DATA MODELING AS A HIGH-WIRE ACT

frbr:F51_Pursuit

crm:P14_carried_out_by

Expression_Creation

frbr:R17_created

int:R16_incorporates

frbr:F22_

Self-contained

Expression

crm:P98_brought_into_life

crm:P100_was_death_of

Expression_Creation

frbr:F22_

Self-contained_

int:INT16_Segmer

frbr:R17_created

incorporates

incorporates

int:R25_is_segment_of

crm:E67_Birth

Publication Event

frbr:R24_create

frbr:_F24_ Publication_Expression

frbr:_F24_

Publication_Expression

crm:E69_Death

crm:E7_Activity

frbr:F4_Manifestation

Singleton

crm:P128_carries

crm:E65_Creation

crm:P16i_was_used_for

crm:P10i_contains

crm:P12i was present at

crm:E73_

crm:P94_has_created

nformation_Object

frbr:F31_Performance

frbr:R66_included_performed_version_of

Balancing Requirements, Juggling Vocabularies, and not Falling (Short

of Established Best

Practice)

Creating a data model for the Semantic Web with the purpose of integrating several pre-existing data sources means balancing various requirements: creating consistency across datasets while accounting for differences in respective source data, achieving a high degree of precision while considering feasibility, adhering not only to modeling standards but also those of 'traditional' academic practice, and more. The data model for SemanticKraus was created with these requirements in mind; various aspects of the presented model exemplify the results of these considerations.

in the SemanticKraus Project Context crm:E74_Group

> The SemanticKraus project is dedicated to providing a reference resource containing research data from several projects on the writer, satirist, and cultural critic Karl Kraus (1874–1936), who shaped Austrian culture from the fin de siècle to the end of the Austrian First Republic. The project aims to compile and transform biographical and bibliographical index data to create a comprehensive network of people, texts, and their interrelations. This data is currently being converted to RDF and will be accessible via a SPARQL endpoint and a UI built with ResearchSpace.

> The project is open to modular expansion through future research projects in this area.

www.oeaw.ac.at/acdh/projects/semantickraus

The model above gives an

overview of the modeling of

biographical data (top sec-

tion) – including, e.g., party

affiliation and occupation

- and bibliographical data:

The lower section is mainly

concerned with published

(e.g. literary, journalistic)

texts, the left section with

mixed collections of Karl

Kraus's court documents.

refers_to int:INT18_Reference crm:E21_Person incorporates frbr:_F24_ Self-contained Publication_Expression int:R17_actualizes_feature int:R25_has_segment text passage int:R18_shows___(int:INT2_Actualization)
actualization
OfFeature int:INT16_Segmen **TextPassage** int:R10_has_ crm:P128_carries text passage int:R12_has_referred_to_entity / int:R13_has_referring_entity rbr:F4 Manifestation crm:E73 nformation_Object Singleton crm:E73 Information_Object frbr:F22_Self-contained_Expression ntertextualRelationship int:INT1 TextPassage int:R12_has_ frbr:F24_Publication_Expression erred_to_entity int:R13_has_ referring_entity

The model below operates

at the level of texts and text passages: It shows the in-For more information, please follow the QR codes!

terrelation between the two and their relation to textual references to persons as well as to other texts.

URL: https://boberreither.github.io/dh2023 **Prefixes:**

frbr: https://cidoc-crm.org/frbroo/sites/default/files/FRBR2.4-draft.rdfs# crm: http://www.cidoc-crm.org/cidoc-crm/ int: https://w3id.org/lso/intro/beta202304#

Inverse relations, modeling of time, place, identifiers, labels, text/document titles, person names, same-as-relations, types, data provenance.

The SemanticKraus project data originate from three different Kraus-related edition projects: Die Fackel online (fackel.oeaw.ac.at) – 16,900 per-

sons in a biographical data base (MySQL) with 129,000 mentions in the transcriptions of *Die* Fackel (22,000 XML files); a text index (XML) listing 13,000 texts in Die Fackel.

Dritte Walpurgisnacht (kraus1933.ace.oeaw.

ac.at) – an index file containing 400 biographical and 1,900 bibliographical entries, referenced in 3,000 passages of a transcription of the 1933 text Dritte Walpurgisnacht (both TEI-XML).

Karl Kraus Rechtsakten (kraus.wienbibliothek.at) – 4,000 transcripts of legal documents (TEI-XML) with references to three index files (TEI-XML) containing 1,100 bibliographical and 1,700 biographical entries.



Poster Creator:

Bernhard Oberreither

bernhard.oberreither@oeaw.ac.at





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