A Basic Introduction to FRBR$_{OO}$ and PRESS$_{OO}$
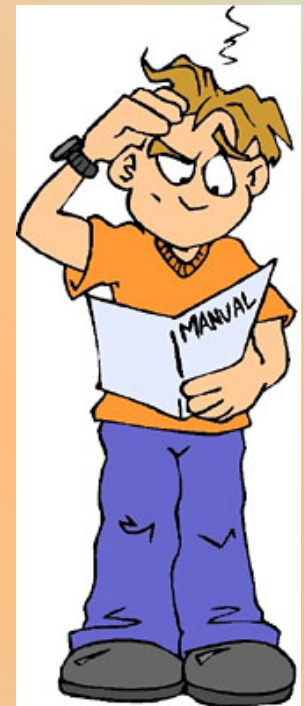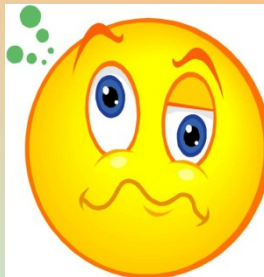
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IFLA WLIC 2015, Cape Town, 20 August 2015

Introduction

- IFLA FRBR Review Group
  - 2003: Working Group on FRBR/CRM Dialogue
- Outcome = an 'object-oriented formulation of FRBR': $FRBR_{OO}$
  - 2009: v. 1, 2013: v. 2
  - Admittedly...

Introduction

- ISSN International Centre + National Library of France in 2013
  - What about continuing resources?
  - → 2014: PRESS$_{OO}$ v. 1
  - An extension of FRBR$_{OO}$ for continuing resources

FORMALISM USED IN FRBR$_{OO}$

Formalism used in FRBR$_{OO}$

- Common pattern for FRBR, FRAD, and FRSAD Definitions:
  - User tasks
  - Entities
  - Attributes
  - Relationships
- And in FRBR$_{OO}$?

User Tasks

- None.
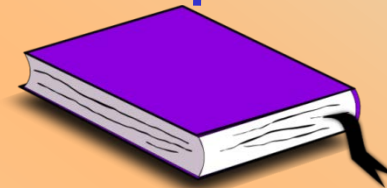- Implicit user tasks = ?
  - *Find*
  - *Explore*
  - *Trust*

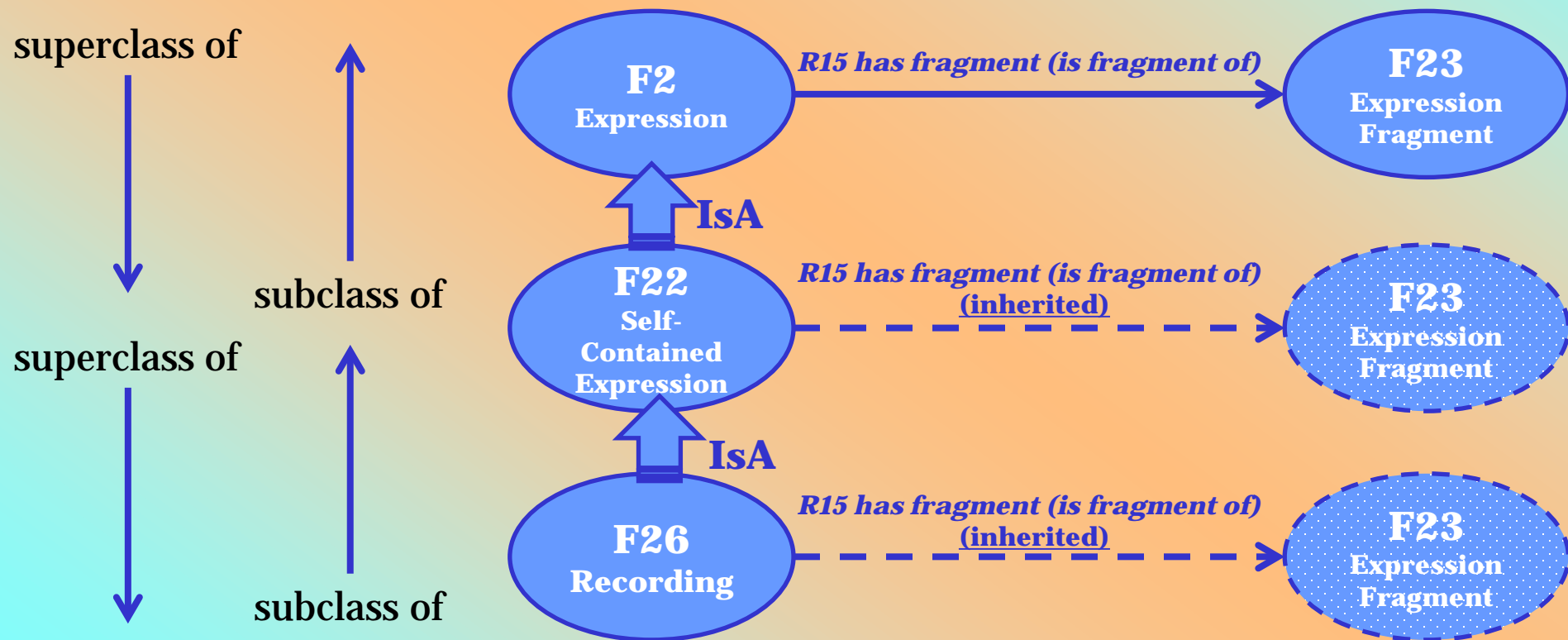# From entities to classes

- 'Classes'

F1
Work

F5
Item

- 'Instances'

  - Labels for classes are not enough!
    Read the Scope Notes!

From entities to classes

- Inheritance

Attributes

- None.

- All FR.. attributes are dealt with as class-to-class relationships

- ➔ Many more classes in $FRBR_{OO}$ than entities in FRBR/FRAD/FRSAD!

From relationships to properties

R15 has fragment

F2
Expression

R15 has fragment (is fragment of)

F23
Expression Fragment

R15i is fragment of

Domain class   Property   Range class
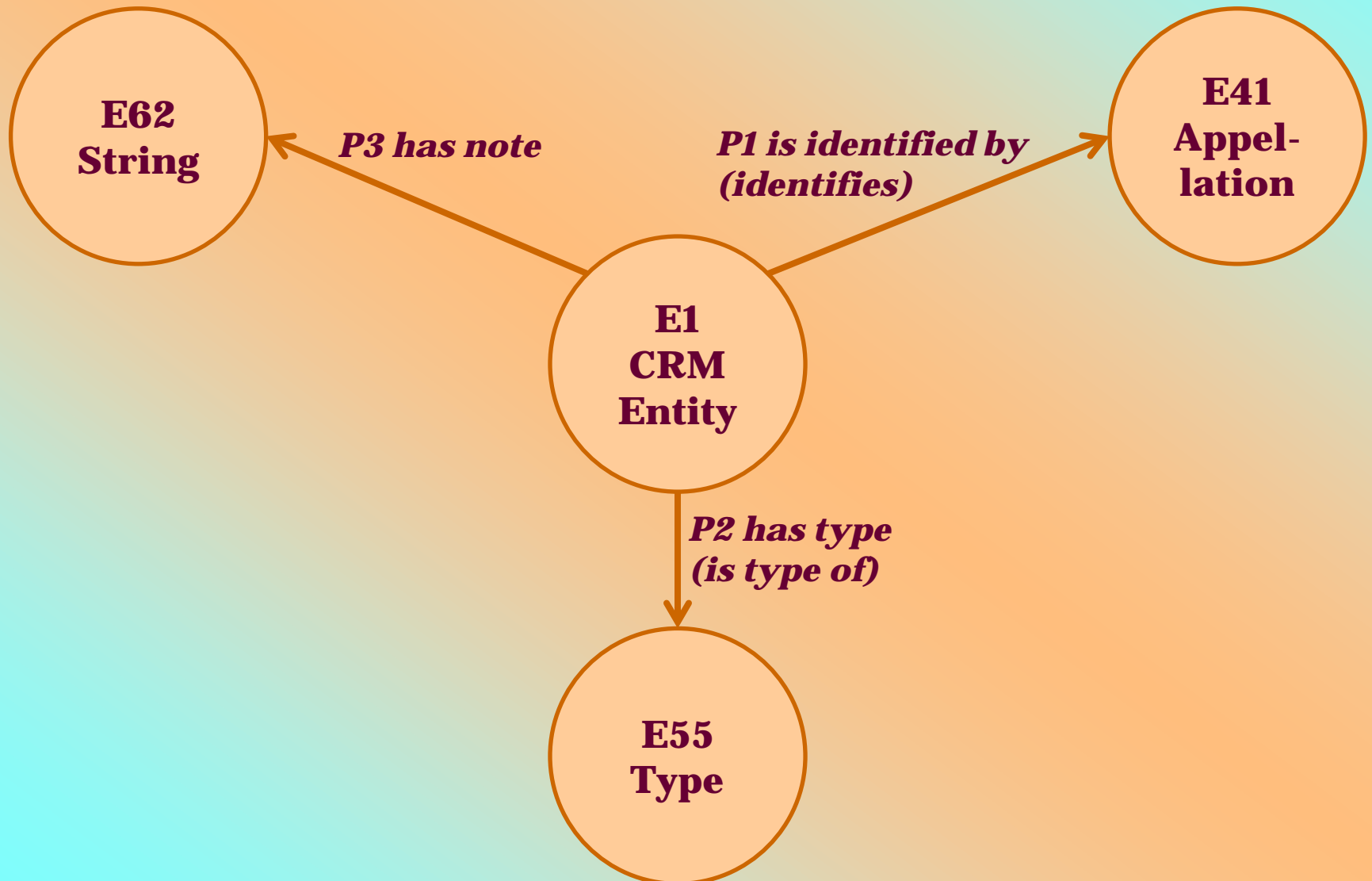
FRBR$_{OO}$ as an extension of CIDOC CRM

- CIDOC CRM = museum community's model
  - ICOM = International Council of Museums
  - CIDOC = International Committee for Documentation
  - CRM = Conceptual Reference Model
- FRBR$_{OO}$ reuses some basic constructs from CIDOC CRM

CIDOC
COMITÉ INTERNATIONAL
POUR LA DOCUMENTATION

ICOM
INTERNATIONAL COUNCIL OF MUSEUMS

FRBR₀₀ as an extension of CIDOC CRM

E62 String

E41 Appel-lation

E1 CRM Entity

E55 Type

P3 has note

P1 is identified by (identifies)

P2 has type (is type of)

FRBR$_{OO}$ as an extension of CIDOC CRM
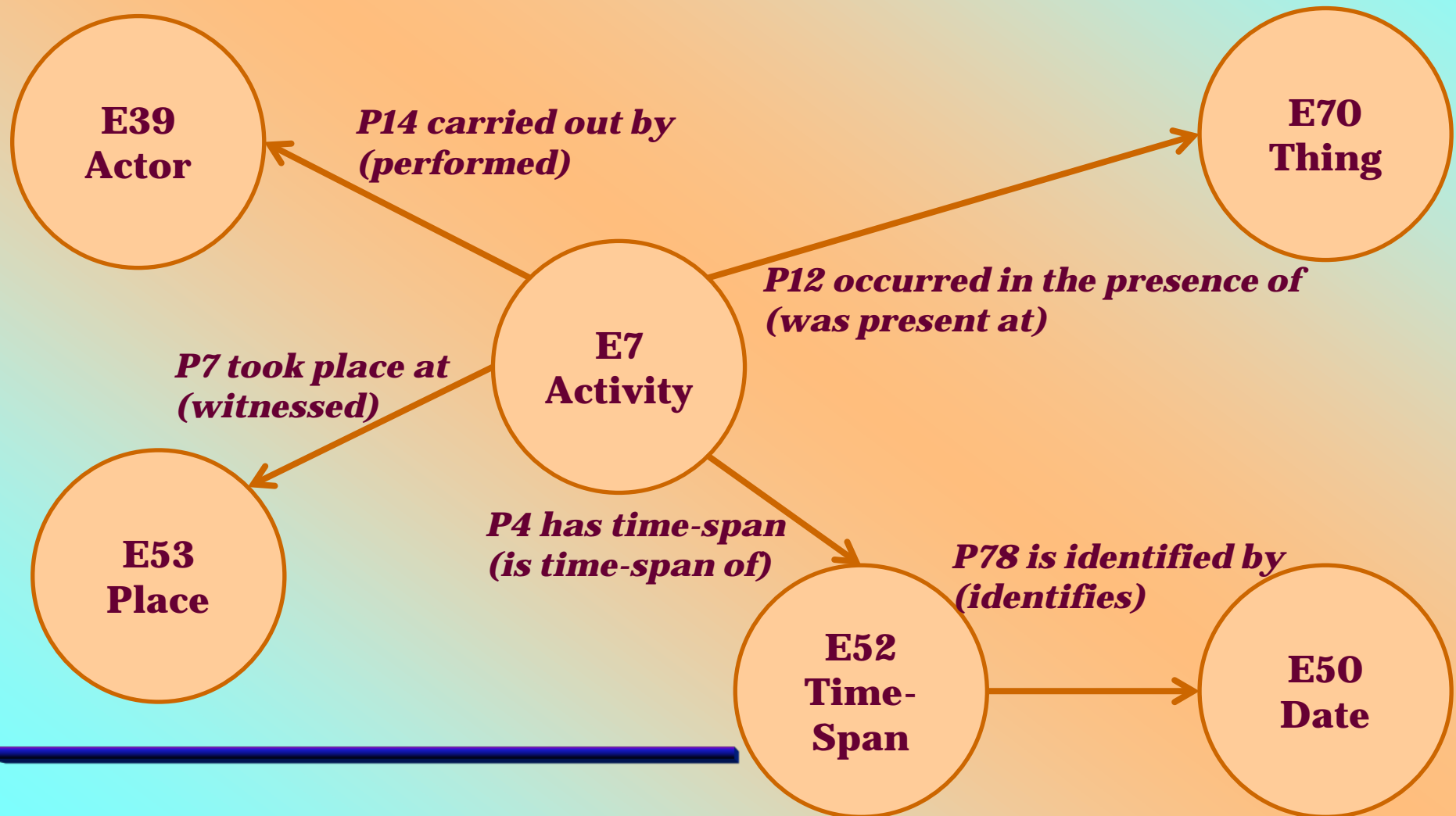
HOW FRBR$_{OO}$ MODELS THE MAIN STRUCTURES OF FRBR/FRAD/FRSAD

'Work *is realized through* Expression'

F1 Work — *R3 is realised in (realises)* → F22 Self-Contained Expression

R3.1 has type → E55 Type

- But also, if needed:

F14 Individual Work — *R9 is realised in (realises)* → F22 Self-Contained Expression

F15 Complex Work — *R10 has member (is member of)* → F1 Work
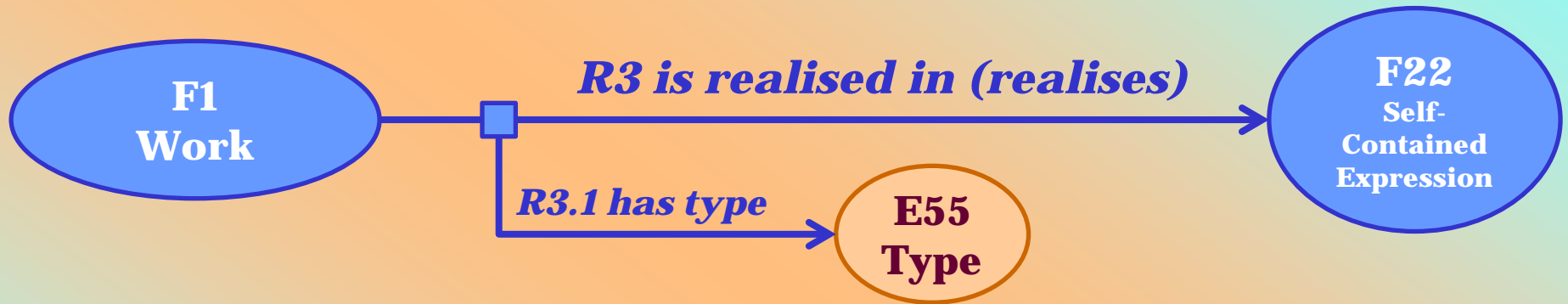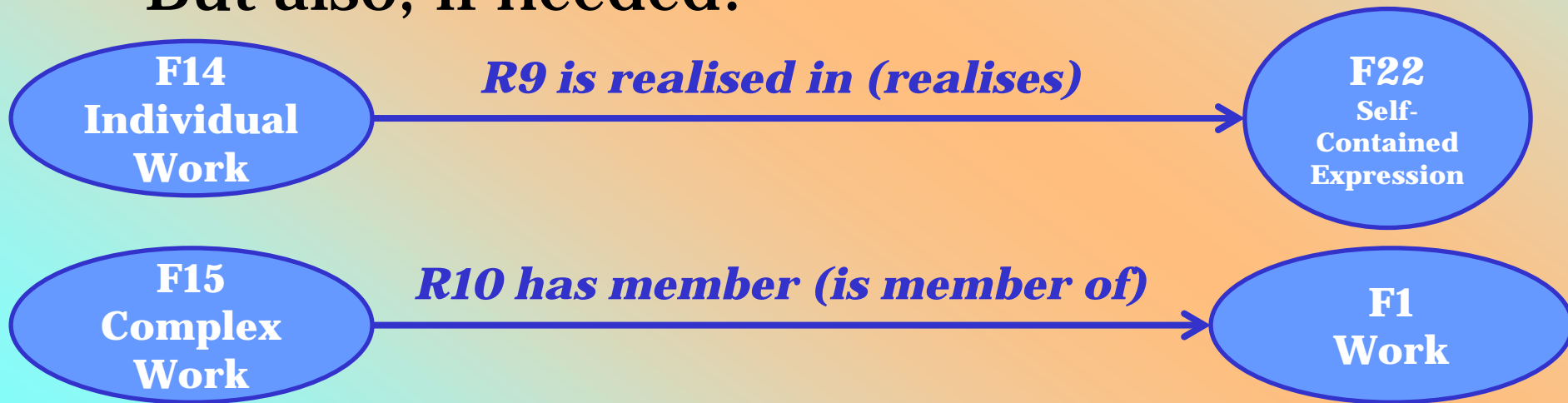
'Expression *is embodied in* Manifestation'

- Manifestation = a *set* of physical carriers
  - A set may have 1 element ('singleton')

- Expression: which one?
  - Authorial expression? Publisher's expression?

'Expression *is embodied in* Manifestation'

F4
Manifestation Singleton

Unique carrier

P128 carries (is carried by)

F2
Expression

Signs

F3
Manifestation Product Type

Publication as a *set*

CLR6 should carry (should be carried by)

F24
Publication Expression

Including cover art, paratext, page numbers, layout...

P165 incorporates (is incorporated in)

F2
Expression

Authorial text
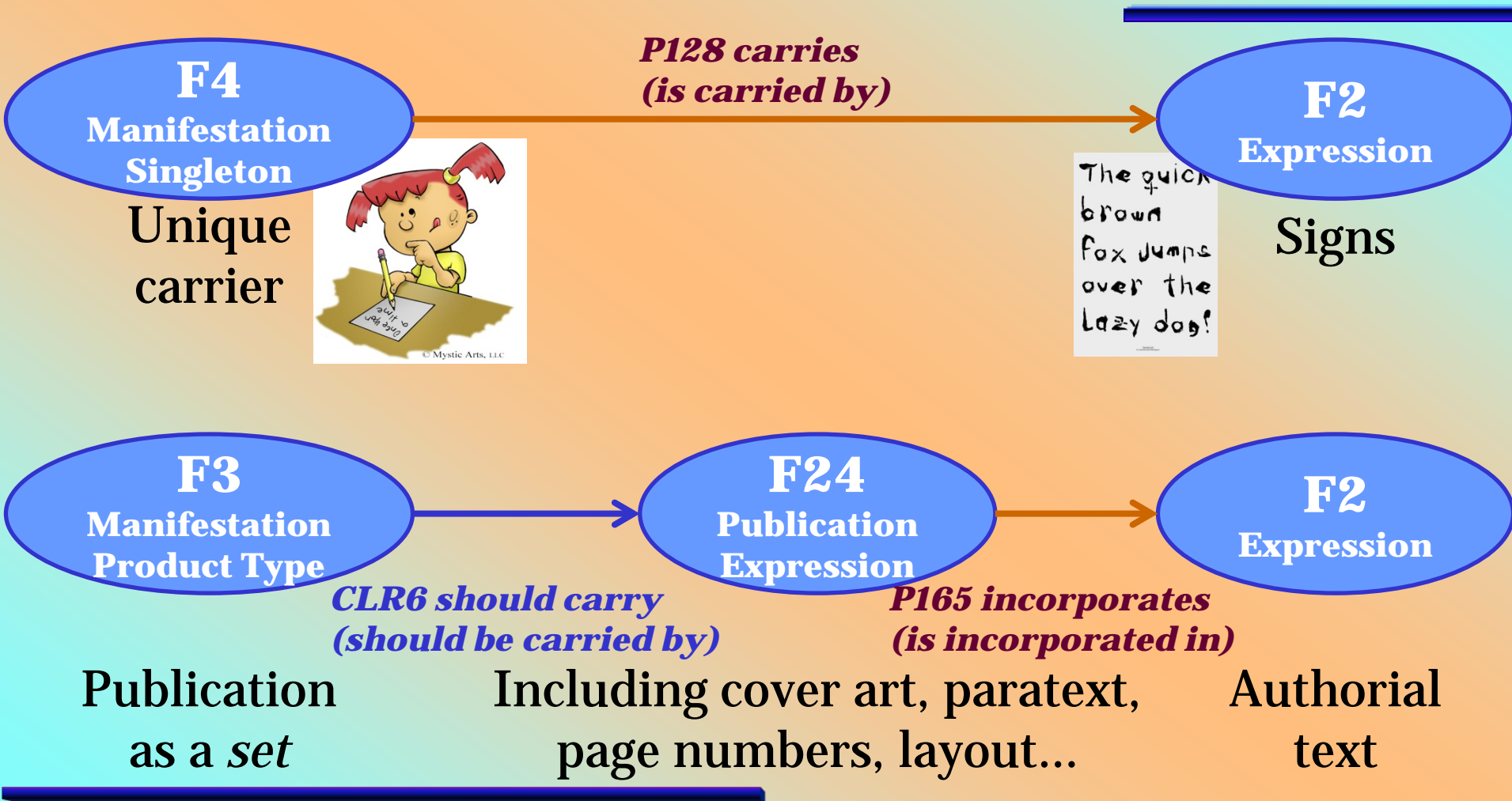
'Manifestation *is exemplified by* Item'

- Unique carriers: **F4 Manifestation Singleton** is both Manifestation and Item

- Digital publishing: **F24 Publication Expression** ← *P128 carries (is carried by)* **F53 Material Copy**

  (no instance of F3 Manifestation Product Type)

- Traditional publishing: **F3 Manifestation Product Type** ← *R7 is example of (has example)* **F5 Item**
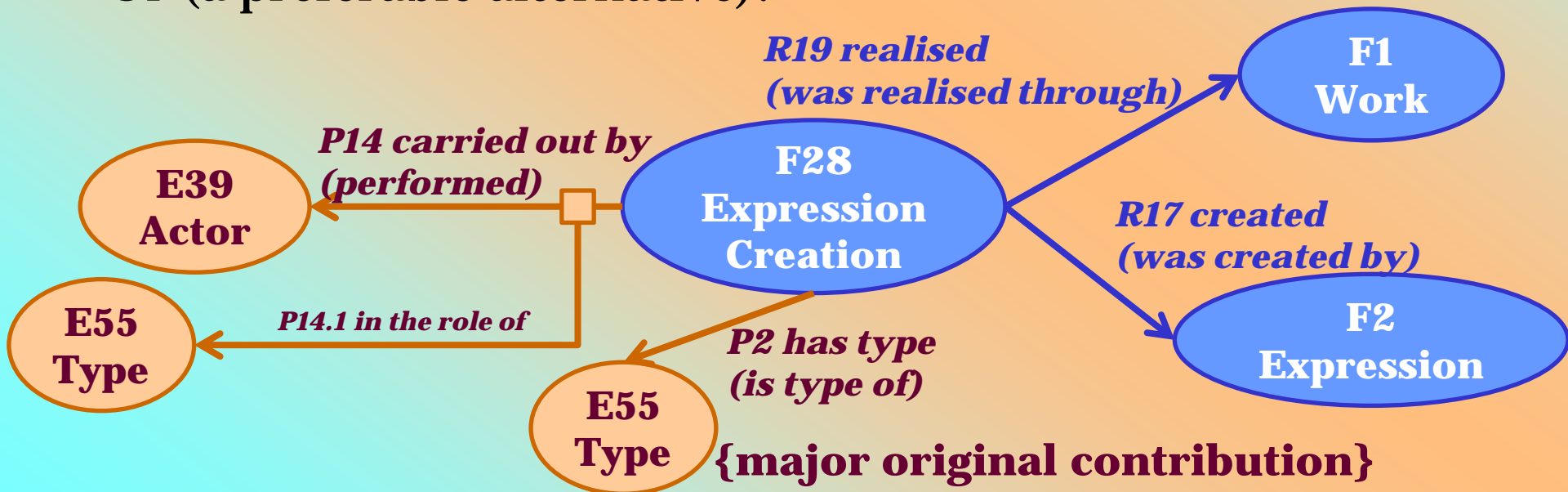
Group 1-to-Group 2 relationships

- 'Work *is created by* (Person, Family, Corporate Body)'
  'Expression *is realized by* (Person, Family, Corporate Body)'

E39 Actor ← *P14 carried out by (performed)* — **F27 Work Conception** → *R16 initiated (was initiated by)* → **F1 Work**
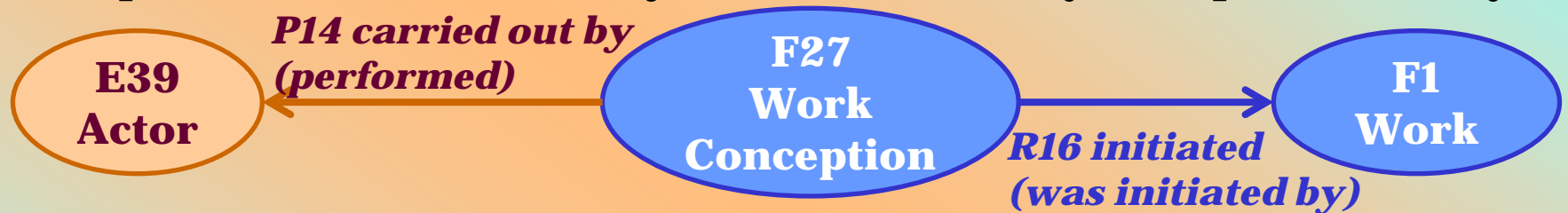
- Or (a preferable alternative):

F28 Expression Creation → *R19 realised (was realised through)* → **F1 Work**

E39 Actor ← *P14 carried out by (performed)*

F28 Expression Creation → *R17 created (was created by)* → **F2 Expression**

E55 Type ← *P14.1 in the role of*

P2 has type (is type of) → **E55 Type**

{major original contribution}

Group 1-to-Group 2 relationships

- 'Manifestation *is produced by* (Person, Family, Corporate Body)'

P14 carried out by (performed)

E39 Actor

E55 Type

P14.1 in the role of

F30 Publication Event

R24 created (was created through)

F24 Publication Expression

CLR6 should carry (should be carried by)

F3 Manifestation Product Type

- 'Item *is owned by* (Person, Family, Corporate Body)'
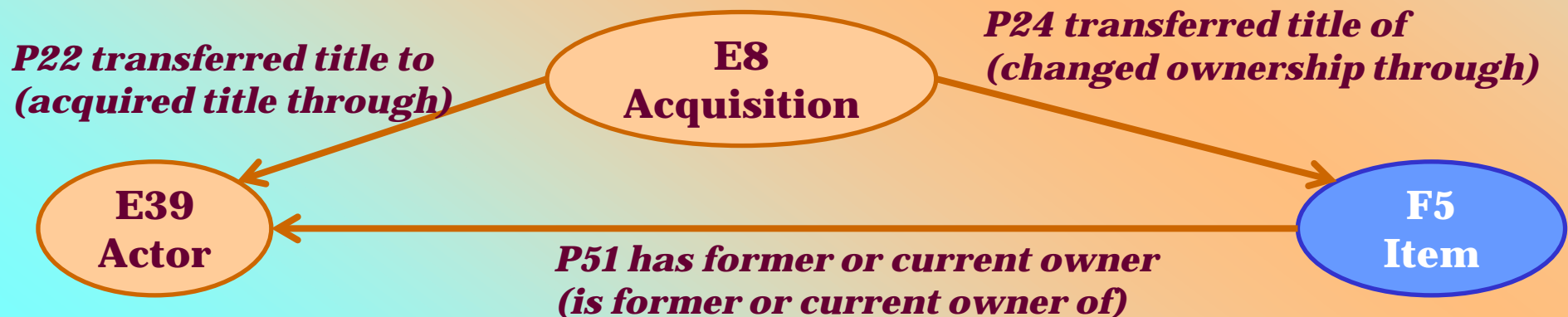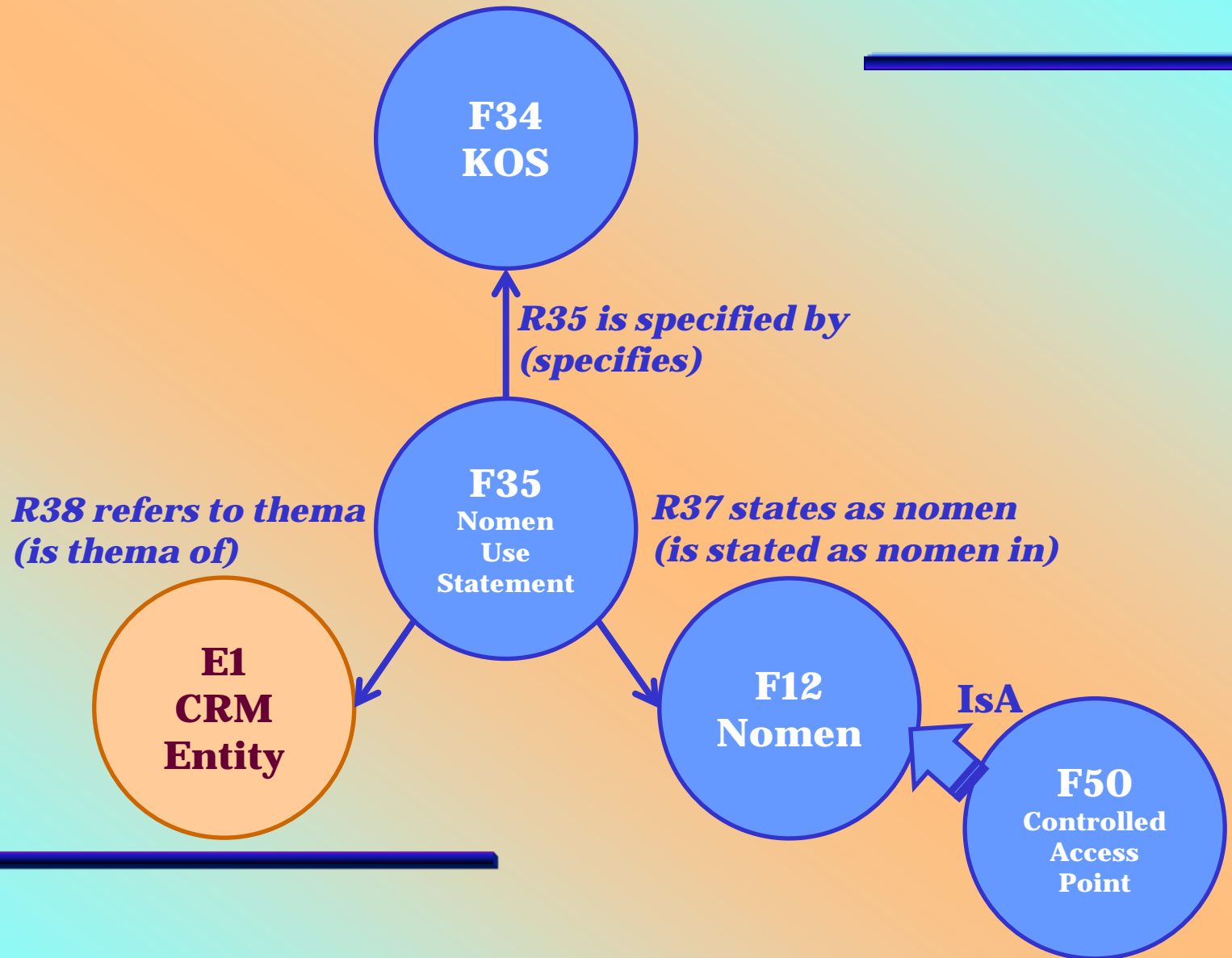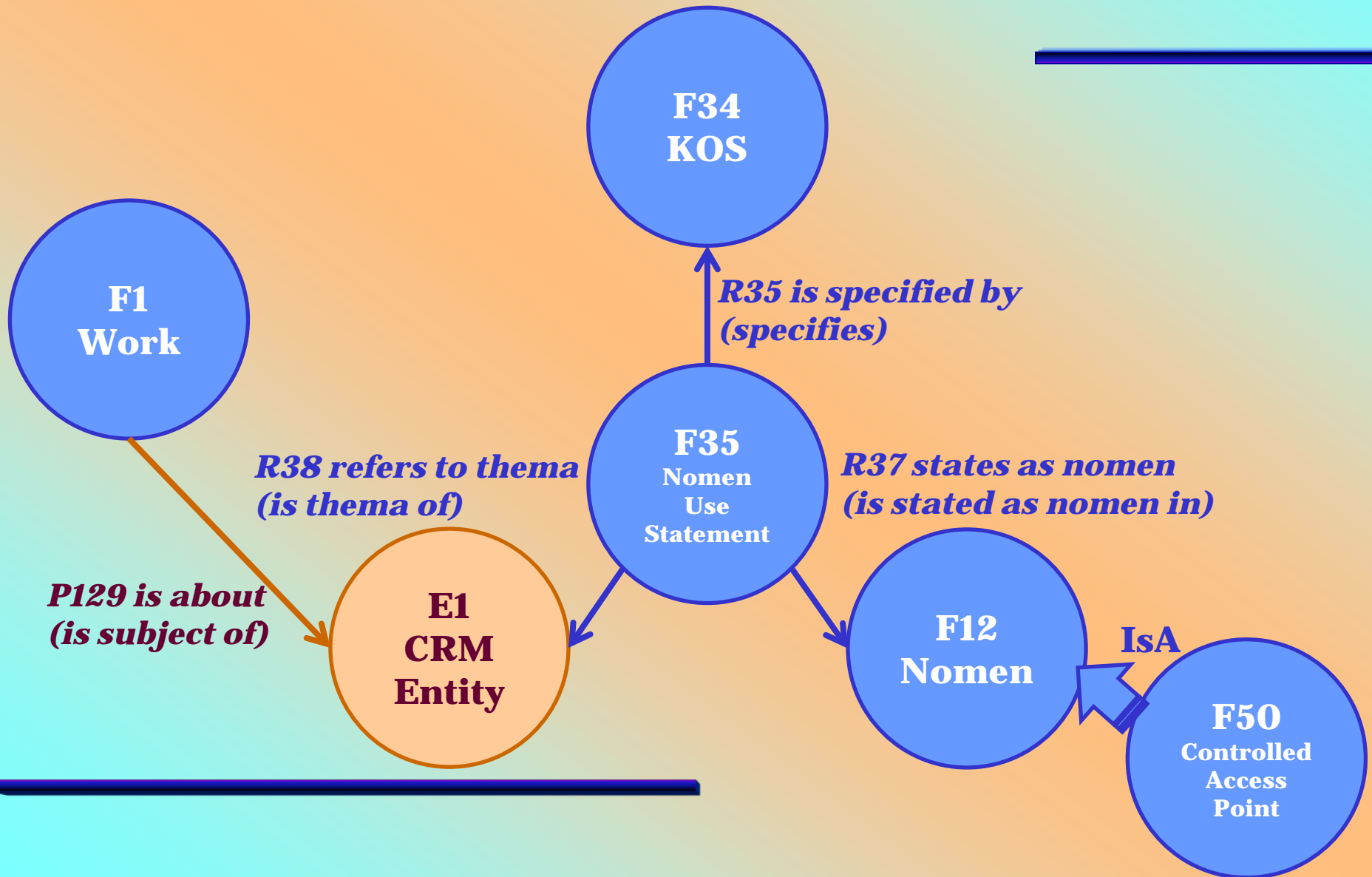
P22 transferred title to (acquired title through)

E8 Acquisition

P24 transferred title of (changed ownership through)

E39 Actor

P51 has former or current owner (is former or current owner of)

F5 Item

Aboutness

F34
KOS

R35 is specified by
(specifies)

F1
Work

R38 refers to thema
(is thema of)

F35
Nomen
Use
Statement

R37 states as nomen
(is stated as nomen in)

P129 is about
(is subject of)

E1
CRM
Entity

F12
Nomen

IsA

F50
Controlled
Access
Point

PRESS_{oo}

CONCLUSION AND FURTHER DEVELOPMENTS

Conclusion and further developments

- ## **DON'T PANIC!!!**

  - CIDOC CRM, FRBR$_{OO}$, PRESS$_{OO}$ are not 'complicated'...

  - ... they're just *semantically rich!*

  - You don't have to use *all* classes and properties... just pick the right ones for you!

  - Or wait for our 'core' version (2016/2017)