

# Functional Requirements for Bibliographic Records

Building Relationships for Music Information Retrieval

Andrew Hankinson, January 2006

# FRBR

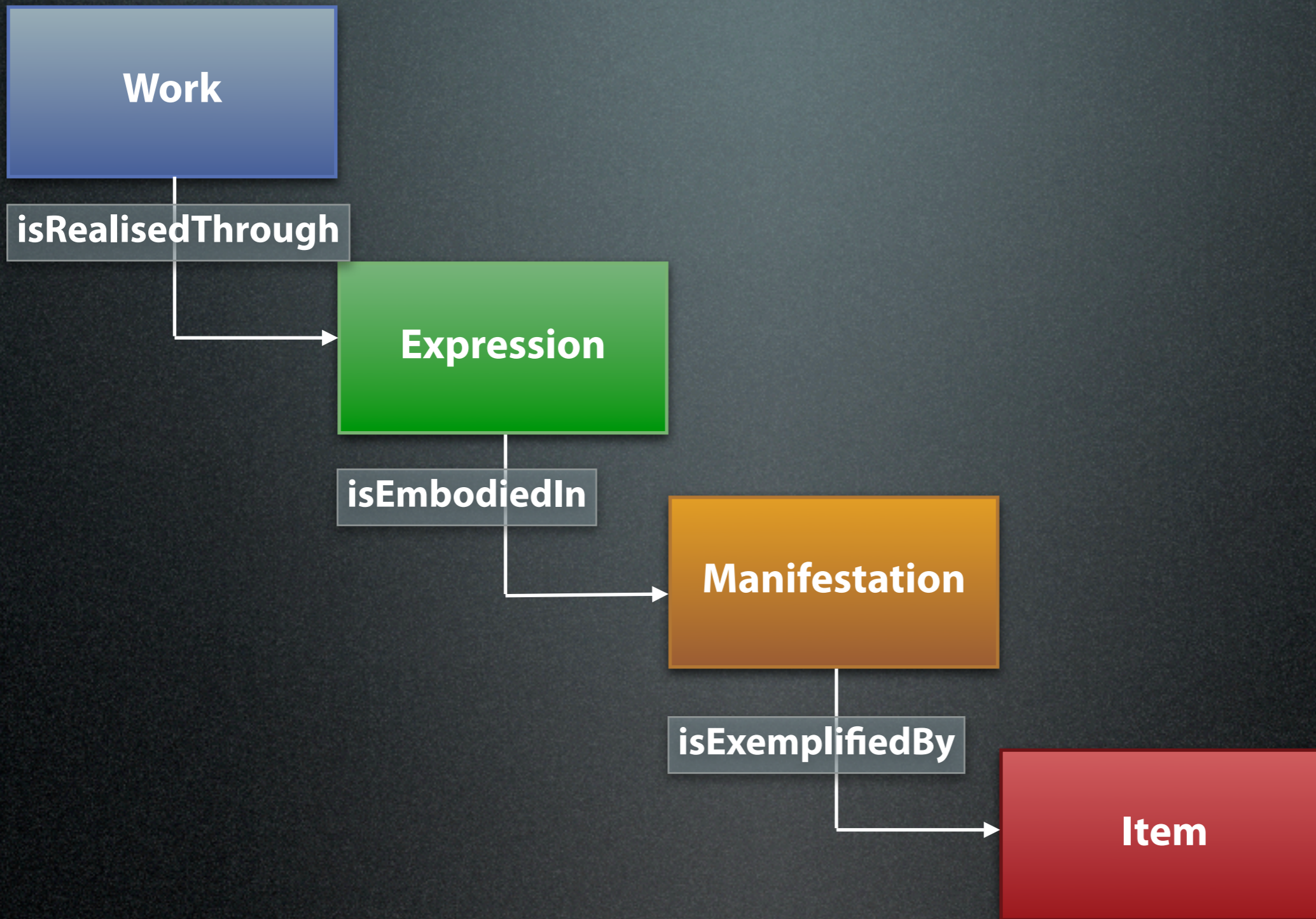
- **The current environment...**
- **What is it?**
- **How is it used?**
- **Why is it important?**

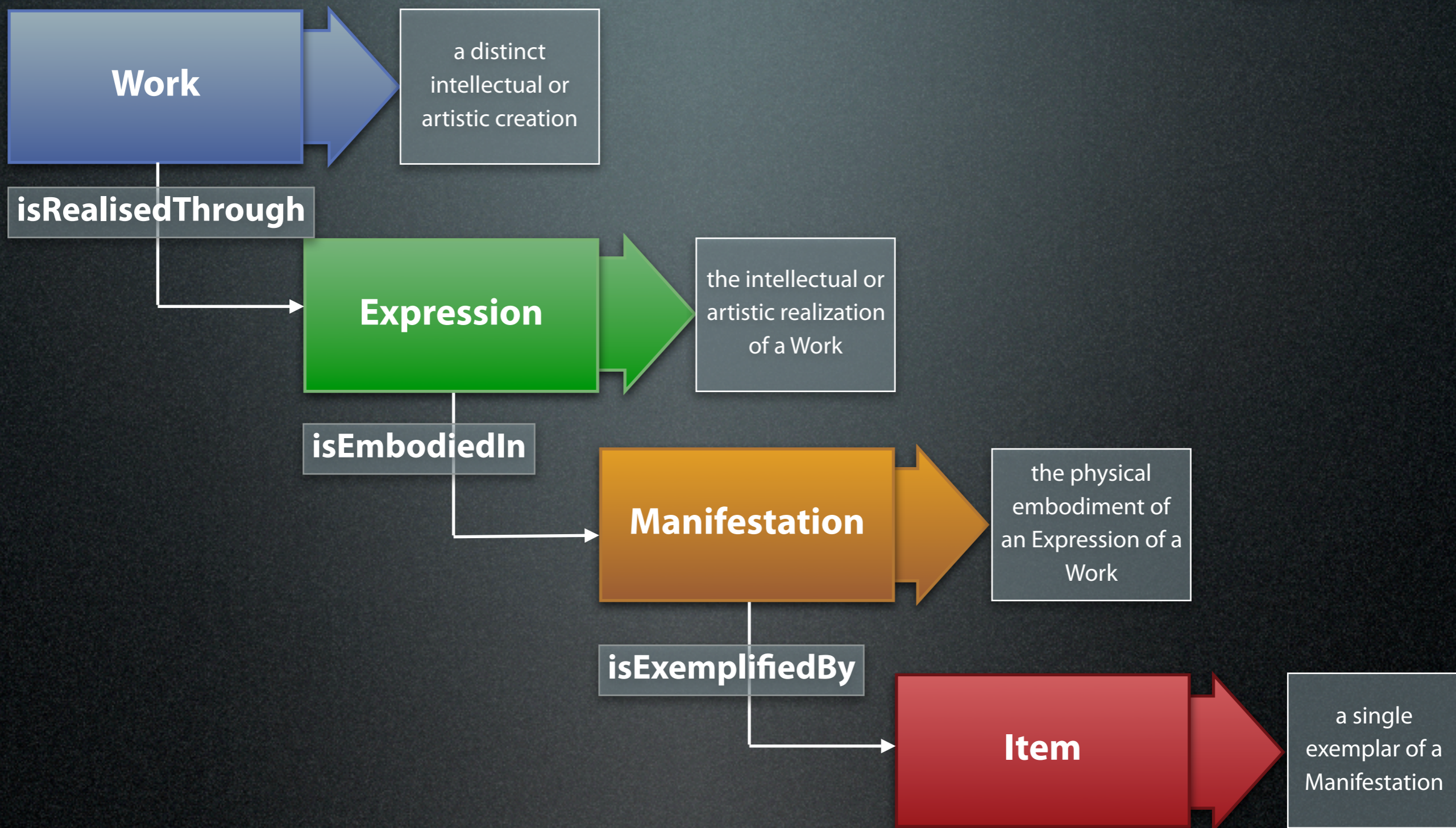
# The current environment...

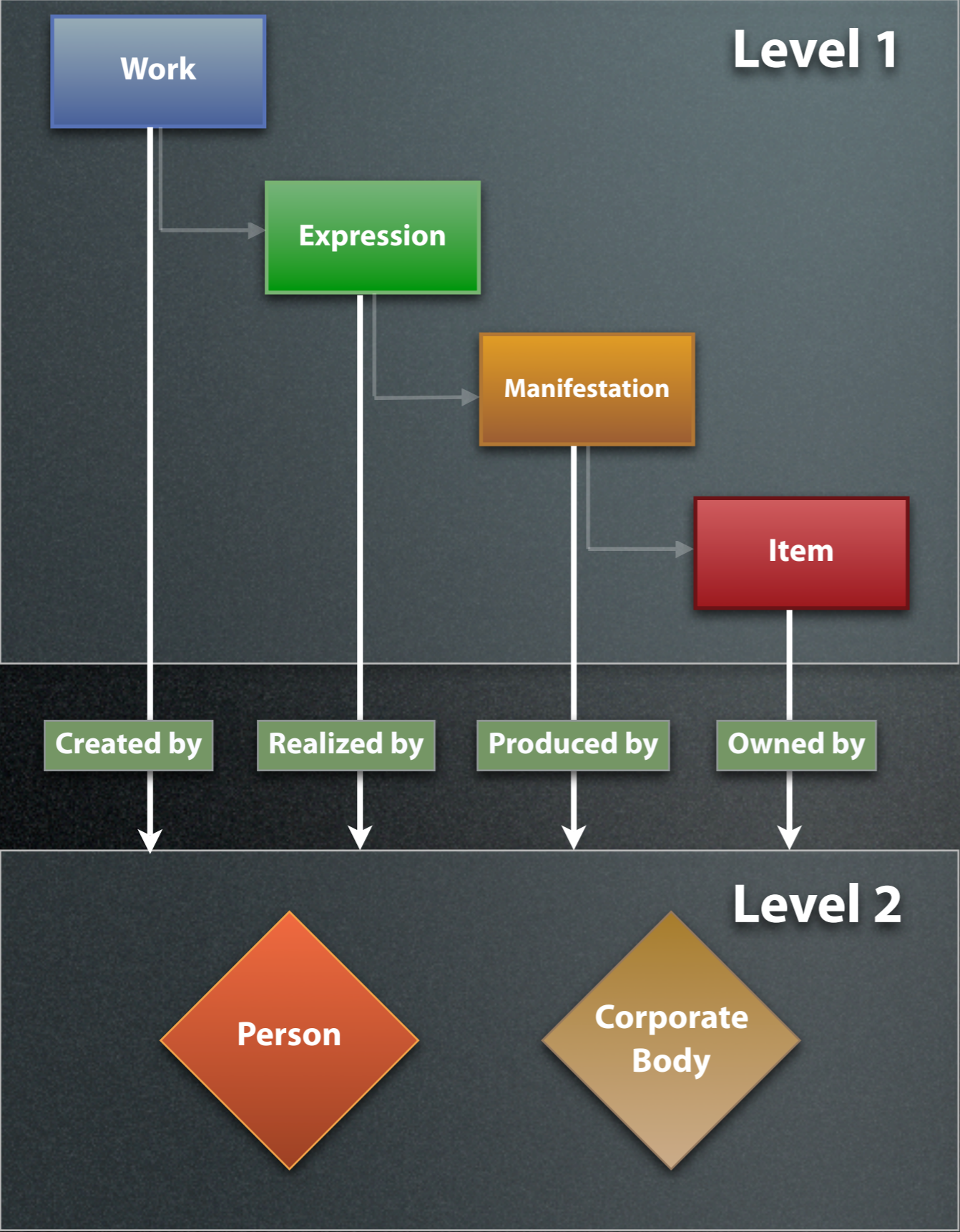
- **'Stuff' is described one-dimensionally**
  - **Limited (implicit) relationships between things**
  - **Redundancy and inefficiencies**

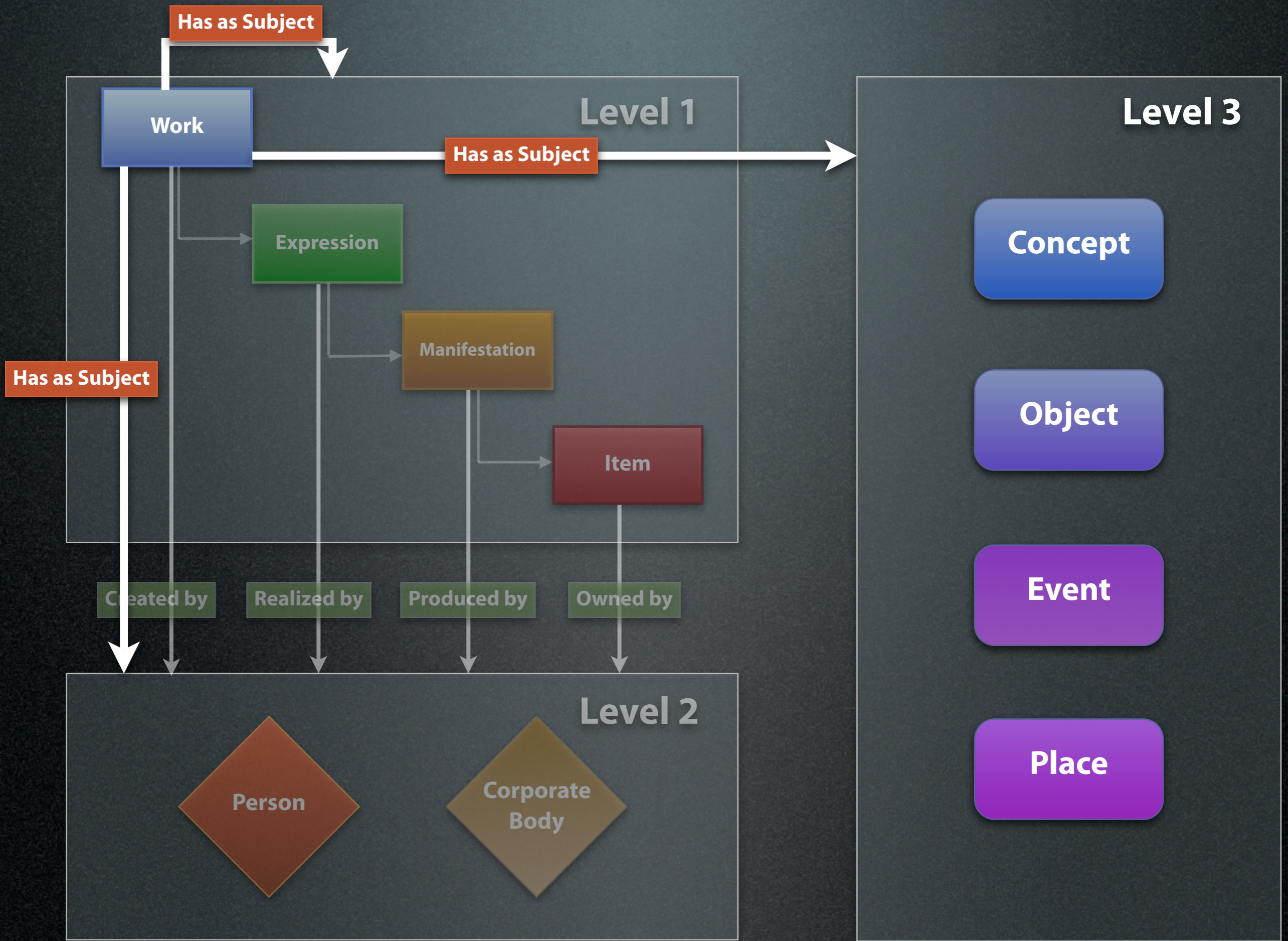
# What is it?

- **Standard for describing *things, people and events***
- **Models *relationships* between entities**
- **Enables users to *find, identify, select and obtain* resources.**











# Examples in Music

Current Practices and FRBR Applications

# A typical existing record

Mozart, Wolfgang Amadeus, 1761-1791

Symphonies. Selections; arr.

*Five Symphonies for piano four hands: nos. 35, 36, 38, 40 and 41 ("Jupiter") / Wolfgang Amadeus Mozart*

Mineola, N.Y. : Dover Publications, 2006

135 p. of music : facsim. ; 21x28cm.

M209 M69 S95 2006

***Subjects:***

Symphonies (Piano, 4 hands), Arranged.

Piano Music (4 hands), Arranged.

# A typical existing record

**Mozart, Wolfgang Amadeus, 1761-1791**

Symphonies. Selections; arr.

*Five Symphonies for piano four hands: nos. 35, 36, 38, 40 and 41 ("Jupiter") / Wolfgang Amadeus Mozart*

Mineola, N.Y. : Dover Publications, 2006

135 p. of music : facsim. ; 21x28cm.

M209 M69 S95 2006

***Subjects:***

Symphonies (Piano, 4 hands), Arranged.

Piano Music (4 hands), Arranged.

**Mozart, Wolfgang Amadeus, 1761-1791**

Symphony, K.551, C major

*Sinfonie in C, KV551 "Jupiter" / Wolfgang Amadeus Mozart; Ulrich Konrad, commentary.*

**Mozart, Wolfgang Amadeus, 1761-1791**

Symphonies. Selections; arr.

*Five Symphonies for piano four hands: nos. 35, 36, 38, 40 and 41 ("Jupiter") / Wolfgang Amadeus Mozart*

Mineola, N.Y. : Dover Publications, 2006

135 p. of music : facsim. ; 21x28cm.

M209 M69 S95 2006

***Subjects:***

Symphonies (Piano, 4 hands), Arranged.

Piano Music (4 hands), Arranged.

M  
S  
S  
P

**Mozart, Wolfgang Amadeus, 1761-1791**

**Facsimile**

Symphony, K.551, C major

*Sinfonie in C, KV551 "Jupiter" / Wolfgang Amadeus Mozart; Ulrich Konrad, commentary.*

**Mozart, Wolfgang Amadeus, 1761-1791**

Symphonies. Selections; arr.

*Five Symphonies for piano four hands: nos. 35, 36, 38, 40 and 41 ("Jupiter") / Wolfgang Amadeus Mozart*

Mineola, N.Y. : Dover Publications, 2006

135 p. of music : facsim. ; 21x28cm.

M209 M69 S95 2006

***Subjects:***

Symphonies (Piano, 4 hands), Arranged.

Piano Music (4 hands), Arranged.

M  
S  
S  
P

**Mozart, Wolfgang Amadeus, 1761-1791**

*Eine kleine Nachtmusik [sound recording] : symphonies nos. 39 & 41 / Mozart ; conducted by Otto Klemperer*

New York, NY: EMI Classics c2000.

**Mozart, Wolfgang Amadeus, 1761-1791**

Symphonies. Selections; arr.

*Five Symphonies for piano four hands: nos. 35, 36, 38, 40 and 41 ("Jupiter") / Wolfgang Amadeus Mozart*

Mineola, N.Y. : Dover Publications, 2006

135 p. of music : facsim. ; 21x28cm.

M209 M69 S95 2006

***Subjects:***

Symphonies (Piano, 4 hands), Arranged.  
Piano Music (4 hands), Arranged.

I  
M  
S  
S  
P

# Sound Recording

**Mozart, Wolfgang Amadeus, 1761-1791**

*Eine kleine Nachtmusik [sound recording] : symphonies nos. 39 & 41 / Mozart ; conducted by Otto Klemperer*

New York, NY: EMI Classics c2000.

**Mozart, Wolfgang Amadeus, 1761-1791**

Symphonies. Selections; arr.

*Five Symphonies for piano four hands: nos. 35, 36, 38, 40 and 41 ("Jupiter") / Wolfgang Amadeus Mozart*

Mineola, N.Y. : Dover Publications, 2006

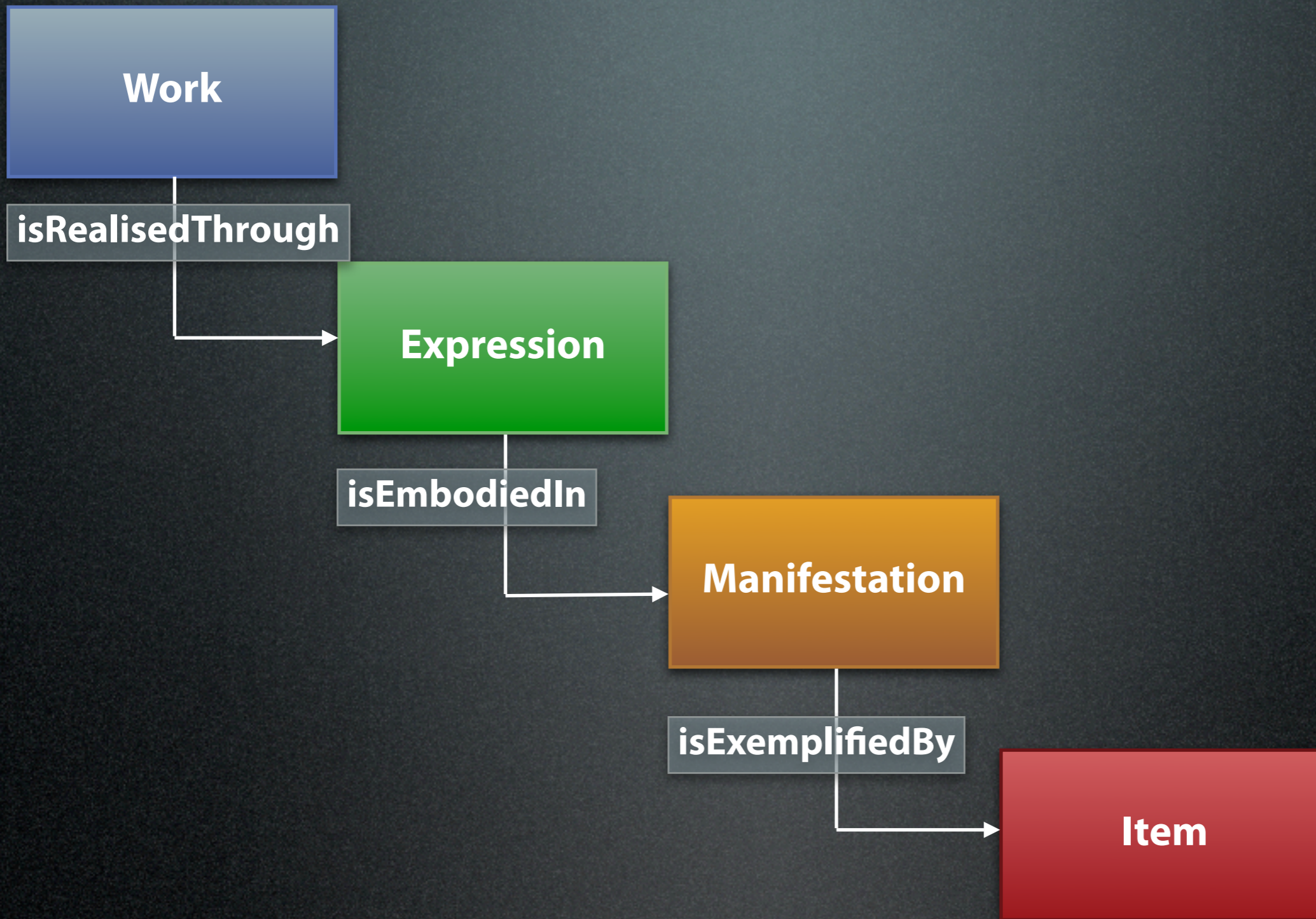
135 p. of music : facsim. ; 21x28cm.

M209 M69 S95 2006

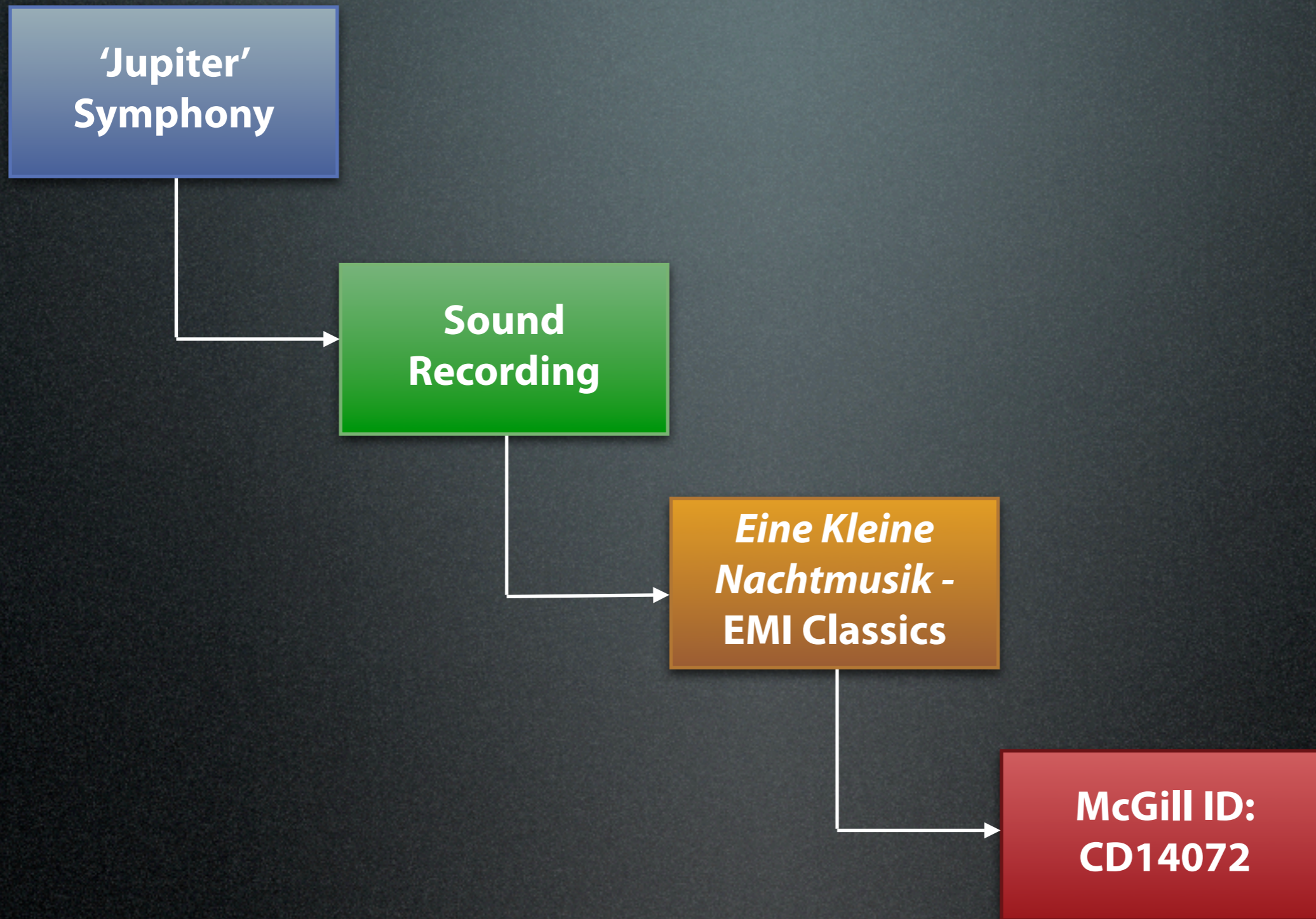
***Subjects:***

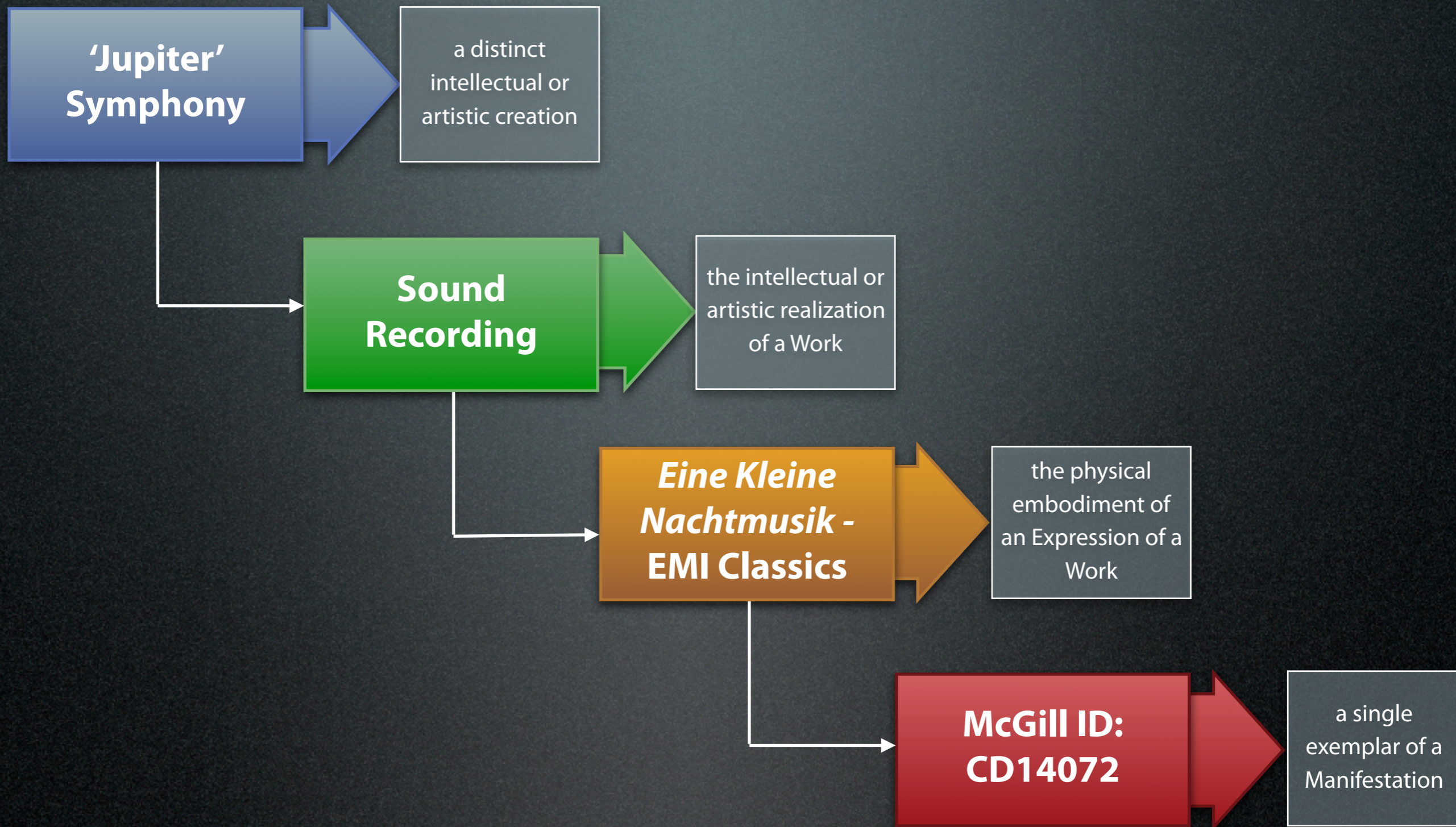
Symphonies (Piano, 4 hands), Arranged.  
Piano Music (4 hands), Arranged.

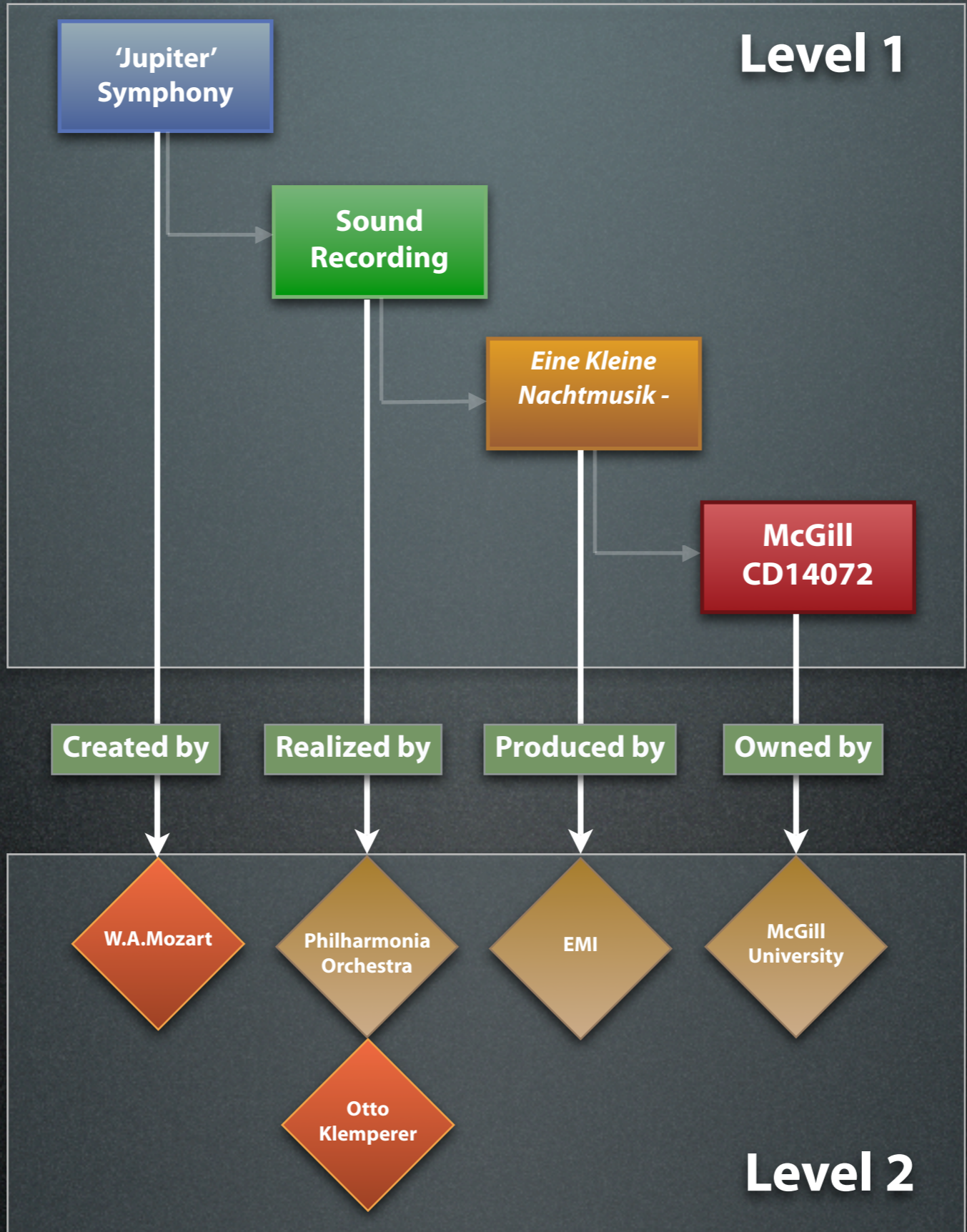
S  
S  
P











Level 1

'Jupiter'  
Symphony

Facsimile  
Score

Sound  
Recording

Barenreiter  
Edition

Eine Kleine  
Nachtmusik -

McGill  
ML96.5 M97 K.  
551 2005

McGill  
CD14072

Owned by

Produced by

Realized by

Created by

Realized by

Produced by

Owned by

McGill  
University

Barenreiter  
Verlag

W.A.Mozart

W.A.Mozart

Philharmonia  
Orchestra

EMI

McGill  
University

Ulrich  
Konrad

Otto  
Klemperer

Level 2

# Why is it important?

- **People use relationships *naturally* to find information** (Bates 1989; Bates 2002; Morville, 2005; Smiraglia 2001)
  - *progress from the known to the unknown OR the found to the unfound.*
- **Music *especially* needs this model** (Hemmassi 2002; Smiraglia 2001; Vellucci 1999)
  - **Music often exists as different expressions - 'Show me the music' can mean different things. (Score, recording, computer file)**

# What's being done

- **Online Library Catalogues are *slowly* adopting this model.**
- **Bibliographic description rules are being based on this model.**
- **Look for it in a library near you soon!**

**Questions?**