JRC Scientific Library and Carlo Ferigato in 2009
Role of Thesauri in a Scientific Organisation (Ferigato, Merlo, Panfili, and Rodighiero 2008)
Mapping for Multi-Source Visualization: Scientific Information Retrieval Service (Rodighiero, Matina, and Gusmini 2009)
Visualizing Using Lists
“the [...] **list** can be exemplified [...] **by a library catalogue** [...] and even **by a dictionary** that records all the words in the lexicon of a given language.”
“the archive, as distinct form of collection or library, constitutes a repository or ordered system of documents and records, both verbal and visual [...]”

The Infinity of the Lists (Umberto Eco 2009, 10)
The Golden Stairs, Tate Gallery, London (Edward Burne-Jones 1880)
1 Principle of Later in Time
2 Principle of Later in Evolution
3 Principle of Spatial Contiguity
4 Principle of Quantitative measure
5 Principle of Increasing Complexity
6 Principle of Canonical Sequence
7 Principle of Literary Warrant
8 Principle of Alphabetical Sequence

Prolegomena to Library Classification (Shiyali R. Ranganathan 1937)
2 COLLECTING DOCUMENTS FOR THE INQUIRY

A somewhat peculiar [NET-PRE] crossing,

1. The [NET-PRE] crossing is rather special, since it is the one that authorizes the entire inquiry. From the standpoint of descriptions of the [NET] type, all the networks resemble one another (this is even what allows our investigator to go around freely, having extricated herself from the notion of domain), but in this case the PREPOSITIONS remain totally invisible except in the form of mild remorse (the investigator has a general feeling that her descriptions fail to capture something that seems essential in the eyes of her informants). Conversely, in an exploration of the [PRE] type, networks [NET] are now only one type of trajectory among others, while the modes have become incompatible, even though their felicity conditions can be compared for each pair, but only from the standpoint of [PRE],

which raises a problem of compatibility with the actor-network theory.

Recapitulation of the conditions for the inquiry.

What is rational is what follows the threads of the various reasons.

3 A PERILOUS CHANGE OF CORRESPONDENCE

4 LEARNING TO MAKE ROOM
Though a glimpse inside Troy is provided when Hector enters the city (Bk. 6), no urban topography becomes apparent. The city displays some schematic features like palaces, temples, etc. What is more important is the city's boundary to the outside, represented by the Scaean gates where several key scenes of the epic take place. The gates have a symbolic function: they establish a borderline between an outside area where heroes like Hector can gain fame (Horn. II. 844–868, μη γὰρ ἄνδρος...), but also risk their lives, and an inside area which represents the world of families where women like Hector's wife Andromache can find (alleged) safety. This safety is guaranteed as long as the city walls are standing. Two references name the building of the city walls, naming Poseidon with Apollo (7.462–3) or Poseidon alone (21.446–9). [43] Cf. Tsagalis (2012) 137 for some further instances. [44] Cf. Anderson (1976) 15–37, esp. 16–17 and 21–4 (37–52 on the Odyssey's settings/scene, esp. 39). [45] The teichoskopia (Bk. 3), the meeting of Hector's family (Bk. 6), and his fight and death by Achilles (Bk. 22). [46] Cf. Stoeweser (2008) ad loc. on the 'heroic code' for fighters in the Iliad, Tsagalis (2012) 136 for the function of the walls in Bk. 22 as a 'spatial epitome' of the whole epic. [47] Cf. Bachvarova (2016) 57–60.
Visualizing Using Networks
<table>
<thead>
<tr>
<th></th>
<th>List</th>
<th>Network</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimension</strong></td>
<td>One</td>
<td>Two</td>
</tr>
<tr>
<td><strong>Max Connections</strong></td>
<td>Two</td>
<td>Infinite</td>
</tr>
<tr>
<td><strong>Metrics</strong></td>
<td>Order</td>
<td>Distance / Proximity</td>
</tr>
<tr>
<td><strong>Polarity</strong></td>
<td>Vertical / Horizontal</td>
<td>Absent</td>
</tr>
</tbody>
</table>
Example of Networks
Mapping Affinities (Dario Rodighiero, 2018)
Mapping Affinities (Dario Rodighiero, 2018)
Mapping Affinities (Dario Rodighiero, 2018)
Mapping Affinities (Dario Rodighiero, 2018)
Network Visualization for Document Retrieval
Network visualization of 400 publications
“In information retrieval, tf–idf or TFIDF, short for term frequency–inverse document frequency, is a numerical statistic that is intended to reflect how important a word is to a document in a collection or corpus.”

— Wikipedia 2018
Network visualization of 400 publications
Network visualization of 400 publications
Network visualization of 400 publications
Conclusions

The general idea is to create a network that is able to semantically fill the gap between nodes that is usually unemployed.

Through terms we can create a semantic background that uses semantic information to describe the context of each node.

This information is complementary to the visual network language that is based on points and lines.
Next steps

Improve the quality of terms by using **N-grams** and a **controlled vocabulary** (Wikipedia).

Improve the interaction by using a **filter** function.

Visualize more terms for each proximity.

Test the visualization with more publications.
Thanks

https://dariorodighiero.com