Visualizing Prosopographical Data based on Correspondences

Next steps towards releasing the data model

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Research Support
IT Services
Live Data Project

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Project Manager: Martin Hadley

Project Sponsor: Howard Noble

Funder: Research IT Board

Goal:

*Provide support and advice to researchers in creating interactive visualisations of their research data to bridge the "data gap"*
Live Data Case Studies

Build a portfolio of research data visualisations to demonstrate what’s possible.

Understand the needs of researchers for designing a future visualisation service for all researchers.

Create how-to-guides and boilerplate visualisation templates for researchers at Oxford.

- Incestuous Advisor Relationships in Primatology Thesis Defenses
- Visualizing Prosopographical Data Based on Correspondences
- German Migrant’s Attitudes to Race in the Americas During the 19th Century
- Visualising Cancer Researcher Collaborations at Oxford
- Correlations Between Violence and Cooperative behaviour in Video Games
- Video Game Marketplace Pricing Strategies
EMLO Case Study

Primary Contact: Arno Bosse

Initial Data: 10 .xlsx files

Unique Individuals: 1667

Unique Life Events: 814

Multiparty Interactions: 555
EMLO Research Questions

- Visualising the prosopographical data of individuals in EMLO as a function of their connection to others in the network
- Was Hartlib’s network centered on him or were there subgroups with their own centres that were the contact persons with Hartlib?
- Did Hartlib’s network only increase over time or did its composition substantially change?

Shiny

- Shiny depends only on a knowledge of R - well represented in the Digital Humanities
- Allows for the creation of interactive network/graph visualisations
- Easily embed interactive content into EMLO and other web pages
- Free tiers available and paid tiers provided by the Live Data Project
Interactive EMLO Network Visualisation

Development Time: ~4 days

Current Version: v0.9

Current Features:

- View prosopographical info directly from a network visualisation
- Highlight/exclude relationships based on EMLO categories
- Visualise the subgraph of any two individuals from the network

https://livedataoxford.shinyapps.io/emlo-test/
Interactive EMLO Network Visualisation Demo
## Remaining Features and Questions

<table>
<thead>
<tr>
<th>EMLO Community and Working Group</th>
<th>Live Data Developer</th>
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<tbody>
<tr>
<td>How will researchers want to engage with EMLO data through an interactive network?</td>
<td>Allow users to search for an individual in the network and highlight the respective node</td>
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<td>What are the sensible defaults for the network visualisations?</td>
<td>Provide links to EMLO resources, where possible, within the Shiny app</td>
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<td>Where should the tool live within the EMLO website?</td>
<td>Bipartite graph of locations and individuals</td>
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<td>Replace <em>lorem ipsum</em> with appropriate descriptive text</td>
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NAs must be codified - particularly with respect to “DateTwo”...