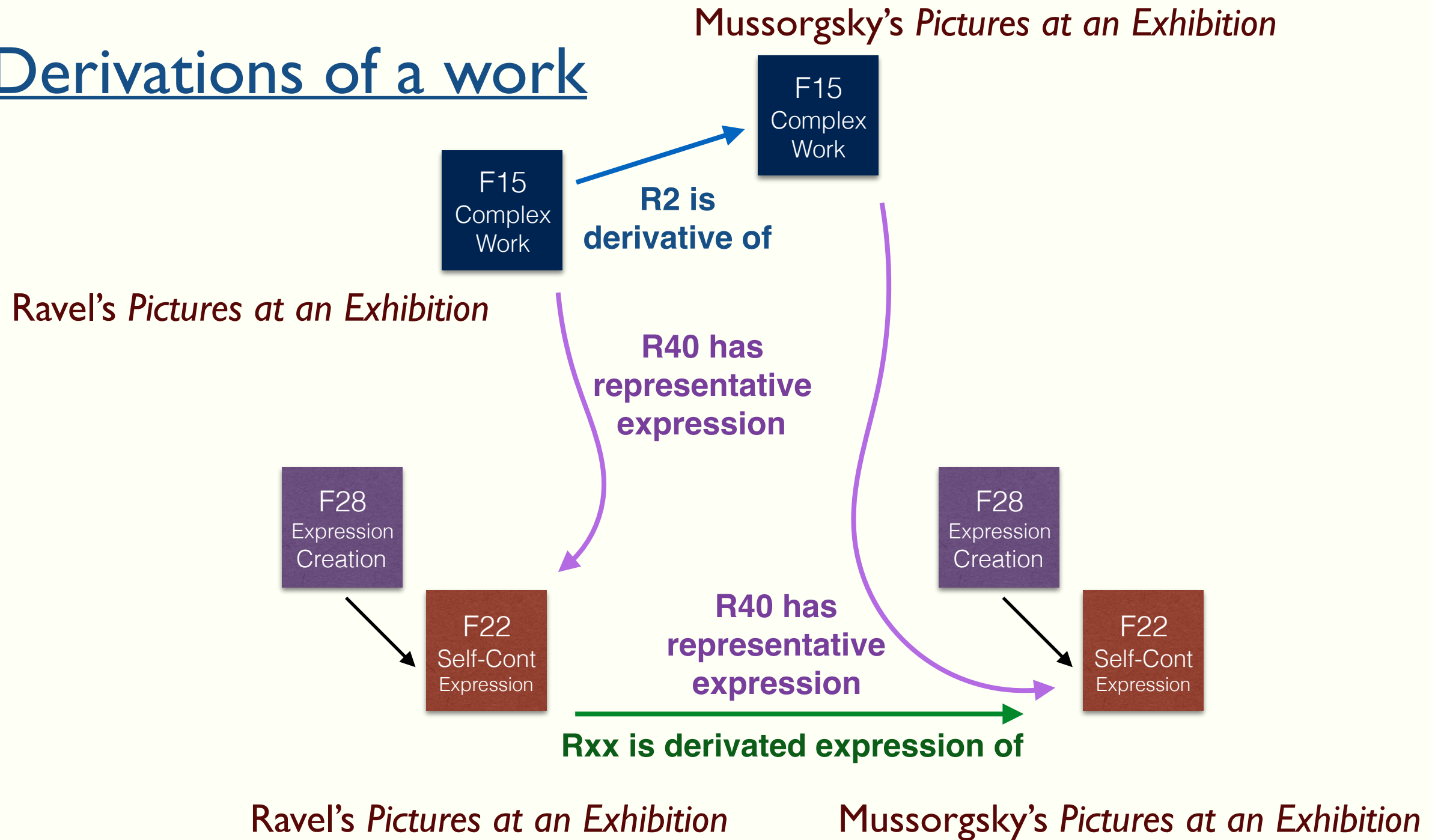
Derivations of a work



Do we need all these Works ?

What about relationships expressed at the Work level ?

Derivations of a work

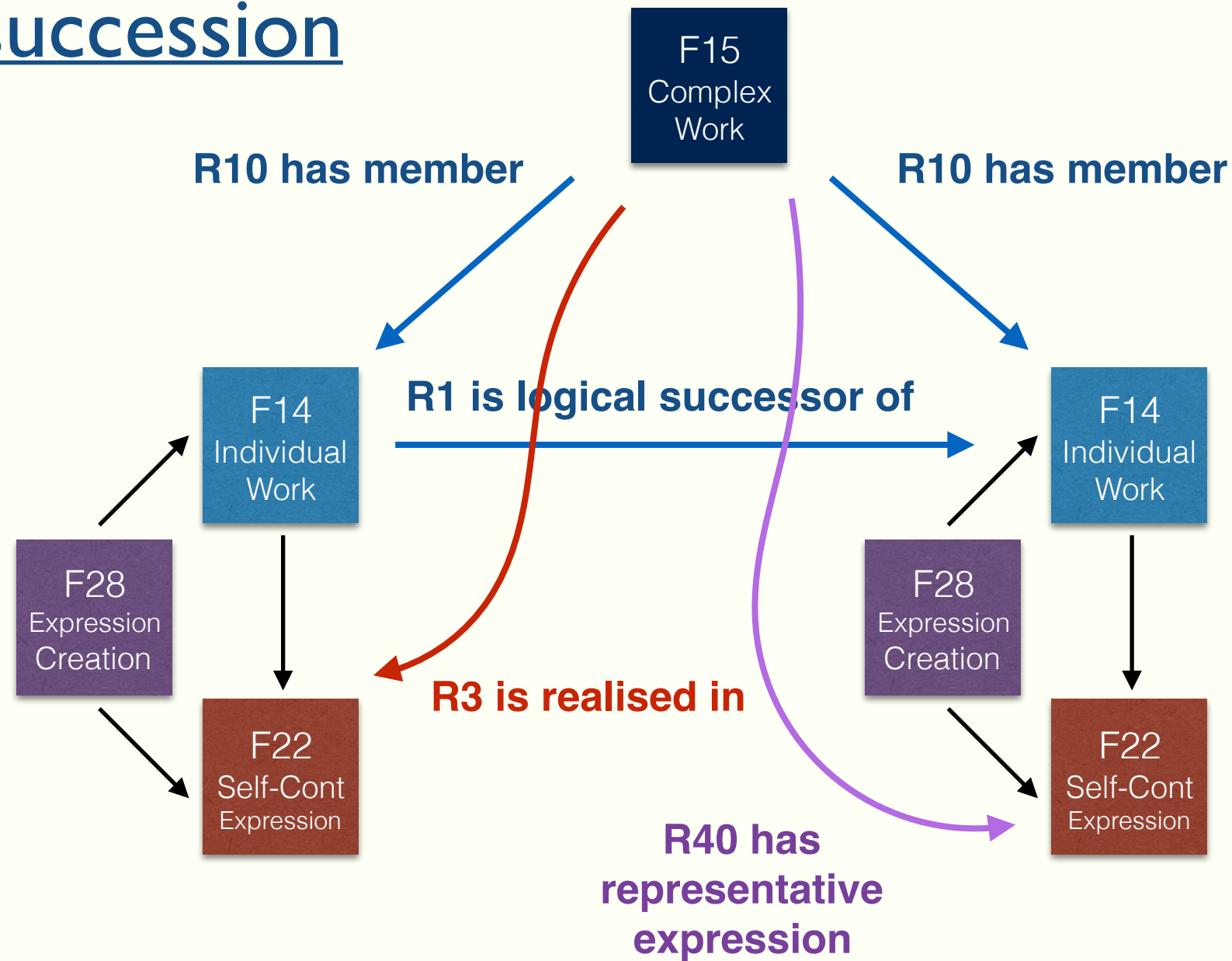


Describing it the French way...

Do we need all these Works ?

What about relationships expressed at the Work level ?

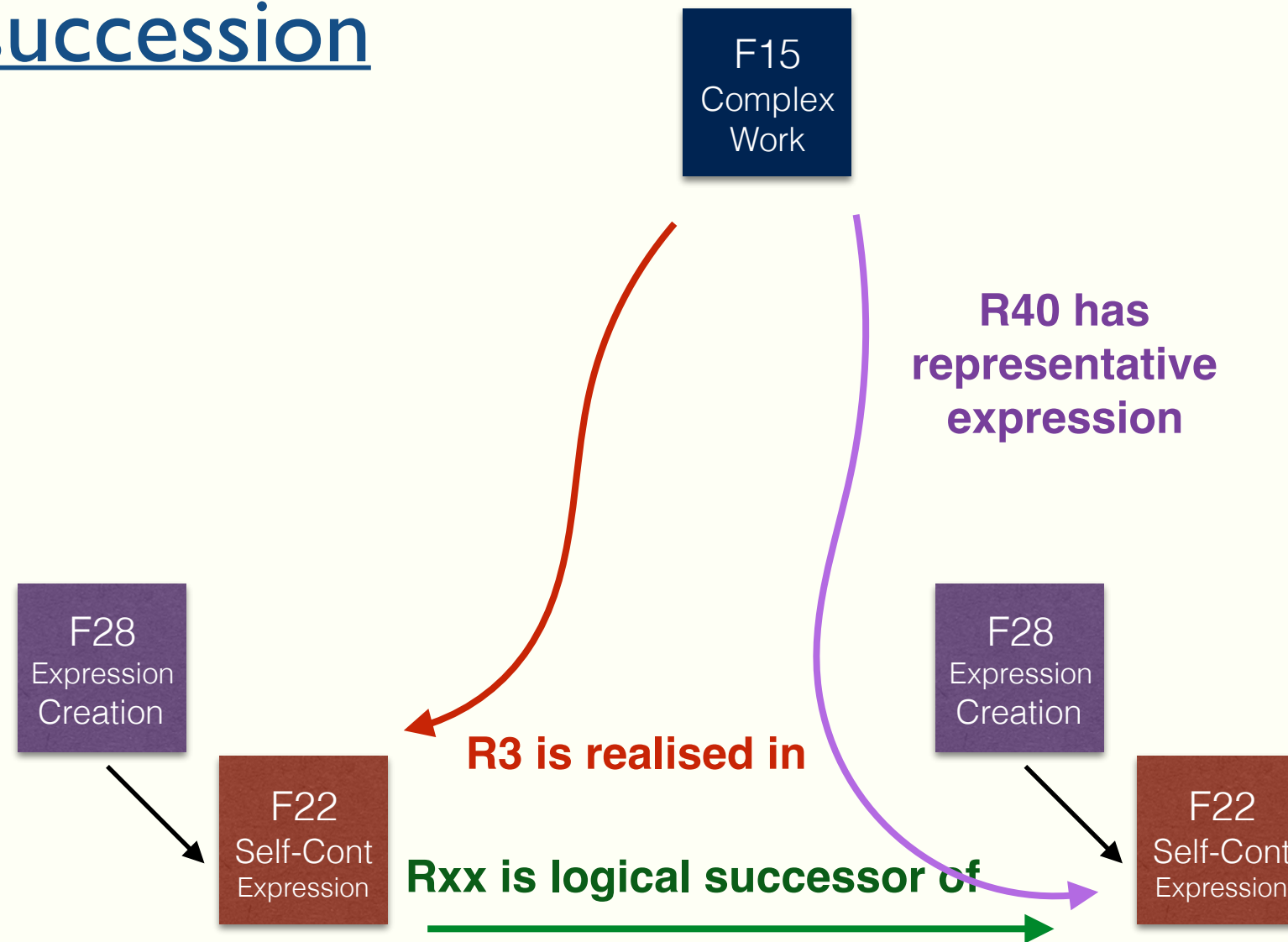
Logical succession



Do we need all these Works ?

What about relationships expressed at the Work level ?

Logical succession

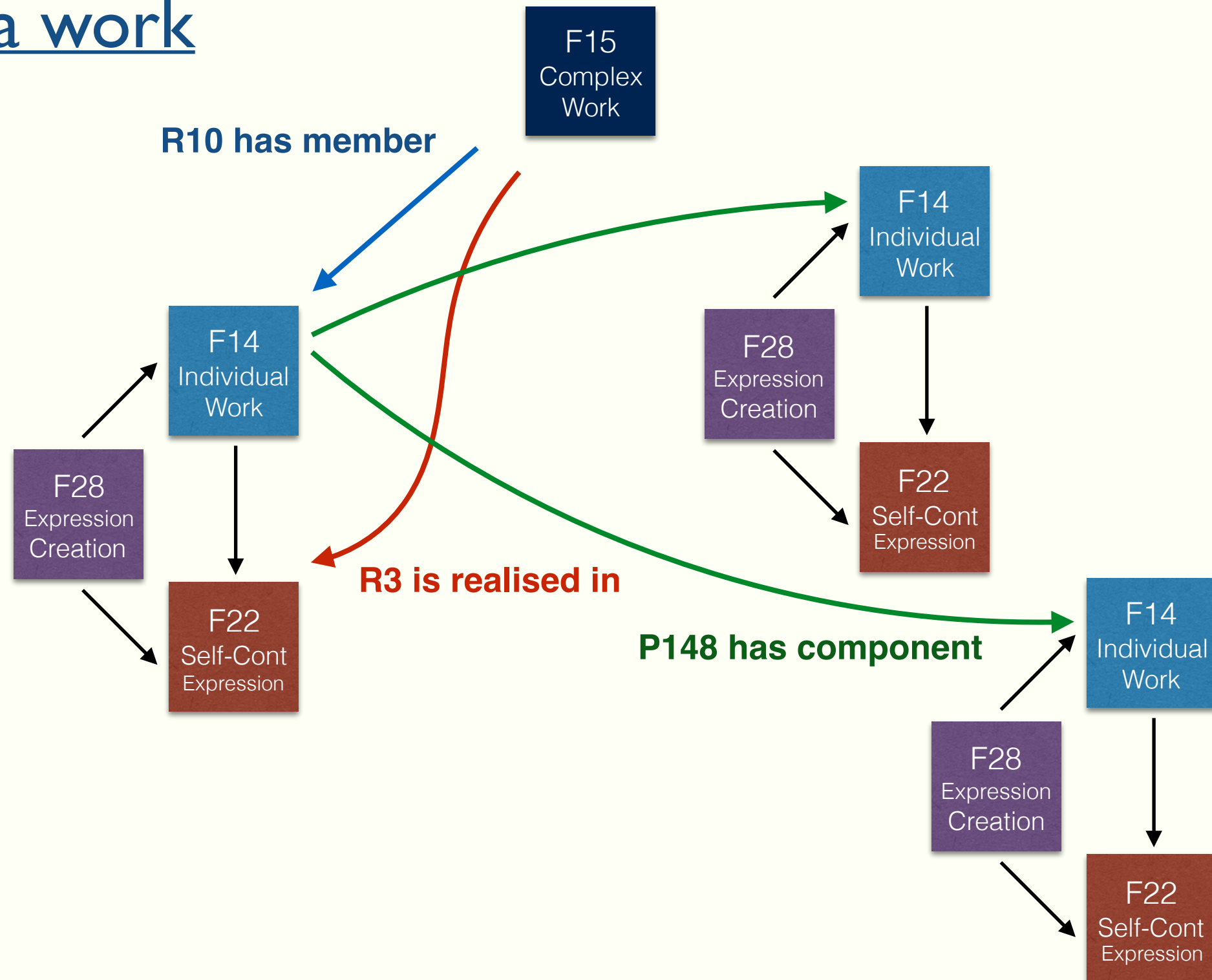


Note : in the case of the *Star Wars* Trilogies, we would still use *R1 is logical successor of* between two F15 Complex Work.

Do we need all these Works ?

What about relationships expressed at the Work level ?

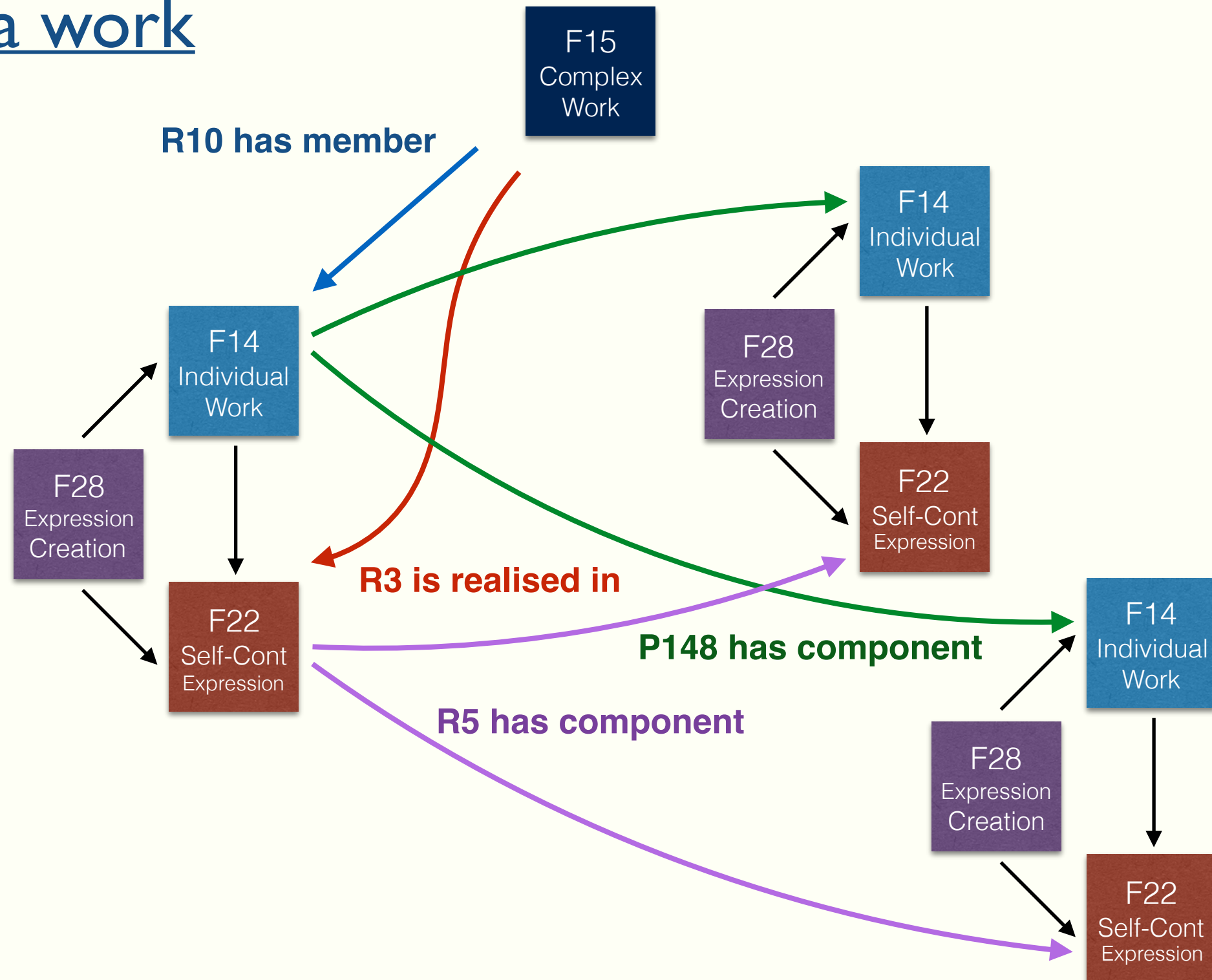
Parts of a work



Do we need all these Works ?

What about relationships expressed at the Work level ?

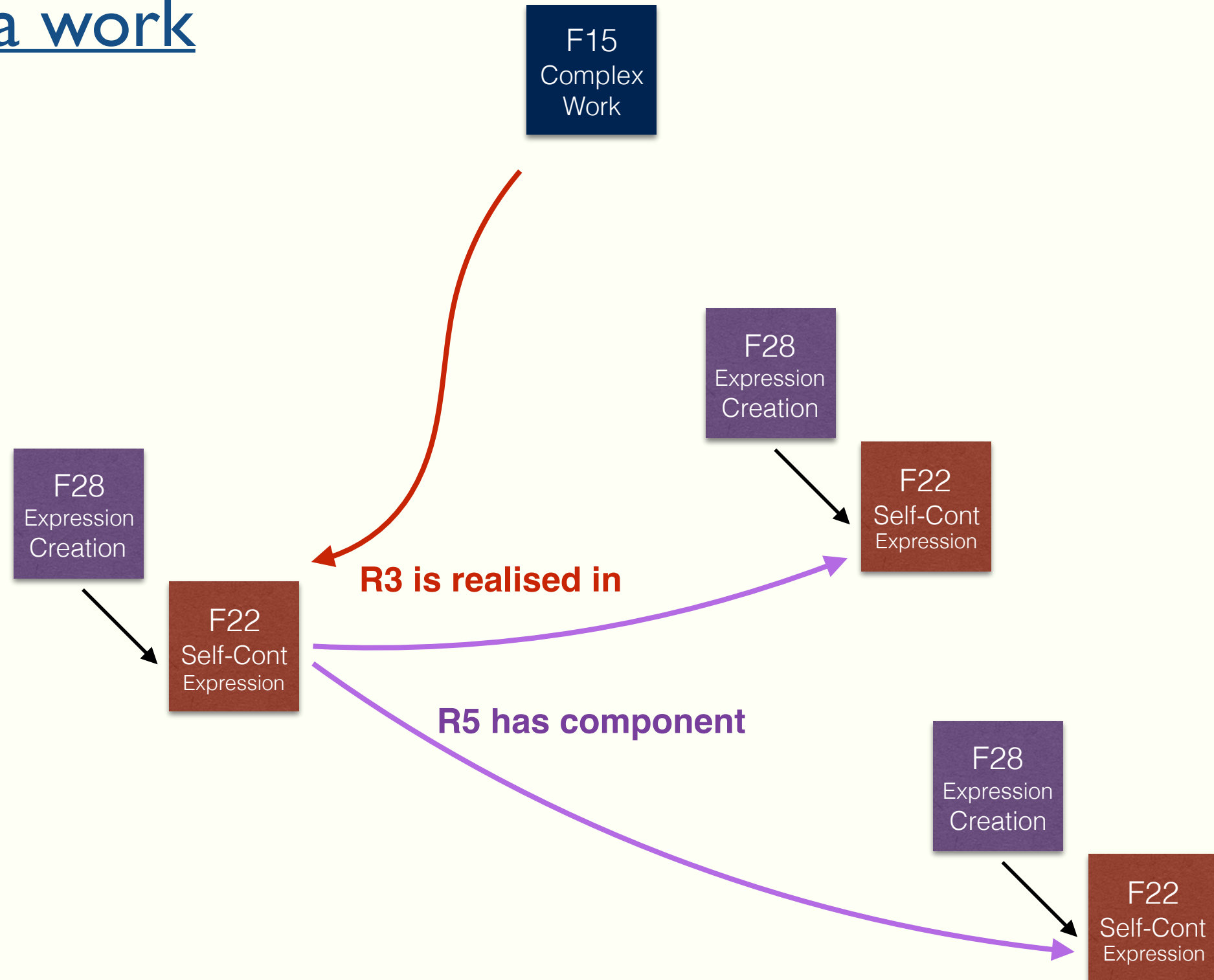
Parts of a work



Do we need all these Works ?

What about relationships expressed at the Work level ?

Parts of a work



Thank you !

Any Question ?