# The SIMSSADB Data Model

Presented by Emily Hopkins

SIMSSA DB team: Cory McKay, Gustavo Polins Pedro, Yaolong Ju, Ichiro Fujinaga, and Julie Cumming

SIMSSA Workshop XVII: Infrastructure for Music Discovery CIRMMT, McGill University, Montreal QC, 1 Dec. 2018

## How do we model music?

# How do we track provenance?

e.g. "Beethoven's Third Symphony"

e.g. "Beethoven's Third Symphony"

Libraries and databases deal with describing and storing items.

e.g. "Beethoven's Third Symphony"

Libraries and databases deal with describing and storing items.

e.g. "IMSLP46066-PMLP02581-Op.55.pdf"

#### **IFLA-LRM**

(Inernational Federation of Library Associations and Institutions -- Library Reference Model)

Work: Beethoven Symphony

No. 3

**Expression:** piano reduction,

study score

Manifestation: particular edition (e.g., Breitkopf & Härtel, 1862)

**Item:** specific object (the file as it exists stored on IMSLP)

#### **IFLA-LRM**

#### **SIMSSA DB Data Model**

**Work:** Beethoven Symphony No. 3

Work: Beethoven Symphony No. 3

**Expression:** piano reduction, study score

Related work: piano reduction

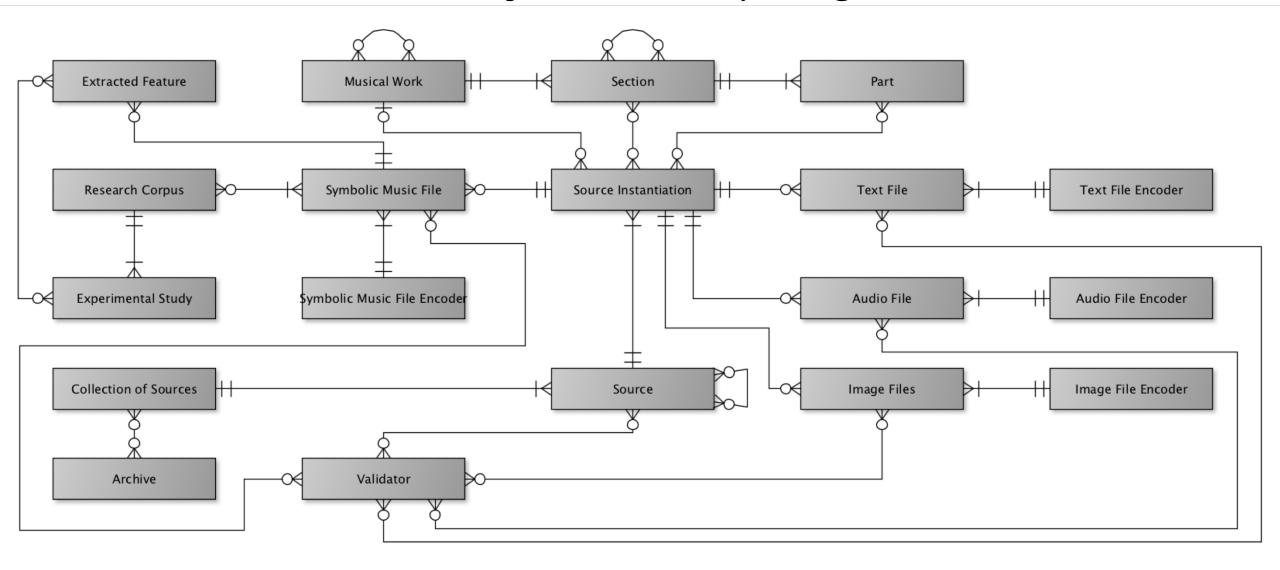
Manifestation: particular edition (e.g., Breitkopf & Härtel, 1862)

Source: particular edition (e.g., Breitkopf & Härtel, 1862)

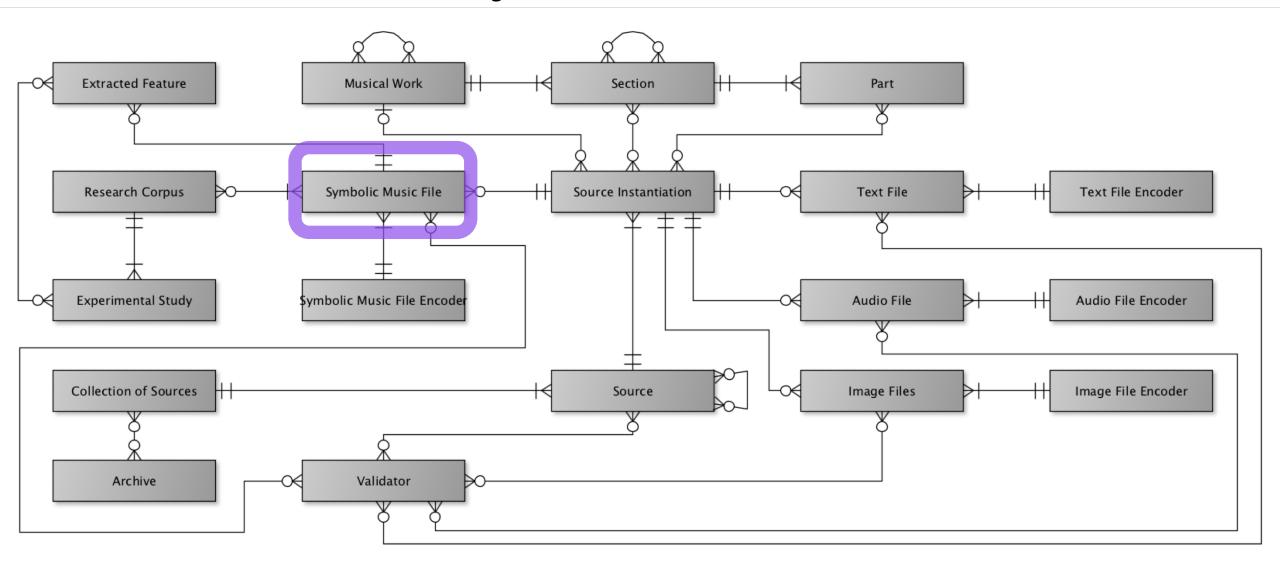
**Item:** specific object (the file as it exists stored on IMSLP)

File: specific object (the file as it exists stored on IMSLP)

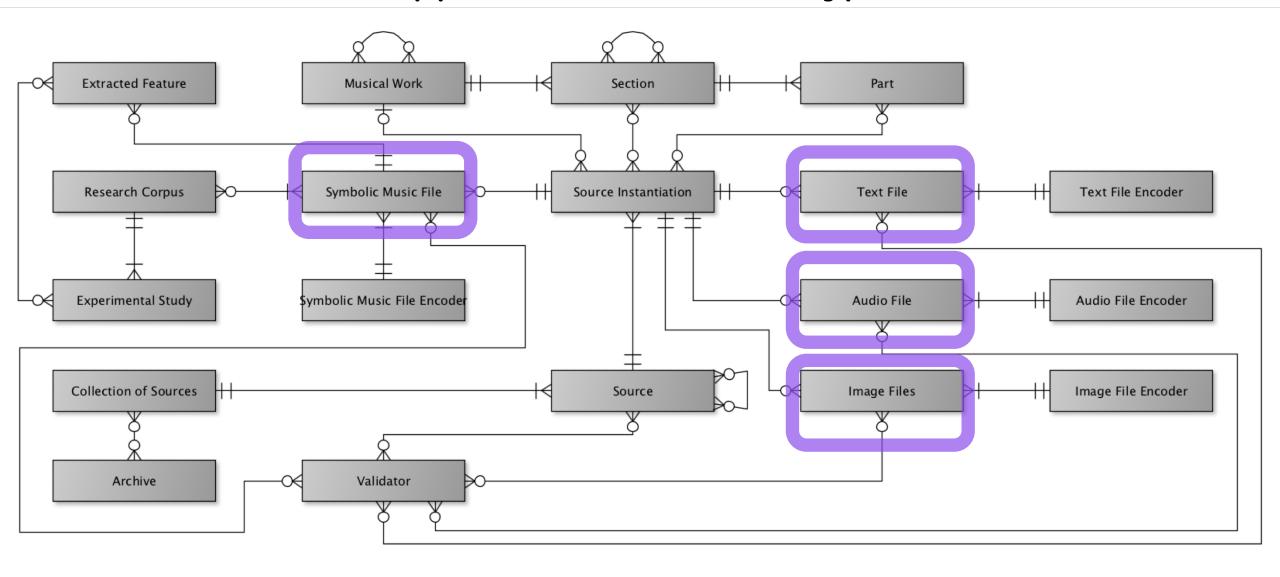
## **Entity-Relationship Diagram**



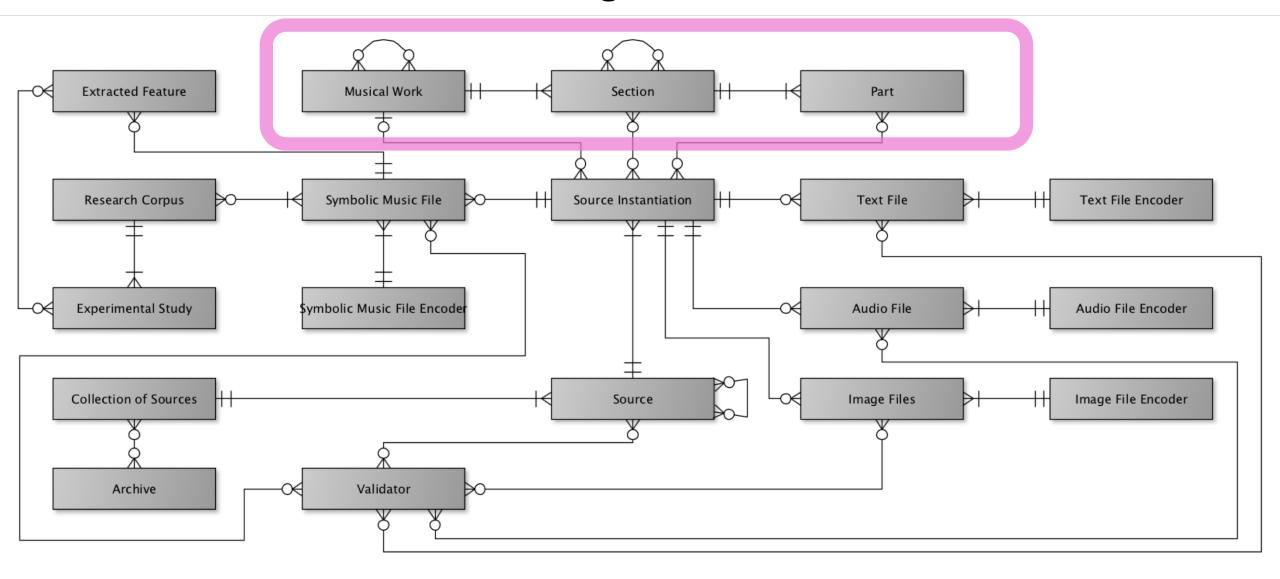
### **Symbolic Music Files**

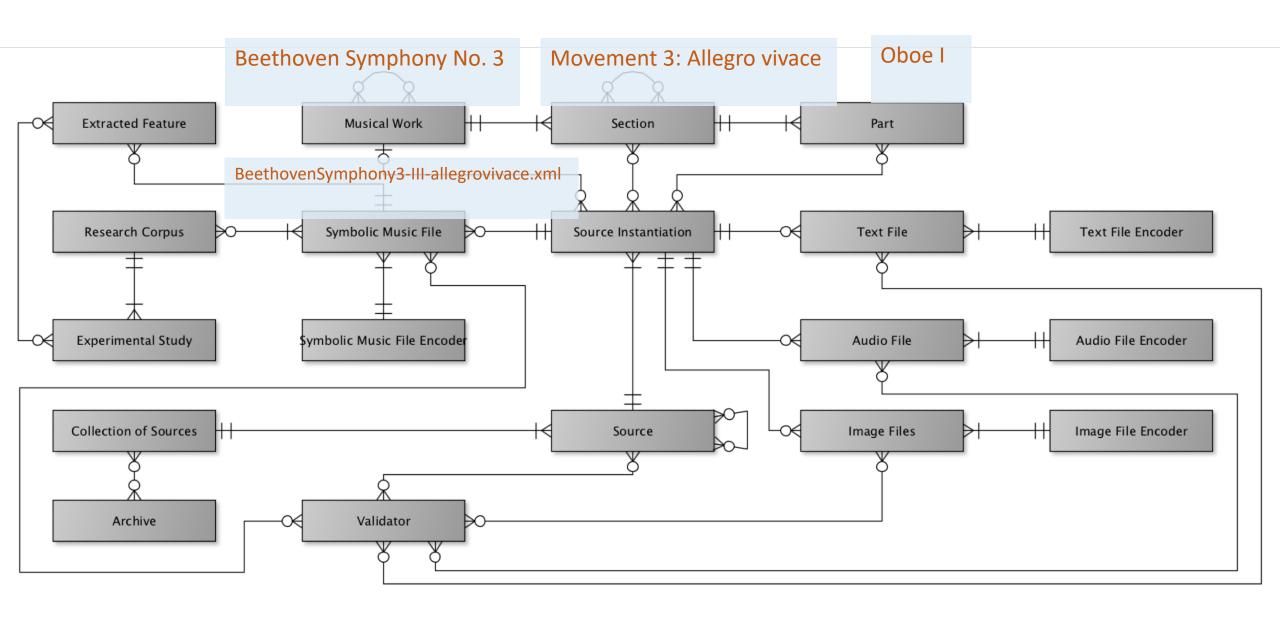


#### Support for different file types



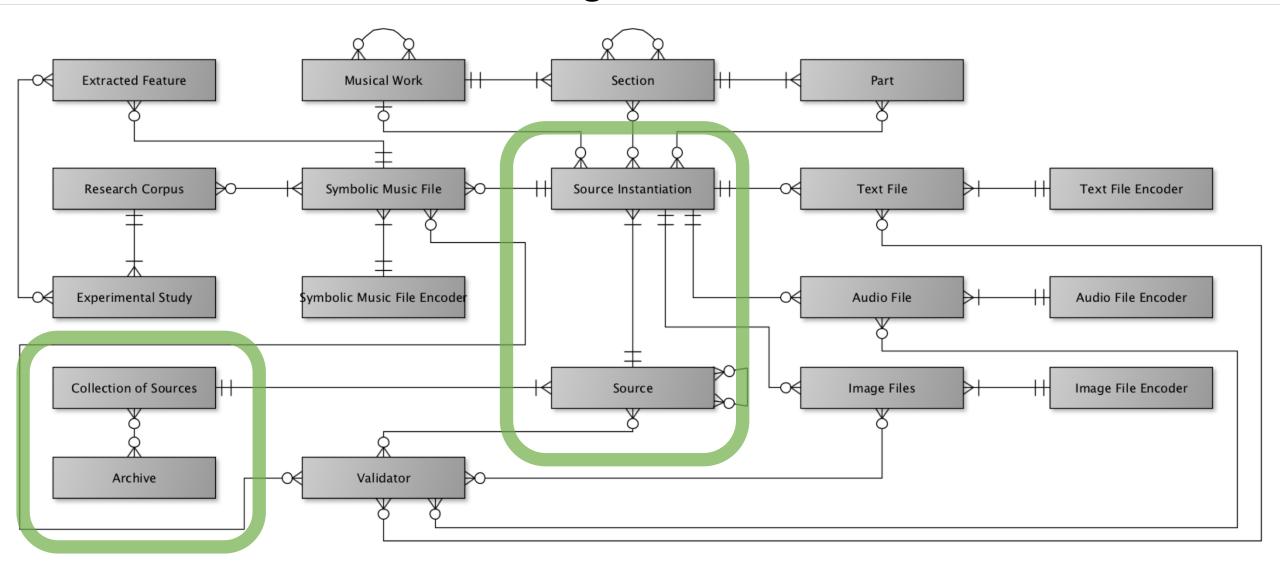
#### **Modelling Musical Works**



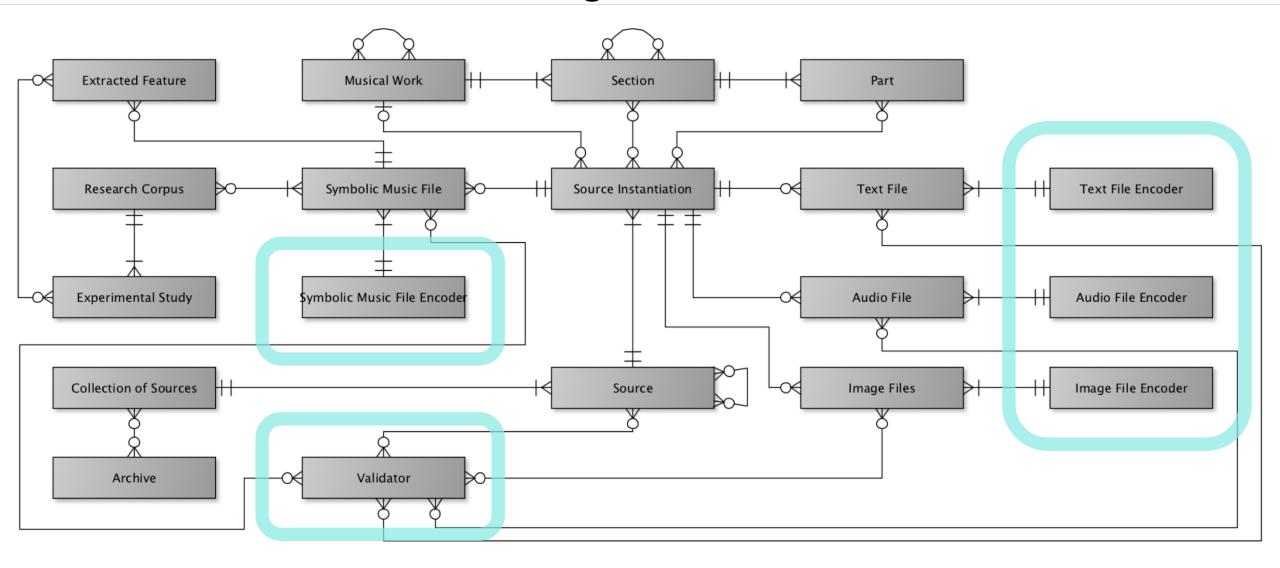


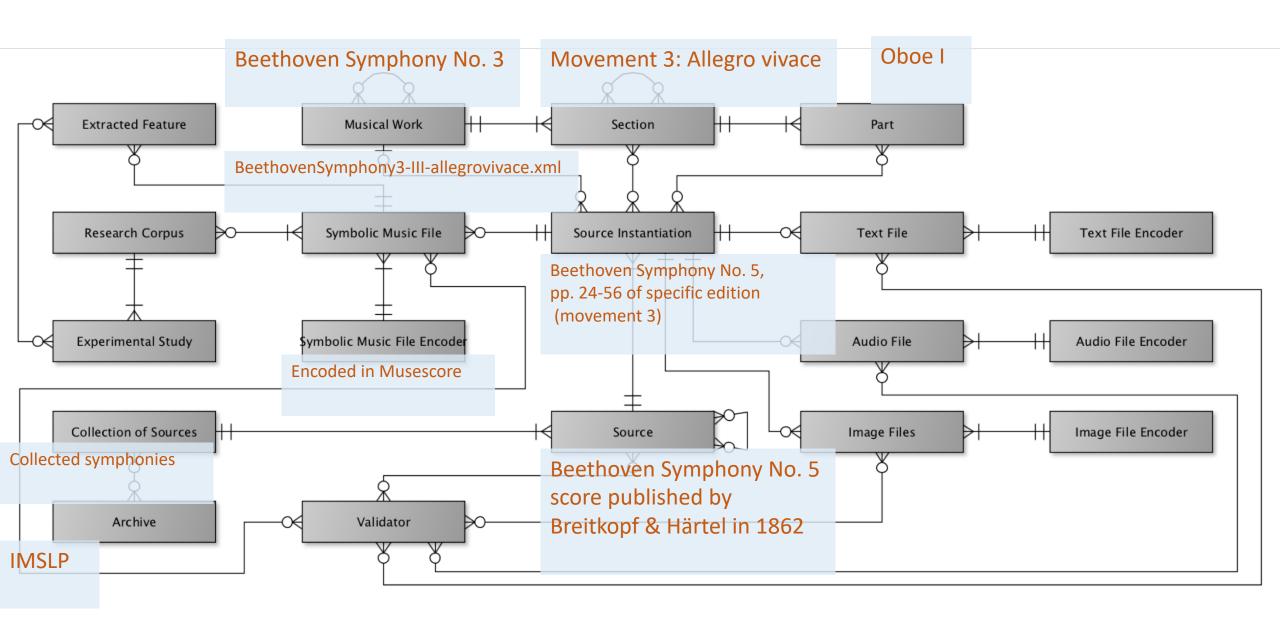
# How do we track provenance?

### **Tracking Provenance**

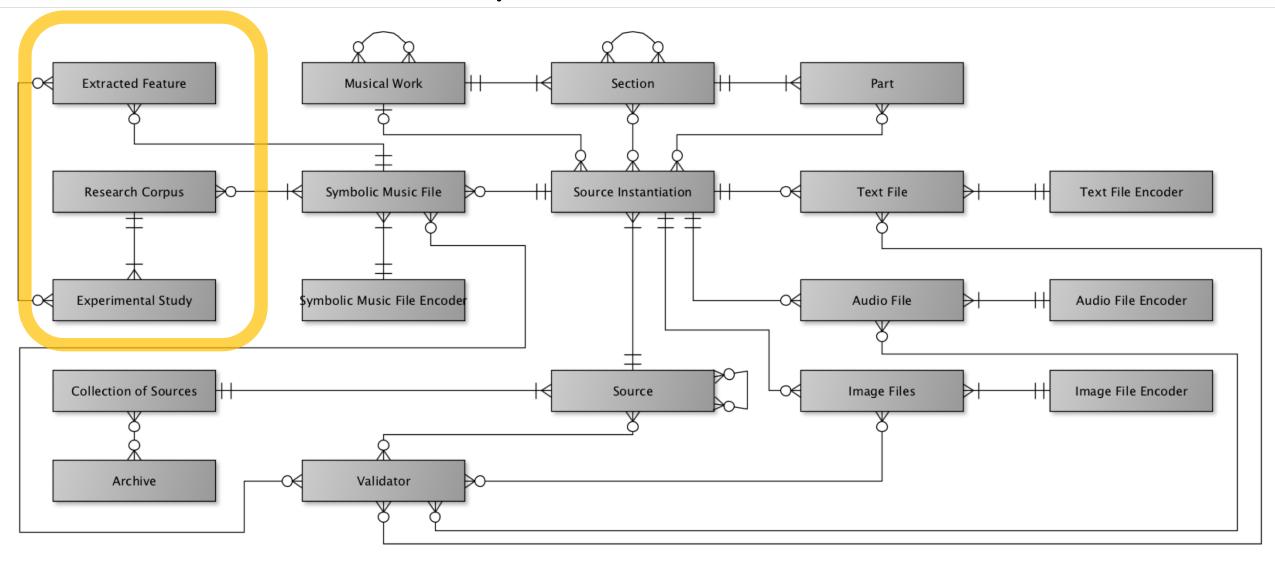


### **Tracking Provenance**





## Research corpora & content-based search



### Archiving and re-using datasets







#### Towards the interface

# SINSSA Database

#### Search

Powerful content based search for scores in symbolic notation with metadata.

#### Download

Add scores to your shopping cart and download only the files you need.

## **Upload**

Upload your symbolic music files!

# Thank you!



https://github.com/ELVIS-Project/simssadb



@simssaproject



emily.hopkins@mcgill.ca



Social Sciences and Humanities Research Council of Canada

Conseil de recherches en sciences humaines du Canada











Centre for Interdisciplinary Research in Music Media and Technology





compute | calcul canada

