LINKED DATA AS METHOD

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DATA PIPELINE

Method

Data source(s)

Data storage

Data analysis
LINKED DATA

– The publishing of structured data;
– Inherently relational.
– The case of periodicals:
AN ONTOLOGY

- Linkable through a the use of a computer ontology - formal way to describe taxonomies and classification of relations:

1) Jane Smith contribute to Der Bazar located in London
   Person relation Periodical relation place
   a contribution of Dress Pattern #300
   relation item/work
   in 1868 attached text.

2) Unnamed contribute to Lady’s Treasury located in London
   Person relation Periodical relation place
   a contribution of Dress Pattern #300
   relation item/work
   in 1869.
LINKED DATA

- Efficiently and automatically link data through these markers
  - both within our own datasets and
  - With data that may be distributed;
- Develop specific (SPARQL) queries;
  - To create specific subcopora.
LINKED DATA

– Lends
  – to research questions that are relational in nature.
  – And methods that explore patterns in relations.

– > network perspective (Groth & Gil 2011)

http://www.wechanged.ugent.be/blog/organizing-the-dots/
PEOPLE + BIRTH/DEATH LOCATION + PERIODICALS
METHOD: THE BACK AND FORTH

Which lens – sets of objects, we should consider is research question dependent.
INFORMED ASSUMPTION, FROM PREVIOUS RESEARCH

ONE-MODE PROJECT OF PERIODICALS, INFERRED THROUGH SHARED/COPIED ITEMS
CENTRALITY, LARGEST SHARE OF CO-OCCURRING ITEMS

Diagram showing a network of nodes representing various journals and publications.
LINKED DATA AS METHOD

- Part data publication/store;
- Part data source;
- Efficiently be queried through automatic techniques.
- Captures the inherent relations between objects;
  - Lends to network methods that explore patterns of relations.
- It is method.
DISCUSSION

- Limitations
  - what is archived and retrievable (e.g. OCR, metadata storage and hand input) which subject to the same as any other study;
  - as a network we have computational tools that can aid in suggesting the reliability of the data.
  - Validity of decisions used to informed this “back and forth” data selection to project relations.
METHOD: THE BACK AND FORTH

Data

source(s)

Data

storage

Data

analysis
CONCLUSION

- Linked Data affords both new insights into the relationships
  - Which generates complementary knowledge about relational phenomena, as well as
  - New insights and research questions.
- Maximize the future use of your data by publishing it as Linked Data.
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