

# Geschmacksbildung und Verlagspolitik

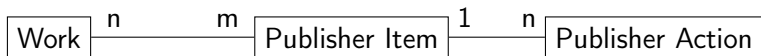
Maximilian Rosenthal, Matthias Richter

July 7, 2021

# Technical Challenges

- ▶ How to output data for further research
- ▶ How to work with data from authority files

# How to Output Data



# Stored Data

## WORK

<b>id.work</b>	<b>title.work</b>	...
3135	A German Requiem	...
822	Sonata (B flat major)	...
823	Sonata (D major)	...
...	...	...

## PUBLISHER ITEM

<b>id.item</b>	<b>title.item</b>	<b>db_ identifier.item</b>	...
948	Compositionen à 4/ms	PE_00012	...
672	Opus 45. Ein deutsches Requiem Partitur.	RB_00592	...
2722	Opus 45. Ein deutsches Requiem Clavier-Auszug.	RB_00593	...
...	...	...	...

# Stored Data

## WORK:PUBLISHER ITEM

<b>id.work</b>	<b>id.item</b>
3135	672
3135	2722
822	948
823	948
...	...

## PUBLISHER ACTION

<b>id.action</b>	<b>date.action</b>	<b>quantity.action</b>	<b>id.item</b>	...
4123	9 November 1868	75	672	...
2342	8 April 1869	25	672	...
5414	9 November 1868	150	2722	...
5123	6 March 1869	100	2722	...
5234	1 March 1878	3000	948	...
5241	1 July 1878	3000	948	...
...	...	...	...	...

## Possible Output View

<b>title.work</b>	<b>title.item</b>	<b>date.action</b>	<b>quantity.action</b>
A German Requiem	Opus 45. Ein deutsches Requiem Partitur.	9 November 1868	75
A German Requiem	Opus 45. Ein deutsches Requiem Partitur.	8 April 1869	25
A German Requiem	Opus 45. Ein deutsches Requiem Clavier-Auszug.	9 November 1868	150
A German Requiem	Opus 45. Ein deutsches Requiem Clavier-Auszug.	6 March 1869	100
Sonata (B flat major)	Compositionen à 4/ms	1 March 1878	3000
Sonata (B flat major)	Compositionen à 4/ms	1 July 1878	3000
Sonata (D major)	Compositionen à 4/ms	1 March 1878	3000
Sonata (D major)	Compositionen à 4/ms	1 July 1878	3000
...	...	...	...

# Solutions

- ▶ customizable table 'range' along the scale  
Publisher Action – Publisher Item – Work – Composer – Instrument – Genre
- ▶ ready to research graphics on homepage

# Authority Files

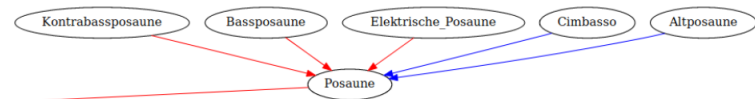
- ▶ *Gemeinsame Normdatei/Integrated Authority File* GND
- ▶ maintained by German National Library
- ▶ collects and relates terms and entities for use by libraries
- ▶ covers works, composers, instruments and genres
- ▶ heterogeneity with respect to granularity, relations between specific and broad terms, categorization of terms



## Broader term types

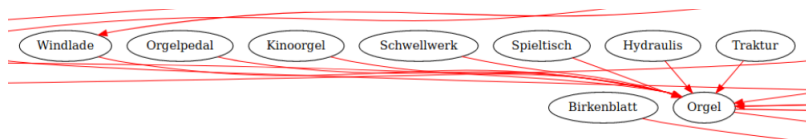
- ▶ broader term generic *bird* – *eagle*
- ▶ broader term instancial *river* – *Rhine*
- ▶ broader term partitive *car* – *wheel*
- ▶ broader term general  
*no more specification, only to use in controversial or uncertain cases*

# Generic vs. general



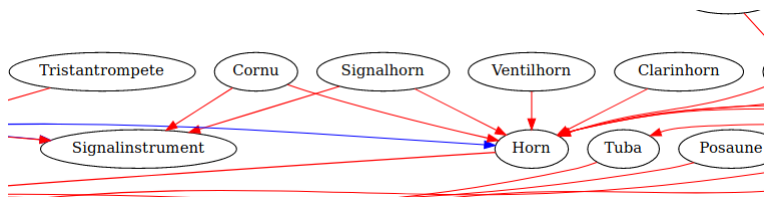
red: general, blue: generic

# Partitive relations



red: general, blue: generic

## Tree vs. Network



# Solution

- ▶ use a subset of the authority data
- ▶ remove too broad and too fine grained terms
- ▶ remove multiple broader term relations
- ▶ but keep connection to authority file

# Conclusion

## Challenges and Possible Solutions

- ▶ Editions are hard to grasp due to their modular character. We preserve the sources' granularity in the Micro layer and add a more abstract Macro layer which aims at the users' understanding of a musical edition.
- ▶ Data models with complex hierarchical relations are hard to export into a linear downloadable data format. We will support export formats which aim at specific research questions and facilitate research by offering ready to use graphics on our homepage.
- ▶ The use of authority files imports new sources of heterogeneity into the project. We will create and use a cleansed ontology while preserving links to the authority file.

## Open Questions

- ▶ How do you count more or less independent parts of a modular system?