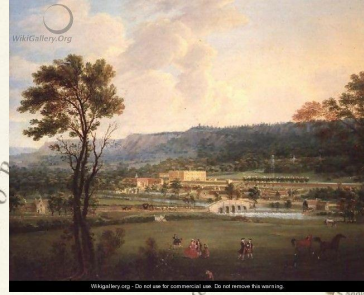




Ontological Modeling of Cultural Heritage Metadata: Initial Project Development and CIDOC CRM Integration



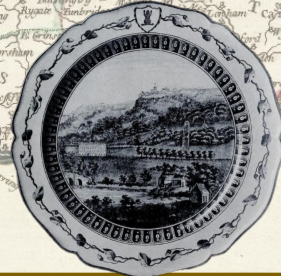
Aleksandra Mitiukova curator of Prints collection
State museum and Heritage Site Tsarskoe Selo



Wikigallery.org - Do not use for commercial use. Do not remove this warning.

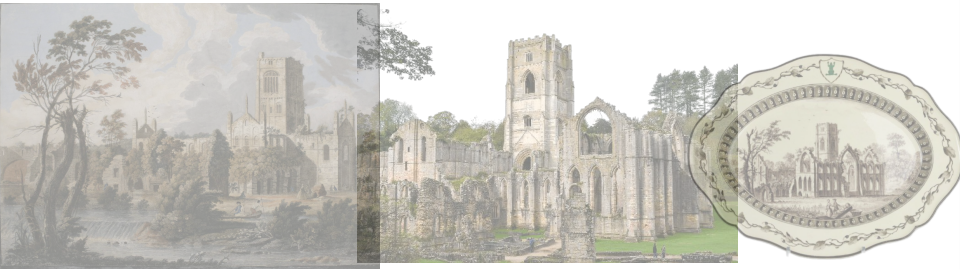
lat
ing

Thomas Smith of Derby



Data about artefacts:

- curator's expertise & competency questions
- research publications
- museum metadata
- British cultural heritage internet resources
- thesaurus and controlled vocabularies



gostatalog.ru/portal/#/collections?q=блюдо%20овальное&museumids=95&imageExists=null

блюдо овальное

Ваш поиск: Федеральное государственное бюджетное у

Найдено 387 экспонатов

фигуры тигра, стоящие на задних лапах, переплетенных лапами и мордой, поддерживающие верхнюю часть шпенок четырехугольной формы.

Блюдо овальное, с волнистым краем, с изображением пейзажа и зеленой лягушки

Крышка к большому овальному блюду, высокая

ENGLISH HERITAGE

VISIT | ABOUT US | SUPPORT US | LEARN

ABBEYS AND PRIORIES

Home > Learn > Histories > Abbeys And Pries

SILENCE AT MONASTERIES | NUNS IN MEDIEVAL ENGLAND | WOMEN IN

CHATSWORTH HOUSE

CHATSWORTH HOUSE

Listed on the National Heritage List for England. Search over 400,000 listed places

BY THE BANKS OF THE NEVA
CHAPTERS FROM THE LIVES AND CAREERS OF THE BRITISH IN EIGHTEENTH-CENTURY RUSSIA
ANTHONY CROSS

9 Comments and Photos

William XVII, No. 2, The BRITISH ART Journal

Thomas Smith of Derby (1720-67)

David Stacey

A SOUTH-WEST VIEW of Chatsworth
To Whom this Place is humbly inscribed by his GRACE'S most obliged
and most obed^t .serv^t T. Smith.

Eight of the most extraordinary PROSPECTS in the Mountains of Derbyshire and Staffordshire commonly called the Peak and a Prospect in Dove Dale 5 Miles North of Lichfield
the Moorlands

J. Smith delin^t J. Smith sculp^t 1799

SAMOD - Simplified Agile Methodology for Ontology Development

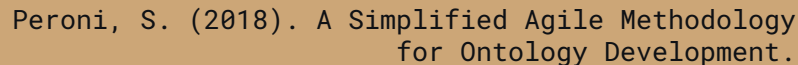
TBox Terminology Box

+

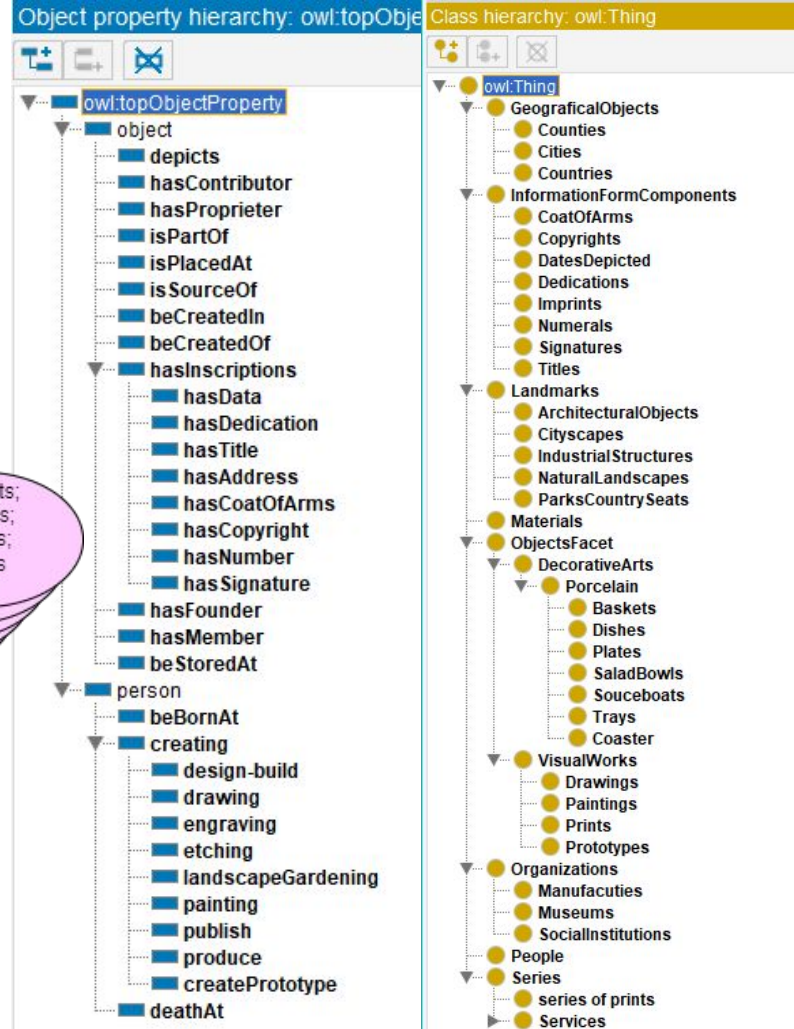
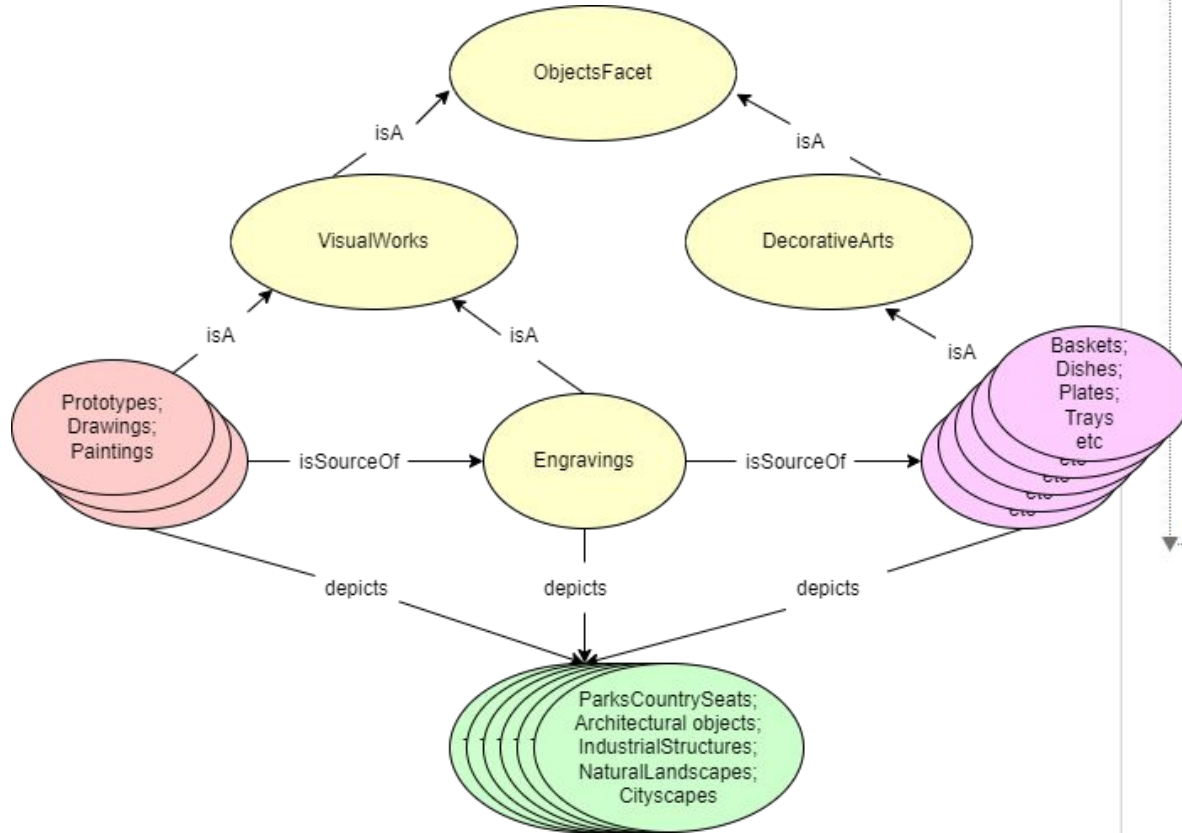
"Data" / World of Facts

+

Iteration

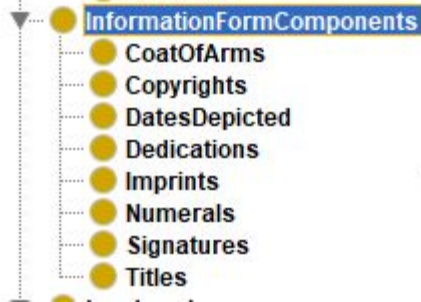


Conceptualization & property assertion

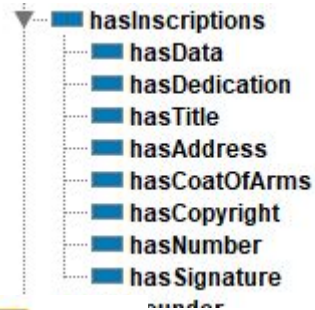


Inscriptions and texts concepts

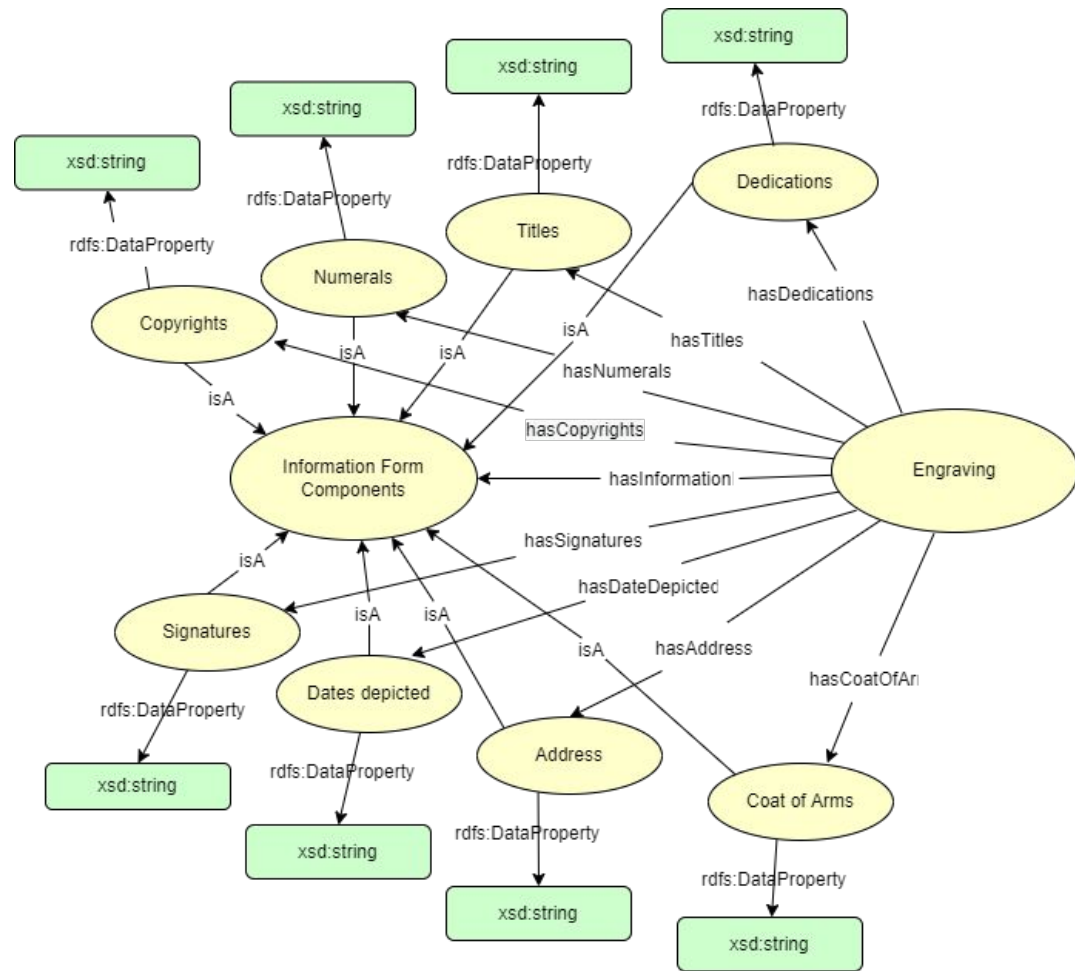
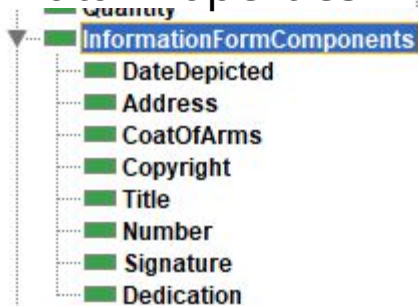
Classes



Obj Properties



Data Properties



Alignment

owl:sameAs

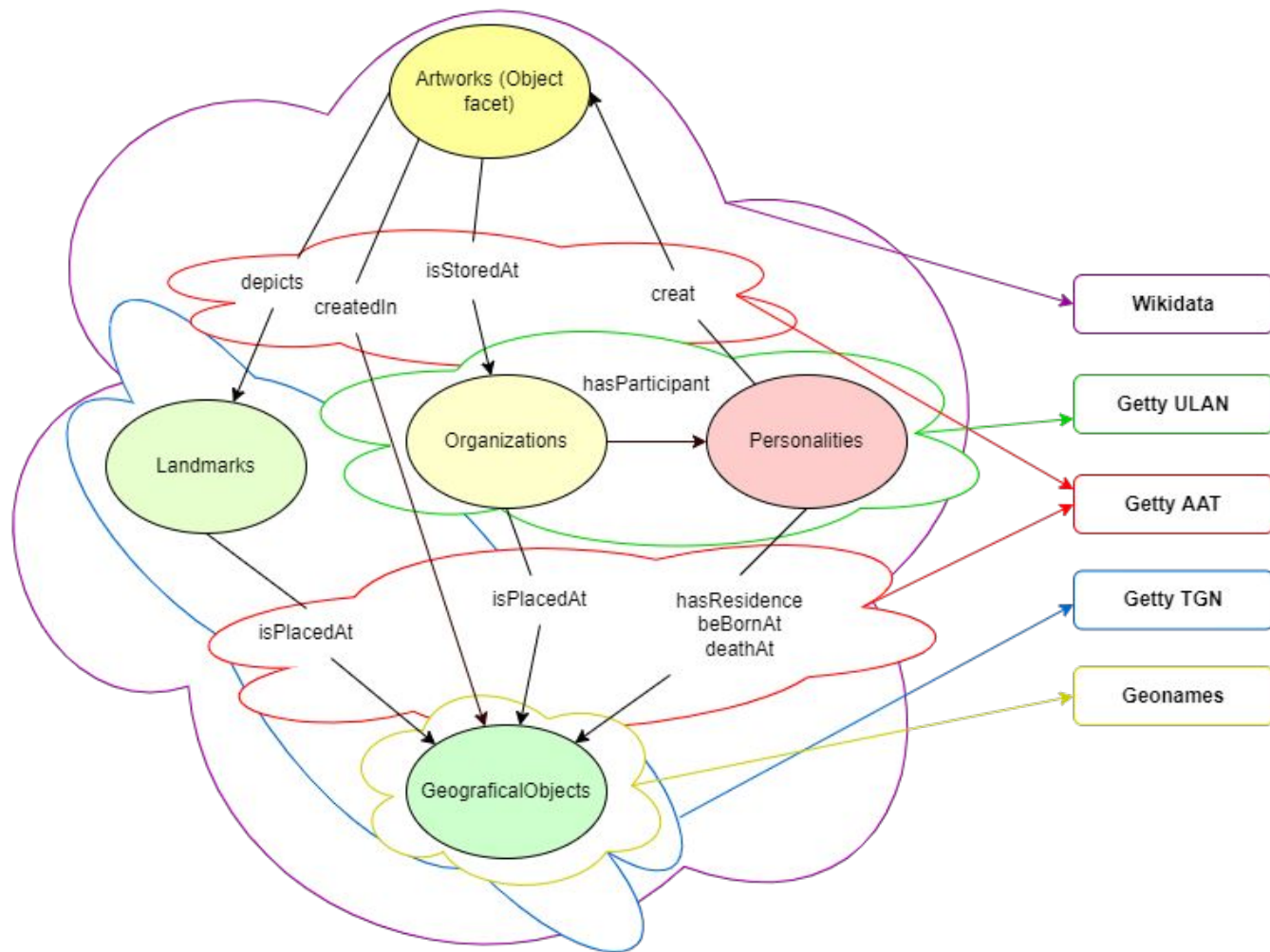
Getty AAT

Getty ULAN

Getty TGN

Wikidata

Geonames



Methodology

OpenRefine reconciliation module

Show as: rows records Show: 5 10 25 50 100 500 1000 records	
language - http://www.w3.org/2000/01/rdf-schema#label - _ - @value	- http://www.w3.org/2002/07/owl#sameAs - _ - @value
United Kingdom	https://www.geonames.org/2635167/united-kingdom-of-great-britain-and-northern-ireland.html
Staffordshire	https://www.geonames.org/11609018/staffordshire.html
Helsinki	https://www.geonames.org/658226/helsinki.html
Finland	https://www.geonames.org/660013/republic-of-finland.html
François Vivares	https://en.wikipedia.org/wiki/François_Vivares
Derby	https://www.geonames.org/3333142/derby.html
Soissons	https://www.geonames.org/6425246/soissons.html
Derbyshire	https://www.geonames.org/11609031/derbyshire.html
Josiah Wedgwood	https://www.wikidata.org/wiki/Q319331
Thomas Smith	https://www.wikidata.org/wiki/Q2279147
Saint-Petersburg	https://www.geonames.org/498817/saint-petersburg.html
Saint-Jean-du-Bruel	https://www.geonames.org/6427027/saint-jean-du-bruel.html
Thomas Bentley	https://www.wikidata.org/wiki/Q7787586
London	https://www.geonames.org/9499471/london.html
Antoine Benoist	https://www.wikidata.org/wiki/Q18526511
France	https://www.geonames.org/3017382/republic-of-france.html
Russia	https://www.geonames.org/2017370/russian-federation.html
John Boydell	https://www.wikidata.org/wiki/Q321419
Dove Dale	https://www.geonames.org/2651051/dove-dale.html
Paper	http://vocab.getty.edu/page/aat/300014109
St Mary the Virgin's Church, Weston-on-Trent	https://www.wikidata.org/wiki/Q17525771
design-build	http://vocab.getty.edu/page/aat/300150615
drawing	http://vocab.getty.edu/page/aat/300054196
engraving	http://vocab.getty.edu/page/aat/300053225
etching	http://vocab.getty.edu/page/aat/300053840

Validation



Validation Service

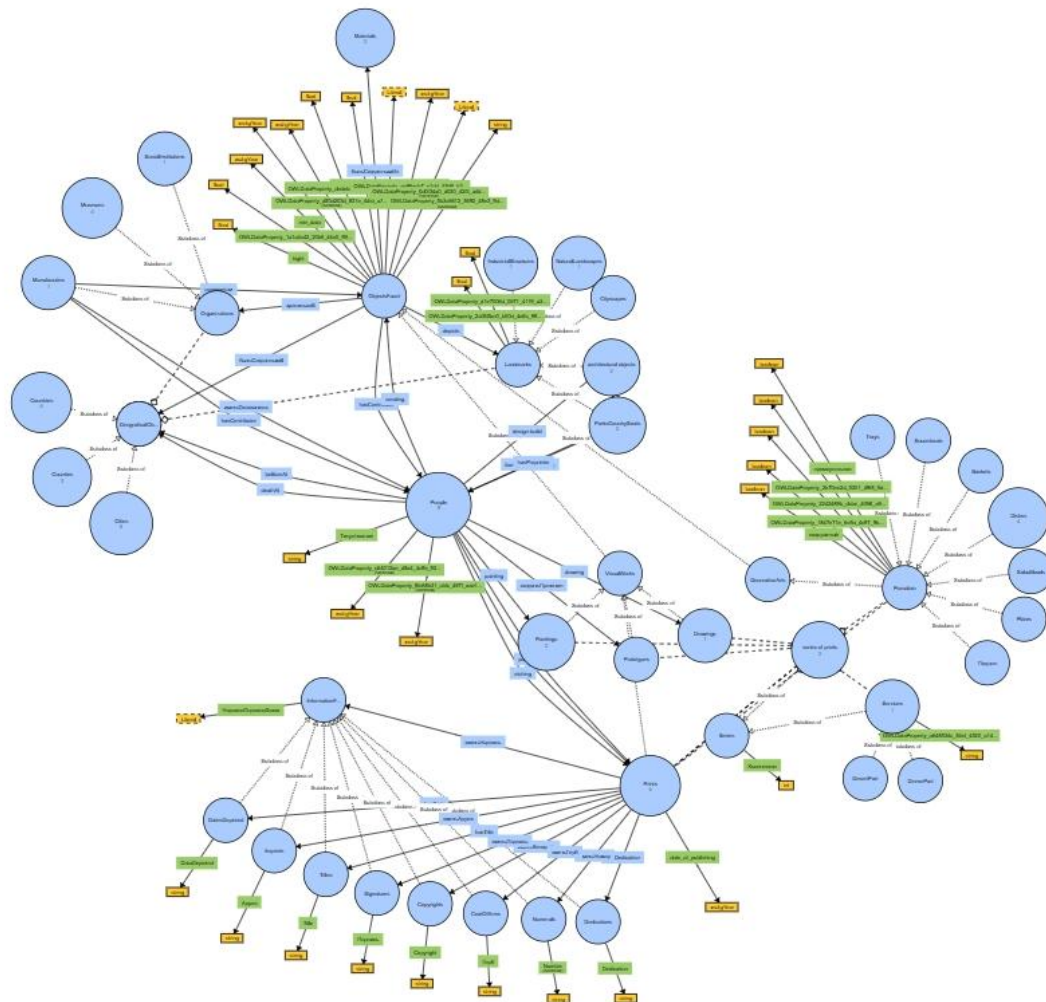
[Skip Navigation](#) [Home](#)
[Documentation](#)
[Feedback](#)

Jump To:

- [Source](#)
- [Triples](#)
- [Messages](#)
- [Graph](#)
- [Feedback](#)
- [Back to Validator Input](#)

Validation Results

Your RDF document validated successfully.



Ontologies Classes Object Properties Data Properties Annotation Properties Individuals Datatypes Clouds

Contents

- landscape_engravings
- Classes (47)
- Object Properties (36)
- Data Properties (41)
- Annotation Properties (3)
- Individuals (51)
- Datatypes (8)

OWL HTML inside

Ontologies Classes Object Properties Data Properties Annotation Properties Individuals Datatypes Clouds

Entities (181)

- owl:Thing
- 'St Mary the Virgin's Church, Weston-on-Trent'
- 'Антуан Бенуа'
- 'Блюдо круглое 2'
- 'Блюдо круглое, с волнистым краем, с изображением пейзажа и зеленой лягушки'
- 'Блюдо овальное, с волнистым краем, с изображением пейзажа и зеленой лягушки'
- 'Британский музей'
- 'Вид с юго-запада на Чатсуорт, а также на прекрасную усадьбу Его Светлости герцога Девонширского.'
- 'Вид холма Даннингтон на реке Трент в пяти милях Юго-Восточнее Дерби'
- 'Вид холма Даннингтон'
- 'Восемь самых необычайных видов гористой части Дербишира и Стаффордшира, называемое'
- 'Государственный Эрмитаж'
- 'Дав Дэйл'
- 'Джозайя Веджвуд'
- 'Джон Бойделл'
- 'Долина в Дербишире'
- 'Донингтон холл'
- 'Екатерина II'
- 'инвентарный номер'
- 'каталожный номер'
- 'Киркстольское аббатство в Йоркшире'
- 'Киркстольское аббатство'
- 'Королевская мельница'
- 'Музей и художественная галерея Дерби'
- 'Музейный фонд Дерби'
- 'Панорама в Давдейле в трёх милях к северу от Ашбурна'
- 'Посольство Великобритании'
- 'Сервис с зеленой лягушкой'
- 'Серия из 4 гравюр 1745 года'

Ontologies Classes Object Properties Data Properties Annotation Properties Individuals Datatypes Clouds

landscape_engravings

http://www.semanticweb.org/aleksandra/ontologies/2024/3/landscape_engravings

Loaded from file: /C:/Users/Aleksandra/Documents/HSE/Diploma/ontologies/apache-jena-fuseki-5.0.0/data/landscape_engravings.owl

Annotations (2)

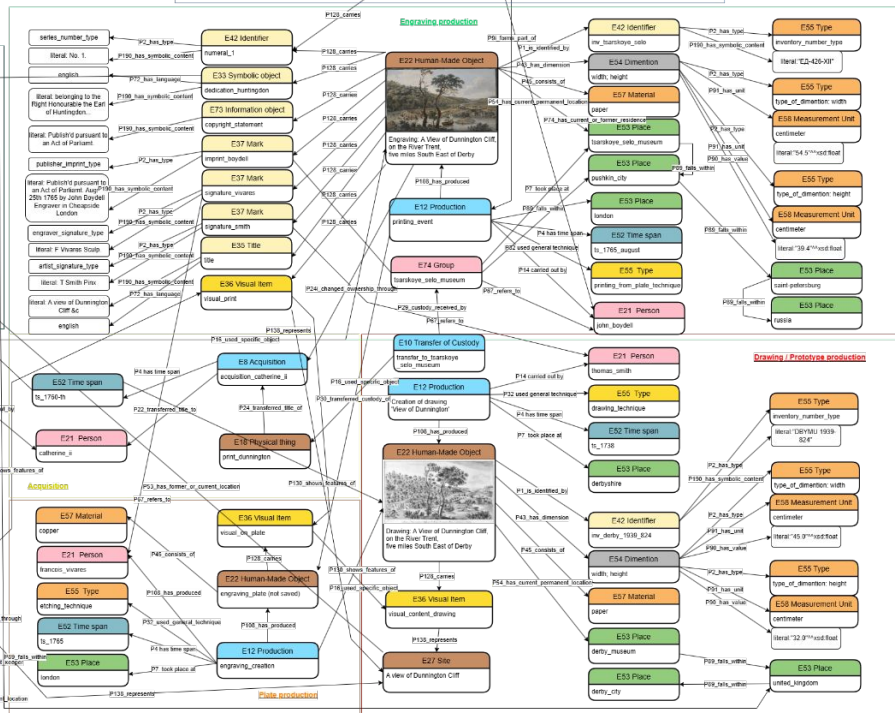
- rdfs:comment "This is an ontology of English landscape prints from Catherine the Great collection as prototypes for Frog service ordered by the empress form England and produced by J. Wedgwood and T. Bentley in 1773-1774." @en
- rdfs:comment "Онтология создана для описания английских пейзажных гравюр середины XVIII в., послуживших прототипами для изображений на сервисе "С зеленой лягушкой", заказанном императрицей Екатериной II в Англии у известного мастера Джозая Веджвуда в 1773-1774 гг." @ru

References

- Classes (47)
- Object Properties (36)
- Data Properties (41)
- Annotation Properties (3)
- Individuals (51)
- Datatypes (8)

OWL HTML inside

GitHub pages



Mapping transformations

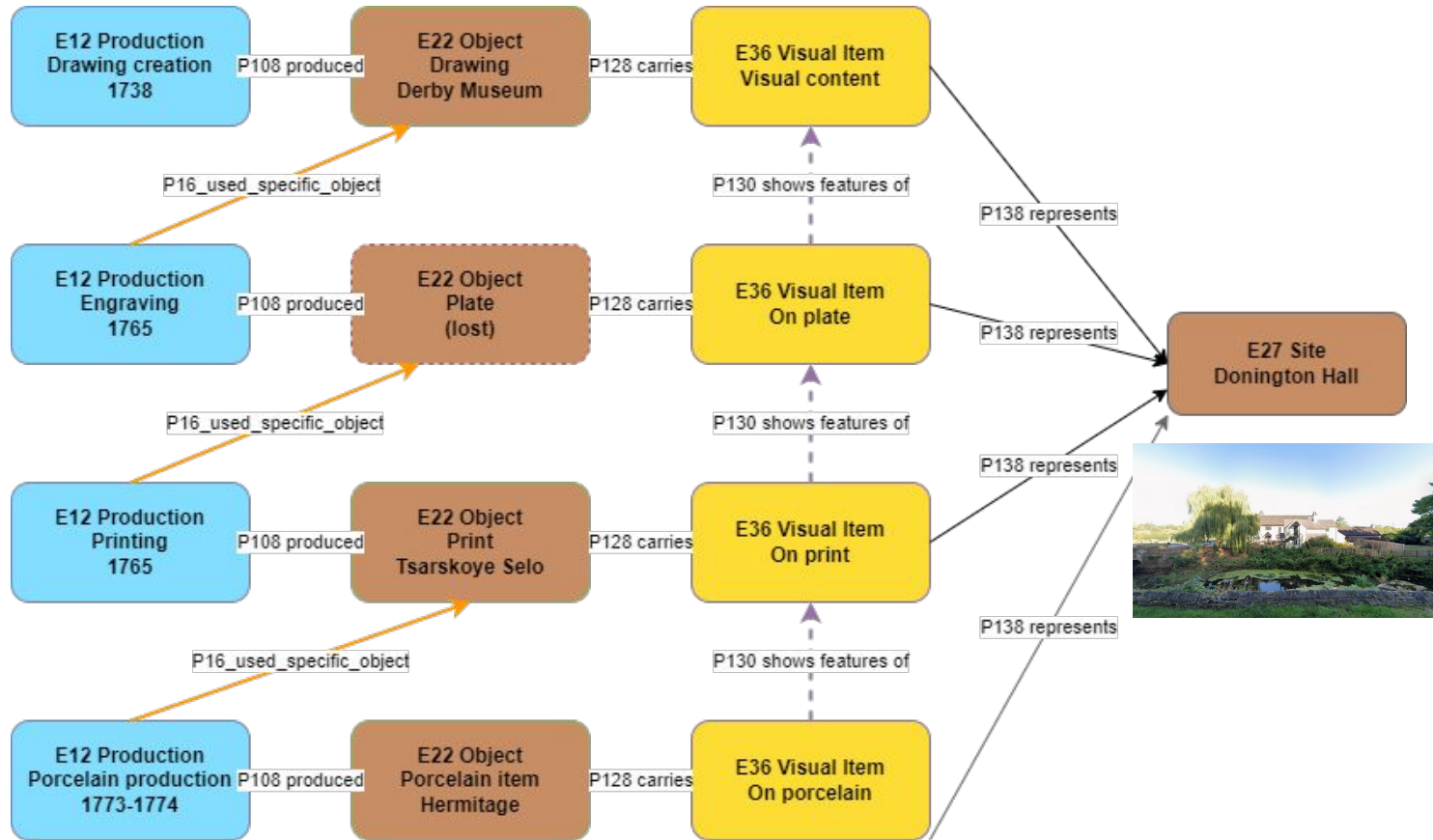
Original Ontology

- Person → Object**
`thomas_smith :drawing :drawing_object`
- Data Property: Dates; Dimensions; Coordinates**
`date_of_creation "1738"`
- Direct Representation**
`print :depicts :landmark`
- Single Creation**
`Person → :etching → Print`
- Static Ownership**
`object :hasContributor :catherine_ii`
- Direct Ownership**
`building :hasProprieter :earl`

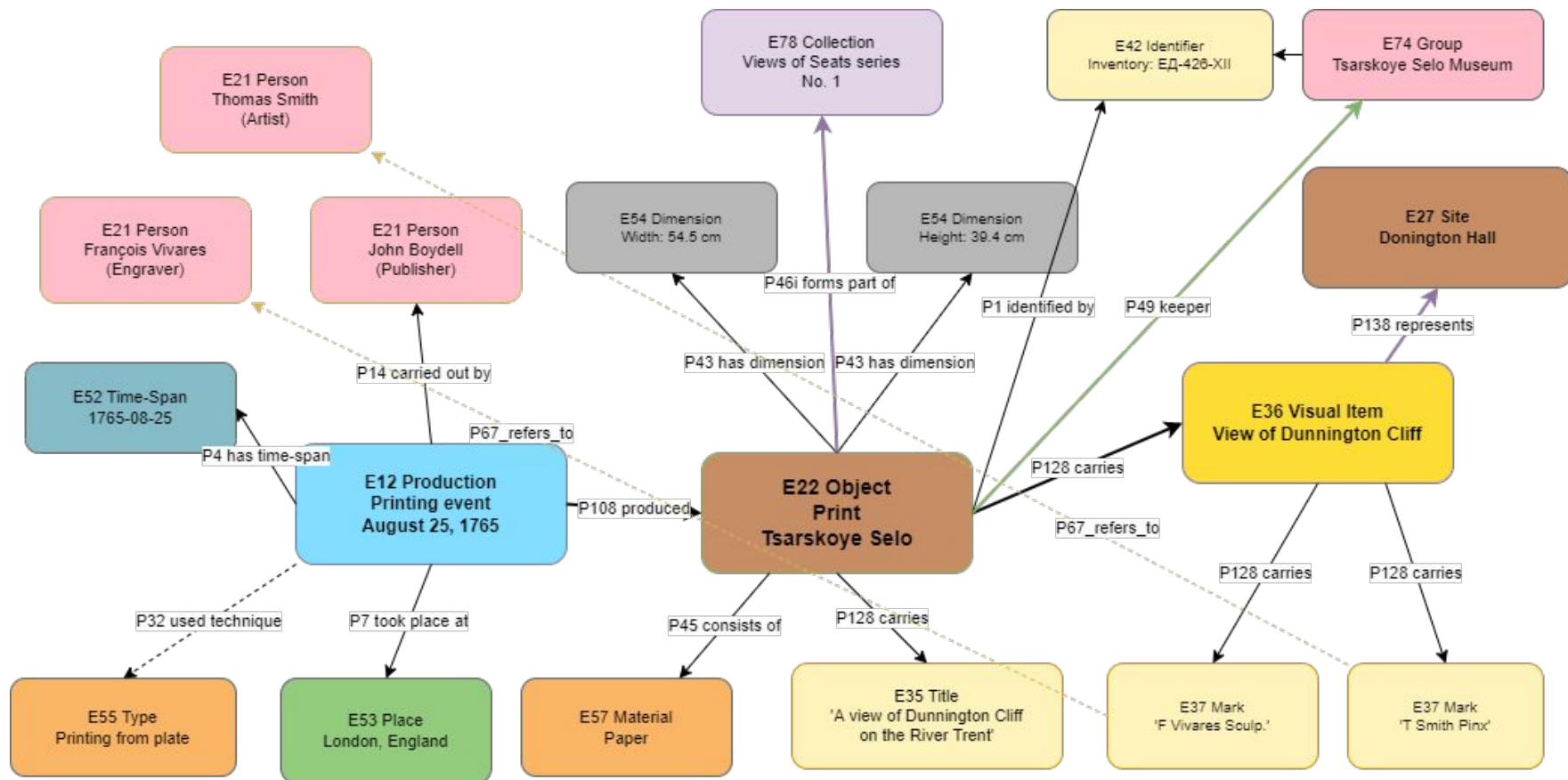
CIDOC-CRM Ontology

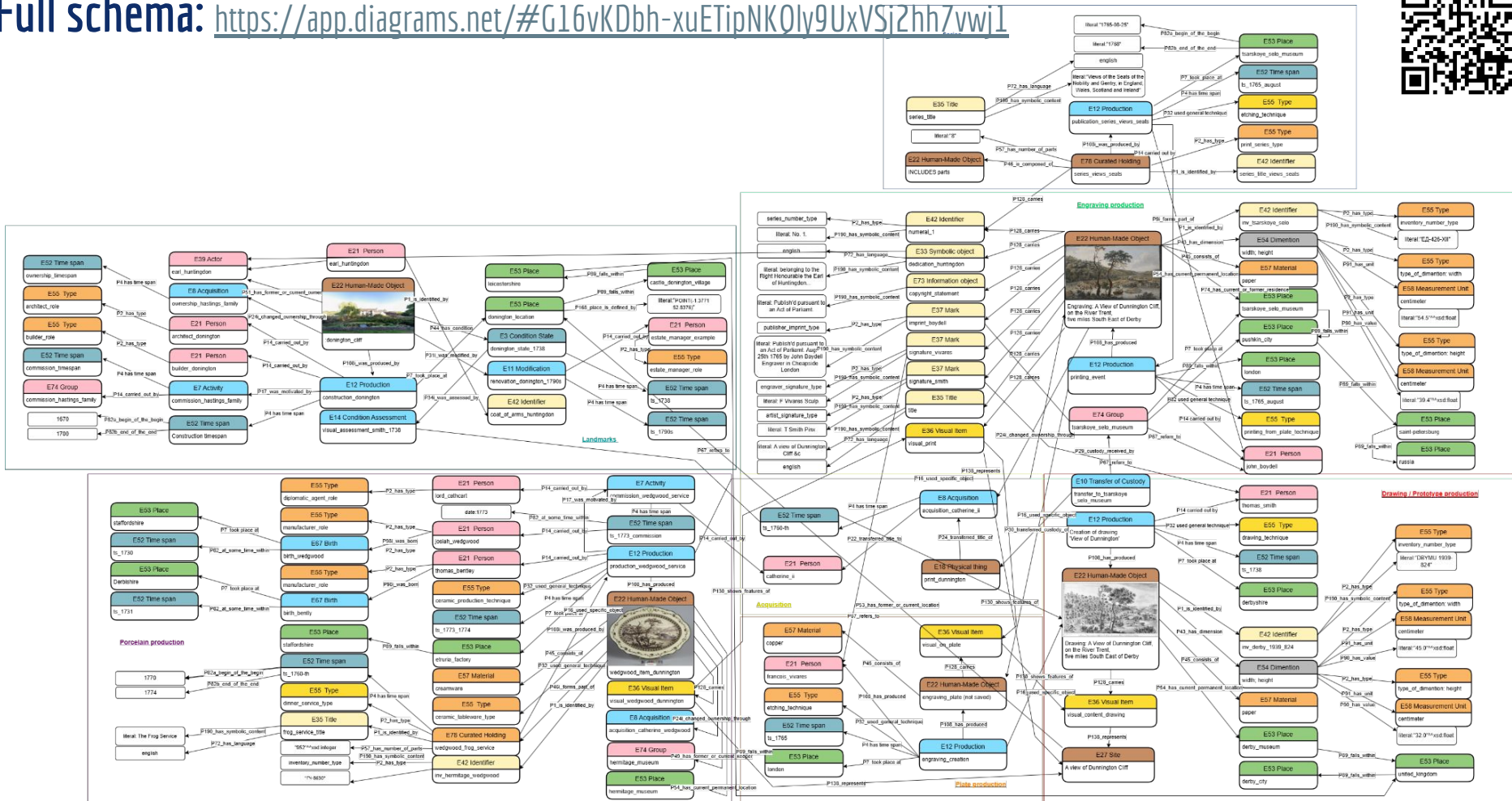
- Person → Event → Object**
`E21 → E12_Production → E22`
- Object → Class → Data property**
`E12 → P4 → E52_Time-Span`
`E22 → P43 → E54_Dimension`
`E27 → P87 → E47_Spatial_Coordinates`
- Visual Content Layer**
`E22 → P128 → E36_Visual_Item → P138 → E27`
- Multi-Stage Production**
`Drawing → Engraving (E12) → Plate (E22) → Printing (E12) → Print (E22)`
- Acquisition Event**
`E22 → P24i → E8_Acquisition → P22 → E21`
- Ownership + State at Time**
`E22 → P51 → E21 (general);`
`E22 → P44 → E3_Condition_State (moment)`

Main Concept Realization CIDOC CRM mapping



Engraving concept realization







Thank you for your attention

Questions and suggestions are welcomed!

aleksmityukova@gmail.com