

Das Leibniz-Institut für Europäische Geschichte in Mainz



Digitale Forschungsinfrastruktur für die Geistes- und Kulturwissenschaften



#### **Overview**

11:00–12:15: Finding your way in digital collections

12:15–13:00: Lunch break

13:00–14:15: Tools for quantitative text analysis

14:15–14:30 Coffee break

14:30–15:45: Tools for Geohumanities

15:45–16:00: Concluding session



## Overview: Finding your way in digital collections

Part I: The Archaeology of Reading in Early Modern Europe (AOR)

- 1) Structured data and metadata
- 2) Scholarly background
- 3) Structured data and AOR: editorial principles
- 4) Navigating and using AOR

Part II: comparing digital collections

- 1) DARIAH-DE Collection Registry
- 2) EADH Catalogue of Digital Editions



#### Structured data and metadata

- *Unstructured data*: flat files which contain data but no metadata. Examples: Word docs, PDF, etc.
- *Semi-structured data*: some structure is added to the data, e.g. in the form of tags. Examples: XML, Wikidata.
- *Structured data*: the data is divided into distinguishable entities that can be recognized as such by computer software (e.g. search engines). It is layered and, often, hierarchical. Example: relational databases.
- *Metadata* is data that gives information or describes other data. It provides properties about data which can be used by computers to interpret or process that data in a particular manner.



## Structured and unstructured data: an example

#### **Letter from Thomas Bodley to William Cecil (1595):**

"....I never craved allowance for the portage of lettres, which have bin chargeable to me, nor for the expenses of many messengers, which I have pur- posely imploied, by expresse commaundement, and with promesse of remboursment, sometimes upon her Majesties owne lettres, and some times by order from my LL. of the Councel, from your Sonoy, of the banished *L. and Sir Francis Walsingham*, about the causes of Schencke, of the Amon of Tiel, of Monsieur men of Utrecht and Leiden, of the towne of Ger- trudenbergh, when it fell from the states, and for sun- drie buisnesses besides, for which all my charges being pu[t] in a reckning, will growe to a greater reckning /summe/, then I have reason to neglect'

#### XML:

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- </person>, about <image name="thorn"/> e causes <newline/> of <person id="2039" person\_id="Schenck, M"> Schencke, </person>
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#### The Archaeology of Reading in Early Modern Europe (AOR)

- Funded by the Mellon Foundation (2014-2019)
- International collaboration: Princeton University, Johns Hopkins University, University College London
- Lisa Jardine and Tony Grafton, 'Studied for action: how Gabriel

Harvey read his Livy', Past & Present (1990)

- Enabling a more systematic analysis of historical reading practices through the creation of a digital bookwheel
- https://bookwheel.org/

THE ARCHAEOLOGY OF READING

PARTNER INSTITUTIONS



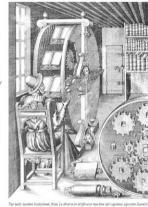
HOW TO USE AOR DOWNLOADS

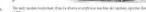
exploration of the historical reading practices of Renaissance scholars nearly 450 years ago. This is possible through AOR's corpus of thirty-six fully digitized and searchable versions of early printed books filled with tens of thousands of handwritten notes, left by two of the most dedicated readers of the early modern period: John Dee and Gabriel

Though the surviving remnants of their massive libraries are scattered across research libraries throughout the United Kingdom, Europe, and the United States AOR presents a virtual library of many of Dee's and Harvey's most engaging and revealing annotated books. Their content span a wide range of subjects, including agriculture, alchemy, ancient and medieva history, astrology, astronomy, humor, law linguistics, mathematics, medicine, milita theory, natural history, navigation, the occult, oratory, politics, poetry, and

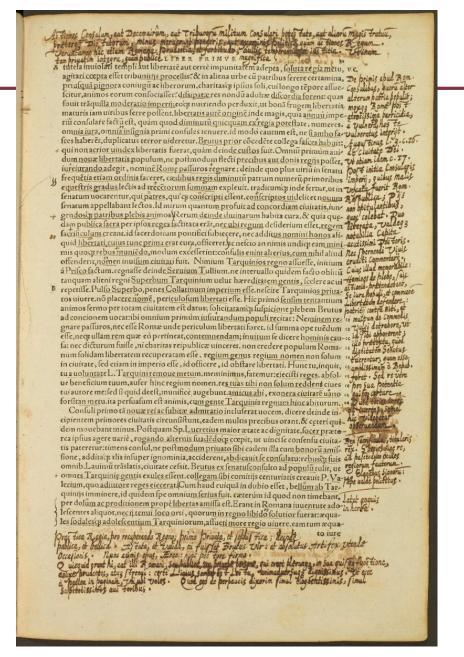
The AOR viewer places each page of each book alongside a text panel containing ful transcriptions (and English translations) o all the manuscript marginalia on that page A second text panel enables users to conduct complex searches across all of Dee's and Harvey's marginalia. Throug AOR, users can either browse or locate precisely every one of their annotations these books, all parts of the printed text they underlined, all their manuscript symbols and marks, all the people, places,

and books they mentioned, and much more









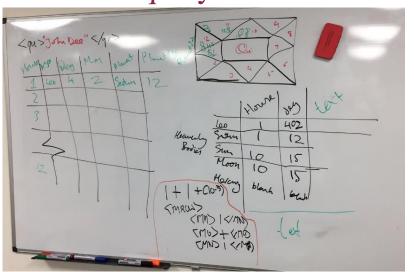


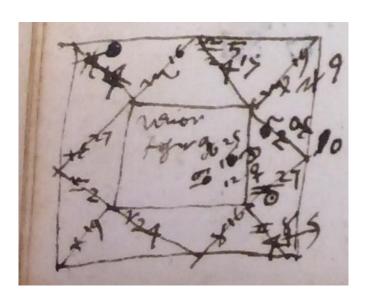
Leibniz-Institut für

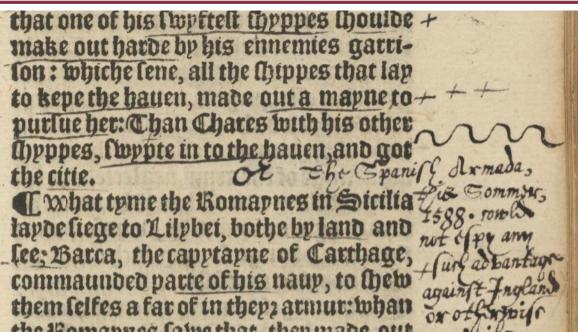


## From MS annotation to structured data: AOR XML schema

- Conceptualization of annotations
- Classification
- Bespoke schema, in-house created (no TEI!)
- Editorial decisions and interventions
- Creation of structured data
- Enable query-based searches







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Improvementum, pro Ocastione axx return.

Frontes.

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#### De Origine & Gestis Britannorum

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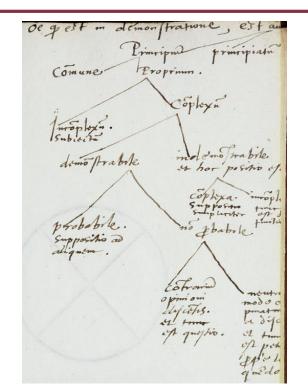
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Cap.XX.

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Oft illum Guinthelinus diadema regnifuscepit quod omni vitæ fuæ tempore benigne & modes necommbus artibus erudita, hac inter multa & inaudita qua proprio ingenio inuenerat, inuenit legem quam Briatiana. tones Martianam vocauerunt. Hanc etiam rex Aluredus inter ceteras traffulit qua Saxonica lingua Marthe helage vocauit. At vt Guithelin9 obiit cessit regni gubernaculu dicte reginæ: & filio ipfius qui Sifillius vocabatur. Erattuc Sifillius septemannorum cuius nondum atas expetebat: vt regni moderationi præferretur. Quare mater cofilio & sensu polles totius insule imperium obtinuit: quæ cum ab hac lucemigraffet Sifillius fumpto diademate regni gua bernaculo potitus est. Post ipsi Kimarus eius filius regnu obtinuit, Cui successit Elam' eiusde frater: quo desicto isi gnitus est Moridus que ex Taguestela cocubina genuerat Hic nimia phitate famolissimus esset nisi immoderate cru delitati indulfiffet:nemini namo pcebat iratus quin îter#

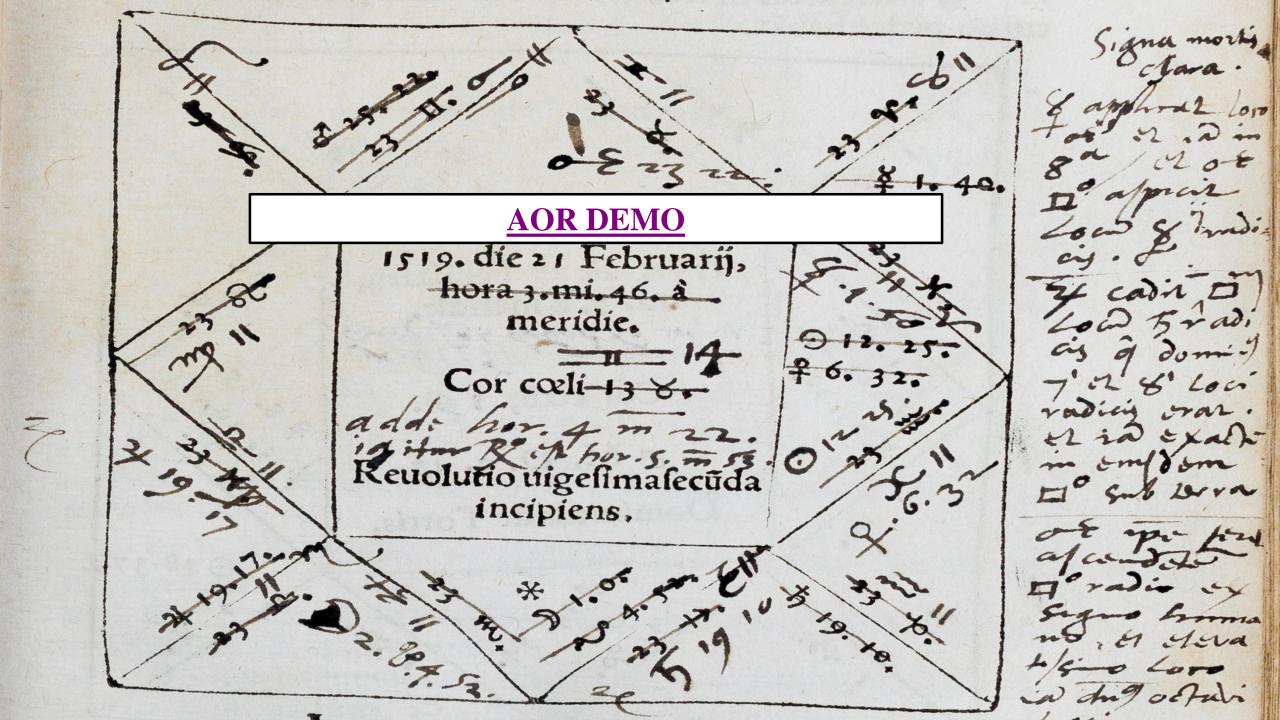




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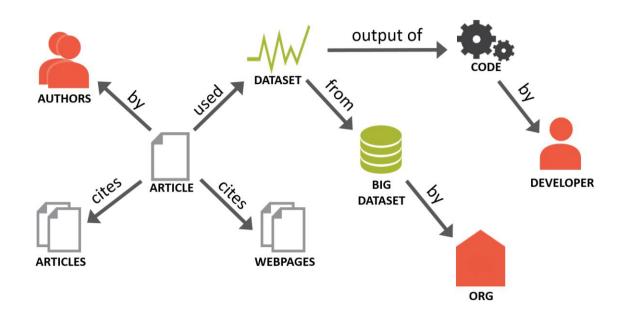


## Task 1: AOR Viewer

- Open a random book and try the a) basic search and b) advanced search. How do these functionalities work?
- Explore the different buttons in the AOR viewer. Do you like the interface? Why (not)?
- Open Titus Livius, *Romanae historiae principis*, and search for 'infra'. Navigate to the first search result (p. 446) and try working with the clickable links in the annotation panel. What are your thoughts on this functionality?



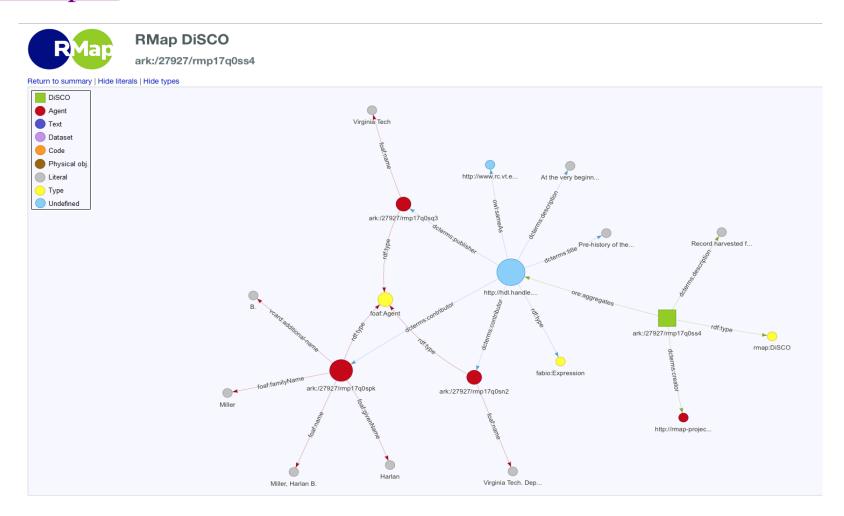
- RMap (resource map)
- https://rmap-hub.org/about
- Preserving and visualizing links between complex relationships among scholarly publications and their underlying data



Source: http://rmap-project.info/rmap/wp-content/uploads/RMap\_iPres\_20161005.pptx



- DiSCO: Distributed Scholarly Compound Object
- RMap examples





### Part II: comparing digital collections

- 1) DARIAH-DE Collection Registry
  - Free tool to describe and link to collections (NB: the actual data of collection is not included)
  - Broad definition of collections
  - Provide searchable overview of collections that are or will be made publicly available



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# Task 2: DARIAH Collection Registry

Try to accomplish one (or more) of the following actions while taking into account the following aspects of this repository:

- Graphical user interface (GUI)
- available metadata
- available functionalities
- 1) Find a manuscript (Handschriften) collection within the registry and navigate to it
- 2) How easy is it to find all the collection associated with a particular agent, say the famous *library in Wolfenbüttel*?
- 3) Find the *Leibniz-Institut für Europäische Geschichte* (IEG) in the network overview at the home page.



#### 2) EADH Catalogue of Digital Editions

- European Association for Digital Humanities (EADH)
- Provide overview of digital editions and identify best practice in digital scholarly editing (e.g. rationale, methodologies)
- Comprises a searchable overview of digital editions and provides means to export the data in the

catalogue





# Task 3: EADH Catalogue of Digital Editions

Try to accomplish one (or more) of the following actions while taking into account the following aspects of this repository:

- Graphical user interface (GUI)
- available metadata
- available functionalities
- 1) How easy is it to find all digital editions which comprise letters (from any period)? How would you go about finding these?
- 2) Try to find *all the early modern digital editions* in *English* that are generated by *University College London* and that are *classified in the catalogue as an edition*?
- 3) Use the network and/or map functionality (in the 'analyze the data' menu) to find the *Universitätsbibliothek Frankfurt am Main*. How useful are these functionalities?



## Links

- AOR Website: <a href="https://archaeologyofreading.org/">https://archaeologyofreading.org/</a>
- AOR Viewer: <a href="https://archaeologyofreading.org/viewer/">https://archaeologyofreading.org/viewer/</a>
- DARIAH Collection Registry Homepage: <a href="https://colreg.de.dariah.eu/colreg-ui/">https://colreg.de.dariah.eu/colreg-ui/</a>
- DARIAH Collection Registry: <a href="https://colreg.de.dariah.eu/colreg-ui/collections/">https://colreg.de.dariah.eu/colreg-ui/collections/</a>
- EADH Catalogue of Digital Editions Homepage: <a href="https://eadh.org/projects/catalogue-digital-editions">https://eadh.org/projects/catalogue-digital-editions</a>
- EADH Catalogue of Digital Editions: <a href="https://dig-ed-cat.acdh.oeaw.ac.at/browsing/editions/">https://dig-ed-cat.acdh.oeaw.ac.at/browsing/editions/</a>



# Vielen Dank für Ihre Aufmerksamkeit

