

OXLOD Open Workshop

12 June 2018 - OeRC

Linked Open Data primer: Kevin Page

Mapping Manuscript Migrations: Toby Burrows

Bodleian MSs catalogs: Andrew Morrison

Mapping MMM data: Athanasios Velios





AWARDS

ROUND

AWARD

Mapping Manuscript Migrations: digging into data for the history and provenance of pre-modern European manuscripts

AWARDS NAVIGATION

Select Awards Round



Mapping Manuscript Migrations: Digging Into Data For The History And Provenance Of Pre-Modern European Manuscripts

Abstract

Hundreds of thousands of pre-modern European manuscripts have survived until the present day. As the result of changes in their ownership over the centuries, they are now spread all over the world. Collectively they constitute a great cultural and scholarly treasure. There are many sources of data relating to them, and new sources continue to proliferate in the digital environment. This project will link disparate datasets from Europe and North America to provide an international view of the history and provenance of these manuscripts. The aggregated data will enable researchers to analyse and visualize these topics at scales ranging from individual manuscripts to thousands of manuscripts. Our research will address their origins and movements, and the collectors and owners involved in their history. We will be able to show how these manuscripts have traveled across time and space to their current locations, where they continue to find new audiences.

Principal Investigators

Toby Burrows, University of Oxford, United Kingdom, AHRC/ESRC
Eero Hyvönen, Aalto University, Finland, AKA
Lynn Ransom, University of Pennsylvania, United States, IMLS
Hanno Wijsman, Institut de recherche et d'histoire des textes, France, ANR

Project Objectives

- Collect and transform heterogeneous data to a unified Data Model
- Expose the combined data in a Linked Data environment
- Implement a software interface for browsing and searching the combined data
- Explore research questions relating to the history and provenance of manuscripts on a large scale
- Visualize the data
 - geographical relationships
 - network relationships



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PEOPLE

PLACES

WORKS

MANUSCRIPTS

Data Sources

Medieval Manuscripts in Oxford Libraries	Text Encoding Initiative (TEI)	9,500 catalogue records; about 1,000 with detailed provenance information
Schoenberg Database of Manuscripts (UPenn)	Own data model	225,000 records containing provenance- related observations of manuscript histories
Bibale (IRHT) Medium (IRHT)	Own data model	Bibale: more than 5,000 manuscripts with provenance information Medium: brief records for more than 109,000 manuscripts, with links to other sources of information



A catalogue of Western manuscripts at the Bodleian Libraries and selected Oxford colleges

Search Medieval Manuscripts





ADVANCED SEARCH

OR BROWSE BY

MANUSCRIPTS

WORKS

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Collections

Christ Church MSS.	Dep. (Deposited manuscripts)	Fragments in printed books	MSS. Add. (Additional) A	MSS. Add. (Additional B		
MSS. Add. (Additional) C	MSS. Add. (Additional) D	MSS. Add. (Additional) E	MSS. Arch. Selden. (Archivum Seldenianum)	MSS. Ash. (Ashmole) Rolls		
MSS. Ashmole	MSS. Aubrey	MSS. Auct. B. (Auctarium B.)	MSS. Auct. D. (Auctarium D.)	MSS. Auct. E. (Auctarium E.)		
MSS. Auct. F. (Auctarium F.)	MSS. Auct. T. (Auctarium T.)	MSS. Auct. V. (Auctarium V.)	MSS. Barlow	MSS. Barocci		

Physical Description

Form: codex

Support: parchment

Extent: i (modern parchment) + iv (paper) + 15 + iv (paper) + i (modern parchment)

Dimensions (leaf): 355×230mm.

Dimensions (written): 280-90×190-5mm.

Foliation: modern pencil: i-v, 1-20; the text leaves foliated in pencil in the lower margin, probably by Phillipps

Collation

1(16)

Layout

72-81 lines; in 3 columns; ruled in pencil

Decoration

Red and blue initials with penwork.

Binding

Bound c.1800 in figured red velvet, with blue silk linings decorated in gold, edges gilt and gauffered. Paper flyleaves have watermarks 'J. Whatman' and '1794 J. Whatman', cf. Heawood, nos. 3459–60.

History

Origin: 13th century, late; French (Italian-looking hand) (?)

Provenance and Acquisition

Probably from same MS. as MS. Lat. class. c. 12.

Theodore Poelman (or Pulman), 16th century: annotated by him, and inscribed 'Sum Theodori Pulmanni' (fol. 1r). Cited as MS.P in his edition of Claudian, first published by Plantin, 1571; but M.A. Del Rio, in his Notae in Claudianum (Antwerp, 1572, but found accompanying Poelman's 1571 edition) refers to the MS. as 'm.s. liber quam mihi utentum Victor Giselinus [i.e. Ghyselinc] singulari vir doctrina concessit' (cit. Hall, ed. cit., p.17). At least one other MS. from Poelman's collection now in the Plantin Moretus Museum, MS.Lat.120, was given to him by Giselinus.

John Broadley, his sale, 12 July 1832, lot 182 (this no. in pencil on fol. i verso).

Thomas Thorpe, Catalogue of upwards of 1400 MSS ..., 1836, no. 282

Sir Thomas Phillipps (1792-1872), MS. 8775

Sotheby's 28 Nov. 1967, lot 100. Bought.

Toby Burrows -User Level: super_editor

Notifications -

O Dashboard

Bookmarks

H Exports

⊘ Groups

Watched Records

□ Projects -

TOOLS

+ Add New Entry -





n identified as belonging to manuscript record SDBM_MS_9367, which has 2 entries in the SDBM
1833-03-16 - London - D'athanasi (Auction/Dealer Catalog)
201
London
Bible
C 1250 (1240 to 1261)
Italy, Europe France, Europe
43
This entry has 5 provenance records involving: Maciejowski, Bernard, Cardinal 'Abbās I, Shah of Iran, 1571-1629 D'Athanasi, Giovanni Phillipps, Thomas, Sir, 1792-1872 Pierpont Morgan Library

Download results as CSV

12	
Source	~
1833-03-16 - London - D'athanasi	1
Bibliothèque nationale de France - Bibliotheque na- tionale de France, Archives Manuscrits Online Catalog	
Source Type	*
Auction/Dealer Catalog	1
Collection Catalog	1
Provenance	>
Manuscript Date	>
Manuscript	>
Place	>
Language	>
Material	>
Folios	>



User Level: super_editor

Notifications -

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Search database...

Search Q

Advanced

My Searches - Recent Additions Community Forum

« Previous Next » A-Z Sort Numerical Sort

Browsing facet: Provenance

Bibliothèque nationale de France	21,049
Phillipps, Thomas, Sir, 1792-1872	19,603
British Library	7,525
Bernard Quaritch (Firm)	4,765
Thorpe	4,312
Colbert, Jean Baptiste	4,157
Bibliotheque royale de Belgique	3,711
Thorpe, Thomas, 1791-1851	2,941
Pierpont Morgan Library	2,907
Biblioteca apostolica vaticana	2,828
Cotton, Robert, Sir, 1571-1631	2,693
Libri, Guillaume, 1803-1869	2,593
Rodd	2,489
North, Frederick, Earl of Guilford, 1766-1827	2,420
Celotti, Luigi, Abate (1768-1846)	2,272
Ashburnham	2,081
Venezia, Biblioteca nazionale marciana	2,016
Portland, Margaret Cavendish Holles Harley Bentinck, Duchess of, 1715-1785	1,870
Oxford, Robert Harley, earl of, 1661-1724	1,854
Harley, Henrietta Cavendish Holles, Countess of Oxford	1,846
Payne & Foss	1,798
Puttick and Simpson	1,753
Henry E. Huntington Library and Art Gallery.	1,677
Riccardi family	1,622



De la bibliothèque médiévale ...

À l'origine, l'objectif de Bibale, créée par la section Codicologie de l'IRHT, était de décrire l'histoire de la transmission des manuscrits et des textes qu'ils contiennent par l'étude des collections anciennes et modernes, et celle de leurs possesseurs.

Les notices décrivent les manusrits conservés aujourd'hui, pourvus d'ex-libris, d'armoiries ou d'autres marques de provenance, mais aussi les manuscrits attestés par les documents les plus divers : inventaires, catalogues, comptabilités, chroniques, correspondances, etc.

... à la bibliothèque idéale

Forte de cette richesse, la nouvelle Bibale élargit le corpus de données à de plus nombreux imprimés, et ambitionne ainsi de fédérer toutes les données de provenance que pourront proposer les bibliothèques françaises participantes*.

Grâce à un système d'associations entre notices, Bibale permet d'une part de reconstituer la trajectoire de chaque exemplaire jusqu'à la collection où il est conservé aujourd'hui, à travers les bibliothèques médiévales et modernes, les collections publiques et privées, les ventes publiques et les collections de libraires, et d'autre part, de dévoiler les différentes collections qui ont existé à travers les siècles.

Toutes vos questions et remarques sont les bienvenues : formulaire de contact.

Les données de Bibale

Bibale décrit 5520 personnes morales et physiques, 1237 collections, 7491 sources et marques de provenances, 5684 livres (à l'heure actuelle essentiellement des manuscrits), 248 reliures, et 626 textes, liés à 240 œuvres.

Les notices présentes peuvent encore parfois être relativement sommaires.

Les sujets offrant le plus de données sont pour l'instant :

- L'héraldique: la plupart des données des 5200 fiches du fichier héraldique de l'IRHT ont été versées dans Bibale, créant ainsi autant de provenances (principalement des armoiries, quelques devises et mots), reliées à des personnes et des livres. Les fiches originales ont toutes été numérisées et sont mises à disposition dans Bibale.
- Les bibliothèques des dominicains du Sud de la France: la bibliothèque du couvent de Toulouse a fait l'objet d'une étude approfondie (comprenant des descriptions codicologiques et quelques descriptions textuelles) et quelque 150 manuscrits ont été versés dans Bibale, avec les sources (cotes anciennes, ex-libris) et les personnes associées. Cet ensemble est complété par la saisie de tous les couvents dominicains du Sud-Est de la France et des livres, personnes, sources et marques de provenance correspondantes. Le dernier couvent de la zone, celui d'Avignon, est intégralement publié.

Derniers ajouts

04/06/2018

France, Paris, Bibliothèque nationale de France, Manuscrits, fr. 23007

04/06/2018

France, Paris, Conservatoire national des arts et métiers. Bibliothèque Centrale, Pt Fol Ca 1 Res

04/06/2018

France, Paris, Bibliothèque nationale de France, Manuscrits, fr. 23006

04/06/2018

France, Paris, Bibliothèque nationale de France, Manuscrits, fr. 23005

04/06/2018

France, Paris, Bibliothèque nationale de France, Manuscrits, fr. 23004

Derniers articles de blog

21/01/2018

test avec Flo

18/01/2018

test rédacteur 2 pubié

15/01/2018

Bonne année!

Voir tous les articles

Actualités

21/12/2017



SUISSE, COLOGNY, Fondation Martin Bodmer, 076

Type Livre

Permalien http://bibale2.irht.cnrs.fr/view/14751

Publié par



▶ General

SUISSE, COLOGNY, Fondation Martin Bodmer, 076 Cote livre

Type composant Volume conservé **1101 - 1200** Date

Lieu Italie

Gregorius Magnus, Homiliae en Ezechielem Medium commentaire

Associations (7)

	Type asso	Notice	Date								
B	est mentionné dans	est mentionné dans E. Pellegrin, Manuscrits latins de la Bodmeriana, Cologny-Genève, Fondation Martin Bodmer, 1982, p. 132-133									
	fait partie de	Collection Phillipps									
	fait partie de	Fonds du libraire Thomas Thorpe									
	fait partie de	Collection de Sydney Cockerell									
	fait partie de	Fonds de la librairie Dawsons (Pall Mall, Londres)									
	fait partie de	Fonds de libraire de Philip Duschnes									



Recherche

IRAT

Accueil

Manuscrits Etablissements Panier (0)

Aide

Liste des Manuscrits: Pays: États-Unis | Ville: New York | Etablissement: Morgan Library and Museum |

121 réponses, page 1/13



Nombre de lignes par page: 10

PAYS	VILLE	ETABLISSEMENT	COTE	AUTRES	REPRODUCTIONS	STOCKAGE	CLASSEMENT	SECTIONS	DATATION	CONTENU	DÉCORATION	DIFFUSION
USA	New York	Morgan Library and Museum	0043		décor numérique (à faire)			HEB.				consultation libre, pas de reproduction
USA	New York	Morgan Library and Museum	0638					HEB.				consultation libre, pas de reproduction
USA	New York	Morgan Library and Museum	0739		décor numérique (à faire)			HEB.				consultation libre, pas de reproduction
USA	New York	Morgan Library and Museum	B. 012		intégral argentique (FAIT)	IRHT	MF 45505	LAT. MUS.	15e s.	Traités d'Astronomie, de Mathématiques et de Musique	sans	consultation libre, pas de reproduction
USA	New York	Morgan Library and Museum	Census de Seymour 115		intégral argentique (FAIT)	IRHT	MF 65475	LAT. MUS.	15e s. (1470)	Graduel de Dijon	iconographie ornement	consultation libre, pas de reproduction
USA	New York	Morgan Library and Museum	Census de Seymour 377		intégral argentique (FAIT)	IRHT	MF 18169	LAT.	?	Missel	?	consultation libre, pas de reproduction
USA	New York	Morgan Library and Museum	Colt Papyri		intégral argentique (FAIT)	IRHT	MF 47588	AR. GR.	?	Papyrus bilingues (grec- arabe)	sans	consultation libre, pas de reproduction
USA	New York	Morgan Library and Museum	Colt. pap. 064		intégral numérique (à faire)			AR.				consultation libre, pas de reproduction
USA	New York	Morgan Library and Museum	Colt. pap. 065		intégral numérique (FAIT)			AR.				consultation libre, pas de reproduction
	USA USA USA USA USA USA	USA New York USA New York	USA New York Morgan Library and Museum USA New Morgan Library and Museum	USA New York Morgan Library and Museum 0638 USA New York Morgan Library and Museum 0739 USA New York Morgan Library and Museum B. 012 USA New York Morgan Library and Museum Census de Seymour 115 USA New Morgan Library and Museum Census de Seymour 115 USA New Morgan Library Census de Seymour 377 USA New Morgan Library Census de Seymour 377 USA New Morgan Library Colt Papyri and Museum Colt Papyri USA New Morgan Library Colt Papyri	USA New York Morgan Library and Museum 0043 USA New York Morgan Library and Museum 0638 USA New York Morgan Library and Museum 0739 USA New York Morgan Library and Museum B. 012 USA New York Morgan Library and Museum Census de Seymour 115 USA New York Morgan Library Census de Seymour 115 USA New Morgan Library Census de Seymour 377 USA New Morgan Library Census de Seymour 377 USA New Morgan Library Colt Papyri USA New Morgan Library and Museum Colt Papyri USA New Morgan Library Colt Papyri USA New Morgan Library Colt Papyri USA New Morgan Library Colt Papp. 064	USA New York Morgan Library and Museum 0638 USA New York Morgan Library and Museum 0638 USA New York Morgan Library and Museum 0739 USA New York Morgan Library and Museum 0739 USA New York Morgan Library and Museum 0739 USA New Morgan Library 0737 USA New Morgan Library 0737 USA New Morgan Library 0737 USA New Morgan Library 0738 USA New Morgan Library 0738	New York Morgan Library and Museum 0043 décor numérique (à faire) USA New York Morgan Library and Museum 0638 USA New York Morgan Library and Museum 0739 décor numérique (à faire) USA New York Morgan Library and Museum B. 012 intégral argentique (FAIT) USA New York Morgan Library Seymour 115 intégral argentique (FAIT) USA New York Morgan Library Census de Seymour 115 intégral argentique (FAIT) USA New Morgan Library Seymour 377 intégral argentique (FAIT) USA New Morgan Library Colt Papyri intégral argentique (FAIT) USA New Morgan Library and Museum Colt Papyri intégral argentique (FAIT) USA New Morgan Library And Museum Colt Papyri intégral argentique (FAIT) USA New Morgan Library Colt Pap. 064 intégral numérique (à faire)	USA New York Morgan Library and Museum 0043 décor numérique (à faire) USA New York Morgan Library and Museum 0638 USA New York Morgan Library and Museum 0739 décor numérique (à faire) USA New York Morgan Library and Museum B. 012 intégral argentique (FAIT) IRHT MF 45505 USA New York Morgan Library and Museum Seymour 115 intégral argentique (FAIT) IRHT MF 65475 USA New York Morgan Library and Museum Seymour 377 intégral argentique (FAIT) IRHT MF 18169 USA New York Morgan Library Census de Seymour 377 intégral argentique (FAIT) IRHT MF 18169 USA New Morgan Library and Museum Colt Papyri intégral argentique (FAIT) IRHT MF 47588 USA New Morgan Library and Museum Colt Papyri intégral argentique (FAIT) IRHT MF 47588 USA New Morgan Library and Museum Colt Papyri intégral numérique (à faire)	USA New York Morgan Library and Museum Port Port Port Port Port Port Port Port	USA New York Morgan Library and Museum 0638 USA New York Morgan Library and Museum 0638 USA New York Morgan Library and Museum 0739 USA New York Morgan Library and Museum 0737 USA New York Morgan Library Census de Seymour 115 USA New York Morgan Library and Museum 0737 USA New York Morgan Library And Museum 0737 USA New York Morgan Library and Museum 0737 USA New Morgan Library Colt. pap. 064 Intégral Intégral Integral In	VISA New York and Museum 0638	New York and Museum Odds Odds Odds Odds Odds Odds Odds Odd



Generic Research Questions

- Trace the history and movement across time and space of a single manuscript
- Trace the history and movement across time and space of a group of manuscripts, selected using one or more of the following criteria:
 - similar place of origin; same current location (place / institution / collection);
 - same language; similar subject; similar text; same period of origin;
 - same current or previous owner(s); same collection at the same time
- For manuscripts of a particular type, or from a particular group:
 - Find the number or proportion which are now in institutional collections;
 - Find the number or proportion which are in private collections;
 - Show how these numbers and proportions changed over time
- Find the connections between specific actors, and also between specific manuscripts or groups of manuscripts



Broader Research Questions

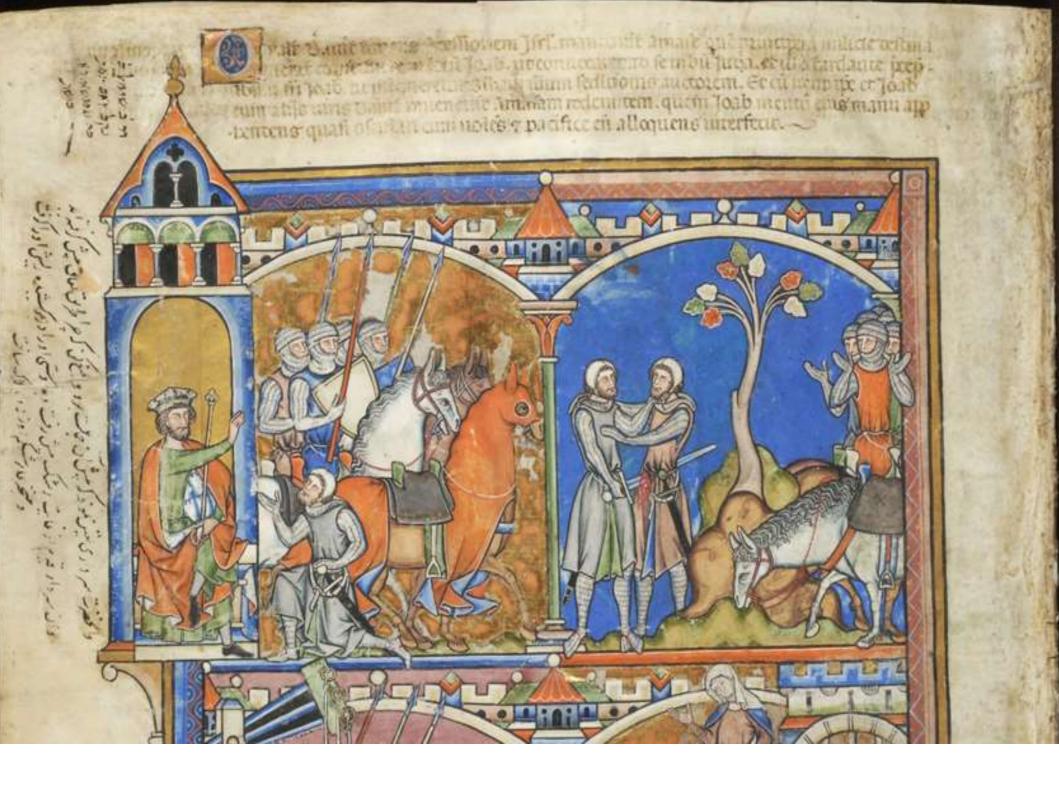
- A general analysis of the history and movement of medieval and Renaissance manuscripts over the centuries, including such questions as: how many manuscripts have survived; where they are now; and which people and institutions have been involved in their history;
- A more specific analysis of the mobility of manuscripts and its traceability, within and from French space, since the Wars of Religion;
- A comparison of the respective significance of institutional and individual manuscript collectors in the 19th and 20th centuries

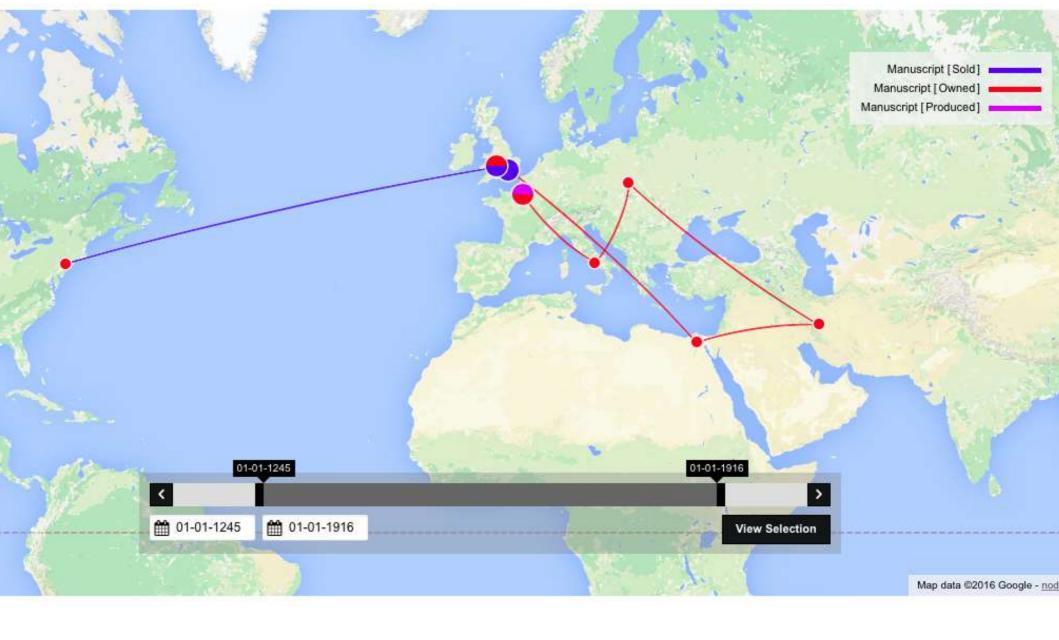


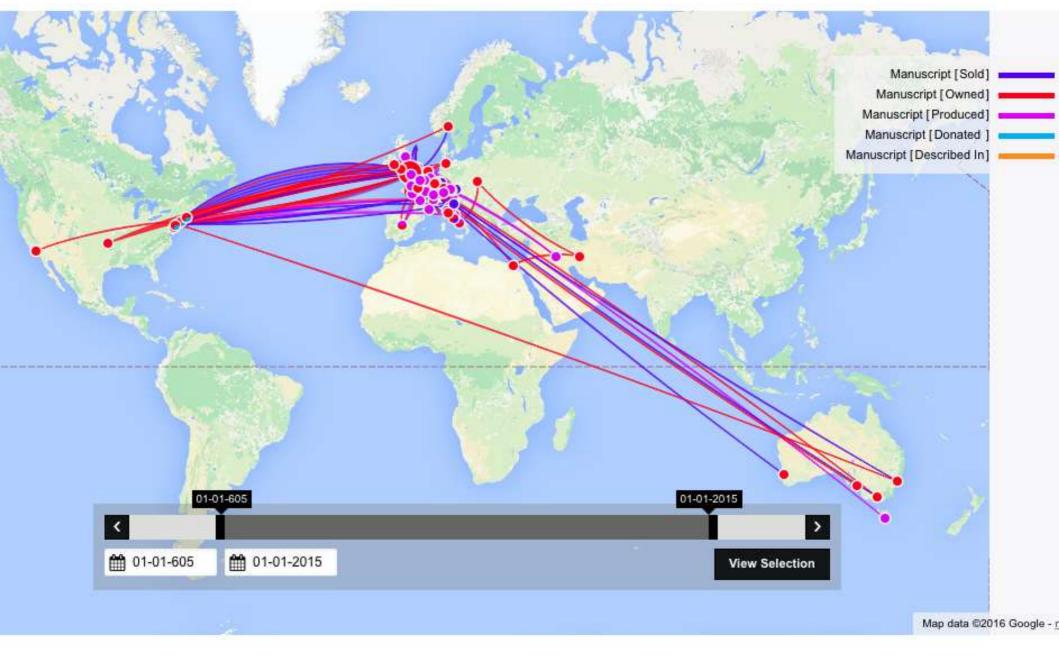
Specific Research Questions

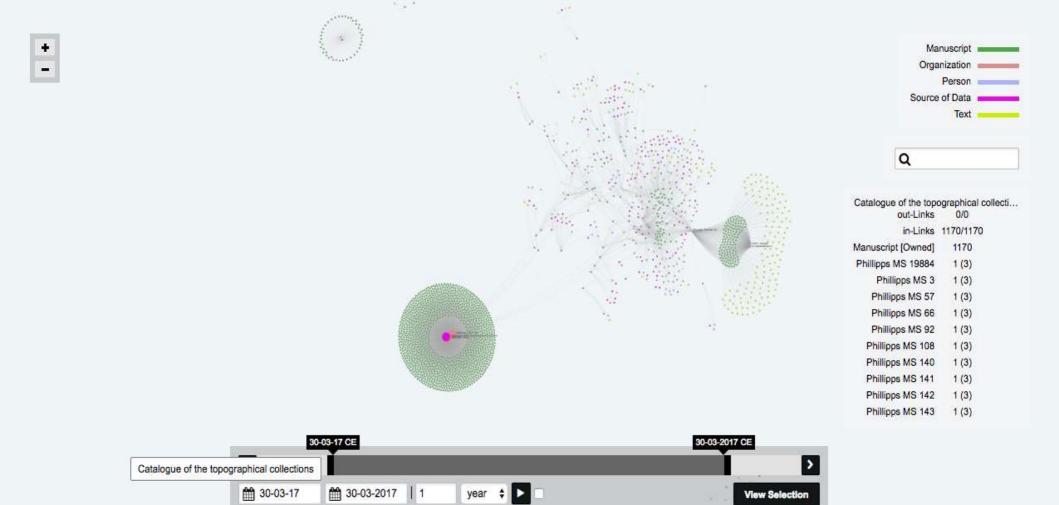
- [A1] How many manuscripts from pre-1600 produced in European countries survive?
- [A2] How many manuscripts survive that contain Spanish texts written in gothic rotunda were produced in Castile for an abbey or convent? Then show me those which were owned during the nineteenth century by English private collectors. Then show me those which are now owned by an institution in North America.
- [A3] What French collectors purchased manuscripts since the end of the Wars of Religion (after 1598)? Where are their manuscripts now?
- [A4] How many manuscripts did French collectors acquire from dissolved English monasteries?
- [A5] How many manuscripts formerly owned by Sir Thomas Phillipps are in British Libraries?
- [B1] How many manuscripts containing texts by Ramon Llul were sold in the 19th century? (Must consider all spelling variations of name)
- [B2] Where are Ramon Llul manuscripts today?











nodegoat

Mapping Manuscript Migrations

More information at:

http://mappingmanuscriptmigrations.org

Twitter: @MSMigrations

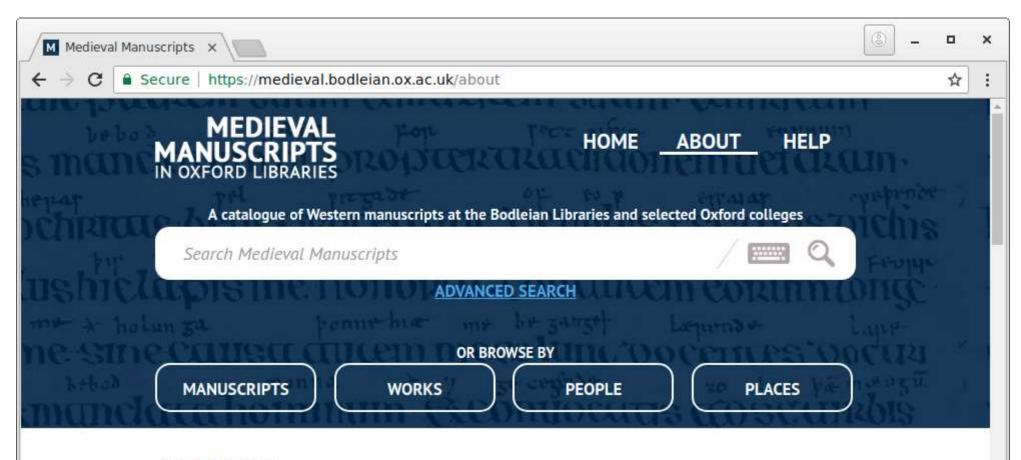
Toby Burrows: toby.burrows@oerc.ox.ac.uk





Trans-Atlantic Platform:

Bodleian MSs catalogues



ABOUT US

Scope

This catalogue provides descriptions of all known Western medieval manuscripts in the Bodleian Library, and of medieval manuscripts in selected Oxford colleges (currently Christ Church). It is the result of a project generously funded by the Tolkien Trust.

"Western" denotes manuscripts written in Latin, Greek, and the European vernaculars (including Slavonic languages). "Medieval" denotes manuscripts written before approximately 1500 and includes papyri from the classical period. The distinction between "medieval" and "renaissance" or "early modern" manuscripts naturally varies according to region and subject-matter and is frequently a matter of judgement. We have aimed towards an inclusive treatment.

Source Data

• TEI P5 XML

- Customized to focus on recording catalogue descriptions of manuscripts
- Still more of a document format than typical for metadata, more like Word than Excel
- GitHub for storage and open access
 - Keeps track of versions
 - Distributed contributors
- Local authority files
 - Controlled vocabulary for names of people, places and titles of works

```
<history>
  <origin resp="#MLH">
     <origDate calendar="Gregorian" notAfter="1175" notBefore="1150">12th century, third
        quarter</origDate>
     <oriqPlace cert="low">
        <country key="place 7002445">English</country>
     </origPlace>
  </origin>
  <orgName key="org 141158386" role="formerOwner" cert="unknown">Abingdon</orgName> by John
     Leland (<title>English Benedictine Libraries: The Shorter Catalogues</title>,
     B3.2)
  museo Thome Keye, Oxon.' (<title>Index Brittanie Scriptorum</title>, pp. 96, and cf. p.
     478): <persName role="formerOwner" key="person_2780">Thomas Kay, master of University
        College Oxford, d. 1572</persName> (Emden, <title>BRUO 1501-1540</title>, pp. 325-6,
     723).
  Thomas Allen, 1542-1632</persName>.
  ovenance notBefore="1621" resp="#Q2">
     Given by Allen to <persName role="formerOwner" key="person 37261411">Sir Robert Cotton,
     1571-1631</persName>, as recorded in the 1621 catalogue of Cotton's library (BL MS Harley
     6018, fol. 131), where this is no. 359: cf. '359' (fol. 1, cropped).
  rovenance resp="#Q2">
     <persName role="formerOwner" key="person 49357645">Kenelm Digby, 1603-1665</persName>
  <acquisition when="1634" resp="#Q2">Presented by him to the Bodleian in 1634.</acquisition>
</history>
```

XQuery

- Used to transform documents into single XML file
- Conform to a structured list of metadata fields, ready for mapping to target ontologies in 3M
- Reference local authority files
- Normalize some data (e.g. languages)
- Build URIs

```
declare namespace tei="http://www.tei-c.org/ns/1.0";
    declare option saxon:output "indent=yes";
    declare variable $website := 'https://medieval.bodleian.ox.ac.uk';
    declare function local:logging($level as xs:string, $msq as xs:string, $values)
 7 ▶ { [3 lines]
 12 declare function local:languageCodeLookup($lang as xs:string) as xs:string*
 13 ▶ { [73 lines]
    declare function local:dateConversion($datestring as xs:string, $begin as xs:boolean) as xs:dateTime*
 89 ▶ { [32 lines]
122
123 | declare function local:listItems($manuscript as element(tei:TEI), $mscontent as element(tei:msContents)) as element()*
124 ▶ { [47 lines]
172
173 declare function local:extractPhysicalFields($physdesc as element(tei:physDesc)?) as element()*
174 ▶ { [70 lines]
245
246 declare function local:extractDates($history as element(tei:history)?) as element()*
247 ▶ { [59 lines]
307
    declare function local:listPlacesOrgsPeople($container as element()) as element()*
309 ▶ { [47 lines]
357
    declare function local:listProvenances($msorpart as element()) as element()*
359 ▶ { [41 lines]
401
    processing-instruction xml-model {'href="simplified40xlod.xsd" type="application/xml" schamtypens="http://www.w3.org/2001/XMLSchema"'},
403 ▽ <manuscripts>
404 ▽
         for $manuscript at $pos in collection('.../../collections/?select=*.xml; recurse=yes')/tei:TEI
405
406
             return if (true()) then
407
             (: To process everything, change above line to: return if (true()) then :)
408
             (: To get a small random-ish sample, use: return if ($pos mod 200 = 0) then :)
409
410
                <manuscript>
411 ▽
412
                    <uri>{ $website }/catalog/{ $manuscript/@xml:id/data() }</uri>
413
                    <classmark>{ $manuscript/tei:teiHeader/tei:fileDesc/tei:sourceDesc/tei:msDesc/tei:msIdentifier/tei:idno[1]/text() }</classmark>
414
                    <collection>{ $manuscript/tei:teiHeader/tei:fileDesc/tei:titleStmt/tei:title[@type="collection"]/text() }</collection>
415
                    <repository>{ $manuscript/tei:teiHeader/tei:fileDesc/tei:sourceDesc/tei:msDesc/tei:msIdentifier/tei:repository/text() }/repository>
416
                    <institution>{ $manuscript/tei:teiHeader/tei:fileDesc/tei:sourceDesc/tei:msIdentifier/tei:institution/text() }</institution>
417
418
419 ▽
                    (: All manuscripts have at least one msContents element, but in multi-part manuscripts each is a child of an msPart :)
420
                    for $mscontent in $manuscript//tei:msContents
421
                        return
422
423
                        if ($mscontent/parent::tei:msPart) then
424
                            let $partid :=
                                if ($mscontent/parent::tei:msPart/@xml:id) then
425
                                    $mscontent/parent::tei:msPart/@xml:id/data()
426
427
                                else
```

```
<date context="origin">
   <from>1150-01-01T00:00:00</from>
   <to>1175-12-31T23:59:59</to>
</date>
<place context="origin">
   <uri>https://medieval.bodleian.ox.ac.uk/catalog/place_7002445</uri>
   <label>English</label>
</place>
<org cert="unknown">
      <uri>https://medieval.bodleian.ox.ac.uk/catalog/org 141158386</uri>
      <label>Abingdon</label>
      <role>formerOwner</role>
   </ora>
ovenance xml:id="manuscript 4436 prov3">
   <date><to>1572-12-31T23:59:59</to></date>
   <person>
       <uri>https://medieval.bodleian.ox.ac.uk/catalog/person 2780</uri>
      <label>Thomas Kay, master of University College Oxford, d. 1572</label>
      <role>formerOwner</role>
   </person>
<date><to>1621-12-31T23:59:59</to></date>
   <person>
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Mapping MMM data with 3M

Mapping MMM data with 3M





MMM integration tasks

- Across project partners
- Within Bodleian
 - Main MS TEI files
 - Works TEI file
 - Places authority
 - People authority

Mapping to CRM and FRBRoo

- Bodleian work (TEI bibl)
 - F1 Work → Concept in one's mind

F1 Work

This class comprises distinct concepts or combinations of concepts identified in artistic and intellectual expressions, such as poems, stories or musical compositions. Such concepts may appear in the course of the coherent evolution of an original idea into one or more expressions that are dominated by the original idea. A Work may be elaborated by one or more Actors simultaneously or over time. The substance of Work is ideas. A Work may have members that are works

Mapping to CRM and FRBRoo

- Bodleian work (TEI bibl)
 - F1 Work → Concept in one's mind
- TEI msltem
 - F22 Self-Contained Expression → Symbols (i.e. the same set of symbols on different carriers is the same expression)

F22 Self-Contained Expression

This class comprises the immaterial realisations of individual works at a particular time that are regarded as a complete whole. The quality of wholeness reflects the intention of its creator that this expression should convey the concept of the work. Such a whole can in turn be part of a larger whole.

Inherent to the notion of work is the completion of recognisable outcomes of the work. These outcomes, i.e. the Self-Contained Expressions, are regarded as the symbolic equivalents

- Bodleian work (TEI bibl)
 - F1 Work → Concept in one's mind
- TEI msltem
 - F22 Self-Contained Expression → Symbols (i.e. the same set of symbols on different carriers is the same expression)
- TEI msDesc
 - E24 Physical Man-Made Thing, F4 Manifestation
 Singleton → Physical (i.e. the book on the shelf)

F4 Manifestation Singleton

This class comprises physical objects that each carry an instance of F2 Expression, and that were produced as unique objects, with no siblings intended in the course of their production. It should be noted that if all but one copy of a given publication are destroyed, then that copy does not become an instance of F4 Manifestation Singleton, because it was produced together with sibling copies, even though it now happens to be unique. Examples of instances of F4 Manifestation Singleton include

- Bodleian work (TEI bibl)
 - F1 Work → Concept in one's mind
- TEI msltem
 - F22 Self-Contained Expression → Symbols (i.e. the same set of symbols on different carriers is the same expression)

R3 is realised in

R42 is representative

manifestation singleton for

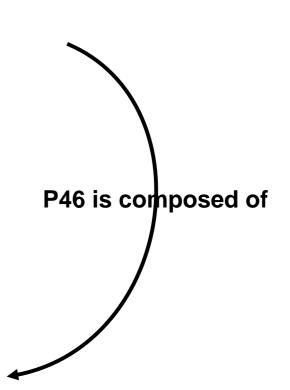
TEI msDesc

E24 Physical Man-Made Thing, F4 Manifestation
 Singleton → Physical (i.e. the book on the shelf)

- composite manuscript (with parts)
 - E24 Physical Man-Made Thing
- manuscript (without parts)
 - E24 Physical Man-Made Thing
 - F4 Manifestation Singleton

- composite manuscript (with parts)
 - E24 Physical Man-Made Thing
- manuscript (without parts)
 - E24 Physical Man-Made Thing
 - F4 Manifestation Singleton
- part
 - E24 Physical Man-Made Thing
 - F4 Manifestation Singleton

- composite manuscript (with parts)
 - E24 Physical Man-Made Thing
- manuscript (without parts)
 - E24 Physical Man-Made Thing
 - F4 Manifestation Singleton
- part
 - E24 Physical Man-Made Thing
 - F4 Manifestation Singleton





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7	D		//provenance		E5_Event
7.1	Р	+	org	ļ.	P11_had_participant
	R		org		E74_Group
	Р	†	person	†	P11_had_participant
7.2	R		person		E21_Person F10_Person
	Р	Ţ	place	†	P7_took_place_at
7.3	R		place		E53_Place F9_Place
7.4	Р	ţ	date/from	—	P4_has_time-span E52_Time-Span (ets) P82a_begin_of_the_begin
	R		date/from		XMLSchema#dateTime
7.5	Р	ļ	date/to	+	P4_has_time-span E52_Time-Span (M) [ets] P82b_end_of_the_end
	R		date/to		XMLSchema#dateTime
7.6	Р	+	text	Ţ	P3_has_note
	R		text		rdf-schema#Literal

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Egypassion of Vederlations circs septem Palmos perniteralate' @en [122_Self-Contained, Expression O]			
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Dimension for MS, Lat, th. 20gen [ES, Dimension O] P2, has, spe min width last/eme [ES, Type O] P9, bas, suble 90,000 PP1, bas, unit minifered [ES, Measurement, Unit O] Dimension for MS, Lat, th. 20gen [ES, Dimension O] Dimension for MS, Lat, th. 1, 20gen [ES, Dimension O] P1, bas, protection of WS, Lat, th. 1, 20gen [ES, Dimension O] P1, bas, protection of WS, Lat, th. 1, 20gen [ES, Event ©] P1, bas, protection of WS, Lat, th. 1, 20gen [ES, Event ©] P1, bas, protection of WS, Lat, th. 1, 20gen [ES, Event ©] P1, bas, protection of WS, Lat, th. 1, 20gen [ES, Event ©] P7, bas, protection of WS, Lat, th. 20gen [ES, Event ©] P8, bas, former, or, current, cumor Labin Transfer moderationed [ES, Event ©] William Generowell count of ES, Lat, th. 20gen [ES, Event ©] William Generowell count of ES, Lat, th. 20gen [ES, Event ©] William Generowell count of ES, Lat, th. 20gen [ES, Event ©] William Generowell count of ES, Lat, th. 20gen [ES, Event ©] William Generowell count of ES, Lat, th. 20gen [ES, Event ©] William Generowell count of ES, Lat, th. 20gen [ES, Event ©] William Generowell count of ES, Lat, th. 20gen [ES, Event ©] P92, bas, current, counter William Generowell count of ES, Lat, th. 20gen [ES, Event ©] P92, custorly, renoved by William Generowell count of ES, Lat, th. 20gen [ES, Event ©] P92, custorly, renoved by P92, bas, protected, dentifier BS, Lat, th. 20gen [ES, Jenes ©] P93, bas, protected, dentifier BS, Lat, th. 1, 20gen [ES, Jenes ©] P94, bas, protected, dentifier P94, bas, protected, dentifier P94, bas, protected, dentifier P95, bas, protected, dentifier P96, protected, dentifier P97, protected, dentifier P98, bas, protected, dentifier P98, protected, dentifier P98, protected, dentifier P98, bas, protected, dentifier P98, protected, dentifier P98, protected, dentifier P98, protected, dentifier P99, protected, dentifier P99, protected, dentifier P99, protected, dentifier P99, prote		expand list (4 entries)	
P2, bas, type min width leaf@en [555, Type O] P90, bas, value 90@en P91, bas, unit min@en [555, Measurement, Unit O] Dimension for MS, Lat, th. £ 20@en [£54, Dimension O] pimension for MS, Lat, th. £ 20@en [£54, Dimension O] pimension for MS, Lat, th. £ 20@en [£54, Dimension O] pyll, bas, present_at P121, var_present_at Prevenance event of MS, Lat, th. £ 20@en [£5, Event_O] P12, bas, note Syan monastery identifiable by content and 20 fo. with MS, M 95 in the 16th cent. catalogue@en P11, bad_participant Syon monastery identifiable by content and 20 fo. with MS, M 95 in the 16th cent. catalogue@en P11, bad_participant Syon monastery identifiable by content and 20 fo. with MS, M 95 in the 16th cent. catalogue@en P11, bad_participant Syon monastery identifiable by content and 20 fo. with MS, M 95 in the 16th cent. catalogue@en P11, bad_participant Syon monastery identifiable by content and 20 fo. with MS, M 95 in the 16th cent. catalogue@en P11, bad_participant Syon monastery identifiable by content and 20 fo. with MS, M 95 in the 16th cent. catalogue@en P1, bas, former_oc_current_oc	P43_has_dimension	on .	
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P90_has_unia P90_has_unia Immeria [E56_Measurement_Unit O]	P2_has_		
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milled [59, Measurement, Unit O]	DOI have		
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Expand list (8 entics)			+
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P51_has_former_or_current_owner			+
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William Greenwell@und [E21_Person, F10_Person 2] William Greenwell@und [E21_Person, F10_Person 0] epand list (entries) ▼ P52_has_current_owner University of Oxford@en [F44_Bibliographic_Agency 0] P30[_custody_transferred_through Transfer of custody of MS_ Lat. th. £20@en [E10_Transfer_of_Custody 0]			
Wilfred Merton@und [E21_Person, F10_Person O] expand list (4entries) ▼ P52_has_current_owner University of Oxford@en [F44_Bibliographic_Agency O] P30i_custody_transferred_through Transfer of custody of Ms. Lat. th. £20@en [E10_Transfer_of_Custody O]			
expand list (4 entries) ▼ P52_has_current_owner University of Oxford@en [F44_Bibliographic Agency O] P30_custody_transferred_through Tansfer of custody of MS_Lat. th. £ 20@en [E10_Transfer_of_Custody O] P29_custody_received_by University of Oxford@en P128_carries Inscription of MS_Lat. th. £ 20@en [E34_Inscription			
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'J. Raine, York, Jan. 1862'@en P48_has_preferred_identifier MS. Lat. th. f. 20@und [F13_Identifier, E42_Identifier O] P108i_was_produced_by Production of MS. Lat. th. f. 20@en [E12_Production o]] - P4_has_time-span Time-span of production of MS. Lat. th. f. 20@en [E52_Time-Span O]] - P82a_begin_of_the_begin 1400-01-01700:00:00@en P82b_end_of_the_end 1410-12-31T23:59:59@en P7_took_place_at English@en [F9_Place, E53_Place ♥] P46i_forms_part_of MSS. Lat. th. (Latin theology)@und [E78_Collection ♥] - P46i_forms_part_of Bodleian Library@en [E78_Collection ♥]		J. Raine@und [F10_Person, E21_Person 🚣]	
P48_has_preferred_identifier MS. Lat. th. f. 20@und [F13_Identifier, E42_Identifier O] P108i_was_produced_by Production of MS. Lat. th. f. 20@en [E12_Production o]	P3_has_	note	
MS. Lat. th. f. 20@und [F13_Identifier, E42_Identifier O] P108i_was_produced_by Production of MS. Lat. th. f. 20@en [E12_Production o]		' J. Raine , York, Jan. 1862'@en	
MS. Lat. th. f. 20@und [F13_Identifier, E42_Identifier O] P108i_was_produced_by Production of MS. Lat. th. f. 20@en [E12_Production ○]	P48_has_preferred	d_identifier	
Production of MS. Lat. th. f. 20@en [E12_Production •] P4_has_time-span Time-span of production of MS. Lat. th. f. 20@en [E52_Time-Span O] P82a_begin_of_the_begin 1400-01-01T000:00:00@en P82b_end_of_the_end 1410-12-31T23:59:59@en P7_took_place_at English@en [F9_Place, E53_Place ♥] P46i_forms_part_of MSS. Lat. th. (Latin theology)@und [E78_Collection ♥] P46i_forms_part_of Bodleian Library@en [E78_Collection ♥]			
Production of MS. Lat. th. f. 20@en [E12_Production •] P4_has_time-span Time-span of production of MS. Lat. th. f. 20@en [E52_Time-Span O] P82a_begin_of_the_begin 1400-01-01T000:00:00@en P82b_end_of_the_end 1410-12-31T23:59:59@en P7_took_place_at English@en [F9_Place, E53_Place ♥] P46i_forms_part_of MSS. Lat. th. (Latin theology)@und [E78_Collection ♥] P46i_forms_part_of Bodleian Library@en [E78_Collection ♥]	P108i_was_produc	ced_by	
Time-span of production of MS. Lat. th. f. 20@en [E52_Time-Span O]	Production	on of MS. Lat. th. f. 20@en [E12_Production •]	-
P82a_begin_of_the_begin	P4_has_		
1400-01-01T00:00:00@en P82b_end_of_the_end 1410-12-31T23:59:59@en P7_took_place_at English@en [F9_Place, E53_Place ♥] P46i_forms_part_of MSS. Lat. th. (Latin theology)@und [E78_Collection ♥] P46i_forms_part_of Bodleian Library@en [E78_Collection ♥]			-
P82b_end_of_the_end 1410-12-31T23:59:59@en P7_took_place_at			
P7_took_place_at English@en [F9_Place, E53_Place ♥] P46i_forms_part_of MSS. Lat. th. (Latin theology)@und [E78_Collection ♥] P46i_forms_part_of Bodleian Library@en [E78_Collection ♥]			
P7_took_place_at			
English@en [F9_Place, E53_Place ♥] P46i_forms_part_of MSS. Lat. th. (Latin theology)@und [E78_Collection ♥] P46i_forms_part_of Bodleian Library@en [E78_Collection ♥]			
P46i_forms_part_of MSS. Lat. th. (Latin theology)@und [E78_Collection *] P46i_forms_part_of Bodleian Library@en [E78_Collection *] P45_consists_of	P/_tool		
MSS. Lat. th. (Latin theology)@und [E78_Collection *] P46i_forms_part_of Bodleian Library@en [E78_Collection *] P45_consists_of		0	
P46i_forms_part_of Bodleian Library@en [E78_Collection *] P45_consists_of			
Bodleian Library@en [E78_Collection *] P45_consists_of			-
P45_consists_of	P40I_T01		
	D45 11 1	,	
		nt@en [E57 Material O]	

```
MS. Lat. th. f. 20@en [ F4_Manifestation_Singleton O ]
R42 is representative manifestation_singleton_for
         Expression of 'MS. Lat. th. f. 20'@en [ F22_Self-Contained_Expression O ]
          R5 has component
                   Expression of 'Litany of the saints, Use of Sarum'@en [F22_Self-Contained_Expression O]
                    R3i realises
                            Litany of the saints, Use of Sarum@und [F1_Work O]
                   Expression of 'Prayers for use before and after Mass'@en [F22 Self-Contained Expression O]
                   Expression of 'Meditationes circa septem Psalmos paenitentiales'@en [F22 Self-Contained Expression O]
                  expand list (4 entries) -
P43 has dimension
         Dimension for MS. Lat. th. f. 20@en [ E54 Dimension O ]
          P2 has type
                   min width leaf@en [ E55_Type O ]
          P90_has_value
                   90@en
          P91_has_unit
                   mm@en [ E58_Measurement_Unit O ]
         Dimension for MS. Lat. th. f. 20@en [ E54_Dimension O ]
         Dimension for MS. Lat. th. f. 20@en [ E54 Dimension O ]
        expand list (8 entries) -
 P12i_was_present_at
                                                                                                             general classes and properties
         Provenance event of MS. Lat. th. f. 20@en [ E5_Event • ]
                                                                                                                    cannot identify seller/buyer
          P3_has_note
                   Syon monastery: identifiable by content and 20 fo. with MS. M 95 in the 16th cent. catalogue@en
          P11_had_participant
                   Syon monastery@und
         Provenance event of MS. Lat. th. f. 20@en [ E5_Event •• ]
         Provenance event of MS. Lat. th. f. 20@en [ E5_Event • ]
        expand list (6 entries) -
 P51_has_former_or_current_owner
         John Trotter Brockett@und [F10 Person, E21 Person 1
         William Greenwell@und [ E21_Person, F10_Person 1 ]
         Wilfred Merton@und [ E21_Person, F10_Person O ]
         expand list (4 entries) *
```

```
P51_has_former_or_current_owner
        John Trotter Brockett@und [F10_Person, E21_Person 🚣]
        William Greenwell@und [ E21_Person, F10_Person 1 ]
        Wilfred Merton@und [ E21_Person, F10_Person O ]
       expand list (4 entries) -
P52_has_current_owner
       University of Oxford@en [ F44_Bibliographic_Agency O ]
P30i_custody_transferred_through
        Transfer of custody of MS. Lat. th. f. 20@en [ E10_Transfer_of_Custody O ]
         P29_custody_received_by
                 University of Oxford@en
P128_carries
                                                                                                          we separate evidence on text
       Inscription of MS. Lat. th. f. 20@en [ E34_Inscription -
                                                                                                         from Bodleian knowledge, i.e.
         P67_refers_to
                                                                                                     inscriptions require interpretation
                 J. Raine@und [F10 Person, E21 Person L]
         P3_has_note
                 ' J. Raine, York, Jan. 1862'@en
P48_has_preferred_identifier
        MS. Lat. th. f. 20@und [F13_Identifier, E42_Identifier O]
P108i_was_produced_by
        Production of MS. Lat. th. f. 20@en [E12_Production • ]
         P4_has_time-span
                 Time-span of production of MS. Lat. th. f. 20@en [ E52_Time-Span O ]
                  P82a_begin_of_the_begin
                          1400-01-01T00:00:00@en
                  P82b_end_of_the_end
                          1410-12-31T23:59:59@en
         P7_took_place_at
                 English@en [ F9_Place, E53_Place • ]
P46i forms part of
        MSS. Lat. th. (Latin theology)@und [ E78_Collection * ]
         P46i_forms_part_of
                 Bodleian Library@en [ E78_Collection * ]
P45 consists of
        Parchment@en [ E57_Material O ]
```

[A1] How many manuscripts from 1550-1600 produced in European countries survive?

[A1] How many manuscripts from 1550-1600 produced in European countries survive?

Manuscripts produced between 1550-1600

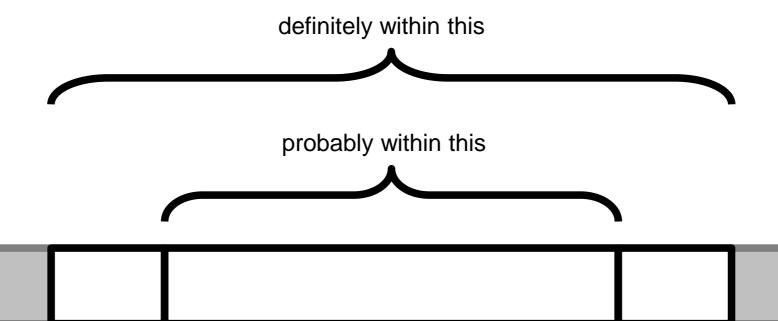
```
SELECT DISTINCT ?msl ?tse {
   ?ms crm:P108i_was_produced_by ?p . #MSs with production events
   ?ms rdfs:label ?msl . #get the MSs labels
   ?p crm:P4_has_time-span ?ts . #productions with period
   ?ts crm:P82a_begin_of_the_begin ?tsb . #begining of the period
   ?ts crm:P82b_end_of_the_end ?tse . #end of the period
   FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
   FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
} LIMIT 1000</pre>
```

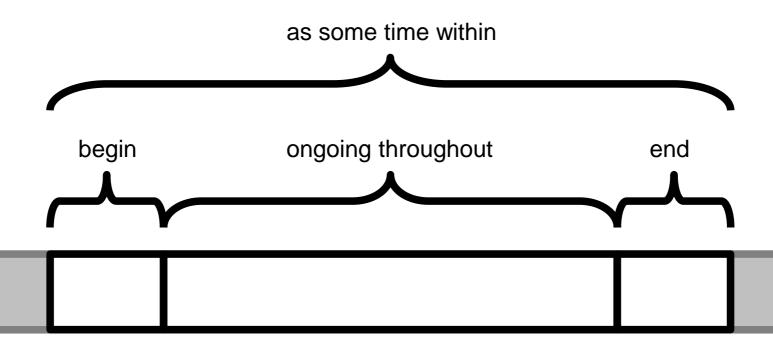
past time in history

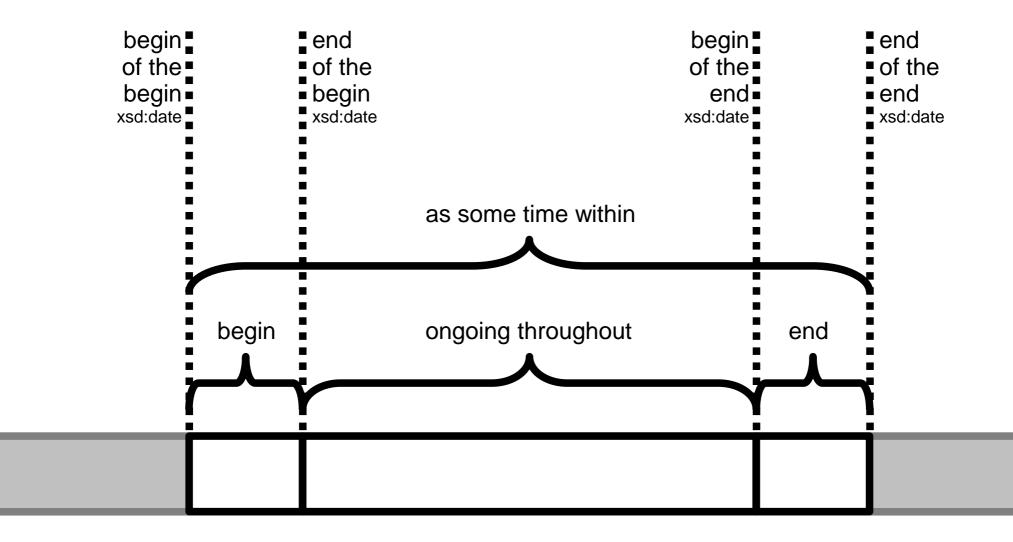


Manuscripts produced between 1550-1600

```
SELECT DISTINCT ?msl ?tse {
   ?ms crm:P108i_was_produced_by ?p . #MSs with production events
   ?ms rdfs:label ?msl . #get the MSs labels
   ?p crm:P4_has_time-span ?ts . #productions with period
   ?ts crm:P82a_begin_of_the_begin ?tsb . #begining of the period
   ?ts crm:P82b_end_of_the_end ?tse . #end of the period
   FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
   FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
} LIMIT 1000</pre>
```







Manuscripts produced between 1550-1600

```
SELECT DISTINCT ?msl ?tse {
   ?ms crm:P108i_was_produced_by ?p . #MSs with production events
   ?ms rdfs:label ?msl . #get the MSs labels
   ?p crm:P4_has_time-span ?ts . #productions with period
   ?ts crm:P82a_begin_of_the_begin ?tsb . #begining of the period
   ?ts crm:P82b_end_of_the_end ?tse . #end of the period
   FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
   FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
} LIMIT 1000</pre>
```

Manuscripts produced between 1550-1600

```
SELECT DISTINCT ?msl ?tse {
   ?ms crm:P108i_was_produced_by ?p . #MSs with production events
   ?ms rdfs:label ?msl . #get the MSs labels
   ?p crm:P4_has_time-span ?ts . #productions with period
   ?ts crm:P82a_begin_of_the_begin ?tsb . #begining of the period
   ?ts crm:P82b_end_of_the_end ?tse . #end of the period
   FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
   FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
} LIMIT 1000</pre>
```

msl	tse	msl	tse
MS. Add. D. 43	1553-12- 31T23:59:59	MS. Douce d. 11	1578-12- 31T23:59:59
MS. Digby 71 - Part 2	1557-12- 31T23:59:59	MS. Eng. poet. b. 1	1556-12- 31T23:59:59
MS. Barocci 189 - Part 1	1598-12- 31T23:59:59	MS. Ashmole 812	1560-12- 31T23:59:59
MS. Barocci 36	1565-12- 31T23:59:59	MS. Cherry 30	1587-12- 31T23:59:59
Christ Church MS. 150	1580-12- 31T23:59:59	MS. Ashmole 820 - Part 1	1560-12- 31T23:59:59
MS. Auct. F. 6. 6	1580-12- 31T23:59:59	Christ Church MS. 125	1587-12- 31T23:59:59
MS. Add. D. 83	1565-12- 31T23:59:59	Christ Church MS. 180	1599-12- 31T23:59:59
MS. Eng. poet. e. 59	1556-12- 31T23:59:59	Christ Church MS. 456	1595-12- 31T23:59:59
MS. Laud Misc. 710	1552-12- 31T23:59:59	Christ Church MS. 486	1583-12- 31T23:59:59
MS. Laud Misc. 711	1564-12- 31T23:59:59	Christ Church MS. 578	1576-12- 31T23:59:59
MS. Laud Misc. 713	1572-12- 31T23:59:59	MS. Add. A. 189	1573-12- 31T23:59:59
MS. Auct. T. 2. 12	1573-12- 31T23:59:59	MS. Douce 387	1595-12- 31T23:59:59
MS. Add. E. 3 (R)	1553-12- 31T23:59:59	MS. Douce 69	1553-12- 31T23:59:59
MS. Selden Supra 68	1563-12- 31T23:59:59	MS. Douce b. 5 - Part 10	1590-12- 31T23:59:59
MS. Span. c. 18	1570-12- 31T23:59:59	MS. Auct. E. 2. 7	1564-12- 31T23:59:59
MS. Bodl. 431	1555-12- 31T23:59:59	MS. Douce 225 - Part 1	1570-12- 31T23:59:59
MS. Barocci 33	1595-12- 31T23:59:59	MS. Bywater 37, fols. 118-175	1575-12- 31T23:59:59
MS. Barocci 40	1572-12- 31T23:59:59	MS. Barocci 170	1577-12- 31T23:59:59
MS. Barocci 42	1551-12- 31T23:59:59	MS. Barocci 176	1562-12- 31T23:59:59
MS. Add. A. 288	1578-12- 31T23:59:59	MS. Add. D. 42	1580-12- 31T23:59:59
MS. Arch. Selden. A. 2	1560-12- 31T23:59:59	MS. Bodl. 972	1554-12- 31T23:59:59
MS. Canon. Ital. 143	1559-12- 31T23:59:59	MS. Canon. Ital. 142	1553-12- 31T23:59:59
MS. Ashmole 1481 - Part 6	1565-12- 31T23:59:59	MS. Auct. E. 2. 21	1568-12- 31T23:59:59
MS. Canon. Ital. 274 - Part 2	1591-12- 31T23:59:59	MS. Laud Misc. 714	1576-12- 31T23:59:59
MS. Rawl. D. 649	1595-12- 31T23:59:59	MS. Laud Misc. 715	1578-12- 31T23:59:59
MS. Ashmole 1119	1552-12- 31T23:59:59	MS. Canon. Ital. 58	1566-12- 31T23:59:59
MS. Dugdale 44	1556-12- 31T23:59:59	MS. Ashmole 771	1593-12- 31T23:59:59
NO D 000	1500 10	MO A L L 770	1550.10

- Presentation about time relations, including Allen relations (Martin Doerr)
 - http://www.cidoc-crm.org/sites/default/files/EMF2015-TemporalPrimitives3_0.pptx

Relation	Illustration	Interpretation
X < Y $Y > X$		X takes place before Y
$X \mathbf{m} Y$ $Y \mathbf{mi} X$		X meets Y (i stands for inverse)
X o YY oi X		X overlaps with Y
X s YY si X		X starts Y
$X \operatorname{\mathbf{d}} Y$ $Y \operatorname{\mathbf{di}} X$	X 	X during Y
X f YY f i X	X 	X finishes Y
X = Y	X 	X is equal to Y

- Presentation about time relations, including Allen relations (Martin Doerr)
 - http://www.cidoc-crm.org/sites/default/files/EMF2015-TemporalPrimitives3_0.pptx
- Paper on fuzziness of time (Christian Emil Ore)
 - http://www.cidoc-crm.org/sites/default/files/Documents/some%20time%20notes%28byCEO%29.docx
 - https://proceedings.caaconference.org/paper/17_holmen_ore_caa2009/

[A1] How many manuscripts from 1550-1600 produced in **European countries** survive?



Continent of a TGN place

S	Sit	0	OIL
http://vocab.getty.edu/tgn/7024699	Aa	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/7016532	Adriatic Sea	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/7011488	Adygeya	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/1120767	Águeda, Río	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/1108688	Albères, Monts	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/7443560	Alina, Lough	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/1121089	Alcarrache, Río	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/6000160	Alemannia	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/7007847	Alpes Cottiennes	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/7007763	Alpes Grées	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/1109327	Alpes Maritimes	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/7015600	Alpi Aurine	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/7007746	Alps	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/7024265	Alsace	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/7002851	Alsace-Lorraine	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/1121154	Alzette	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/4000818	Arkhangel'skaya Oblast'	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/7024275	Andalucía	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/1000061	Andorra	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/7013200	Baltic Sea	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/8711728	Angevin Empire	http://vocab.getty.edu/tgn/1000003	Europe
http://vocab.getty.edu/tgn/7015933 #place is nas mulliple p	Aóös Potamós artitive proauer p	http://vocab.getty.edu/tgn/1000003	Europe

```
SELECT ?s ?slt ?o ?olt {
  ?s qvp:broaderPartitive+ ?o . #place ?s has multiple partitive broader parents
  ?s gvp:prefLabelGVP ?sl . #label for place ?s
  ?sl gvp:term ?slt . #value of label of ?s
  ?o gvp:placeTypePreferred <a href="http://vocab.getty.edu/aat/300128176">http://vocab.getty.edu/aat/300128176</a> . #?o needs to be a continent
  ?o gvp:prefLabelGVP ?ol . #label for continent ?o
  Pol gvp:term ?olt . #value for label of ?o
  s skos:inScheme <a href="http://vocab.getty.edu/tgn/">http://vocab.getty.edu/tgn/">#get ?s from the TGN thesaurus
} IMIT 100
                               SELECT DISTINCT ?msl ?tse {
                                 ?ms crm:P108i was produced by ?p . #MSs with production events
                                 ?ms rdfs:label ?msl . #get the MSs labels
                                 ?p crm:P4 has time-span ?ts . #productions with period
                                 ?ts crm:P82a begin of the begin ?tsb . #begining of the period
                                 ?ts crm:P82b end of the end ?tse . #end of the period
                                 FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
                                 FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
                               } LIMIT 1000
         SELECT DISTINCT ?msl ?tse ?s ?olt {
            ?ms crm:P108i was produced by ?p . #MSs with production events
            ?ms rdfs:label ?msl . #get the MSs labels
            ?p crm:P4 has time-span ?ts . #productions with period
            ?ts crm:P82a begin of the begin ?tsb . #begining of the period
            ?ts crm:P82b end of the end ?tse . #end of the period
           FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
            FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
            ?p crm:P7 took place at ?place . #production events at a place
            ?place owl:sameAs ?s . #only reconciliated places
            SERVICE <http://vocab.getty.edu/sparql> {
              ?s qvp:broaderPartitive+ ?o . #place ?s has multiple partitive broader parents
              ?s gvp:prefLabelGVP ?sl . #label for place ?s
              ?sl gvp:term ?slt . #value of label of ?s
              ?o gvp:placeTypePreferred <a href="http://vocab.getty.edu/aat/300128176">http://vocab.getty.edu/aat/300128176</a>> . #?o needs to be a continent
              ?o gvp:prefLabelGVP ?ol . #label for continent ?o
              ?ol gvp:term ?olt . #value for label of ?o
              ?s skos:inScheme <a href="http://vocab.getty.edu/tgn/">http://vocab.getty.edu/tgn/> #get ?s from the TGN thesaurus
          } LIMIT 1000
```

```
SELECT ?s ?slt ?o ?olt {
  ?s qvp:broaderPartitive+ ?o . #place ?s has multiple partitive broader parents
  ?s gvp:prefLabelGVP ?sl . #label for place ?s
  ?sl gvp:term ?slt . #value of label of ?s
  ?o gvp:placeTypePreferred <a href="http://vocab.getty.edu/aat/300128176">http://vocab.getty.edu/aat/300128176</a> . #?o needs to be a continent
  ?o gvp:prefLabelGVP ?ol . #label for continent ?o
  ol gvp:term ?olt . #value for label of ?o
  s skos:inScheme <http://vocab.getty.edu/tgn/> #get ?s from the TGN thesaurus
} IMIT 100
                              SELECT DISTINCT ?msl ?tse {
                                ?ms crm:P108i was produced by ?p . #MSs with production events
                                ?ms rdfs:label ?msl . #get the MSs labels
                                ?p crm:P4 has time-span ?ts . #productions with period
                                ?ts crm:P82a begin of the begin ?tsb . #begining of the period
                                ?ts crm:P82b end of the end ?tse . #end of the period
                               FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
                               FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
                              } LIMIT 1000
         SELECT DISTINCT ?msl ?tse ?s ?olt {
           ?ms crm:P108i was produced by ?p . #MSs with production events
           ?ms rdfs:label ?msl . #get the MSs labels
           ?p crm:P4 has time-span ?ts . #productions with period
           ?ts crm:P82a begin of the begin ?tsb . #begining of the period
           ?ts crm:P82b end of the end ?tse . #end of the period
           FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
           FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
           ?p crm:P7 took place at ?place . #production events at a place
           ?place owl:sameAs ?s . #only reconciliated places
           SERVICE <http://vocab.getty.edu/sparql> {
             ?s qvp:broaderPartitive+ ?o . #place ?s has multiple partitive broader parents
             ?s gvp:prefLabelGVP ?sl . #label for place ?s
             ?sl gvp:term ?slt . #value of label of ?s
             ?o qvp:placeTypePreferred <http://vocab.getty.edu/aat/300128176> . #?o needs to be a continent
             ?o gvp:prefLabelGVP ?ol . #label for continent ?o
             ?ol gvp:term ?olt . #value for label of ?o
             ?s skos:inScheme <a href="http://vocab.getty.edu/tgn/">http://vocab.getty.edu/tgn/> #get ?s from the TGN thesaurus
         } LIMIT 1000
```

```
[~]$ wget http://placenames.org.uk/id/placename/78/013606
--2018-06-11 11:31:46--
http://placenames.org.uk/id/placename/78/013606
Resolving placenames.org.uk (placenames.org.uk)... 143.117.16.43
Connecting to placenames.org.uk
(placenames.org.uk) | 143.117.16.43 | :80... connected.
HTTP request sent, awaiting response... 404 Not Found
2018-06-11 11:31:46 ERROR 404: Not Found.
```

Vision Ofertions & Wimbely Stinster

Arundel Steyning N.Shoreham A vision of Britain from 1801 to now. Including maps, statistical trends and historical descriptions.

Brightham Novikovical trends and historical descriptions.

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Place:

Clayton Lancashire

Location

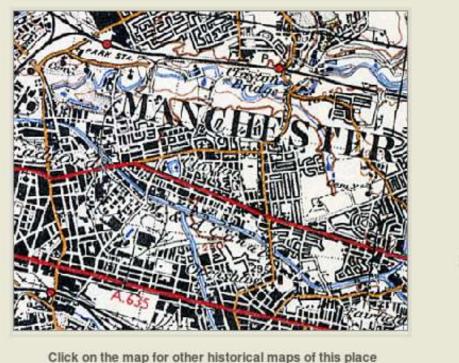
Historical places and writing

Historical photographs

Units and statistics

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Place names





In 1870-72, John Marius Wilson's Imperial Gazetteer of England and Wales described Clayton like this:

66 CLAYTON, a village in Droylsden township, Manchester parish, Lancashire; on the Manchester and Staleybridge railway, at Clayton-Bridge station, 31/2 miles E of Manchester.



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GB1900 is a project to computerise all the place names on six-inch-to-one-mile maps covering the whole of Great Britain, published by the Ordnance Survey between 1888 and 1914 -- 1900 for short. It is a collaboration between the GB Historical GIS, the creators of A Vision of Britain through Time, the National Library of Scotland, the Royal Commission on the Ancient and Historical Monuments of Wales, the University of Wales Centre for Advanced Welsh and Celtic Studies, the National Library of Wales and the People's Collection Wales.

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We are of course grateful for any acknowledgment you make to the GB1900 project.

Please note that this is a large zip archive which may take some time to download. It includes documentation and a copy of the licence.

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Columns

EntryID = unique identifier for a record.

Frequency = Number of attempts at transcription.

GridRef = Latitude, Longitude (WGS84).

DateStamp = Date and time of last update to the record.

Transcription = Text string transcription contained within quotations marks. Multiple transcriptions are in the order made and separated by commas.

Comments = Comments added by the transcriber.

AlternateNames = Any alternate names added by the transcriber

Memories - any memories added by the transcriber.

Continent of 53.4833,-2.1500?

Continent of 53.4833,-2.1500?

Maybe wikidata can help?



@MusiCog

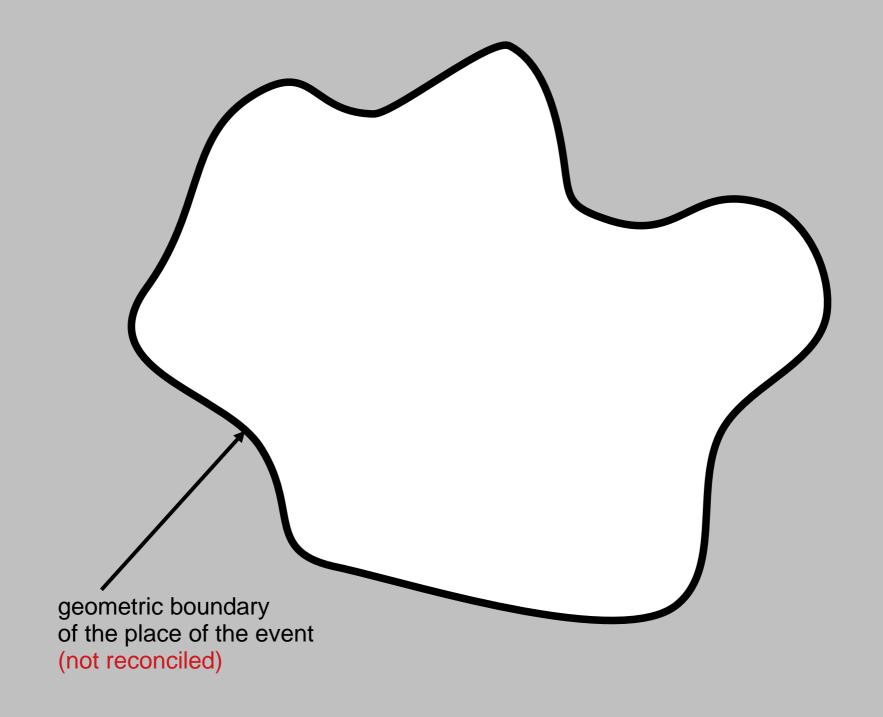


@mlpoulter

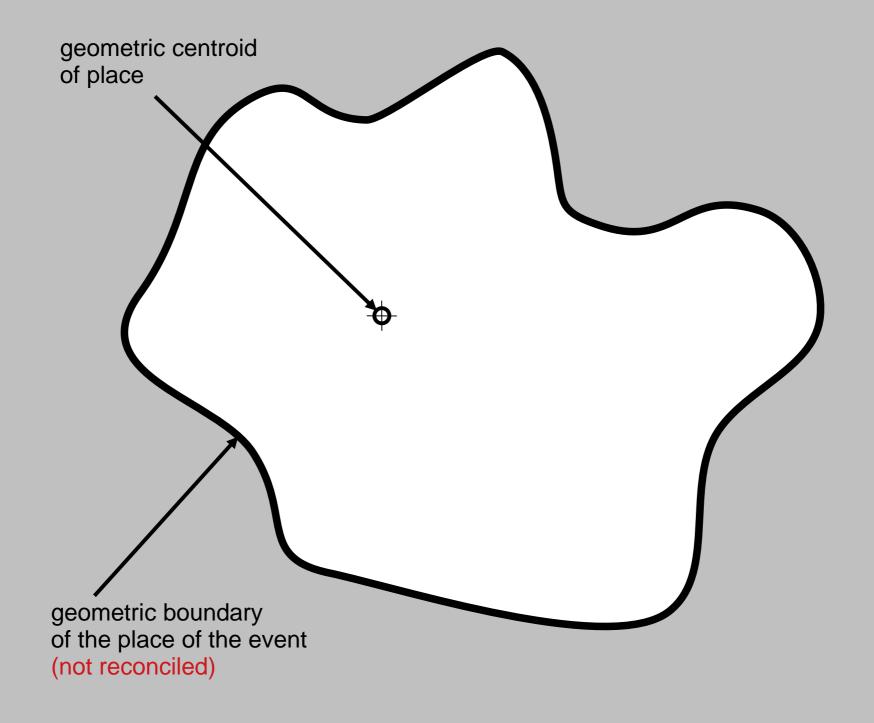


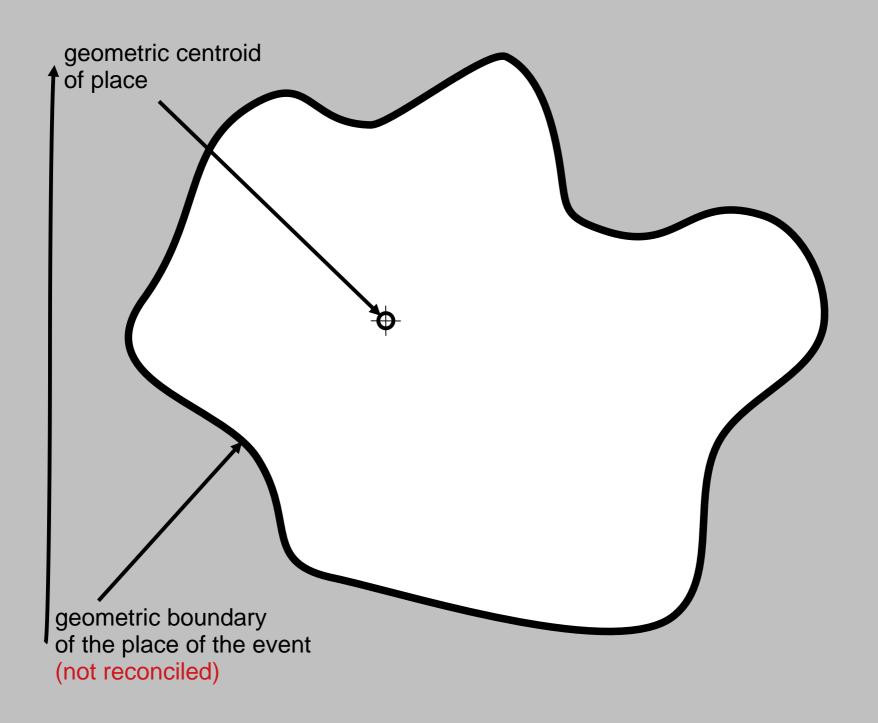
@gklyne

```
SELECT DISTINCT ?ms ?geocoorsraw ?lat ?long ?continent ?continentTerm {
  ?ms crm:P108i was produced by ?production . #MS with a production
  ?production crm:P4 has time-span ?ts . #productions with period
  ?ts crm:P82a begin of the begin ?tsb . #begining of the period
  ?ts crm:P82b end of the end ?tse . #end of the period
  FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
  FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
  ?production crm:P7 took place at ?msplace . #production at a place
  ?msplace crm:P89i contains ?mscentroidplace . #place contains centroid
  ?mscentroidplace crm:P168 place is defined by ?geocoorsraw . #geodata needs to be split
  BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,","),"("), xsd:decimal) AS ?lat) .
BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,")"),","), xsd:decimal) AS ?long) .
  SERVICE <a href="http://vocab.getty.edu/sparql">SERVICE <a href="http://vocab.getty.edu/sparql">http://vocab.getty.edu/sparql</a> { #go to the Getty endpoint
    ?place wgs:lat ?lat ; #use the lat and long
            wgs:long ?long .
    ?nearbyplace omgeo:nearby(?lat ?long "4mi" ) . #find places around this lat lon
    ?nearbyplaceconcept foaf:focus ?nearbyplace ; #find the name of the places
                           gvp:broaderPartitive+ ?continent . #find all the parent terms
    ?continent gvp:placeTypePreferred <http://vocab.getty.edu/aat/300128176> . #only continents
    ?continent xl:prefLabel ?continentLabel . #get label
    ?continentLabel gvp:term ?continentTerm . #get value of label
    FILTER ( lang(?continentTerm) = "en" ) #only the English
} LIMIT 100
```

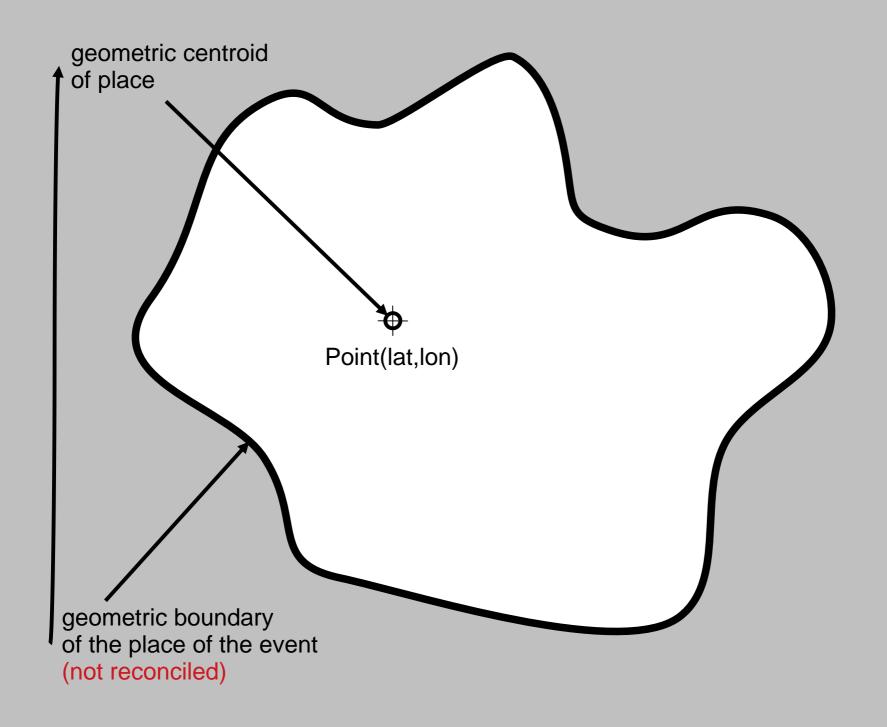


```
SELECT DISTINCT ?ms ?geocoorsraw ?lat ?long ?continent ?continentTerm {
  ?ms crm:P108i was produced by ?production . #MS with a production
  ?production crm:P4 has time-span ?ts . #productions with period
  ?ts crm:P82a begin of the begin ?tsb . #begining of the period
  ?ts crm:P82b end of the end ?tse . #end of the period
  FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
  FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
  ?production crm:P7 took place at ?msplace . #production at a place
  ?msplace crm:P89i contains ?mscentroidplace . #place contains centroid
  ?mscentroidplace crm:P168 place is defined by ?geocoorsraw . #geodata needs to be split
  BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,","),"("), xsd:decimal) AS ?lat) .
BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,")"),","), xsd:decimal) AS ?long) .
  SERVICE <a href="http://vocab.getty.edu/sparql">SERVICE <a href="http://vocab.getty.edu/sparql">http://vocab.getty.edu/sparql</a> { #go to the Getty endpoint
    ?place wgs:lat ?lat ; #use the lat and long
            wgs:long ?long .
    ?nearbyplace omgeo:nearby(?lat ?long "4mi" ) . #find places around this lat lon
    ?nearbyplaceconcept foaf:focus ?nearbyplace ; #find the name of the places
                           gvp:broaderPartitive+ ?continent . #find all the parent terms
    ?continent gvp:placeTypePreferred <http://vocab.getty.edu/aat/300128176> . #only continents
    ?continent xl:prefLabel ?continentLabel . #get label
    ?continentLabel gvp:term ?continentTerm . #get value of label
    FILTER ( lang(?continentTerm) = "en" ) #only the English
} LIMIT 100
```





```
SELECT DISTINCT ?ms ?geocoorsraw ?lat ?long ?continent ?continentTerm {
  ?ms crm:P108i was produced by ?production . #MS with a production
  ?production crm:P4 has time-span ?ts . #productions with period
  ?ts crm:P82a begin of the begin ?tsb . #begining of the period
  ?ts crm:P82b end of the end ?tse . #end of the period
  FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
  FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
  ?production crm:P7 took place at ?msplace . #production at a place
  ?msplace crm:P89i contains ?mscentroidplace . #place contains centroid
  ?mscentroidplace crm:P168 place is defined by ?geocoorsraw . #geodata needs to be split
  BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,","),"("), xsd:decimal) AS ?lat) .
BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,")"),","), xsd:decimal) AS ?long) .
  SERVICE <a href="http://vocab.getty.edu/sparql">SERVICE <a href="http://vocab.getty.edu/sparql">http://vocab.getty.edu/sparql</a> { #go to the Getty endpoint
    ?place wgs:lat ?lat ; #use the lat and long
            wgs:long ?long .
    ?nearbyplace omgeo:nearby(?lat ?long "4mi" ) . #find places around this lat lon
    ?nearbyplaceconcept foaf:focus ?nearbyplace ; #find the name of the places
                           gvp:broaderPartitive+ ?continent . #find all the parent terms
    ?continent gvp:placeTypePreferred <http://vocab.getty.edu/aat/300128176> . #only continents
    ?continent xl:prefLabel ?continentLabel . #get label
    ?continentLabel gvp:term ?continentTerm . #get value of label
    FILTER ( lang(?continentTerm) = "en" ) #only the English
} LIMIT 100
```



```
SELECT DISTINCT ?ms ?geocoorsraw ?lat ?long ?continent ?continentTerm {
  ?ms crm:P108i was produced by ?production . #MS with a production
  ?production crm:P4 has time-span ?ts . #productions with period
  ?ts crm:P82a begin of the begin ?tsb . #begining of the period
  ?ts crm:P82b end of the end ?tse . #end of the period
  FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
  FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
  ?production crm:P7 took place at ?msplace . #production at a place
  ?msplace crm:P89i contains ?mscentroidplace . #place contains centroid
  ?mscentroidplace crm:P168_place_is_defined_by ?geocoorsraw . #geodata needs to be split BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,","),"("), xsd:decimal) AS ?lat) . BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,")"),","), xsd:decimal) AS ?long) .
  SERVICE <a href="http://vocab.getty.edu/sparql">http://vocab.getty.edu/sparql</a> { #go to the Getty endpoint
    ?place wgs:lat ?lat ; #use the lat and long
            wgs:long ?long .
    ?nearbyplace omgeo:nearby(?lat ?long "4mi" ) . #find places around this lat lon
    ?nearbyplaceconcept foaf:focus ?nearbyplace ; #find the name of the places
                            gvp:broaderPartitive+ ?continent . #find all the parent terms
    ?continent gvp:placeTypePreferred <http://vocab.getty.edu/aat/300128176> . #only continents
    ?continent xl:prefLabel ?continentLabel . #get label
    ?continentLabel gvp:term ?continentTerm . #get value of label
    FILTER ( lang(?continentTerm) = "en" ) #only the English
} LIMIT 100
```

```
• 52.82
SELECT DISTINCT ?ms ?geocoorsraw ?lat ?long ?continent ?cont:
  ?ms crm:P108i was produced by ?production . #MS with a produced
  ?production crm:P4 has time-span ?ts . #productions with pe
  ?ts crm:P82a begin of the begin ?tsb . #begining of the per
  ?ts crm:P82b end of the end ?tse . #end of the period
  FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
  FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
  ?production crm:P7 took place at ?msplace . #production at a place
  ?msplace crm:P89i contains ?mscentroidplace . #place contains centroid
  ?mscentroidplace crm:P168 place is defined by ?geocoorsraw . #geodata needs to be split
  BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,","),"("), xsd:decimal) AS ?lat) .
BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,")"),","), xsd:decimal) AS ?long) .
  SERVICE <a href="http://vocab.getty.edu/sparql">http://vocab.getty.edu/sparql</a> { #go to the Getty endpoint
    ?place wgs:lat ?lat ; #use the lat and long
           wgs:long ?long .
    ?nearbyplace omgeo:nearby(?lat ?long "4mi" ) . #find places around this lat lon
    ?nearbyplaceconcept foaf:focus ?nearbyplace ; #find the name of the places
                          gvp:broaderPartitive+ ?continent . #find all the parent terms
    ?continent gvp:placeTypePreferred <http://vocab.getty.edu/aat/300128176> . #only continents
    ?continent xl:prefLabel ?continentLabel . #get label
    ?continentLabel gvp:term ?continentTerm . #get value of label
    FILTER ( lang(?continentTerm) = "en" ) #only the English
} LIMIT 100
```

From:

To:

• Point(52.82 -0.77)

```
SELECT DISTINCT ?ms ?geocoorsraw ?lat ?long ?continent ?continentTerm {
  ?ms crm:P108i was produced by ?production . #MS with a production
  ?production crm:P4 has time-span ?ts . #productions with period
  ?ts crm:P82a begin of the begin ?tsb . #begining of the period
  ?ts crm:P82b end of the end ?tse . #end of the period
  FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
  FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
  ?production crm:P7 took place at ?msplace . #production at a place
  ?msplace crm:P89i contains ?mscentroidplace . #place contains centroid
  ?mscentroidplace crm:P168 place is defined by ?geocoorsraw . #geodata needs to be split
  BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,","),"("), xsd:decimal) AS ?lat) .
BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,")"),","), xsd:decimal) AS ?long) .
  SERVICE <a href="http://vocab.getty.edu/sparql">SERVICE <a href="http://vocab.getty.edu/sparql">http://vocab.getty.edu/sparql</a> { #go to the Getty endpoint
    ?place wgs:lat ?lat ; #use the lat and long
            wgs:long ?long .
    ?nearbyplace omgeo:nearby(?lat ?long "4mi" ) . #find places around this lat lon
    ?nearbyplaceconcept foaf:focus ?nearbyplace ; #find the name of the places
                           gvp:broaderPartitive+ ?continent . #find all the parent terms
    ?continent gvp:placeTypePreferred <http://vocab.getty.edu/aat/300128176> . #only continents
    ?continent xl:prefLabel ?continentLabel . #get label
    ?continentLabel gvp:term ?continentTerm . #get value of label
    FILTER ( lang(?continentTerm) = "en" ) #only the English
} LIMIT 100
```





```
SELECT DISTINCT ?ms ?geocoorsraw ?lat ?long ?continent ?continentTerm {
  ?ms crm:P108i was produced by ?production . #MS with a production
  ?production crm:P4 has time-span ?ts . #productions with period
  ?ts crm:P82a begin of the begin ?tsb . #begining of the period
  ?ts crm:P82b end of the end ?tse . #end of the period
  FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
  FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
  ?production crm:P7 took place at ?msplace . #production at a place
  ?msplace crm:P89i contains ?mscentroidplace . #place contains centroid
  ?mscentroidplace crm:P168 place is defined by ?geocoorsraw . #geodata needs to be split
  BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,","),"("), xsd:decimal) AS ?lat) .
BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,")"),","), xsd:decimal) AS ?long) .
  SERVICE <a href="http://vocab.getty.edu/sparql">SERVICE <a href="http://vocab.getty.edu/sparql">http://vocab.getty.edu/sparql</a> { #go to the Getty endpoint
    ?place wgs:lat ?lat ; #use the lat and long
            wgs:long ?long .
    ?nearbyplace omgeo:nearby(?lat ?long "4mi" ) . #find places around this lat lon
    ?nearbyplaceconcept foaf:focus ?nearbyplace ; #find the name of the places
                           gvp:broaderPartitive+ ?continent . #find all the parent terms
    ?continent gvp:placeTypePreferred <http://vocab.getty.edu/aat/300128176> . #only continents
    ?continent xl:prefLabel ?continentLabel . #get label
    ?continentLabel gvp:term ?continentTerm . #get value of label
    FILTER ( lang(?continentTerm) = "en" ) #only the English
} LIMIT 100
```



```
SELECT DISTINCT ?ms ?geocoorsraw ?lat ?long ?continent ?continentTerm {
  ?ms crm:P108i was produced by ?production . #MS with a production
  ?production crm:P4 has time-span ?ts . #productions with period
  ?ts crm:P82a begin of the begin ?tsb . #begining of the period
  ?ts crm:P82b end of the end ?tse . #end of the period
  FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
  FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
  ?production crm:P7 took place at ?msplace . #production at a place
  ?msplace crm:P89i contains ?mscentroidplace . #place contains centroid
  ?mscentroidplace crm:P168 place is defined by ?geocoorsraw . #geodata needs to be split
  BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,","),"("), xsd:decimal) AS ?lat) .
BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,")"),","), xsd:decimal) AS ?long) .
  SERVICE <a href="http://vocab.getty.edu/sparql">SERVICE <a href="http://vocab.getty.edu/sparql">http://vocab.getty.edu/sparql</a> { #go to the Getty endpoint
    ?place wgs:lat ?lat ; #use the lat and long
            wgs:long ?long .
    ?nearbyplace omgeo:nearby(?lat ?long "4mi" ) . #find places around this lat lon
    ?nearbyplaceconcept foaf:focus ?nearbyplace ; #find the name of the places
                            gvp:broaderPartitive+ ?continent . #find all the parent terms
    ?continent gvp:placeTypePreferred <a href="http://vocab.getty.edu/aat/300128176">http://vocab.getty.edu/aat/300128176</a> . #only continents
    ?continent xl:prefLabel ?continentLabel . #get label
    ?continentLabel gvp:term ?continentTerm . #get value of label
    FILTER ( lang(?continentTerm) = "en" ) #only the English
} LIMIT 100
```

```
SELECT DISTINCT ?ms ?geocoorsraw ?lat ?long ?continent ?continentTerm {
  ?ms crm:P108i was produced by ?production . #MS with a production
  ?production crm:P4 has time-span ?ts . #productions with period
  ?ts crm:P82a begin of the begin ?tsb . #begining of the period
  ?ts crm:P82b end of the end ?tse . #end of the period
  FILTER (xsd:dateTime(?tsb) > "1550-01-01T00:00:00"^^xsd:dateTime) .
  FILTER (xsd:dateTime(?tse) < "1600-01-01T00:00:00"^^xsd:dateTime) .
  ?production crm:P7 took place at ?msplace . #production at a place
  ?msplace crm:P89i contains ?mscentroidplace . #place contains centroid
  ?mscentroidplace crm:P168 place is defined by ?geocoorsraw . #geodata needs to be split
  BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,","),"("), xsd:decimal) AS ?lat) .
BIND (STRDT(STRAFTER(STRBEFORE(?geocoorsraw,")"),","), xsd:decimal) AS ?long) .
  SERVICE <a href="http://vocab.getty.edu/sparql">SERVICE <a href="http://vocab.getty.edu/sparql">http://vocab.getty.edu/sparql</a> { #go to the Getty endpoint
    ?place wgs:lat ?lat ; #use the lat and long
            wgs:long ?long .
    ?nearbyplace omgeo:nearby(?lat ?long "4mi" ) . #find places around this lat lon
    ?nearbyplaceconcept foaf:focus ?nearbyplace ; #find the name of the places
                            gvp:broaderPartitive+ ?continent . #find all the parent terms
    ?continent gvp:placeTypePreferred <a href="http://vocab.getty.edu/aat/300128176">http://vocab.getty.edu/aat/300128176</a> . #only continents
    ?continent xl:prefLabel ?continentLabel . #get label
    ?continentLabel gvp:term ?continentTerm . #get value of label
    FILTER ( lang(?continentTerm) = "en" ) #only the English
} LIMIT 100
```

```
SCLECT DISTINCT I'ms Igeocoorsnaw Plat Floog Tcontinent TcontinentTerm (
            This crm:P1881 was produced by "production . #MS with a production
          Tyroduction cro; M has time-span Pta, sproductions with period Pts cro:P62a begin of the begin Pta, shequing of the period Pts cro:P62b end of the end Pta & send of the period Pts cro:P62b end of the end Pta & send of the period Pts cro:P62b end of the end Pta & send of the period Pts cro:P62b end of the period Pts & send of the period Pts & se
          Iproduction crm:P7 took place at ?msplace . #production at a place imsplace crm:P891 contains ?mscentroidplace . #place contains controid ?mscentroidplace crm:P188 place is defined by ?goodorarmu . #goodata needs to be apli BIND (STMDTISTRAFTER(STMDEFORE(?goocoorarmu, '.'). '(), xed:decimal) A5 ?lat) . BIND (STMDTISTRAFTER(STMDEFORE(?goocoorarmu, '.'). sed:decimal) A5 ?lat) .
           SERVICE *http://vocab.getty.edu/sporqt> ( #go to the Getty endpoint 
Tplace wgs:lat flat ; #use the lat and long
                                                         wgs:long 7Long +
                     Incurreptions oggotnesstby(Flat Florg 'ant' ) . #find places around this lat los
Incurreptions of feafifocus Incurreption ; #find the mase of the places
                                                                                                                          gypibroaderPartitive+ Toomtiment . #find all the parent terms
                  Trontinent gyp:placetypePreferred cellp://www.petrontinent.seine.gov/ant/300120170s . #enty con
Trontinent xlipreflabel Trontinentlabel . #get label
Trontinentlabel gyp:tem TrontinentTerm . #get value of label
FILTER | lang(TrontinentTerm) = "en" ) #enty the English
LIMIT 100
```

	ms
	<https: r<="" th=""></https:>
14	<https: r<="" th=""></https:>
	<https: r<="" th=""></https:>
tinents	<https: r<="" th=""></https:>
- Committee	<https: r<="" th=""></https:>
	<https: r<="" td=""></https:>

	ms	lat	long	contnt
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_658	48.866667	2.333333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_659	48.866667	2.333333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_6579#MS_Lat_misc_c_17-part7>	46.195602	6.148113	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_6434#MS_Lat_hist_e_2-part1	51.210933	3.225971	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_2575>	42.8333	12.8333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_2576>	42.8333	12.8333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_55>	52.5	5.75	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_2769>	42.8333	12.8333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_35>	42.8333	12.8333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_2018#MS_Bywater_37-part4	42.8333	12.8333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_1912	51.5	10.5	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_8932>	42.8333	12.8333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_1000	42.8333	12.8333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_1278	42.8333	12.8333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_7487	42.8333	12.8333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_7489>	42.8333	12.8333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_7490>	42.8333	12.8333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_7491	42.8333	12.8333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_4708	49.8333	5.3333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_4764	49.8333	5.3333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_6434#MS_Lat_hist_e_2-part1	49.8333	5.3333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_554	41.011046	28.957798	Asia
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_554	41.011046	28.957798	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_8458	52.633333	1.3	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_3954>	51.75	-1.25	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_3957>	51.75	-1.25	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_2711#MS_Canon_Ital_274-part2	45.438611	12.326667	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_8932>	45.438611	12.326667	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_1000	45.438611	12.326667	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_2018#MS_Bywater_37-part4	45.438611	12.326667	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_3926>	49.25	4.033333	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_7486	42.8333	12.8333	Europe
tinents	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_35>	45.438611	12.326667	Europe
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_2575>	45.438611	12.326667	Europe

	ms	lat	long	contn
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_658	48.866667	2.333333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_659	48.866667	2.333333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_6579#MS_Lat_misc_c_17-part7	46.195602	6.148113	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_6434#MS_Lat_hist_e_2-part1	51.210933	3.225971	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_2575>	42.8333	12.8333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_2576>	42.8333	12.8333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_55>	52.5	5.75	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_2769	42.8333	12.8333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_35>	42.8333	12.8333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_2018#MS_Bywater_37-part4	42.8333	12.8333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_1912	51.5	10.5	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_8932>	42.8333	12.8333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_1000	42.8333	12.8333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_1278	42.8333	12.8333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_7487	42.8333	12.8333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_7489	42.8333	12.8333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_7490	42.8333	12.8333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_7491	42.8333	12.8333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_4708	49.8333	5.3333	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_4764	49.8333	5.3333	Europ
	<pre><nttps: catalog="" manuscript_o454#ivi5_lat_nist_e_z-partr="" medieval.bodieian.ox.ac.uk=""></nttps:></pre>	49.0333	ე.აააა	⊏urop
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_554	41.011046	28.957798	Asia
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_554	41.011046	28.957798	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_8458	52.633333	1.3	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_3954	51.75	-1.25	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_3957>	51.75	-1.25	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_2711#MS_Canon_Ital_274-part2	45.438611	12.326667	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_8932>	45.438611	12.326667	Europ
rie.	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_1000	45.438611	12.326667	Europ
114	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_2018#MS_Bywater_37-part4	45.438611	12.326667	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_3926	49.25	4.033333	Europ
on! (nent-	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_7486	42.8333	12.8333	Europ
ontinents	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_35>	45.438611	12.326667	Europ
	https://medieval.bodleian.ox.ac.uk/catalog/manuscript_2575>	45.438611	12.326667	Europ

[A1] How many manuscripts [in a period] produced in [a place] survive?

[A2] How many manuscripts survive that contain Spanish texts written in gothic rotunda were produced in Castile for an abbey or convent?

Then show me those which were owned during the nineteenth century by English private collectors; Then show me those which are now owned by an institution in North America.

[A2] How many manuscripts survive that contain Spanish texts written in gothic rotunda were produced in Castile for an abbey or convent? Then show me those which were owned during the nineteenth century by English private collectors; Then show me those which are now owned by an institution in North America.

```
?ms frbr:R42_is_representative_manifestation_singleton_for ?sce . #manuscript with an expression
?ms rdfs:label ?msl . #shelfmark
?sce frbr:R3i_realises ?w . #expression matches with work
?w crm:P102_has_title ?wt . #title of work
?wt rdfs:label ?wtl . #value of title
?w crm:P72_has_language <https://medieval.bodleian.ox.ac.uk/catalog/authority/language/es> . #spanish texts only
?ms crm:P108i_was_produced_by ?msp . #manuscript production event
?msp crm:P7_took_place_at ?mspp . #production event place
?mspp rdfs:label ?msppl . #label of place
?ms crm:P51_has_former_or_current_owner ?mspg. #owner at sometime being
?mspg a crm:E74_Group . #a group (we have not expressed types of groups)
?mspg rdfs:label ?mspgl #group label
}
```

SELECT DISTINCT ?msl ?wtl ?msppl ?mspgl {

```
?ms frbr:R42_is_representative_manifestation_singleton_for ?sce . #manuscript with an expression
?ms rdfs:label ?msl . #shelfmark
?sce frbr:R3i_realises ?w . #expression matches with work
?w crm:P102_has_title ?wt . #title of work
?wt rdfs:label ?wtl . #value of title
?w crm:P72_has_language <https://medieval.bodleian.ox.ac.uk/catalog/authority/language/es> . #spanish texts only
?ms crm:P108i_was_produced_by ?msp . #manuscript production event
?msp crm:P7_took_place_at ?mspp . #production event place
?mspp rdfs:label ?msppl . #label of place
?msp crm:P11_had_participant ?mspg . #production event participant is a →
?mspg a crm:E74_Group . #group (types are not expressed)
?mspg rdfs:label ?mspgl #label of group
}
```

SELECT DISTINCT ?msl ?wtl ?msppl ?mspgl {

[A2] How many manuscripts survive that contain [texts of a language] written in gothic rotunda were produced [in a place] for a [type of maker/owner]?

[A3] What French collectors purchased manuscripts since the end of the Wars of Religion (after 1598)?

[A3] What French collectors purchased manuscripts since the end of the Wars of Religion (after 1598)?

People (+ birth places) involved in provenance events after 1598

plabel	tsb	placeLabel
F. J. Furnivall	1891-01-01T00:00:00	Egham
Morris, William, 1834-1896	1890-01-01T00:00:00	Walthamstow
Phillipps	1824-01-01T00:00:00	Manchester
Hearne, Thomas, 1678-1735	1731-01-01T00:00:00	White Waltham
Cotton, Robert	1621-01-01T00:00:00	Denton
John Adrian Louis Hope	1860-01-01T00:00:00	South Queensferry
Foucault, Nicolas-Joseph	1677-01-01T00:00:00	Paris
John Locke	1701-09-30T00:00:00	Wrington

```
SELECT DISTINCT ?plabel ?tsb ?placeLabel WHERE {
  ?e crm:P11 had participant ?p . #provenance events with participants
  ?p a crm:E21 Person . #participants who are persons as opposed to groups
  { #get a label for the person
    SELECT ?p (MIN(?l) AS ?plabel) { #magic by Graham
      ?p rdfs:label ?l
    } GROUP BY ?p
  ?p owl:sameAs ?er . #get only the reconciled persons
  ?e crm:P4 has time-span ?ts . #provenance events at a specific period
  ?ts crm:P82a begin of the begin ?tsb . #period starting
  FILTER (xsd:dateTime(?tsb) > "1598-12-31T23:59:59"^xsd:dateTime) . #at the end of 1598
  SERVICE <a href="https://query.wikidata.org/sparql">https://query.wikidata.org/sparql</a> { #go to wikidata
    SELECT ?er ?erLabel ?place ?placeLabel WHERE { #return the label
      SERVICE wikibase: label { bd:serviceParam wikibase: language "[AUTO LANGUAGE], en". } #find reconciled label
      ?er wdt:P19 ?place. #find the place of birth of the reconciled person
} LIMIT 1000
```

People (+ birth places) born between: 1598-1698 and involved in provenance events

```
SELECT DISTINCT ?plabel ?betsb ?placeLabel WHERE {
                                                                            Bentley, Richard
  ?e crm:Pll had participant ?p . #provenance event with participant
  ?p a crm:E21 Person . #participants who are persons not groups
                                                                            Ames, Joseph
    { #get a label for the person
                                                                           Foucault, Nicolas-Joseph
   SELECT ?p (MIN(?l) AS ?plabel) { #magic by Graham
      ?p rdfs:label ?l
                                                                            John Locke
    } GROUP BY ?p
                                                                            Giuseppe Valletta (1636-1714)
  ?p crm:P98i was born ?be . #participants birth event
  ?be crm:P4 has time-span ?bets . #period of birth
  ?bets crm:P82a begin of the begin ?betsb . #begin of the period
  ?bets crm:P82b end of the end ?betse . #end of the period
  ?p owl:sameAs ?er . #only reconciled persons
 FILTER (xsd:dateTime(?betsb) > "1598-12-31T23:59:59"^xsd:dateTime) . #persons born after 1598
 FILTER (xsd:dateTime(?betse) < "1698-12-31T23:59:59"^xsd:dateTime) . #person born before 1698
 SERVICE <a href="https://guery.wikidata.org/sparql">https://guery.wikidata.org/sparql</a> { #go to wikidata
    SELECT ?er ?erLabel ?place ?placeLabel WHERE {
      SERVICE wikibase:label { bd:serviceParam wikibase:language "[AUTO LANGUAGE],en". } #fetch label
      ?er wdt:P19 ?place. #places of birth of reconciled persons
} LIMIT 1000
```

plabel

Abp Wake's

Aldrich, Henry

Carlo Archinto

Anthony Wood

'Honest' Thomas Martin of Palgrave

Levcester, Peter, Sir, 1614-1678

John, Baron Somers (1651-1716)

Giovan Battista Recanti

Comes Donatus Silva

Cardinal Alderano Cibo

Philip, Landgrave of Hesse

Tenison, Thomas, 1636-1715

Hearne, Thomas, 1678-1735

betsb

1657-01-01T00:00:00

1697-01-01T00:00:00

1647-01-01T00:00:00

1614-01-01T00:00:00

1687-01-01T00:00:00

1678-01-01T00:00:00

1690-01-01T00:00:00

1613-01-01T00:00:00

1651-01-01T00:00:00

1670-01-01T00:00:00

1671-01-01T00:00:00

1636-01-01T00:00:00

1632-01-01T00:00:00

1662-01-01T00:00:00

1689-01-01T00:00:00

1643-01-01T00:00:00

1632-01-01T00:00:00

1636-01-01T00:00:00

placeLabel

Westminster

White Waltham

Thetford

Cheshire

Venice

Milan

Genoa

Claines

Darmstadt

Cottenham

Wakefield

Great Yarmouth

Oxford

Paris

Wrington

Naples

Milan

Blandford Forum

[A3] What owners from a [place] purchased manuscripts after [a period]?

Mapping for research questions

- Research questions:
 - Domain (e.g. Investigate the history of the book)
 - Project (e.g. Map movement of MSs in Europe)
 - Data (e.g. Books made in Europe 1550-1600)
- Consider data questions to express in SPARQL
- Granularity of questions depends on granularity of data
- Reconciliation gives access to other datasets (not only an identifier)
- Generalise to make queries widely applicable / build sane LIIs



Next Open Workshop

10 July 2018 - OeRC

Musical instruments – Bate collection (+?)

