



#### It's fun to play with the

Component Meta Data Infrastructure



# Using component metadata

#### **Dieter Van Uytvanck**

Max Planck Institute for Psycholinguistics Dieter.VanUytvanck@mpi.nl

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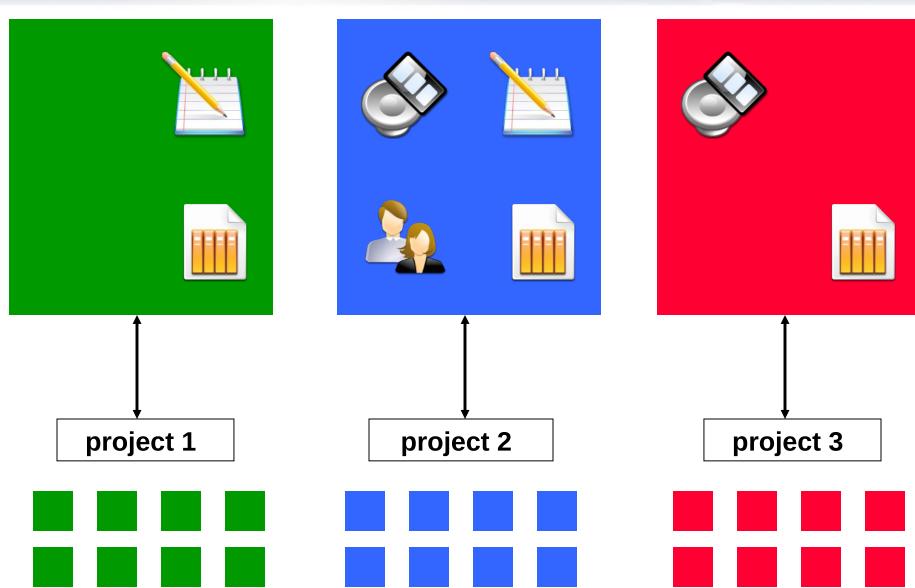
#### Overview



- Traditional metadata
- Component metadata
- Data categories
- The big picture
- In practice:
  - Building components
  - Using components

### **Traditional Metadata**





#### Traditional Metadata: problems



- Lack of flexibility
  - Too many fields...
  - ... but not the ones I am looking for!
- Lack of interoperability
  - My metadata does not work with your infrastructure!
  - Nederland? Netherlands? The Netherlands? Holland? NL?





#### Context



- Other Metadata Infrastructures in our domain:
  - IMDI, OLAC/DC, TEI header
- Problems:
  - Inflexible: too many (IMDI) or too few (OLAC) fields
  - Limited interoperability
  - Problematic (unfamiliar) terminology for some subcommunities.
  - etc.

#### **CLARIN Project - CMDI**

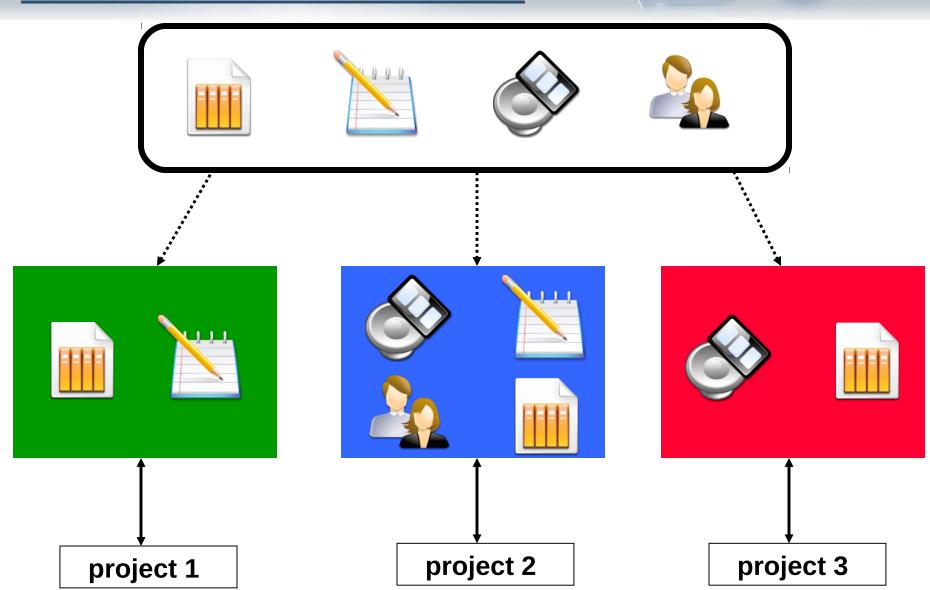


- Metadata infrastructure based on a "Component Metadata Model"
- Aims
  - Flexibility
    - Researcher should themselves decide what metadata fits their needs
    - Offer ready made metadata components
    - Allow creation of new metadata components needed
  - Interoperability built-in
  - Complete Infrastructure: software for editing, harvesting, exploitation
  - Compatibility with existing frameworks:
    OLAC, IMDI



## Component Metadata





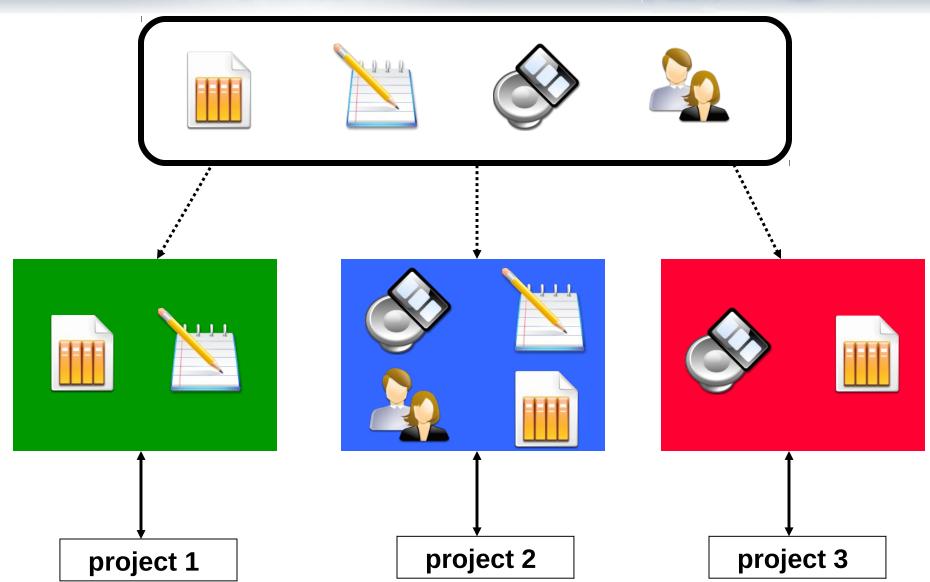
### Some terminology



- Element = atomic unit (a "field") e.g. recording date
- Component = set of elements e.g. Actor
- Profile = set of components e.g. OLAC profile
- Instance = one metadata description e.g. myresource.cmdi
- Schema = technical (formal) grammar describing a profile e.g. olac.xsd

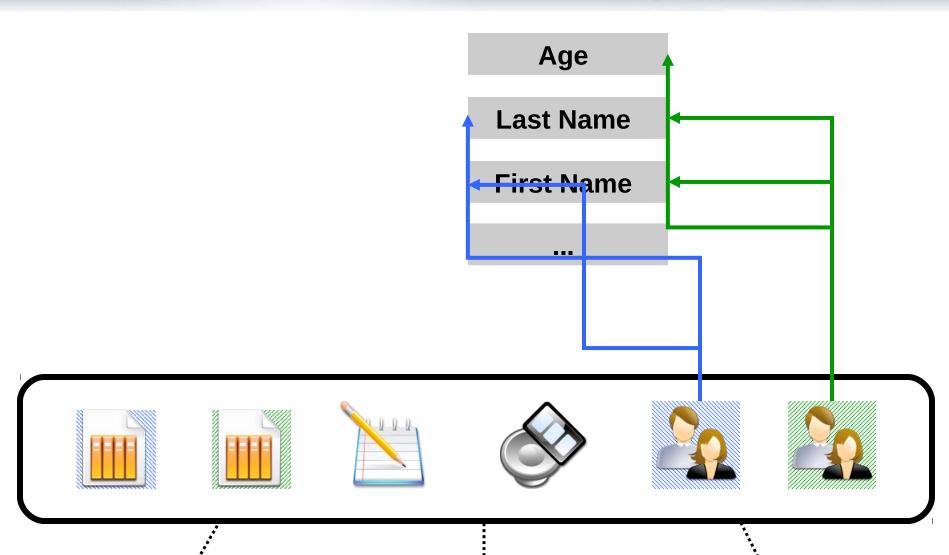
## **Data Categories**





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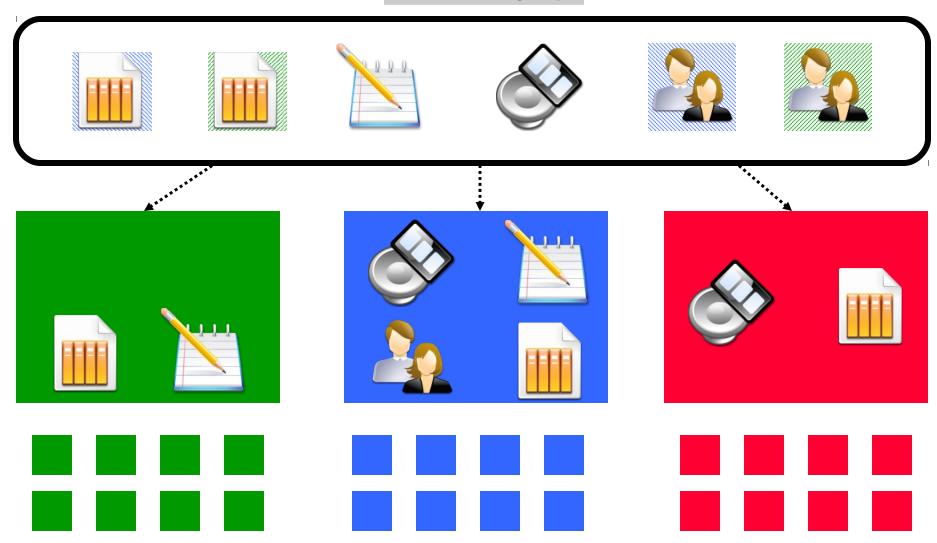




## The big picture

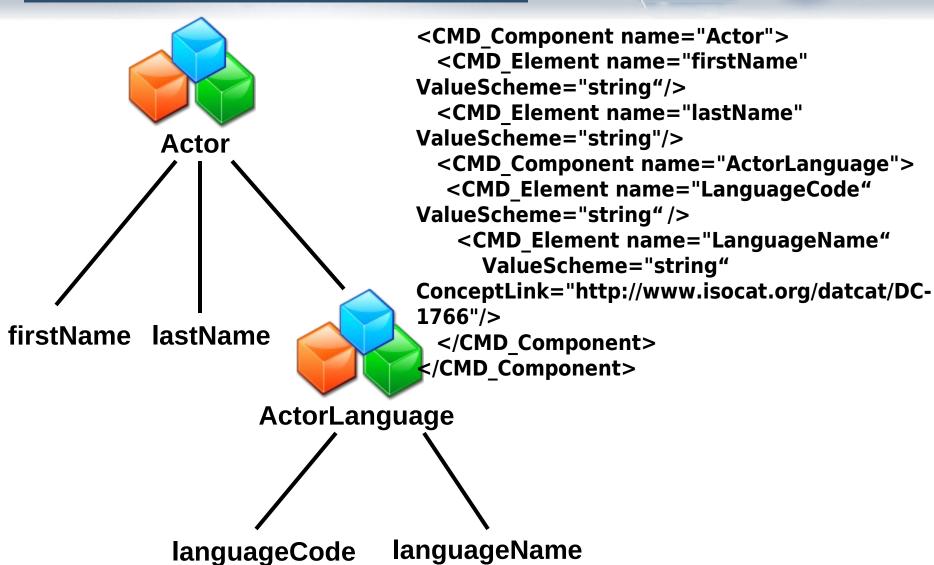


#### **Data Category**



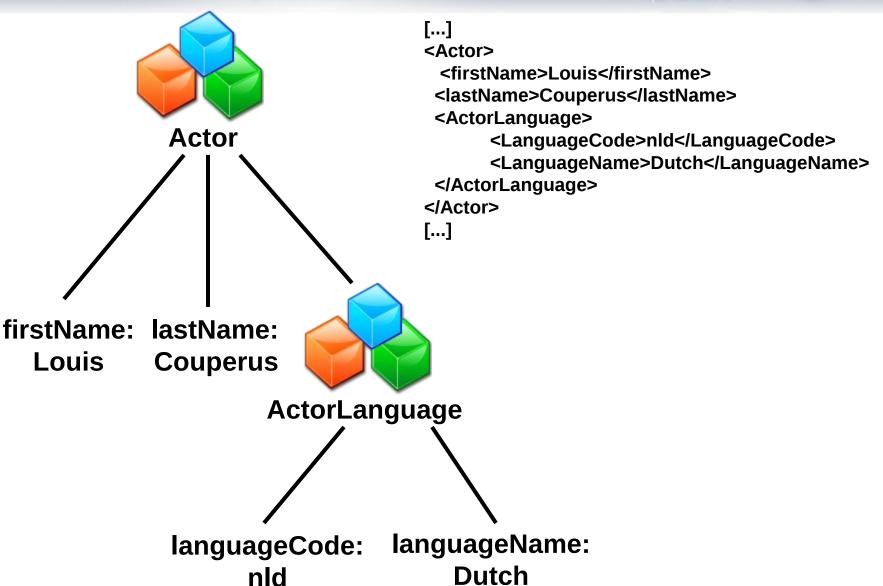
#### Building a component





#### Using a component





#### A close look at a CMDI file



- A toy example:
  - http://www.clarin.eu/cmd/example/example-md-instance.cmdi
- A corpus description:
  - http://www.clarin.eu/cmd/example/example-phonologicalcorpus.cmdi

#### **Process overview**



- Check the Component registry:
  - Any profile that fits your needs?
  - If not:
    - Any component that fits your needs?
    - If not:
      - Create your own component!
      - Looking for a data category that is not there?
        - Create a new data category!
    - Combine components together in a profile
- Start Arbil or your XML-editor
  - Select the profile/XSD that suits your needs
  - Create metadata instances

#### Conclusions



- Building your own components and profiles is already possible
- Creating CLARIN metadata descriptions too
- This is **not** the complete infrastructure:
  - Format will be supported in the future
  - Component Registry and Arbil will be extended
    - Please, send your feedback!
  - To be expected: user friendly
    - Browsers / Repositories
    - search engines

## Where to get the software?



http://www.clarin.eu/cmdi



#### Where to get support?



## There's no need to be unhappy!

cmdi@clarin.eu





## Thank you for your attention

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