

The Bibliography of Chess

The fundamental concepts

Andreas Saremba

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A problem of quantity

- ◆ The human brain is not well suited to work with many facts
- ◆ But the world consists of many facts
- ◆ Even a bibliography on a topic as limited as chess contains too many!
- ◆ What is the silver bullet that solves this problem?

Organization!

From Chaos to Order, or: How to organize Knowledge

◆ Abstraction

- ◆ Find general concepts that help you to get a better understanding of your objects of interest.

◆ Terminology

- ◆ Find good names for your objects of interest, define them precisely and use them consistently.

◆ Structure

- ◆ Organize objects into hierarchies.
- ◆ Identify relations between the objects.

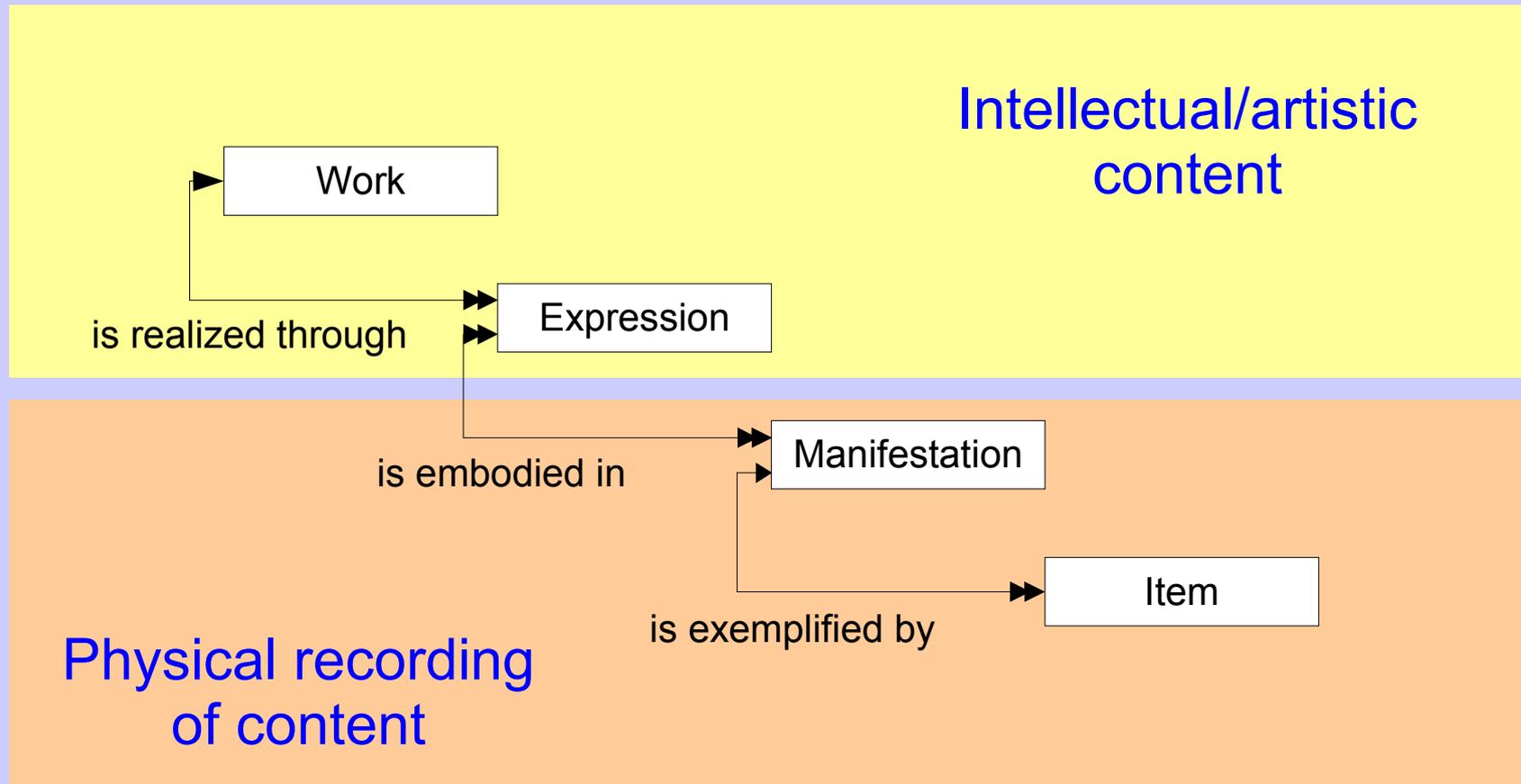
The Need for Abstractions

- ◆ What do I mean when I talk about Dufresne's „Kleines Lehrbuch des Schachspiels“ ?
 - ◆ The one book that sits on my bookshelf?
 - ◆ All the books that have been printed together with mine?
 - ◆ All the editions of the book with exactly the same content as mine? Including translations?
 - ◆ All the editions of the book ever produced, regardless of variations in content?

The Need for Terminology

- ◆ We form our abstractions by assigning names to them:
 - ◆ The one book that sits on my bookshelf is an **item**.
 - ◆ All the books that have been printed together with mine form a **manifestation**.
 - ◆ All the editions of the book with exactly the same content as mine (in the same language) form an **expression**.
 - ◆ All the editions of the book ever produced, regardless of variations in content, form a **work**.

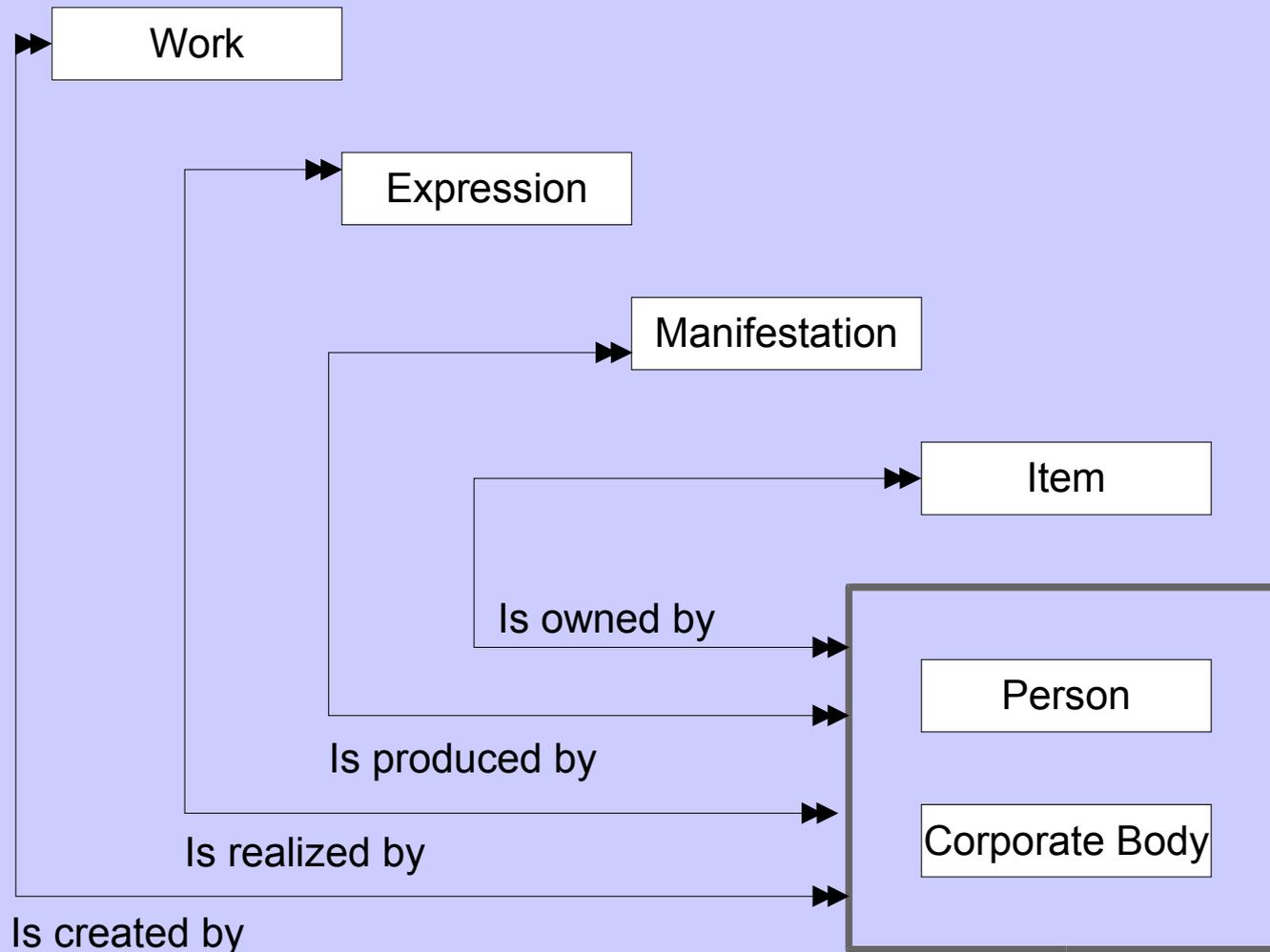
Hierarchy (of Group 1 objects)



Group 2: Actors

- ◆ Our second group of abstractions consists of actors, who create, produce and/or own the Group 1 entities:
 - ◆ **Persons**
 - ◆ **Organizational Bodies**

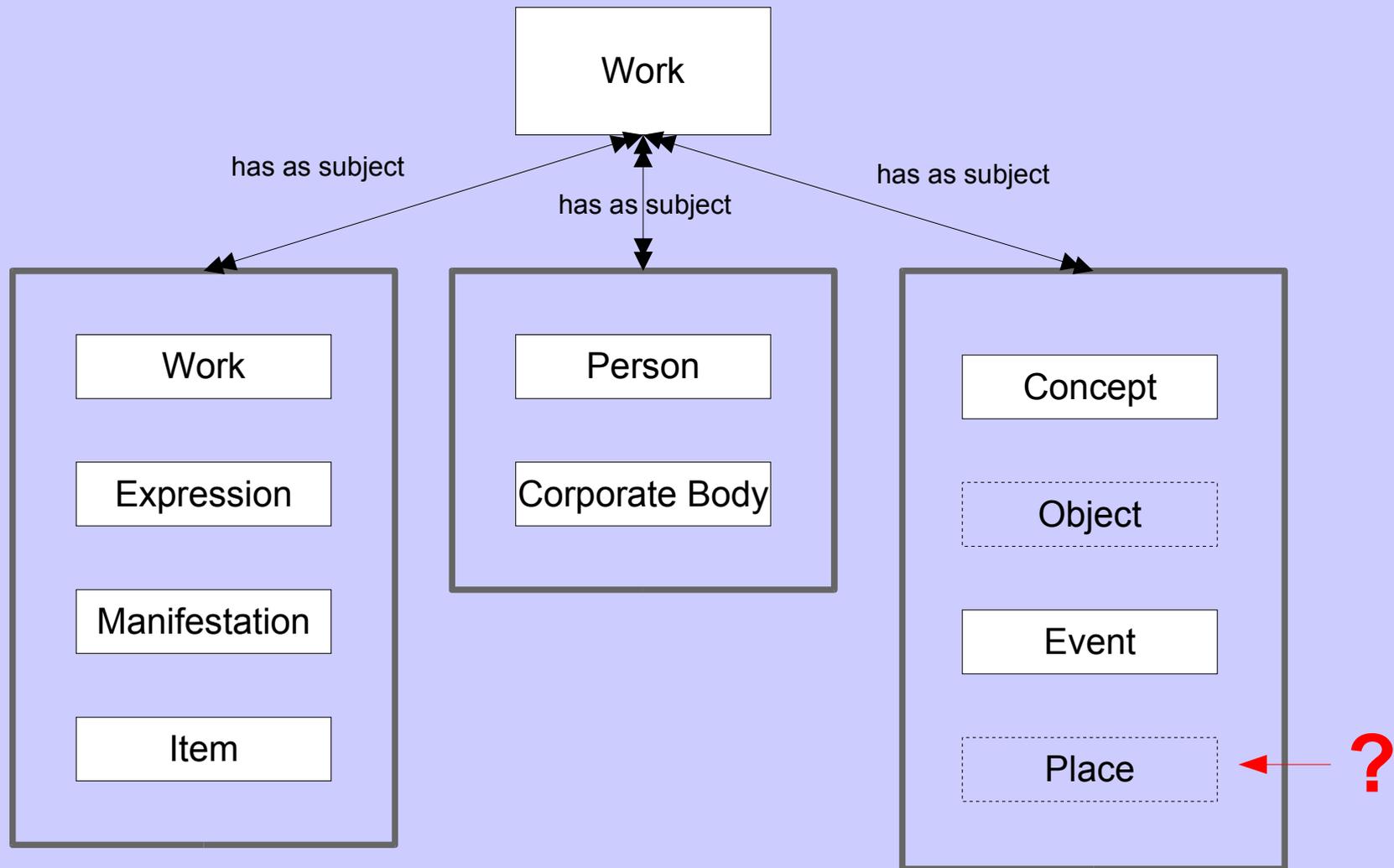
Relations between Group 1 and Group 2 entities



Group 3: Subjects

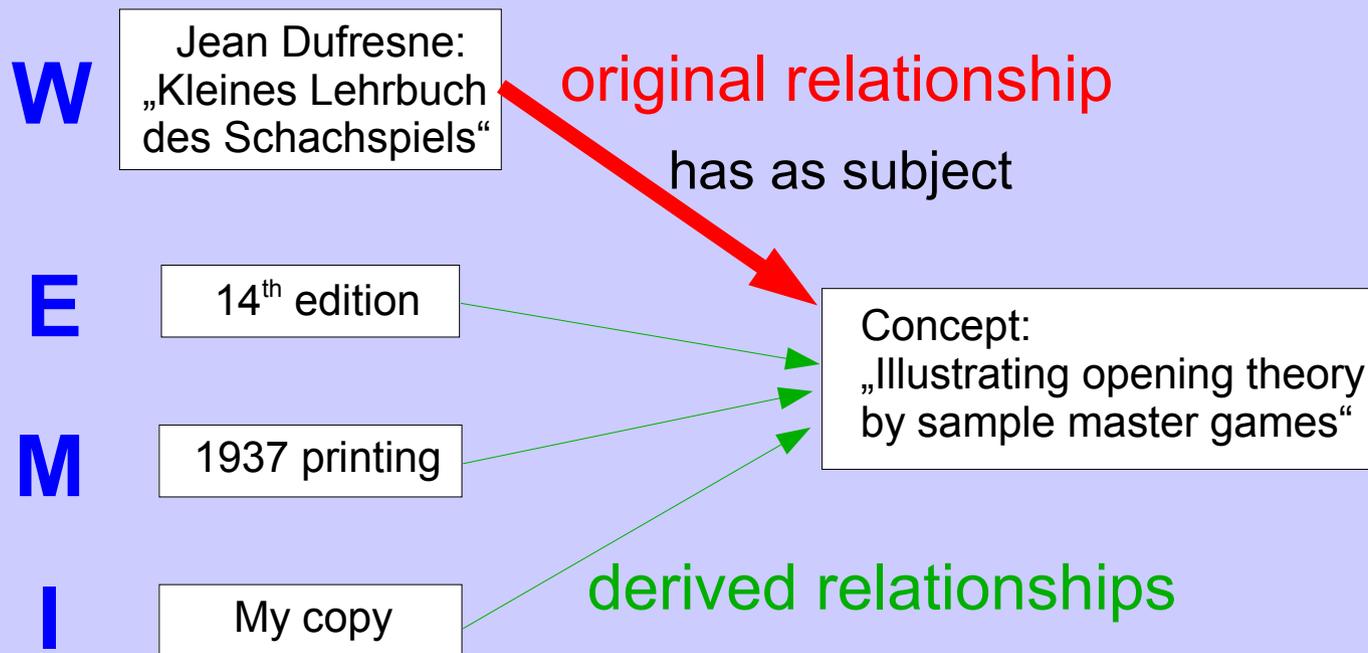
- ◆ In addition to books and their creators, we have to consider their contents.
What are the subjects of books (in addition to the Group 1 and 2 entities) ?
 - ◆ **Concepts**
 - ◆ Objects
 - ◆ **Events**
 - ◆ Places

The Subject Relation between Group 1 and other entities



A Benefit of Hierarchy: Inheritance

- ◆ If a work has some entity as its subject, the same applies to each derived entity!

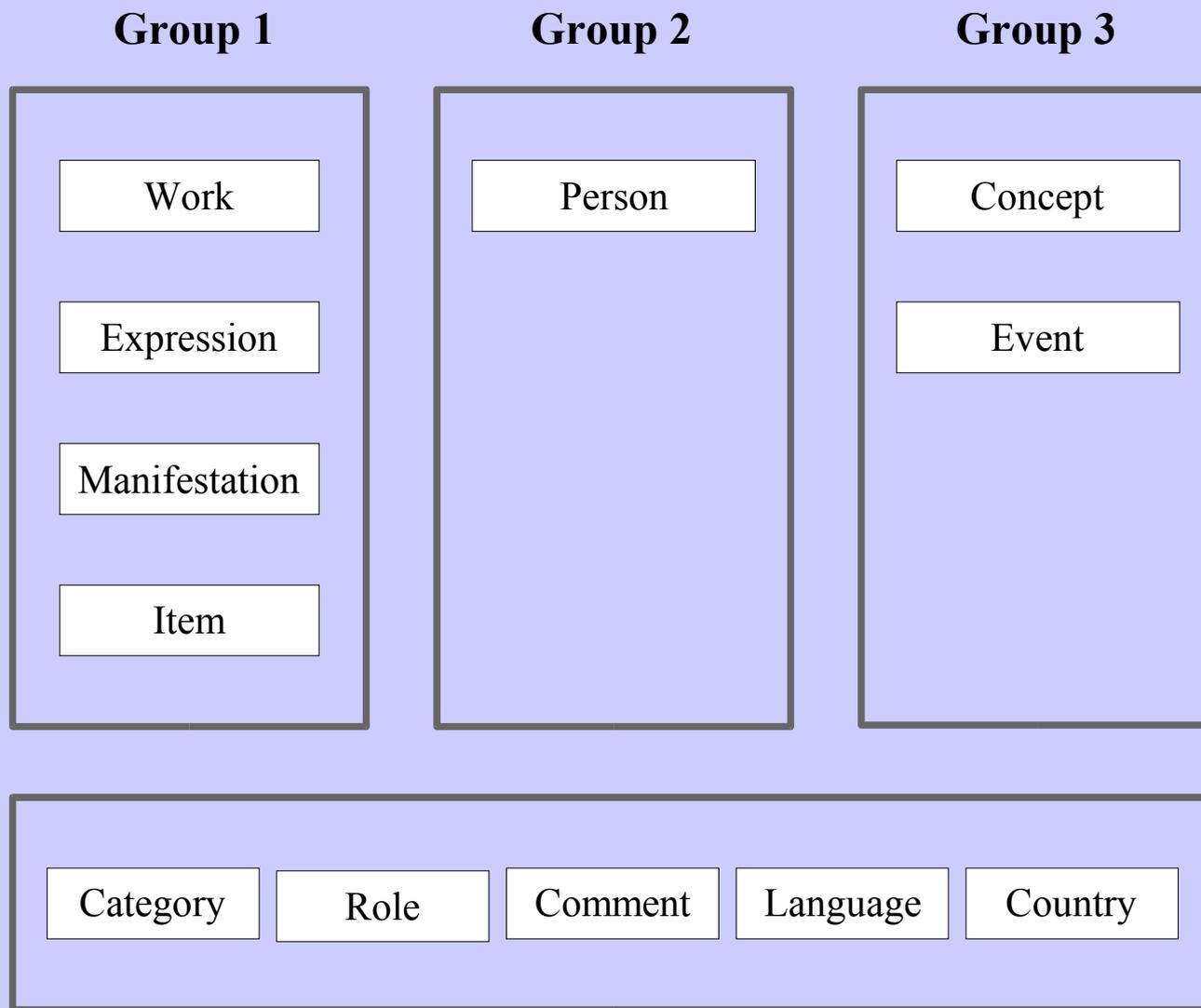


Supporting Entities

(only in BoC, not in FRBR)

- ◆ In addition to the three main groups, there are five more „supporting“ entities in BoC
 - ◆ **Category**
 - ◆ **Role**
 - ◆ **Comment**
 - ◆ **Language**
 - ◆ **Country**

Overview: BoC Entities



Supporting Entities

Tasks and Challenges

Before we can start, there are „a few things“ to be done!

- ◆ Define attributes for the entities
- ◆ Implement the data model
- ◆ Get data for an initial database upload
- ◆ Define clear and precise cataloguing rules
- ◆ Define and establish an editorial process
- ◆ Build a good user interface

Task 1:

Define attributes for the Entities

- ◆ Try to capture everything that is essential
- ◆ Be realistic!
- ◆ Every attribute has to be implemented in both the database and the user interface
- ◆ Don't overwhelm the users! They have to provide the content for the attributes!

Task 2: Implement the Data Model

- ◆ This is a task for the technical experts, not the user community
- ◆ We are in a lucky situation: There is excellent free software, in particular databases.
- ◆ The challenge here is not to „over-normalize“

Task 3:

Get Data for an initial DB Upload

- ◆ This is a big problem
- ◆ Reason is not a lack of data, but ...
 - ◆ A library catalog is not a bibliography
 - ◆ Most existing data are inconsistent
 - ◆ Data don't fit our FRBR model
- ◆ Jurgen will tell you more about this topic

Task 4:

Define clear and precise Rules

- ◆ Consistency will suffer if everybody is on his own when entering data
- ◆ It is not too easy to define rules (takes experience)
- ◆ We need to agree to compromises (opinions may differ)
- ◆ This is a (non-technical) task that calls for the experienced bibliographers in the community

Task 5:

The Editorial Process

- ◆ Everybody will be welcome to provide data for the bibliography, but...
- ◆ For really good quality, all information will need to be checked and confirmed by experts
- ◆ Therefore, we need people who
 - ◆ Check new entries
 - ◆ Coordinate the work
- ◆ We need a good infrastructure for this!

Task 6:

Build a good User Interface

- ◆ Every data entry involves a search in the existing data, so it has to be done online!
- ◆ Fortunately, the basic infrastructure is available: The ubiquitous Internet
- ◆ There is no realistic alternative to a Web Interface (which means a browser like Internet Explorer or Mozilla)
- ◆ My plan is to implement it as Open Source SW (which might attract helpers)