

# Data Modelling: Possibilities and Challenges

Christian Sievers

arkumu.nrw / Academy of  
Media Arts Cologne

# arkumu.nrw

Archive der Kunst- und  
Musikhochschulen

Digital Preservation for art and music  
academies

To catalogue, publish and preserve the digital multimedia resources of the art and music academies of the state of NRW.

# challenges

**extremely heterogenous data**

**retro-digitised and born-digital files**

**existing historical collections and  
ongoing accession of graduation  
projects**

# **all art genres**

**Dance**

**Design**

**Film and TV**

**Fine and Media Art**

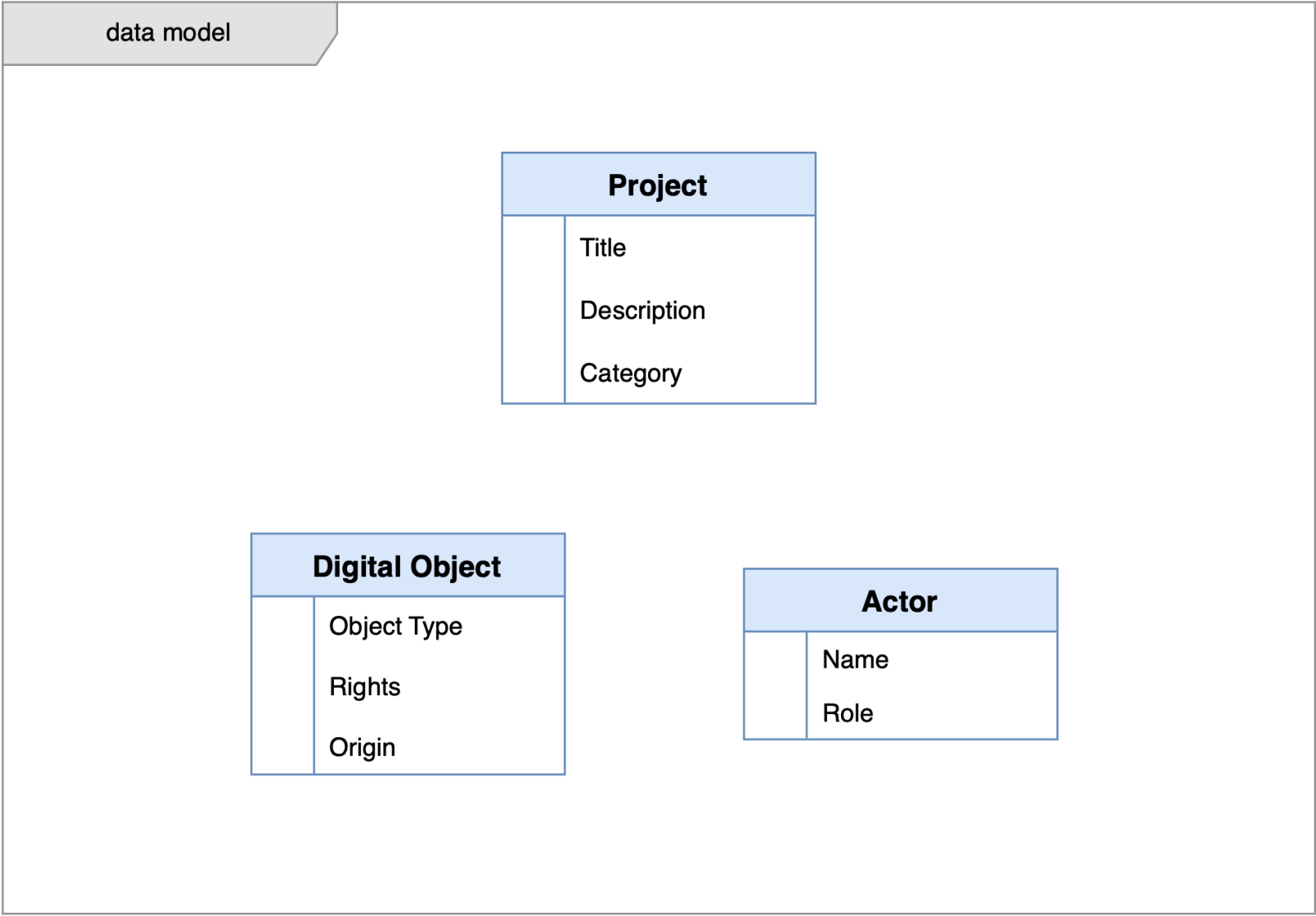
**Literature**

**Music**

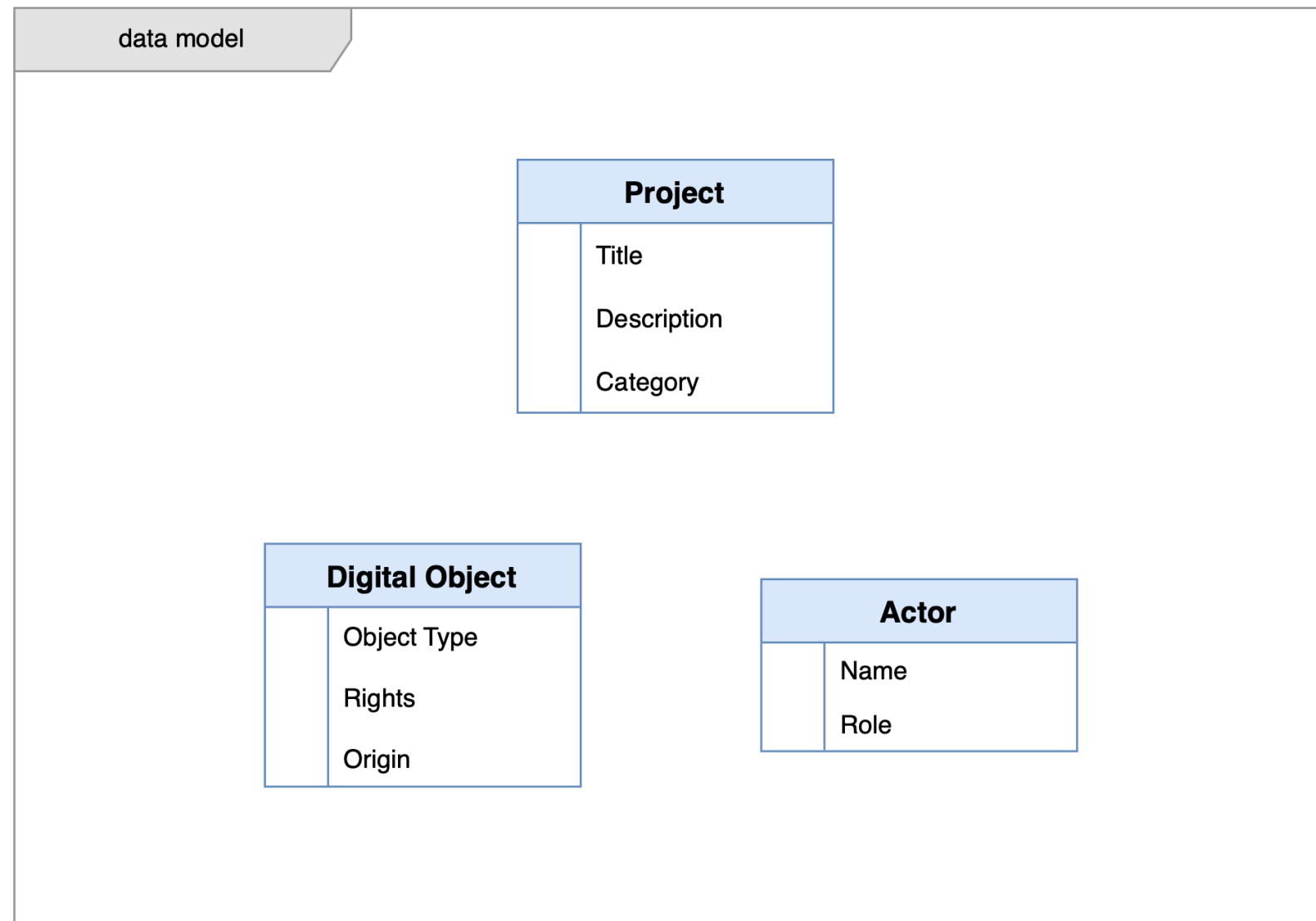
**Photography**

**Theatre**

**data modelling**

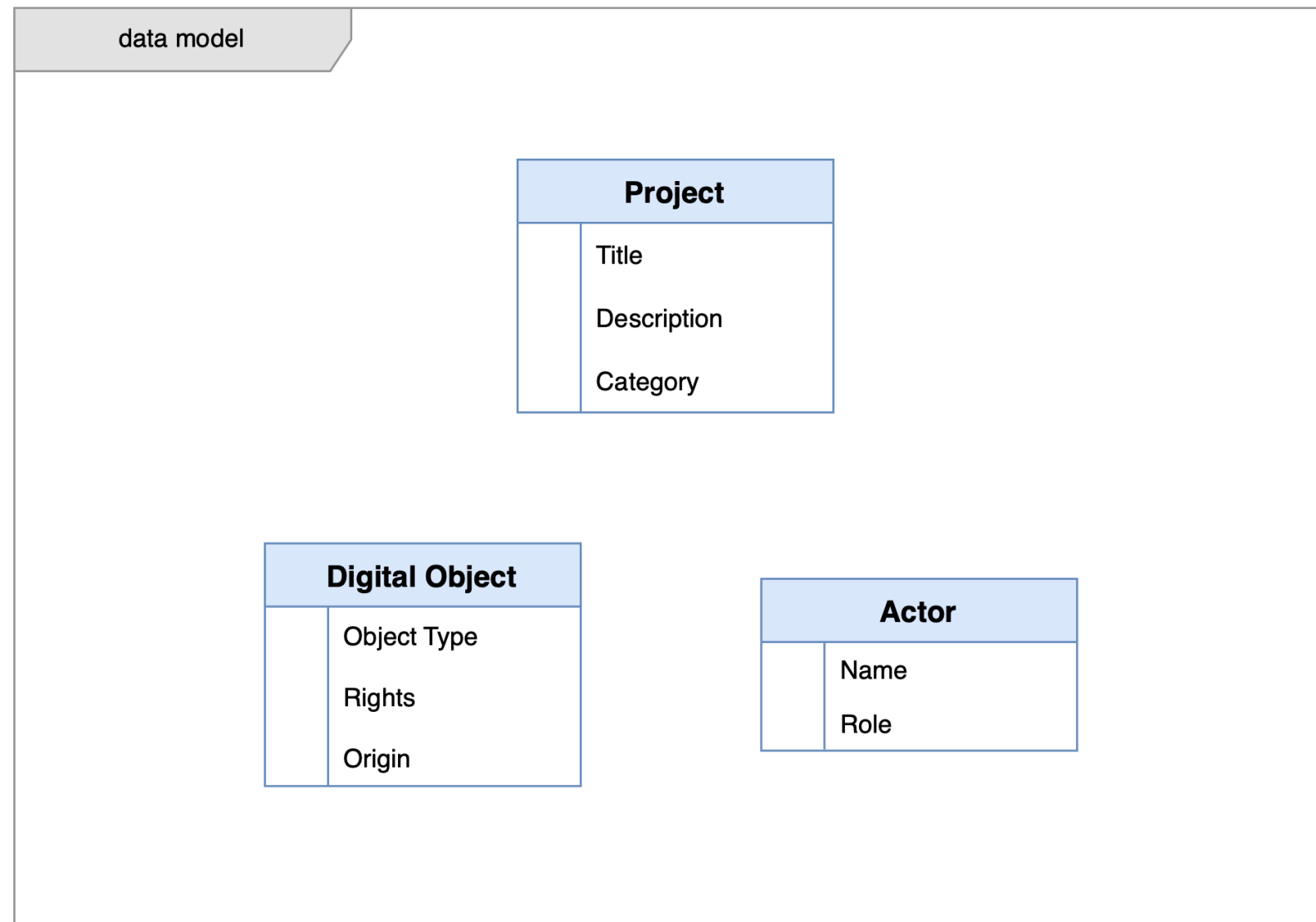


# Projects (Works)

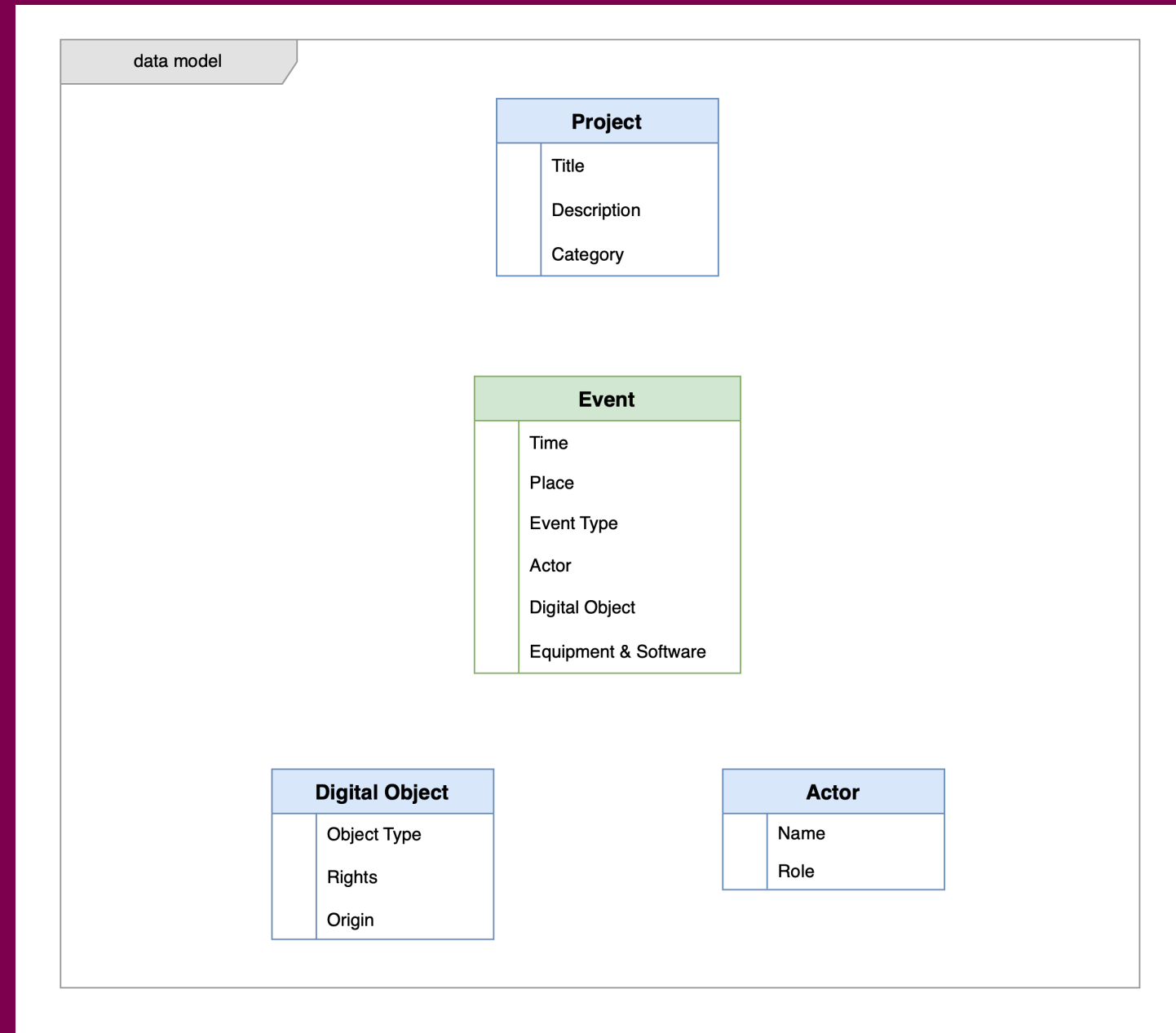


Projects have Digital Objects

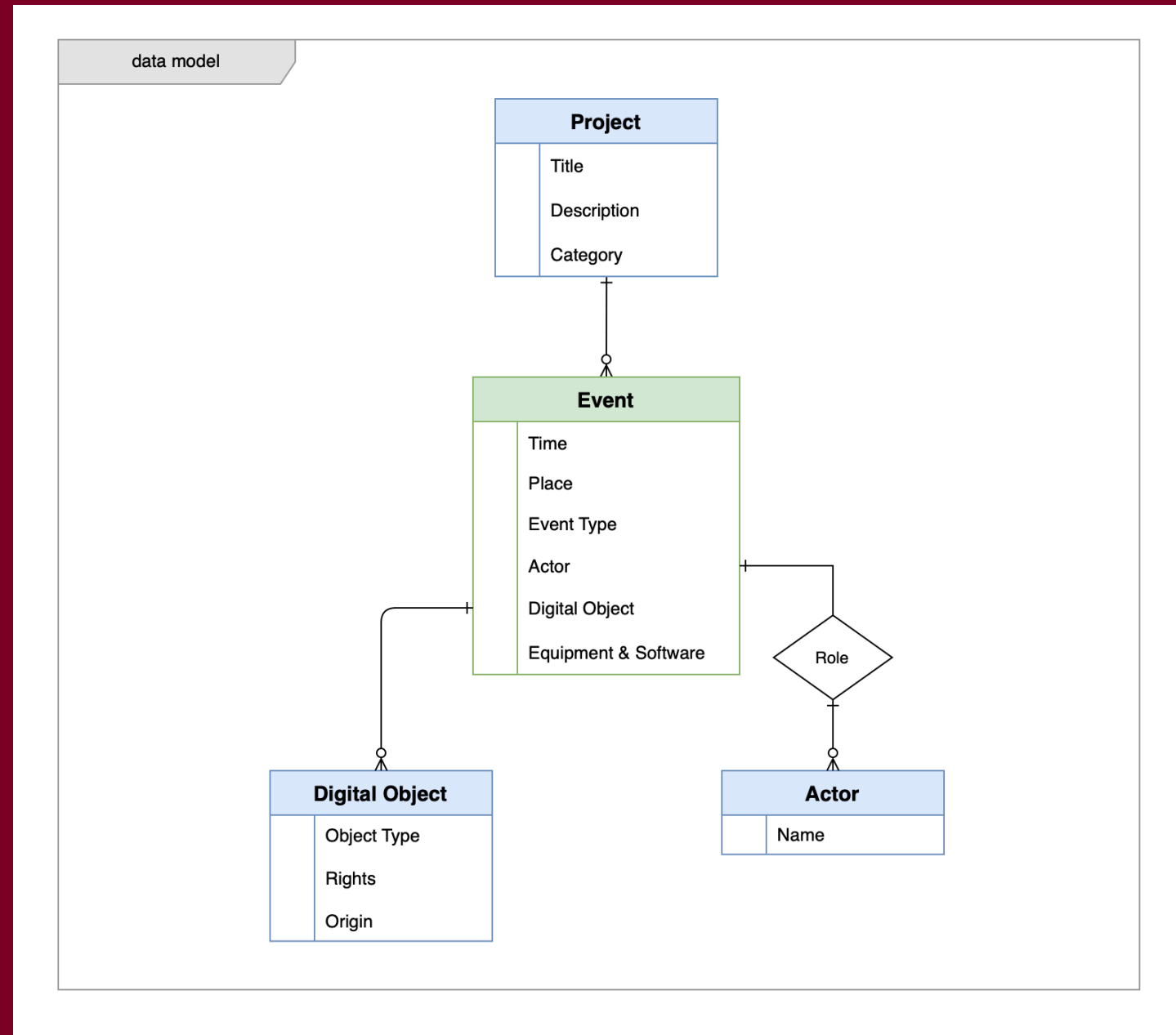




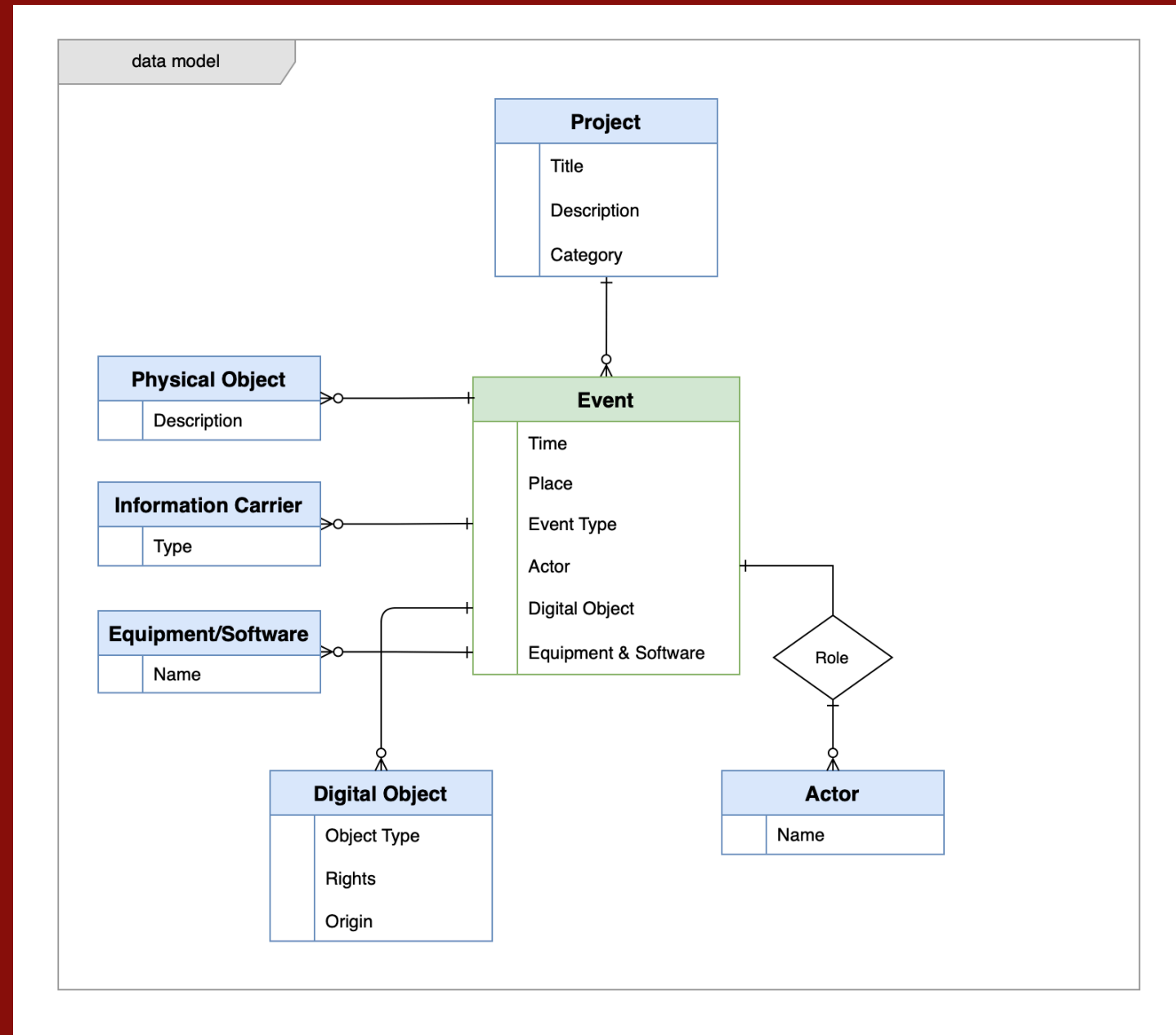
Projects have Actors



Projects have **Events**



a **Project/Event** Archive



almost everything is connected to Events

# Types of events (selection)

Concert

Concert series

Creation

Destruction

Digitization

Documentation

Exhibition

Festival

Film Screening

Interview

Modification

Musical Composition

Performance

Première

Premiere broadcast

Production

Publication

Redesign

Rehearsal

Speech

Workshop

Using LIDO as a conceptual model, which in turn is based on CIDOC CRM.

Information about events is often only implicitly given, or "hidden" data, but can be recognised by references to times and locations.

# Authority Files

- Almost all entities are enriched with authority files: projects/works, actors, roles, places, categories, keywords, information carrier types, event types, materials and more
- Using GND, Wikidata, AAT, VIAF, LCCN, OrcID and other providers
- Enabling Linked Open Data connectivity
- Providing metadata for Europeana and other aggregators

# Classifications and Ontologies

[docs.digi-kunst.nrw](https://docs.digi-kunst.nrw)

