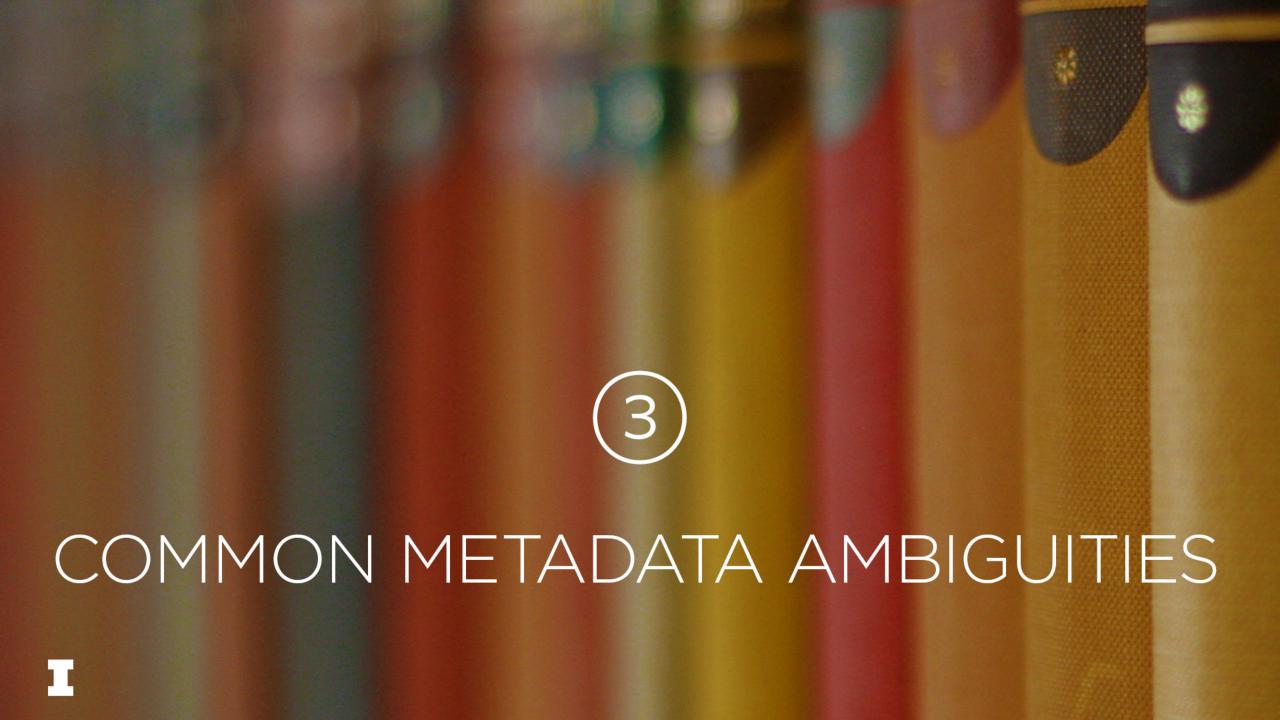
FOUNDATIONS of DATA CURATION

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Common Metadata Ambiguities

Metadata is often casually used, with ambiguous semantics

And so many problems ensue, especially for robots.

It may not be clear (to a robot) what an attribute/value pair is about

Though it is obvious enough to humans

Attributes themselves can be, to robots, problematically ambiguous

Even when perfectly clear to a human

Yes, humans can figure things out

Ok, but that's not safe, and it is not fair to robots!



To get your intuitions going . . .

In a collection of digital images of paintings; it is not uncommon to see, attached to the same image:

. . .

ID: BNF4242a

. . .

Artist: Leonardo da Vinci

. . .

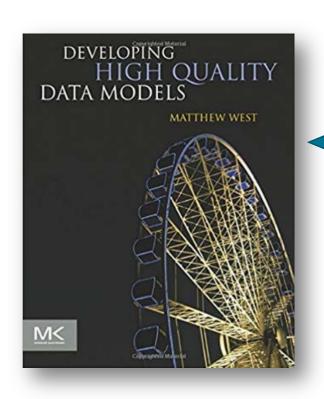
Format: JPEG

. . .

Format: oil on panel

What's wrong with this?

Recall: Bibliographic metadata



identifier (ISBN): 978-0123751065

creator: Matthew West

title: Developing High Quality Data

Models

date: 2011

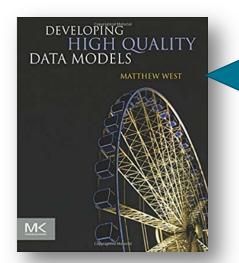
publisher: Morgan Kaufmann

subject: database design

subject: data structures (computer science)

pages: 408

"What is being described?" Problems (think FRBR)



title: **Developing High**

Quality Data Models

date: 2011

publisher: Morgan Kaufmann

subject: database design

subject: data structures

(computer science)



date: 2011

publisher: Morgan

Kaufmann

subject: database design

subject: data structures

(computer science)

language: English

pages: 389

A converse problem: two meanings for same attribute

For a while this was common practice

DC:Identifier=Book2424a DC:lang=EN to indicate a book in English

and

DC:Identifier/Coll99LB DC:lang/EN to the books in a collection are in English

What's wrong with this?



FOUNDATIONS OF DATA CURATION (IS531)

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