

Texts and Topics: Toward a VRE of a Virtual Republic of Letters

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Reassembling the Republic of Letters

23rd March St'. Anne's College University of Oxford

### workgroup 3 texts and topics

### **Aim**

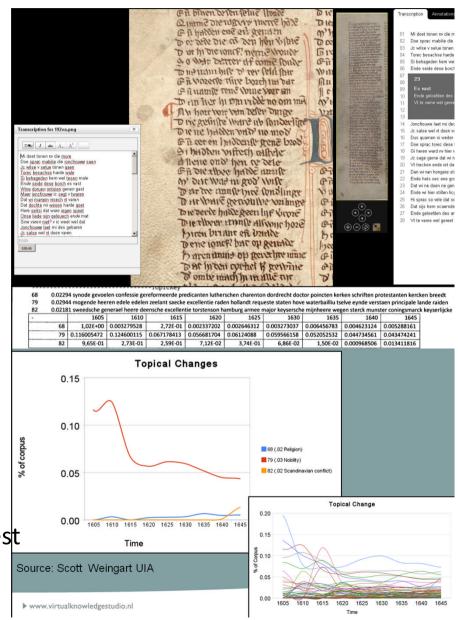
Mapping the Requirements for creating a Virtual Research Environment around the Reassembled Republic of Letters as input for a funding application

### **Leading Questions**

What are the requirements for a digital edition?

What are the requirements for the analysis, visualization and contextualization of the content of letters and related documents?

How can we develop and let users interact best with this Virtual Research Environment?



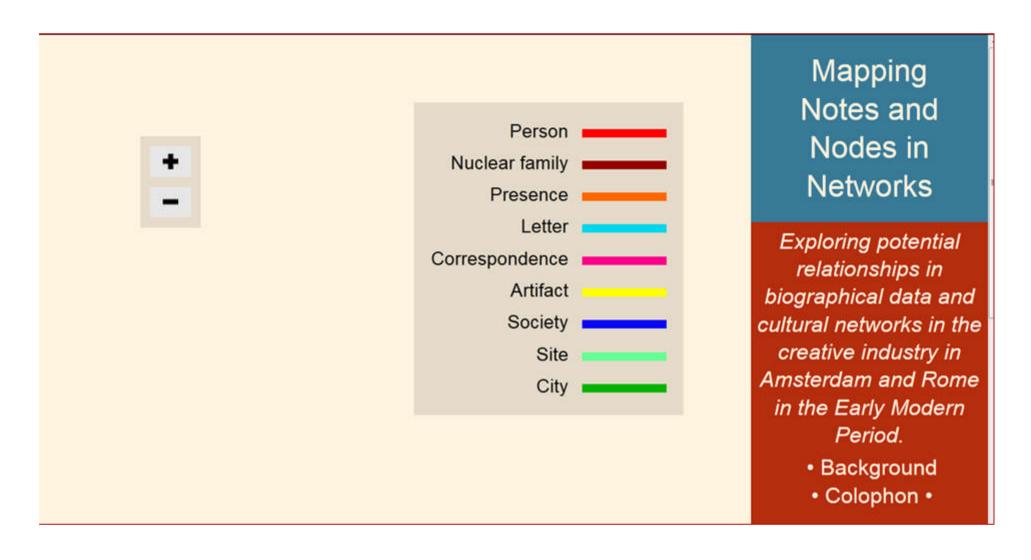
### challenges in creating VRE's

- Combining structured data and unstructured data
- Combining metadata and data
- Combining (meta)data of letters and of artefacts
- Combining multiple networks/maps (i.e. of intellectual and technological knowledge
- Combining methods (for instance topic modeling, network analysis and spatial humanities)
- Combining analytical methods (statistical, probabilistic) with methods of exploration and interaction
- Combining scientific methods with (digital) hermeneutics
- Combining techniques to collaborate with cultures of collaboration
- Combining all this in an interactive user interface

### combining metadata of letters and of artefacts



B Campi, Ontwerp Citadel Antwerpen 1572, (detail) - Antwerpen Stadsarchief 12#10774

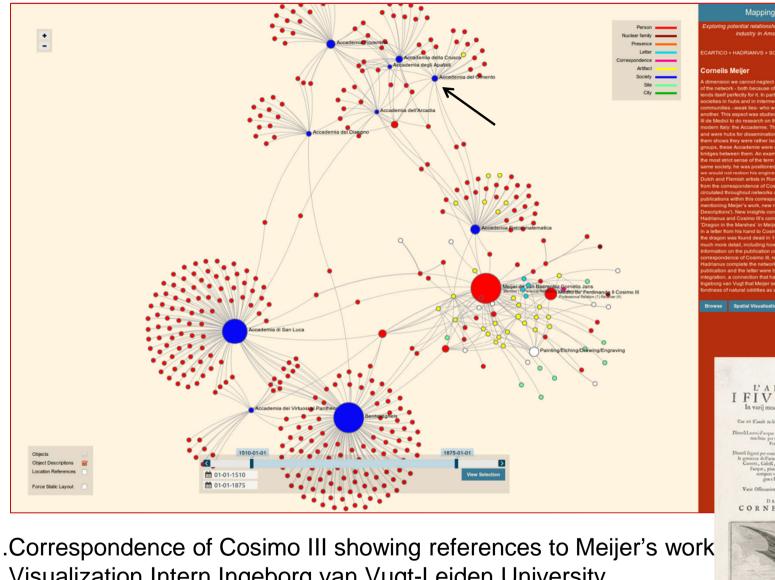


Software Lab1100 – Nodegoat: http://nodegoat.net/

Mapping Notes and Nodes:

http://mnn.nodegoat.net/viewer

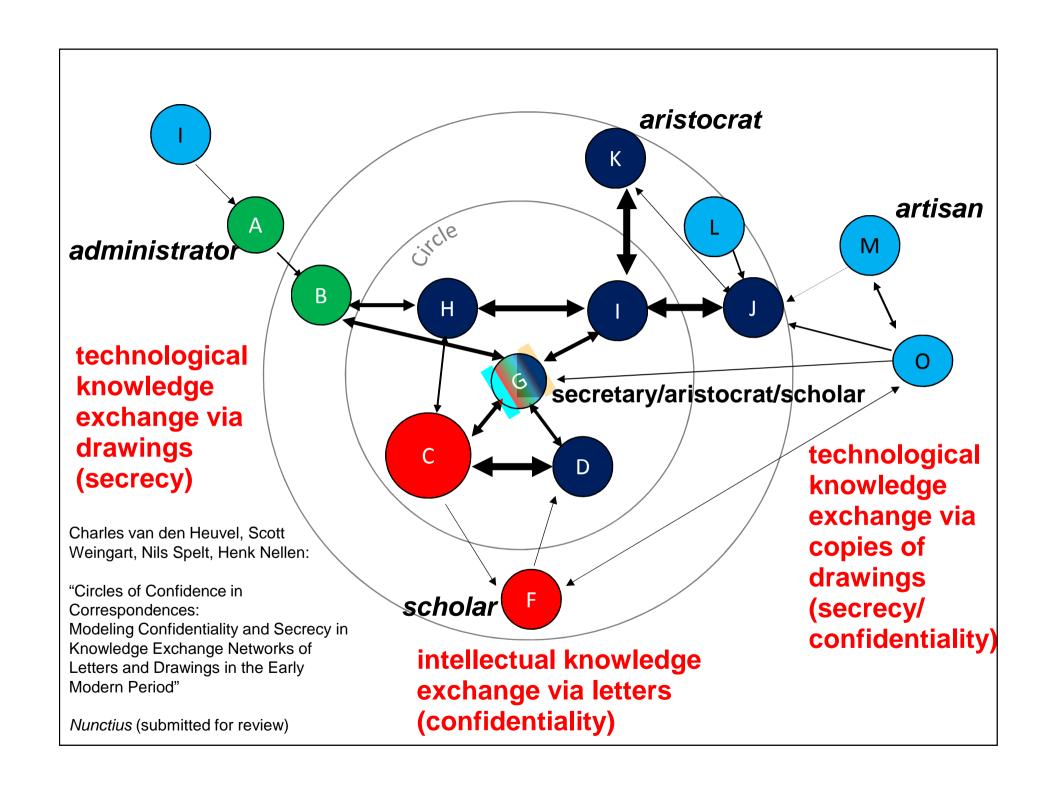
https://www.huygens.knaw.nl/mapping-notes-and-nodes-in-networks/?lang=en



.Correspondence of Cosimo III showing references to Meijer's work .Visualization Intern Ingeborg van Vugt-Leiden University Red nodes:people, blue nodes: academies yellow nodes:artefacts

http://mnn.nodegoat.net/viewer

# Mapping Notes and Nodes in Networks



### combining visualization of uncertainties

Computational Methods: Based on (visual) analytics

- 1. Mappings of probabilities.
- 2. Visual Contextualization by overlaying computer generated patterns
- 3. Graphic language based on deviation of assumed standard model

Charles van den Heuvel & Scott Weingart, Desiderata for Visualizing Uncertainty and Contextuality in the Digital Humanities Experiences with the Digital Republic of Letters Workshop: Visualising Data Resources. The Potential of a Wikimedia Platform for the Digital Humanities Forschungszentrum Gotha 28 April 2012. . [unpublished paper: <a href="http://www.scottbot.net/HIAL/wp-content/uploads/2012/05/CHeuvel\_Weingart.pdf">http://www.scottbot.net/HIAL/wp-content/uploads/2012/05/CHeuvel\_Weingart.pdf</a>, last accessed 17 February 2014.

Creation of Graphical Interfaces to contextualize and manipulate visualizations:

**Design Principles for Humanist Inquiry** 

- 1. Reveal complexity
- 2. Think through data
- 3. Engage dynamics
- Let the user structure the data

Nicole Coleman & Charles van den Heuvel "Visualizing Uncertainty And Complexity: Humanistic Methods For Mapping The Intellectual Geography Of The Early Modern World', *Intellectual Geography: Comparative Studies, 1550-1700* (St Anne's College, University of Oxford, 5-7 September 2011)

Submitted for publication Oxford University Press

# The Republic of Letters and cultures of collaboration

"a flexible, self-regulating and international conglomerate of learned networks, based on rules of conduct and communication which were never formalized"

Dirk van Miert, The Republic of Letters and the sustainability of public intellectual authority, 1400-2000. The informal self-regulation of knowledge through international and transconfessional networks (unpublished note in preparation of a funding application).

### VRE's and cultures of collaboration

A collaboratory is more than an elaborate collection of information and communications technologies; it is a new networked organizational form that also includes social processes; collaboration techniques; formal and informal communication; and agreement on norms, principles, values, and rules"

Cogburn, D. L. (2003). HCl in the so-called developing world: what's in it for everyone, *Interactions*, *10*(2), 80-87, New York: ACM Press.

Stefan Dormans and Jan Kok, 'An Alternative Approach to Large Historical Databases; Exploring Best Practices with Collaboratories', *Historical Methods* 43 (2010) 3: 97-107

	tools (instruments)	information (data)	knowledge (new findings)
aggregating across distance	shared instrument	community data system	virtual learning community & virtual community of practice
co-creating across distance	infrastructure	open community contribution system	distributed research centre

### questions

How to collect letters: digitazation and crowdsourcing

How to store information: images of manuscripts and printed books, transcribed text

How to share information in a distributed model

How to code, transcribe, annotate and edit letters

How to analyze and visualize metadata and data (semi) automatically (topic modeling, ocr,, NLP)

How to create user interfaces

How to test the quality of meta(data) analysis

How to test user interfaces to repositiories, digital editions, mining &topic modeling tools

How to connect to other infrastructures and VRE's (CLARIN, DariaH, ClariaH, Europeana etc.)



## Monday 23rd March -WG 3: Texts and Topics

Speaker	Time	Topic
Charles van den Heuvel	08:45-09:00	Introduction
Pip Wilcox	09:00-09:15	Coding Text
Neil Jefferies	09:15-09:30	Digital Text editions/Shared Canvas
Stefan Trausan-Matu	09:30-09:45	Natural Language Processing Topic Modeling
Charles van den Heuvel	09:45-10:00	ePistolarium
Otfried Czaika	10:00-10:15	From Digital to Print
Gertjan Filarski	10:15-10:30	Virtual Research Environments
	10:30-10:45	General discussion



# Thank You

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