

Reassembling the Republic of Letters – A Linked Data Approach

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Content

- **Background and vision**
- **Data models**
- **Ontology infrastructure**
- **Support tooling**
- **Analysis and visualization tools**

ISCH COST ACTION IS1310

REASSEMBLING THE REPUBLIC OF LETTERS

A digital framework for multi-lateral collaboration on
Europe's intellectual history (1500-1800)

REASSEMBLING
THE REPUBLIC
OF LETTERS

Between 1500 and 1800, the evolution of postal communication allowed ordinary men and women to scatter letters across and beyond Europe.



REASSEMBLING
THE REPUBLIC
OF LETTERS

This exchange helped knit together what contemporaries called the *respublica litteraria*, a knowledge-based civil society, crucial to that era's intellectual breakthroughs.



COST is supported by the
EU Framework Programme
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EUROPEAN COOPERATION
IN SCIENCE AND TECHNOLOGY

www.republicofletters.net

REASSEMBLING
THE REPUBLIC
OF LETTERS

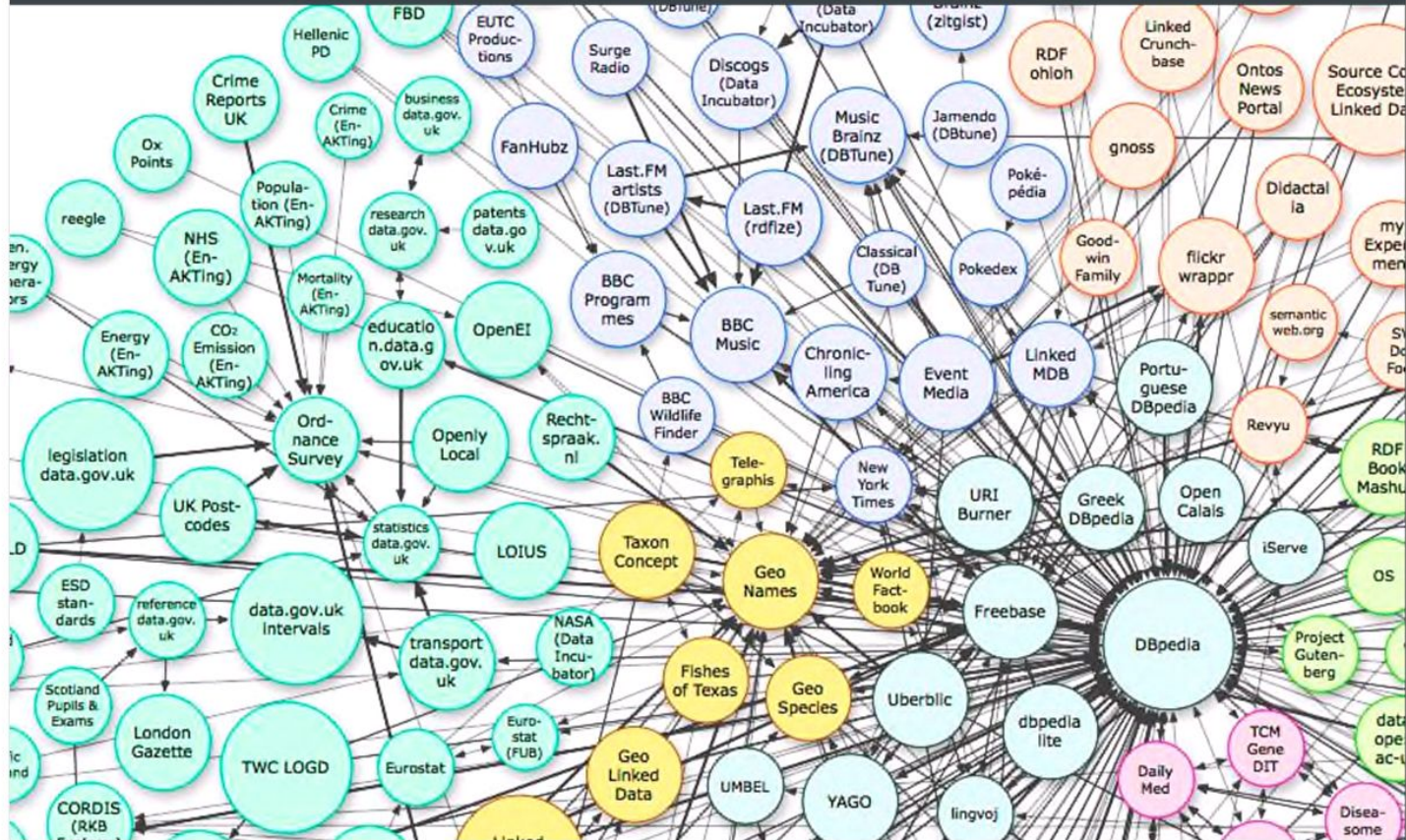
Yet the exchange of letters which created this community also dispersed the documentation required to study it, posing enormous difficulties for historians ever since.



Pier-Francesco Mola (c.1647-57)
Victoria and Albert Museum


REASSEMBLING THE REPUBLIC OF LETTERS

To reassemble that scattered material and chart the history of that imagined community, we need to harness the ongoing revolution in digital communications.



REASSEMBLING THE REPUBLIC OF LETTERS

As the advantages of digital technology for this field have become apparent in recent years, web-based projects on early modern correspondence have proliferated.



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CELL is the leading Studies agenda website in the field

CELLE
Project 2
Since 11

Briefe spielte die Korrespondenz-Litelle und Eric Netzes von Ko und den human nachträglich kic

Autoren/Herausgeber:
A - E - L - E - U
Andreas, Valentin
Arendt, Silvester J.
Ascham, Roger
Bauer, Ferdinand Jakob
Bauer, Johann Jacob

Universiteit Leiden

Clavius project
Since 2004, the project has been sponsored by the departments of

Clavius and his
Since 2004, the project has been sponsored by the departments of

Dr F. Egmond of Clavius and the E. van Goolen Carolus Clavius (1570-1590)

Dr J. van der Rijck research of botanist: Fran

Aim of the project

LEIBNIZ-EDITION


Kalliope Verbandskatalog hochschule und Autographen

Herzlich willkommen bei Kalliope, dem zentralen Suche

Stanford University

Case Studies People Shared Research Teaching

Mapping the Republic of Letters



Circulation of Knowledge and Learned Practices in the 17th-century Dutch Republic


Home | Project | Publications | First experiments | Output | Products | Methodology | Help | Contact |

A Web-based Humanities' Collaboratory on Correspondences.

The scientific revolution of the 17th century was driven by practices discovered in the workshop in the observatory and in society at large.

A dramatic increase in the amount of information gave rise to new knowledge. But how were new elements of knowledge disseminated and appropriated? In short: how did knowledge circulate?

In order to answer this question the CHCC project built a web application called ePhidonium Web. This application researchers can browse and analyze around 20,000 letters that were written by and sent to 17th-century scholars who lived in the Dutch Republic. Moreover, the ePhidonium enables visualizations of geographical, time-based, social network and concordance research.



Discourses, Plans!

Go to the ePhidonium and browse through the letters with the faceted search. Or watch the video introduction with an introduction to the tool.

Research partners

BANS European Research Infrastructure

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HOME ABOUT EMLO PROJECTS EVENTS

CULTURES OF KNOWLEDGE

Inventory of the correspondence of Johann Valentin Andreae (1586-1654)



Johann Valentin Andreae (1586-1654), writer of deontological literature, preacher, Christian, utopian, an collector, naturalist and member of the Pietist movement. His figure among theologians of the first half of the 17th century. As the newly emerging research on Andreae has pointed out, his practical and proto-oriented theology, his effort to found a society Christiana and his fundamental participation in Pietism, which he denied later in his life, all these aspects of his work belong to a European movement for the renewal of intellectual culture, spiritual literature and modern sciences. The correspondence of Johann Valentin Andreae provides an important key to understanding the network of theologians and scholars with whom he was in contact, as well as to investigating the development of his concept of piety and his connections with Pietism, as well as to building outlines about the history of the production of art and its circulation or aspects of everyday life. His correspondence therefore opens up new research perspectives on 17th-century church history as well as on baroque tradition and thus makes a contribution to German studies, to research on Piety and to the histories of "readability" or "text".

The project aims to catalogue the correspondence of Johann Valentin Andreae, to digitalize the documents and to provide a repertoire in form of an on-line database and a printed catalogue. The basis of sources and the project comprises a collection of about 1300 letters, most of which are held in the Herzog August Bibliothek (according to latest estimates, about 482 items from the total amount). In addition, 350 "occasional printed" and 22 items of family registers have to be catalogued. And each correspondence was almost completely destroyed by a fire in the city of Calw in 1636, during the Thirty Years War. The writings preserved in

Aggregating Scattered Letter Data

Linked Data Finland Data Service
<http://ldf.fi>



SPARQL



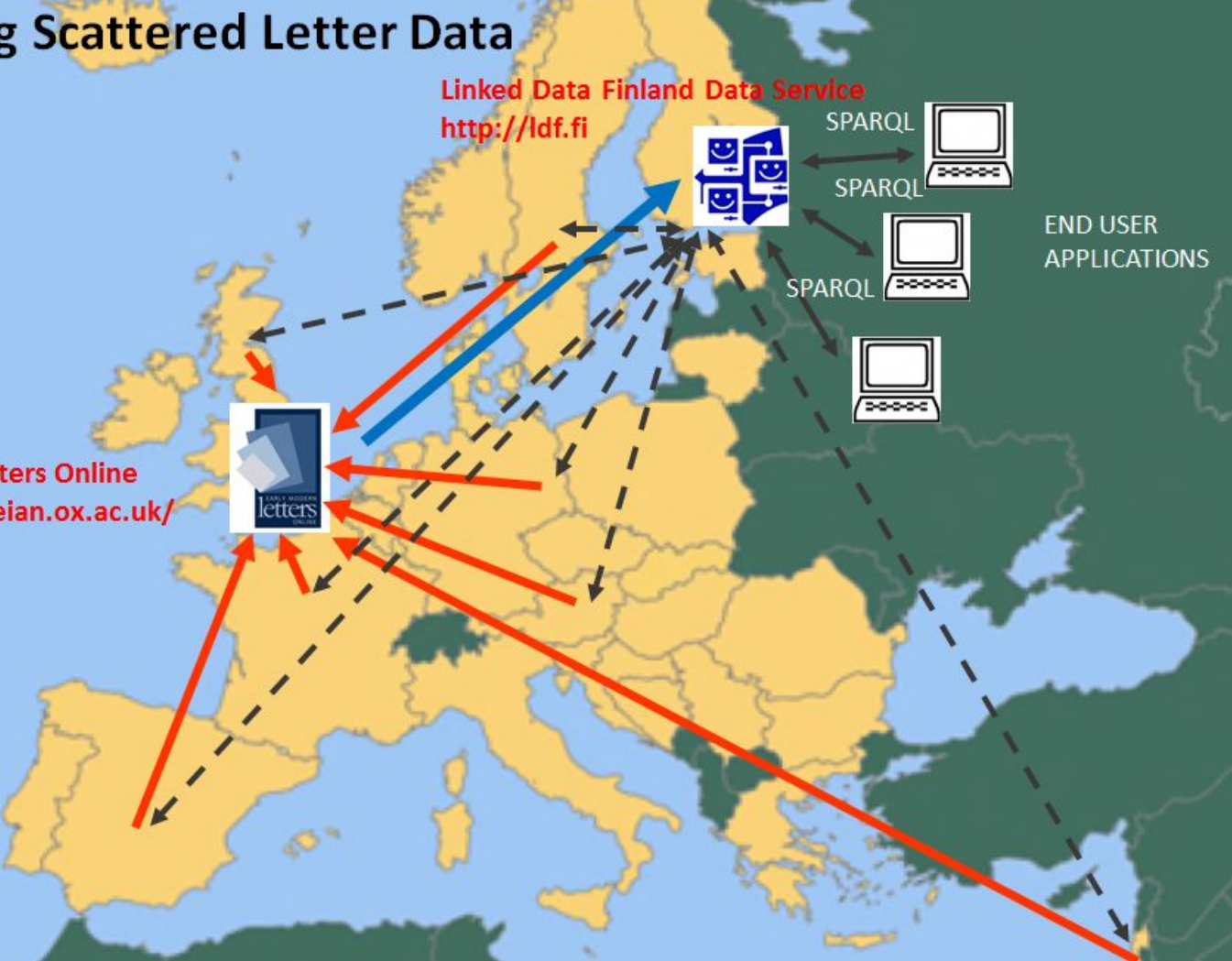
SPARQL



SPARQL

END USER APPLICATIONS

Early Modern Letters Online
<http://emlo.bodleian.ox.ac.uk/>



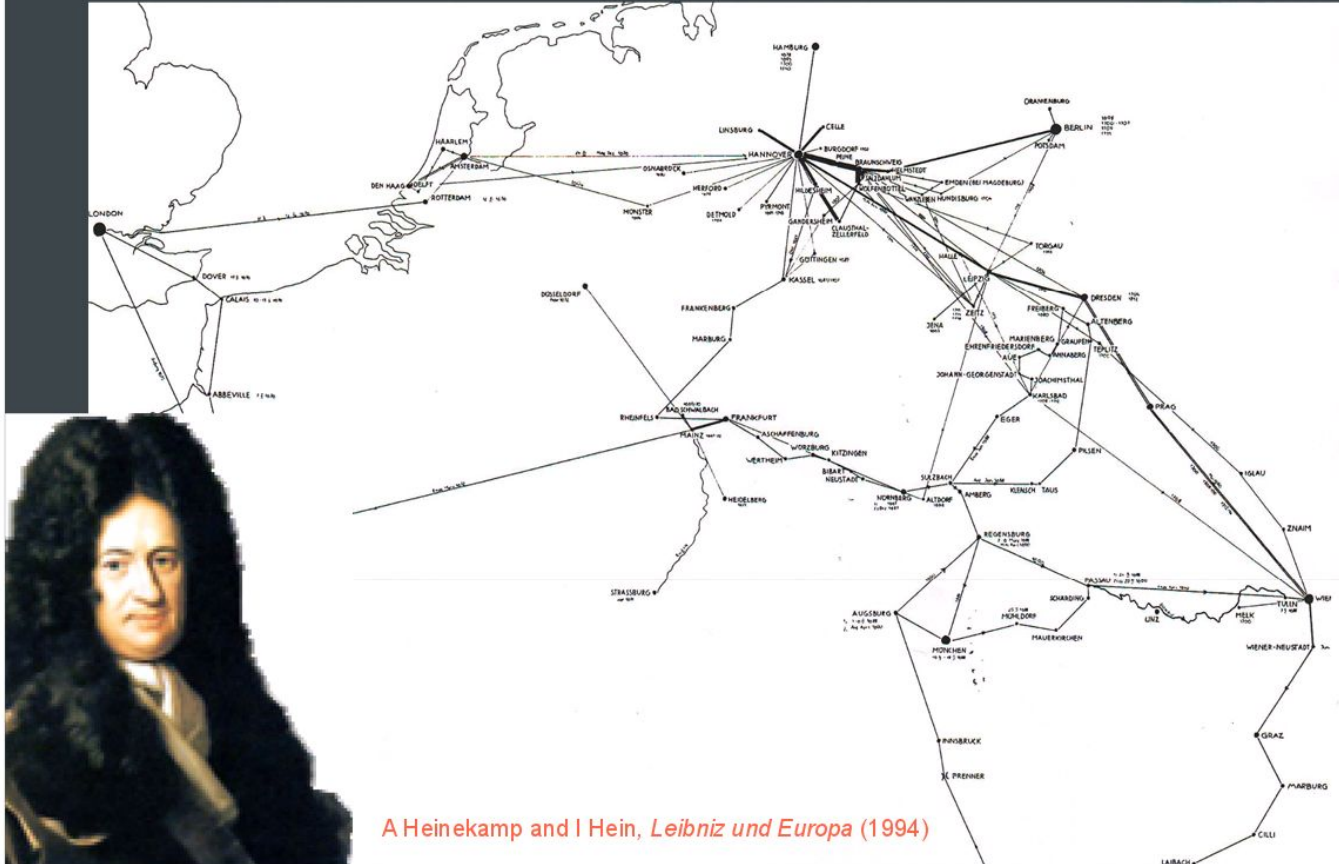
REASSEMBLING THE REPUBLIC OF LETTERS

Leibniz's network A static view



REASSEMBLING THE REPUBLIC OF LETTERS

Leibniz's network A dynamic view



A Heinekamp and I Hein, *Leibniz und Europa* (1994)

How do we get data into it? Data inputting Spreadsheet

Activity				Primary participant (person)			Secondary participant (person/group)				Date one			
Event label	Event Category	EventType / RelationshipType	Event name / description	Emlo_ID	Name (surname, forename)	Role of primary participant	Emlo_ID	Name (surname, forename)	Type	Role of secondary participant	year	month	day	uncerta
444	1 MajorLifeEvents	Birth		300073	de Geer, Louis	Born	-	-			1587	11		
445	2 MajorLifeEvents	Death		300073	de Geer, Louis	Deceased	-	-			1652	6	19	
446	3 FamilyRelationships	FamilyRelationship		300073	de Geer, Louis	Father	200138	de Geer, Laurentius	Person	Son				
447	4 FamilyRelationships	FamilyRelationship		300073	de Geer, Louis	Father	900406	de Geer, Stephan	Person	Son				
448	5 SocialStatusChange	Ennoblement	Lord of Fipspong and Leufsta	300073	de Geer, Louis		-	-			1641	8	4	
449	6 FamilyRelationships	FamilyRelationship		300073	de Geer, Louis	Son		Gaillarmon, Louis de (1	Person	Father				
450	7 MajorLifeEvents	Habitation		300073	de Geer, Louis	Inhabitant	-	-			1587			
451	8 ProfessionalActivities			300073	de Geer, Louis	Refugee	-	-			1595			
452	9 MajorLifeEvents	Habitation		300073	de Geer, Louis	Inhabitant	-	-			1595			
453	10 ProfessionalActivities	OtherProfessions		300073	de Geer, Louis	Merchant	-	-			1608			
454	11 FamilyRelationships	FamilyRelationship	marriage	300073	de Geer, Louis	Husband		Gérard, Adrienne de (d. :	Person	Wife	1611			
455	12 ProfessionalActivities	OtherProfessions	weapons	300073	de Geer, Louis	Merchant	-	-			1611			
456	13 FamilyRelationships	FamilyRelationship		300073	de Geer, Louis	Brother-in-law		Trip, Elias (d. 1635)	Person	Brother-in-law				
457	14 MajorLifeEvents	Habitation		300073	de Geer, Louis	Inhabitant	-	-			1611			
458	15 MajorLifeEvents	Habitation		300073	de Geer, Louis	Inhabitant	-	-			1615			

Date two				Location name					Textual source		Who entered the data		Whose notes did you use			
year	month	day	uncertainty	date type	Emlo_ID	More details of place (free text)	Type-ahead, or City if new location	Region	Country	location Type	Source	Source Details	data	notes	did you use	Addit
			Uncertain		900096		Liège, Wallonia, Belgium				NNBW	X, 275-277	Robin Buning	Robin Buning		
					300024		Amsterdam, North Holland, (United Provinces) Netherlands				NNBW	X, 275-277	Robin Buning	Robin Buning		
							-				NNBW	X, 275-277	Robin Buning	Robin Buning		
							-				NNBW	X, 275-277	Robin Buning	Robin Buning		
							-				Nederlands adelsboek	83 (1993), 158	Robin Buning	Robin Buning		
							-				NNBW	X, 275-277	Robin Buning	Robin Buning		
1595			Approximate	Duration	900096		Liège, Wallonia, Belgium				NNBW	X, 275-277	Robin Buning	Robin Buning		
1608				Between	900027		Aachen, North Rhine-Westphalia, Germany				NNBW	X, 275-277	Robin Buning	Robin Buning		
1605				Between	200044		Dordrecht, South Holland, (United Provinces) Netherlands				NNBW	X, 275-277	Robin Buning	Robin Buning		
1611				Duration	741		La Rochelle, Poitou-Charentes, France				NNBW	X, 275-277	Robin Buning	Robin Buning		
					200044		Dordrecht, South Holland, (United Provinces) Netherlands				NNBW	X, 275-277	Robin Buning	Robin Buning		
1652							-				NNBW	X, 275-277	Robin Buning	Robin Buning		
							-				NNBW	X, 275-277	Robin Buning	Robin Buning		
1615				Duration	200044		Dordrecht, South Holland, (United Provinces) Netherlands				NNBW	X, 275-277	Robin Buning	Robin Buning		
1622				Duration	300024		Amsterdam, North Holland, (United Provinces) Netherlands				NNBW	X, 275-277	Robin Buning	Robin Buning		

other sources s

1628				Duration	300024		In the Huis m Amsterdam, North Holland, (United Provinces) Netherlands				NNBW	X, 275-277	Robin Buning	Robin Buning	house in 1634	
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Education

UniversityMatriculation InclusionClassList Disputation PersonatTestimony PromotionToDegree Study Teaching

UniversityMatriculation

Show graph Show assertions + -

Matriculant +-
Enter details of Matriculant

MatriculationRegister +-
Enter details of MatriculationRegister

Entry +-
Enter details of Entry

Is this a date range?

Year
Enter year

Month
Enter month

Day
Enter day

Inferred date

Uncertain date

Approximate date

Location name
Enter details of location name

Room
Enter details of room

Building
Enter details of building

Parish
Enter details of parish

City
Enter details of city

County
Enter details of county

Country
Enter details of country

Empire
Enter details of empire

Notes on place

Linked Data Approach

1. Harvest data
2. Transform into a harmonized data model
3. Map to shared ontologies, registries of people, places, etc.
4. Enrich data with links to external sources
5. Publish as Linked (Open) Data
6. Provide analysis and visualization tools



Letter Data Model

Letter: 29 May 1742: Brett, Thomas, 1667-1744 (Spring Grove, Wye, Kent, England) to Brett, Nicholas, 1713-1776 (Boulogne, Nord-Pas-de-Calais, France)

[\[edit\]](#)

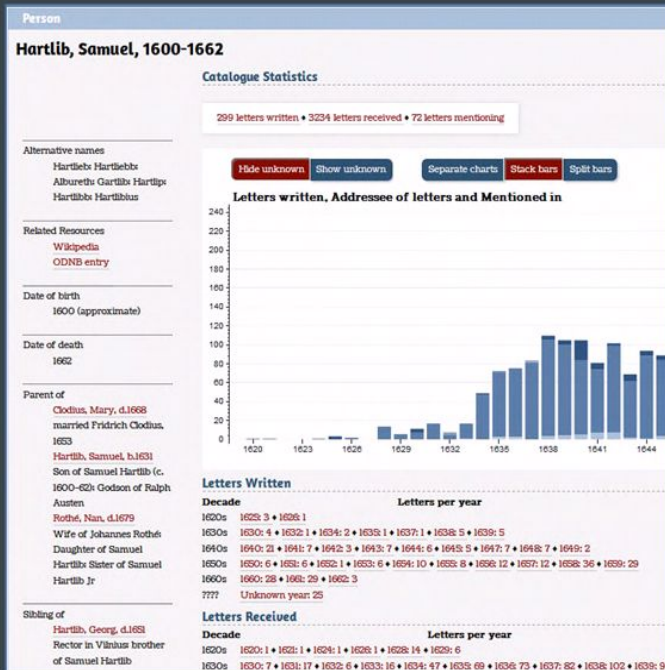
address	A Monsr Monsr Brett chez Monsr le chevalier Cotton A Boulogne sur mer France
has time-span	1742-05-29
http://purl.org/dc/terms/date	May 18/29
http://purl.org/dc/terms/description	Concerning ecclesiastical topics (1) Historical survey of practice of Infant communion. (2) Historical survey of Computus Ecclesiasticus (fixing date of Easter) and why more necessary before the invention of printing. (3) Dr. Waterland's Calvinistic notions and their background (Broxap's later non-Jurors p.213 quotes this paragraph). (4) Dr. Potter, Abp. of Canterbury writes topical intendedly clarifying discourse on Church Government. (5) Tertullian's opinion on lay baptism, namely that laymen have a right to baptise because they are priests and can use their right of priesthood when there is no clergyman. He quotes Potter's critical interpretation of passages in Tertullian on laymen's priesthood.
http://purl.org/dc/terms/language	English
http://www.w3.org/1999/02/22-rdf-syntax-ns#type	Letter
http://www.w3.org/2004/02/skos/core#prefLabel	29 May 1742: Brett, Thomas, 1667-1744 (Spring Grove, Wye, Kent, England) to Brett, Nicholas, 1713-1776 (Boulogne, Nord-Pas-de-Calais, France)
id number or shelfmark	MS Eng. th. c. 36 fols. 289-292
Is in repository	Bodleian Library, University of Oxford
iwork_id	6819
original calendar	Gregorian, Unknown
source	Bodleian card catalogue
Was addressed to	Brett, Nicholas, 1713-1776
Was sent from	Spring Grove
Was sent to	Boulogne

References (2)

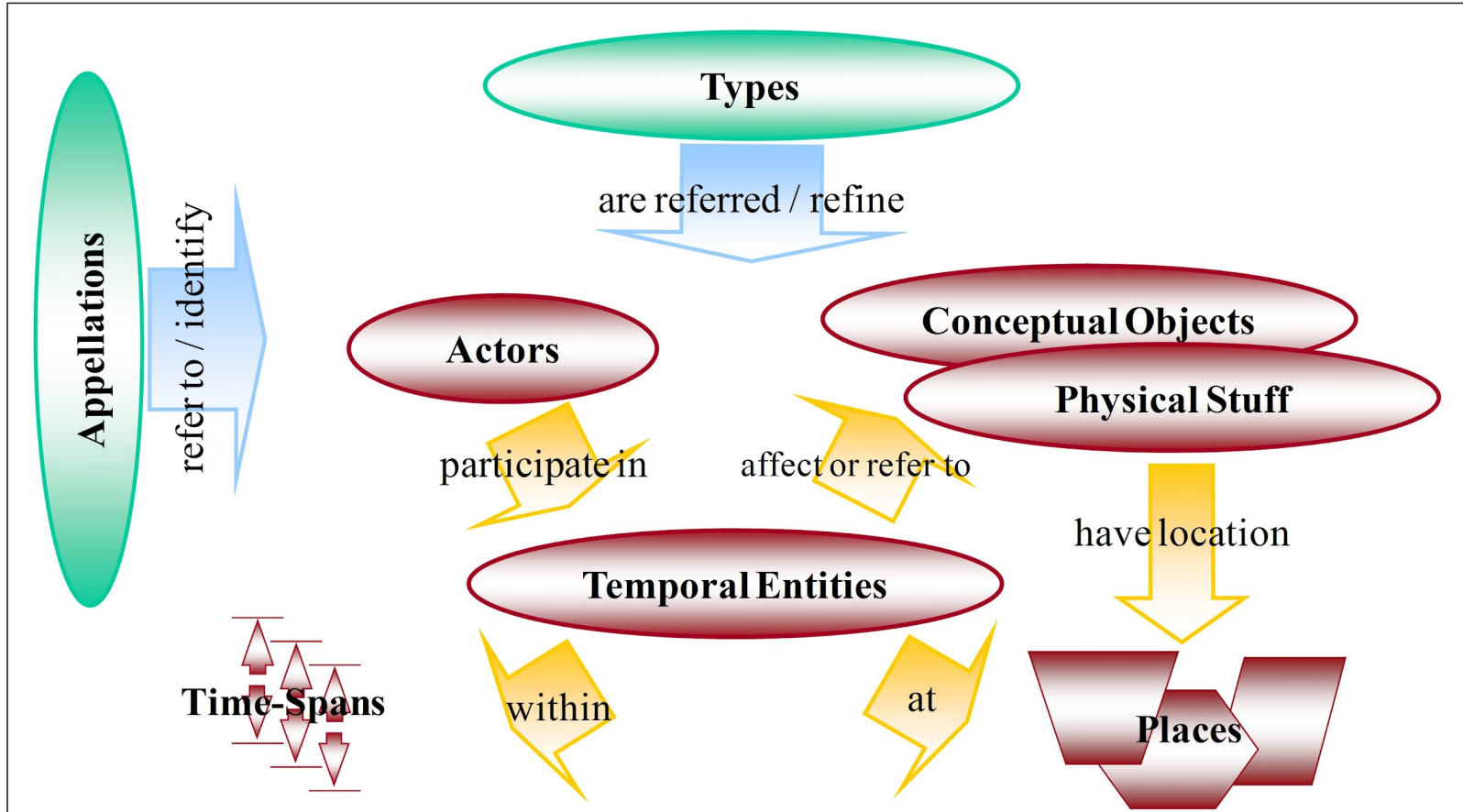
[Brett, Thomas, 1667-1744 \(Person\)](#) ← Created

http://cofk2.bodleian.ox.ac.uk/culturesofknowledge/images/selden_end/BRA_BRETT/06819.png (Image) ← Is image of

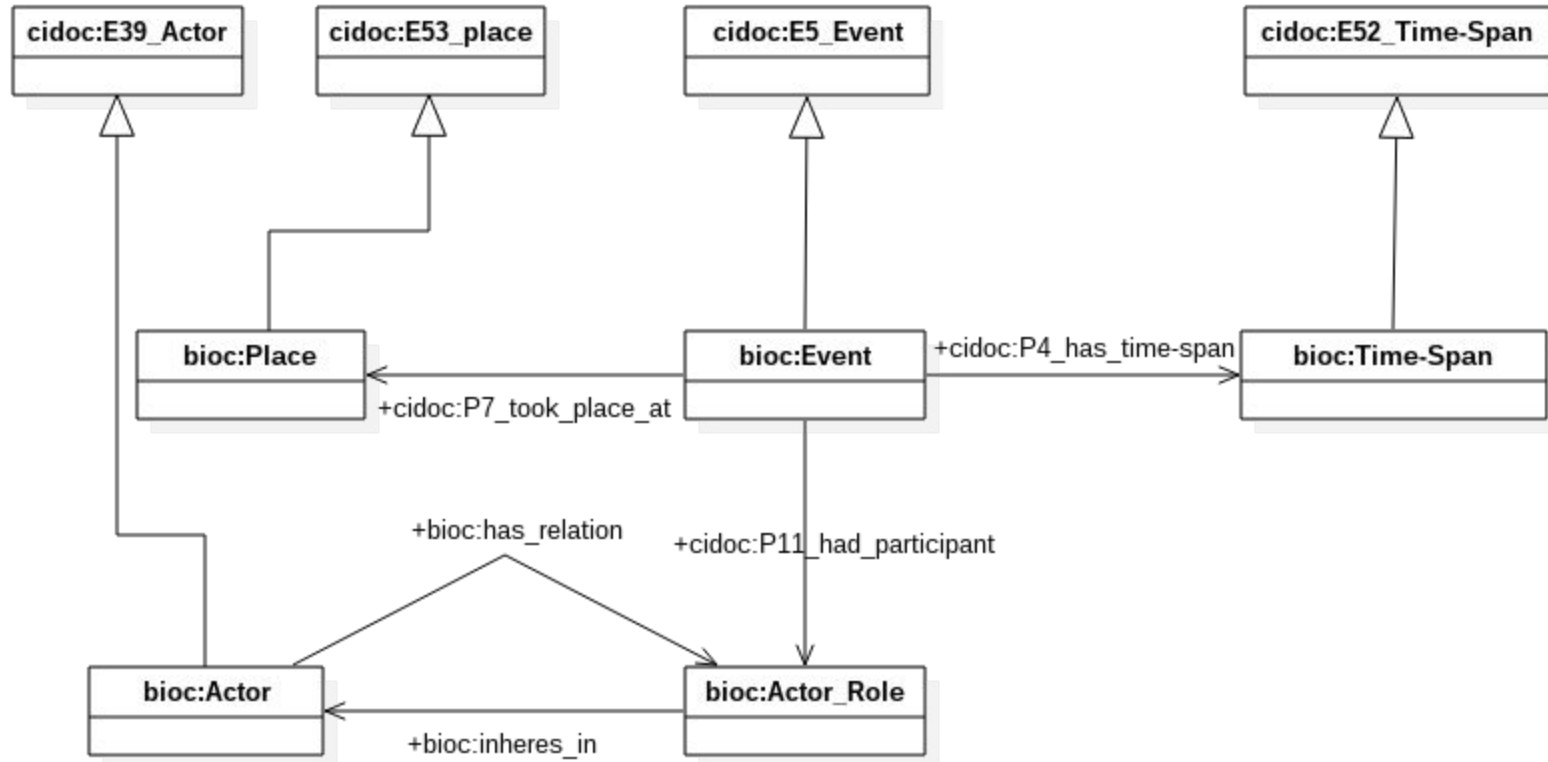
Prosopographical Data



CIDOC CRM for event modeling



Bio CRM: extending CIDOC with roles



Example: events and roles

bioc:Event

:Ecclesiastical_Event

:Baptism

Roles: :Officiant, :Baptismal_Candidate, :Godfather, :Godmother, :Religion

:Confirmation

Roles: :Officiant, :Confirmation_Candidate, :Religion

...

:Educational_Event

:Political_Event

:Professional_Event

:Social_Status_Change

...

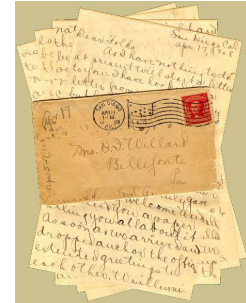
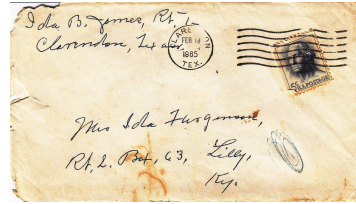
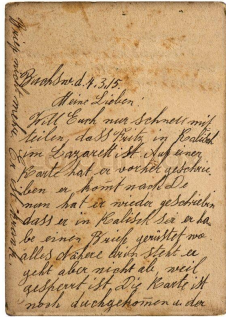


Aalto University
School of Science



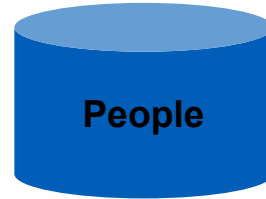
HELDIG
Helsinki Centre for Digital Humanities

Ontology infrastructure



Places

"London isPartOf England"



People

VIAF, CERL, Getty ULAN...

URI: http://dbpedia.org/resource/Pyotr_Ilyich_Tchaikovsky











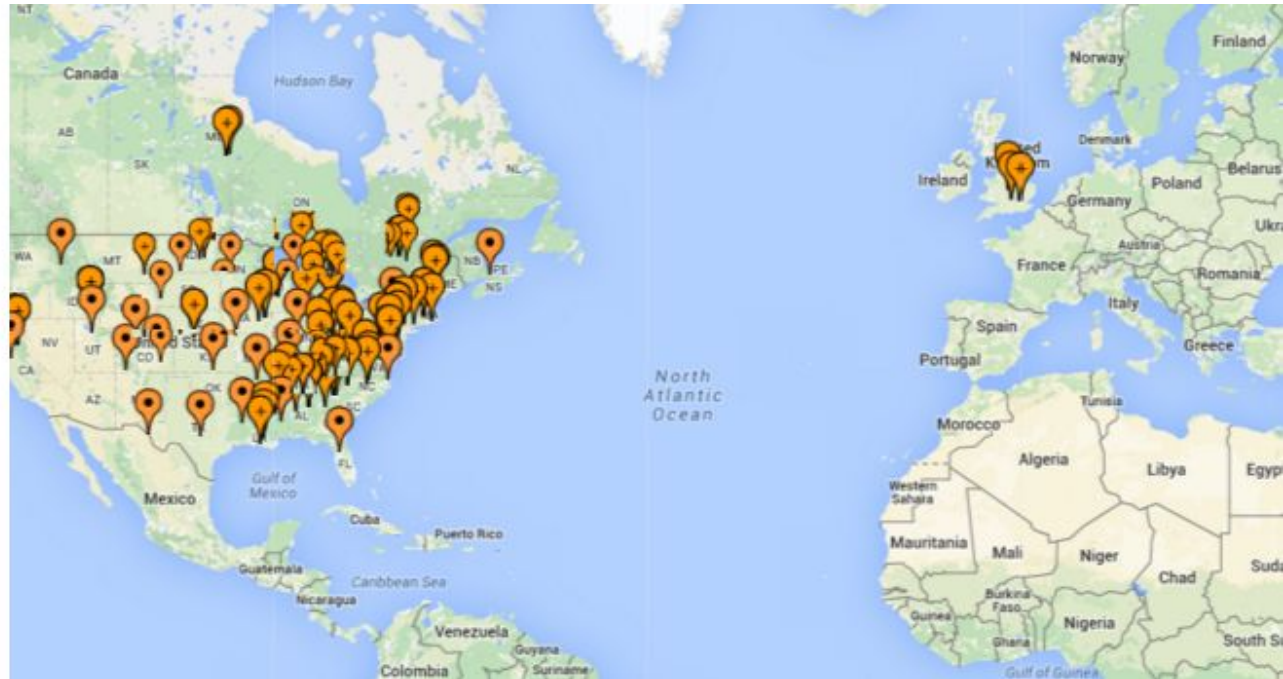
Pjotr Tšaikovski (fi)
Пётр Ильич Чайкóвский (ru)
Pyotr Ilyich Tchaikovsky (en)
Pjotr Tjajkovskij (sv)
Pjotr Tsjajkovskij (no)
Pjotr Iljitsch Tschaikowski (de)
Piotr Ilitch Tchaïkovski (fr)
Piotr Ilich Chaikovski (es)
Pëtr Il'ič Čajkovskij (it)
Pjotr Iljitsj Tsjaikovski (nl)
Piotr Ilitch Tchaikovsky (pt)
Piotr Czajkowski (pl)
Piotr Ilici Ceaikovski (ro)
Pjotr Iljics Csajkovszkij (hu)

Which Oxford?

Search places [Maps](#)

oxford

- Oxford** (inhabited places, Furnas, Nebraska, ... World) 
- Oxford** (inhabited places, Worth, Missouri, ... World) 
- Oxford** (inhabited places, Johnson, Iowa, ... World) 
- Oxford** (inhabited places, Benton, Indiana, ... World) 
- Oxford** (inhabited places, Sumner, Kansas, ... World) 
- Oxford** (inhabited places, Scott, Kentucky, ... World) 
- Oxford** (inhabited places, Newton, Georgia, ... World) 
- Oxford** (inhabited places, Marquette, Wisconsin, ... World) 



Person search widget

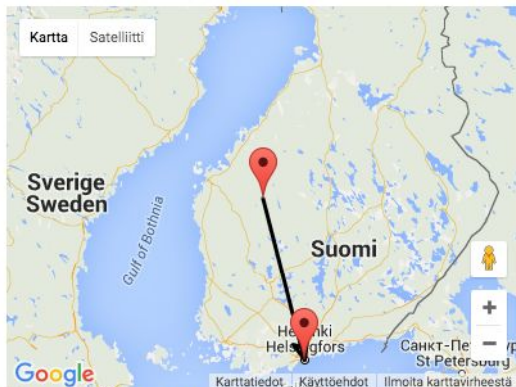
Finnish historical persons

- Aalto**, Alvar (1898-1976)
- Aalto**, Arvo (1932-)
- Aalto**, Erkki (1904-1984)
- Aalto**, Ilmari (1891-1934)
- Aalto**, Juho Lauri (1894-1965)
- Aalto**, Pentti (1917-1998)
- Aalto**ila, Heikki (1905-1992)
- Aaltonen**, Aimo (1906-1987)
- Aaltonen**, Aleks (1892-1956)

Aalto, Alvar (1898-1976), arkkitehti



Alvar Aalto on modernin arkkitehtuurin tärkeimpiä edustajia ja kansainvälisesti tunnetuin suomalainen arkkitehti. Hän on suunnitellut sekä aluekokonaisuuksia että yksittäisiä rakennuksia. Sisustuksia ja huonekaluja hän muotoili yhdessä vaimonsa Aino Aallon kanssa. Suomalaisen arkkitehtuurin ja yhteiskunnan kannalta on ollut tärkeää, että Aalto edisti modernismin standardisoitua rakentamista ja sosiaalista arkkitehtuurisuunnittelua.

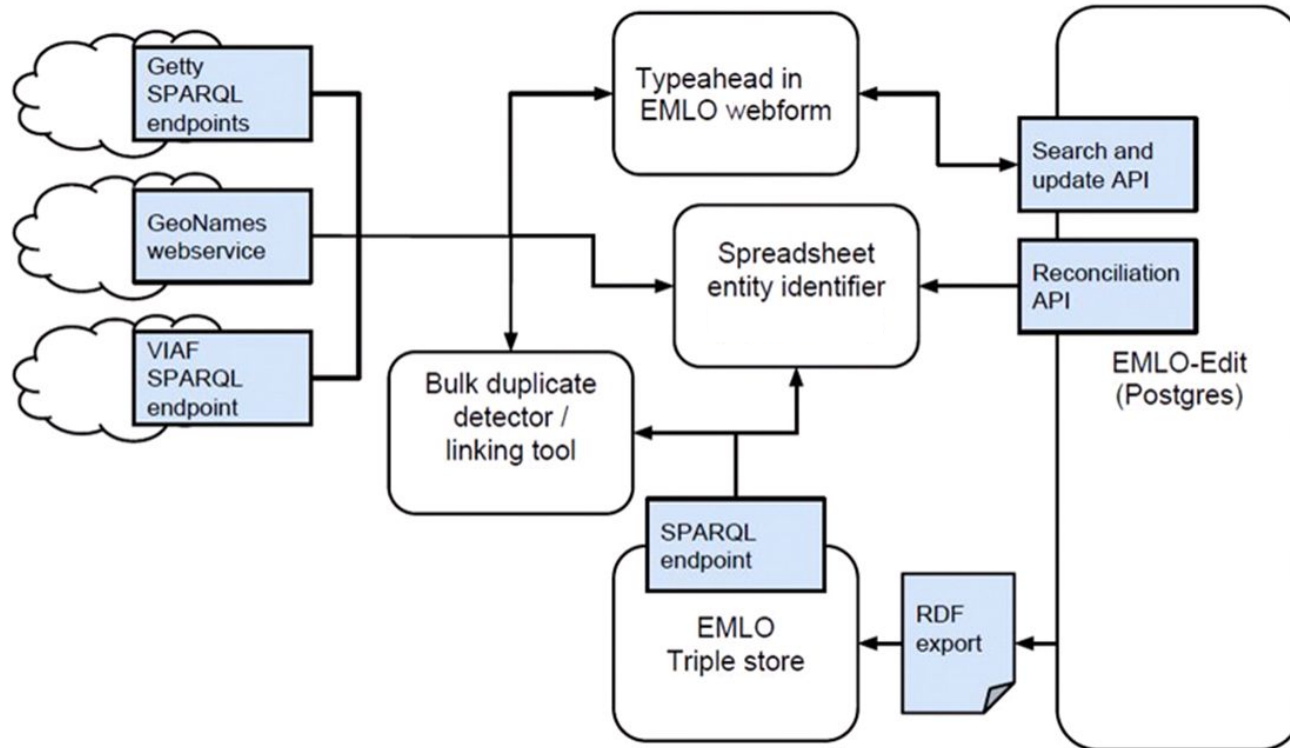


[Browse linked data](#)

[Original data](#)

<https://github.com/SemanticComputing/federated-sparql-search-widget>

Demo: <http://www.ldf.fi/dev/people-search-widget/>



Reconciliation toolkit

- **Mare:** simple map/reduce tool for preprocessing spreadsheets
- **Recon:** semi-automatic matching tool for attaching strong identifiers to entities (e.g., people, places)

<https://github.com/jiemakel/mare>

<https://github.com/jiemakel/recon>

Input letter dataset

	A	B	C	D	E	F	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	work_id	date_of_work_as_marked	original_calendar_format_of_date_being_used_to_calendar_in_emlo (G = Gregorian; J = Julian; U = Unknown)	date_or_work_year	date_of_work_month	date_of_work_day	author_names	author_ids	authors_as_written_on_letter	authors_inferred (0 = False, 1 = True)	authors_uncertain (0 = False, 1 = True)	notes_on_authors	addressee_names	addressee_ids	addressees_as_written_on_letter	addressee_inferred (0 = False, 1 = True)	addressee_uncertain (0 = False, 1 = True)	notes_on_addressees
2	WORK ID	DATE OF WORK AS MARKED: date as written on letter	CALENDAR format of DATE BEING USED TO CALENDAR IN EMLO (G = Gregorian; J = Julian; U = Unknown)	DATE OR WORK, YEAR: e.g. 1652	DATE OF WORK, MONTH: e.g. 10	DATE OF WORK, DAY: e.g. 21	AUTHOR (Surname, forename). Multiple values should be separated by semicolons NB This is the name of the person as used in this dataset, but is NOT necessarily the person's primary name used in EMLO.	AUTHOR EMLO ID	AUTHOR AS MARKED: author name as written on letter	AUTHOR INFERR ED: 0 = False 1 = True	AUTHOR UNCER TAIN: 0 = False 1 = True	NOTES ON AUTHOR: free text notes	RECIPIENT (surname, forename). NB This is the name of the person as used in this dataset, but is NOT necessarily the person's primary name used in EMLO. Multiple values should be separated by semi-colons	RECIPIENT EMLO ID	RECIPIENT AS MARKED: recipient's name as written on letter	RECIPIENT INFERR ED: 0 = False 1 = True	RECIPIENT UNCER TAIN: 0 = False 1 = True	NOTES ON RECIPIENT: text notes
5	3	G	1625	5	16	Bredeau, Claude	905357						Mersenne, Marin	300610				
6	4	G	1625	7	10	Peiresc, Nicolas-Claude Fabri	16232						Vallavez, Palamede de	903252				
7	5	G	1625	7	29	Cornier, Robert	905389		1				Mersenne, Marin	300610				

iwork_id	date_of_work_as_marked	original_calendar	date_of_work_std_year	date_of_work_std_month	date_of_work_std_day	date_of_work2_std_year	date_of_work2_std_month
1		G	1625	4	12		
2		G	1625				
3		G	1625	5	16		

Output

Select mapping Import mapping Edit mapping Save mapping Export mapping

Persons	Date range X	Places X	+
author_names X	date_of_work_std_year X date_of_work2_std_year X -- add new --	origin_name X -- add new --	
addressee_names X	date_of_work_std_year X date_of_work2_std_year X -- add new --	destination_name X -- add new --	
-- add new --	Number range	Distinct values	

Output

[Select mapping](#)[Import mapping](#)[Edit mapping](#)[Save mapping](#)

Persons	Date range	Places
Chastelier, Jean	1625-1626	La Flèche
Mersenne, Marin	1617-1648	Paris; Calais; Rome; Venice; Orléans; Poitiers; Rouen; Brussels; Anvers; Leiden
Bredeau, Claude	1625-1628	Nevers
Peiresc, Nicolas-Claude Fabri de	1625-1637	Aix; Paris; Belgentier
Cornier, Robert	1625-1628	Rouen
Mydorge, Claude	1625-1638	Paris; Aix
Stanihurst, Henry de	1625-1625	Rouen
Lefebvre	1625-1625	Rouen
Unidentified sender	1626-1641	Paris
François, Jean René	1626-1627	Marseille; Avignon

[Save as CSV](#)



SPARQL endpoint

Match and short description query

```
1 PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
2 PREFIX skos: <http://www.w3.org/2004/02/skos/core#>
3 PREFIX text: <http://jena.apache.org/text#>
4 PREFIX pf: <http://jena.hpl.hp.com/ARQ/property#>
5 PREFIX sf: <http://ldf.fi/similarity-functions#>
6 PREFIX crm: <http://www.cidoc-crm.org/cidoc-crm/>
7 PREFIX emlos: <http://emlo.bodleian.ox.ac.uk/schema#>
8 PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
9 SELECT ?queryId ?entity (SAMPLE(?l) AS ?label) (GROUP_CONCAT(DISTINCT ?al;separator=", ") AS ?alabel) (CONCAT(MAX(?
  bwarning),MAX(?dwarning)) AS ?warning) (GROUP_CONCAT(DISTINCT ?pl;separator=", ") AS ?plabel) (MAX(?sc) AS ?score) (SAMPLE(?url)
  AS ?link) {
10 { # QUERY
11 {
12 SELECT ?e ?mlabel (SUM(?s)/COUNT(?s) AS ?sc) {
```



Entries per page

[Return to project](#)[Import project](#)[Export project](#)[Delete project](#)

Chastelier, Jean

Mersenne, Marin

Bredeau, Claude

Peiresc, Nicolas-Claude Fabri de

Cornier, Robert

Mydorge, Claude

Stanihurst, Henry de

Lefebvre

Unidentified sender

François, Jean René

Hoguette, Philippe Fortin de la

Descartes, René

Doni, Jean-Baptiste

Persons

Date range

Places

Cornier, Robert

1625-1628

Rouen

Notes

	Match	alabel	warning	plabel	link
0	None of the below				
1	Cornier, Robert, fl. 1625-1628			Rouen	[o]
2	Corker, Robert (fl. 1700)	A Cornishman			[o]
3	Ball, Robert, fl. 1634-1691	Letter-carrier for Robert Boyle			[o]
4	Bellarmino, Roberto Francesco Romolo, 1542-1621	Italian Jesuit and a Cardinal, Bellarmine, Robert; Bellarmin; Bellarmino, Roberto Francesco Romolo; Belarminus, Robertus		Rome	[o]

Mary Percy, countess of Northumberland

Lady Frances Pierrepont

Edward Manners, third earl of Rutland

Gilbert Talbot

Gilbert Talbot; Mary Talbot

Mary Talbot

Lady Dorothy Stafford

Anne Talbot

Richard Topcliffe

Sir Francis Willoughby

Elizabeth Wingfield

Sir Robert Cecil; Sir John Stanhope

The Lords of the Council

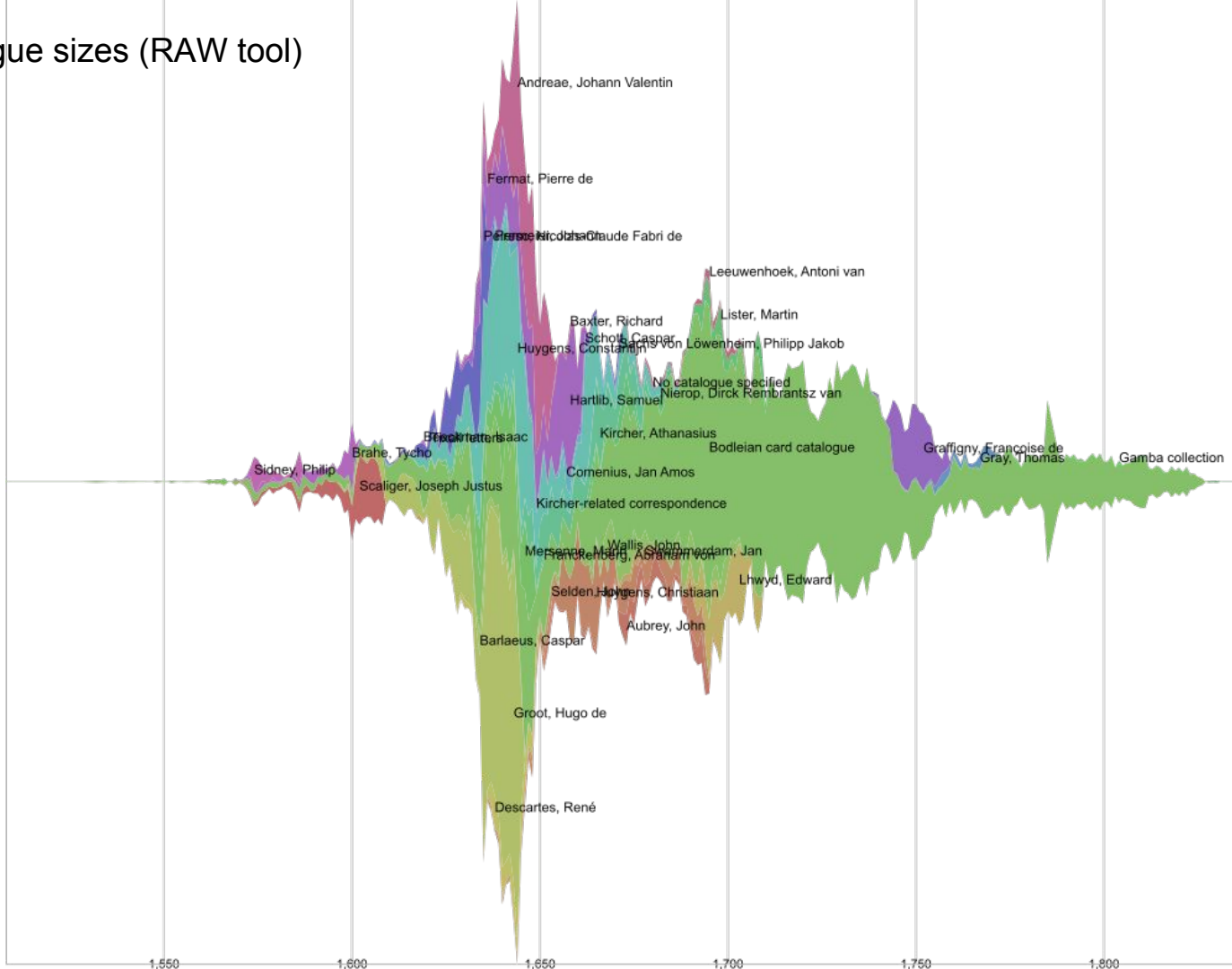
Persons	Date range	Places
Gilbert Talbot	1570-1579	Court at Greenwich; Shrewsbury Place, London, Greater London; Wingfield; Buxton, Derbyshire; [The Royal Court, London?]; Padua, Italy; Sheffield, Yorkshire

Notes

	Match	alabel	warning	plabel	link
0	None of the below				
1	Talbot, Gilbert (Sir), 1607-1695	M.P., F.R.S.	Wasn't born!	Whitehall	[o]
2	Talbot, Gilbert, 1552-1616	seventh earl of Shrewsbury		Charing Cross, Sheffield, Shrewsbury House, Greenwich, London, Padua, Wingfield Manor, Buxton	[o]
3	Talbot, Gilbert, fl. 1651	Jesuit priest, 13th Earl Shrewsbury		Fermo	[o]
4	Talbot, Mary, 1556-1632	wife of Gilbert Talbot, seventh earl of Shrewsbury, née Cavendish, daughter of Sir William Cavendish and Bess of Hardwick, Countess of Shrewsbury		Charing Cross, Sheffield, Sheffield Lodge	[o]
5	Cavendish, Grace, 1579-1625	wife of Henry Cavendish, daughter of George Talbot, sixth earl of Shrewsbury, neé Talbot		Doveridge	[o]

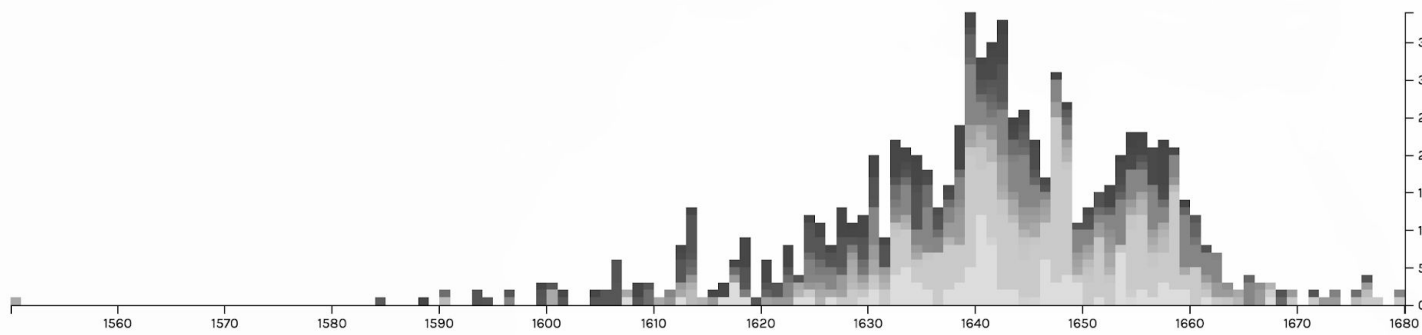
	A	B	C	D	E	F
1	Persons	Match	Notes	Date range	Places	
2	Chastelier, Jean	905379		1625-1626	La Fl�che	
3	Mersenne, Marin	300610		1617-1648	Paris; Calais; Rome; Venice; Ori�ans; Poitiers; Rouen; Brussels; Anvers; Leiden	
4	Bredeau, Claude	905357		1625-1628	Nevers	
5	Peiresc, Nicolas-Claude Fabri de	16232		1625-1637	Aix; Paris; Belgentier	
6	Cornier, Robert	905389		1625-1628	Rouen	
7	Mydorge, Claude	900356		1625-1638	Paris; Aix	
8	Stanihurst, Henry de	905365		1625-1625	Rouen	
9	Lefebvre	905387		1625-1625	Rouen	
10	Unidentified sender			1626-1641	Paris	
11	Fran�ois, Jean Ren�	905359		1626-1627	Marseille; Avignon	
12	Hoguette, Philippe Fortin de la	905354		1626-1626	Saintes	
13	Descartes, Ren�	300075		1625-1648	Paris; Franeker; Amsterdam; Leiden; Deventer; Utrecht; Alcm�er; Santpoort; Endegeest; Egmond sur le Hoef	
14	Doni, Jean-Baptiste	7015		1626-1647	Rome; Florence	
15	Amama, Sixte			1626-1629	Franeker	
16	Faure			1626-1628	Paris	
17	Leloyer, Pierre			1627-1627	Angers	
18	Rivet, Andr�			1626-1648	Leiden; La Haye; London; Breda	
19	Dupuy, Jacques			1627-1637	Paris	
20	Lesguillier, Nicolas					
21	Saint-Faron, Guillaume de			1617-1627	P�ronne	
22	Moreau, Ren�			1644-1644	Paris	
23	Dupuy, Pierre			1626-1634	Paris	
24	Titelouze, Jean-Baptiste			1628-1633	Rouen	
25	Nou�, Fran�ois de la			1626-1647	Paris; Rome	
26	Agutz, Pierre d'			1628-1628	Madrid	
27	Gassendi, Pierre			1628-1637	Paris; Charleville; Aix-la-Chapelle; Brussels; Lyon; Digne; Aix; Tanaron	
28	Gaffarel, Jacques			1628-1641	Aix; Venice; Paris	
29	Valois, Jacques de			1629-1648	Grenoble	
30	Beeckman, Isaac			1626-1633	Dordrecht	
31	Kepler, Jean			1629-1629	Sagan (Sil�sie)	
32	Gool, Jacques			1630-1635	Leiden	
33	Helmont, Jean-Baptiste van			1630-1631	Malines; Brussels	
34	Beaugrand, Jean de			1630-1640	Paris; Florence	
35	Woestenraedt, J. de			1630-1630	Li�ge	
36	Naud�, Gabriel			1630-1644	Paris; Rome; Gaggioli; Rieti; Saverolo; Padua	
37	Arsy, Anne d'			1630-1630	Arsy	

EMLO catalogue sizes (RAW tool)





Facet Timeline Timespan connections 836, 15, 126, 9, 10, 6, 35, 12, 470, 4, 8, 79, 234, 22, 42, ...



Timeline

Description begin

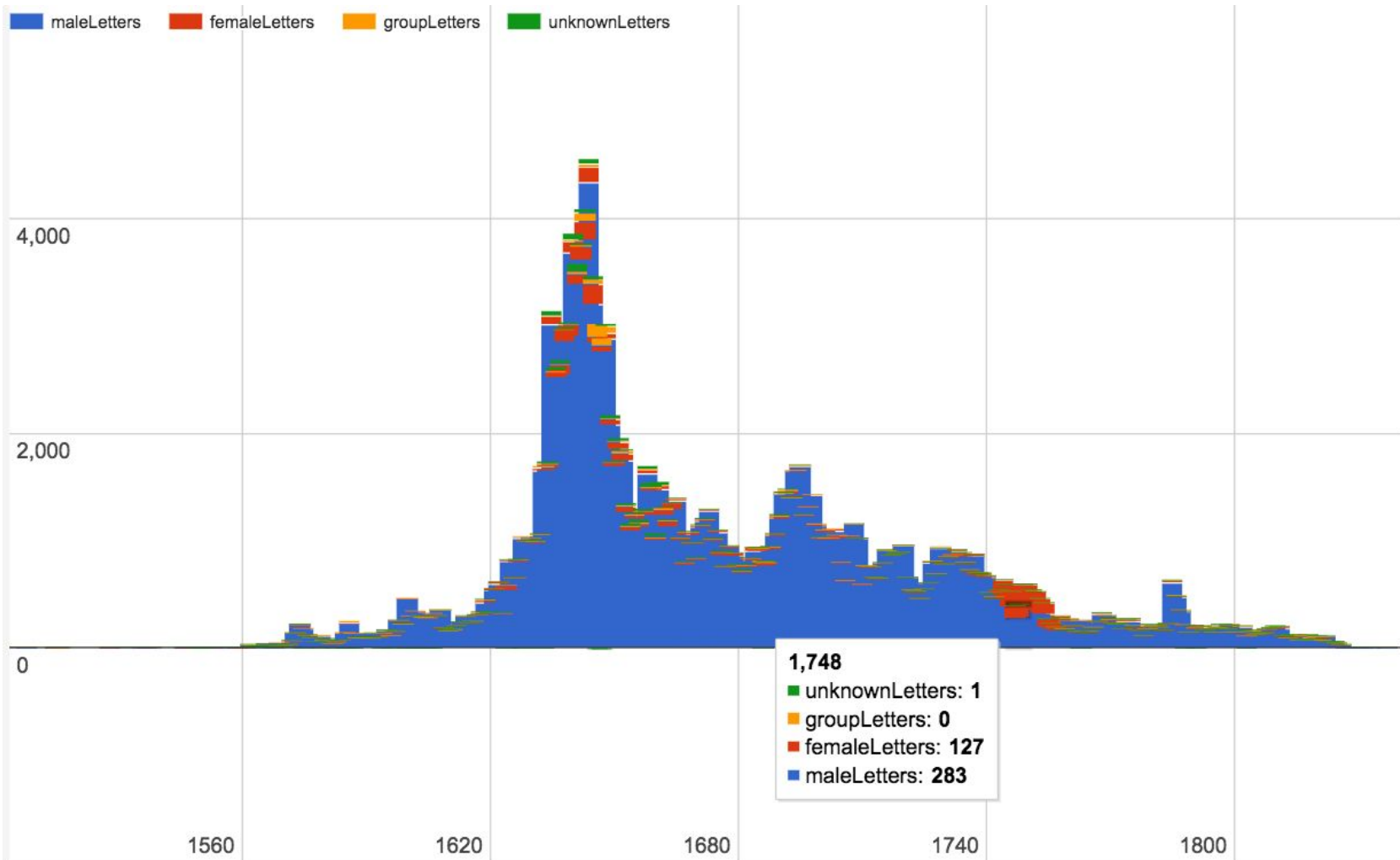
Dates begin

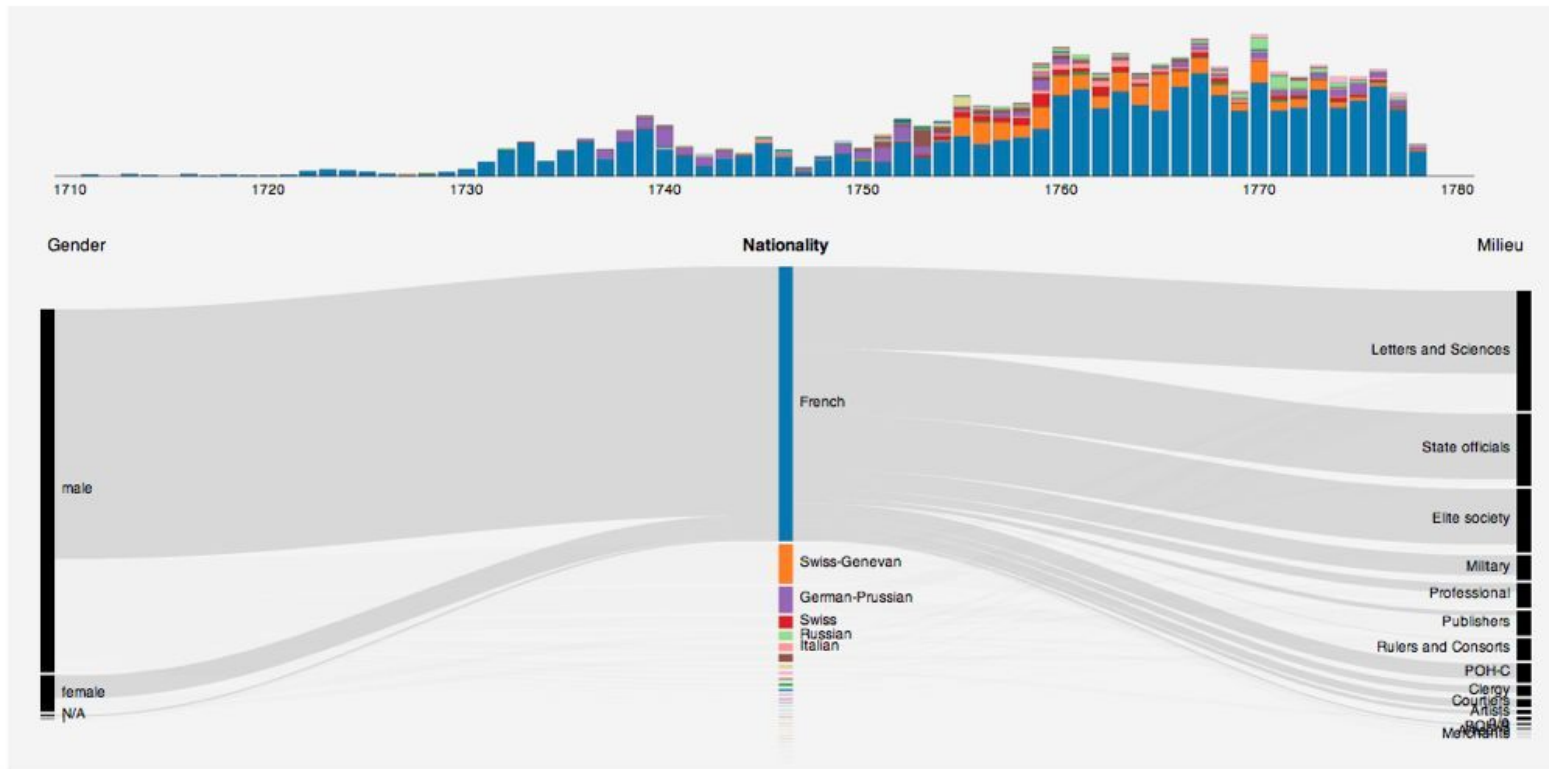
Height Number of Connections

Group by type

Clear

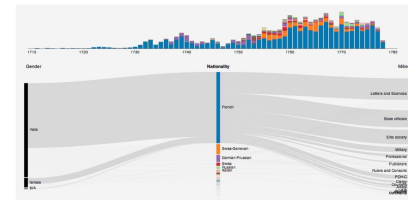
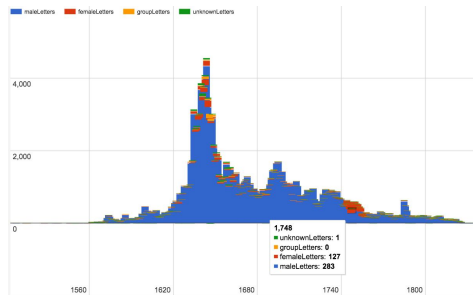
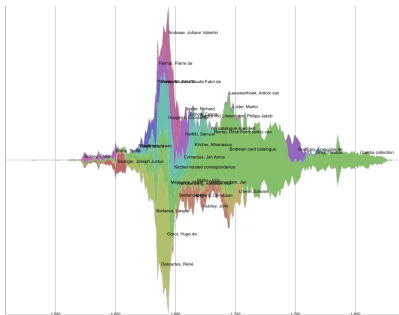
Samuel Hartlib's social relations (Palladio tool)



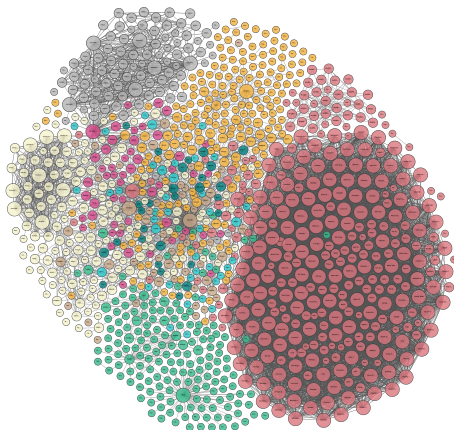


Voltaire's French Correspondents

Mapping the Republic of Letters, case study by Edelstein et al., 2010–



- Legend
- Class Canvas
- Designs
- Chairs
- St. Scholastica
- Stables
- Publicans
- Social Networking
- Postcard
- Accounting L&S
- Quipping L&S



Thank you!



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