

A KNOWLEDGE BASE OF CHARTERS FOR GENERATING NETWORKS

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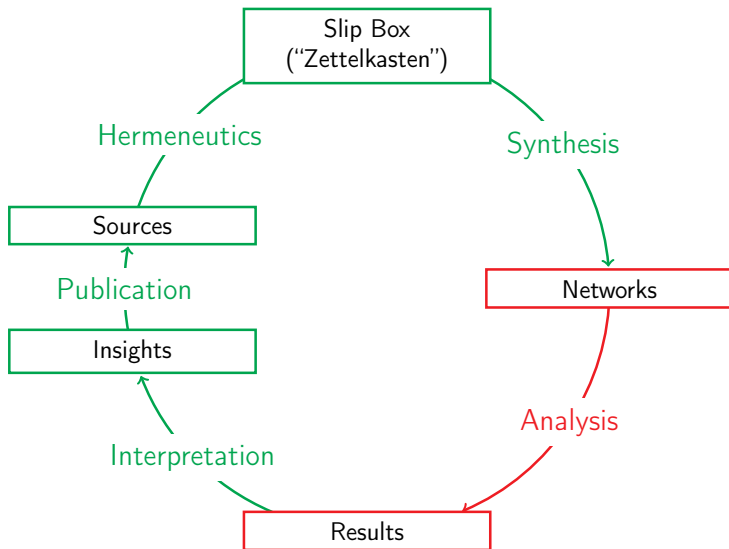
Digital Humanities meet Computer Science
Jena, 31.08.2018



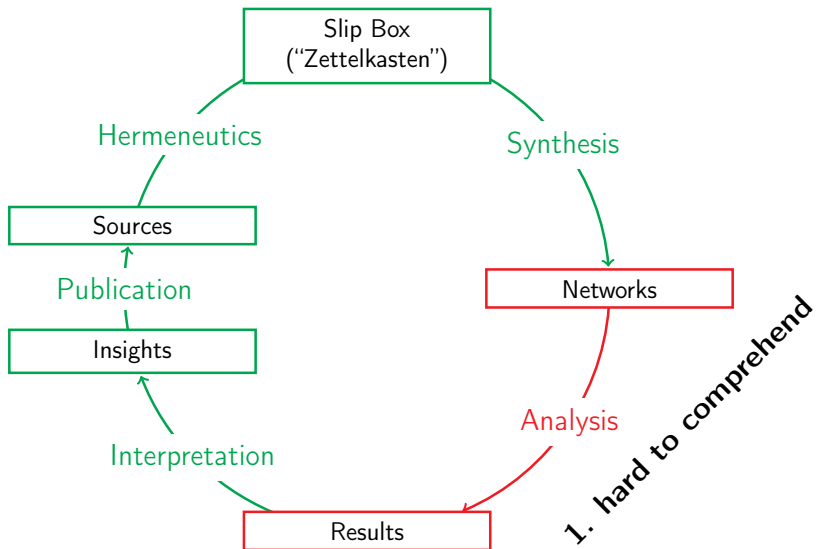
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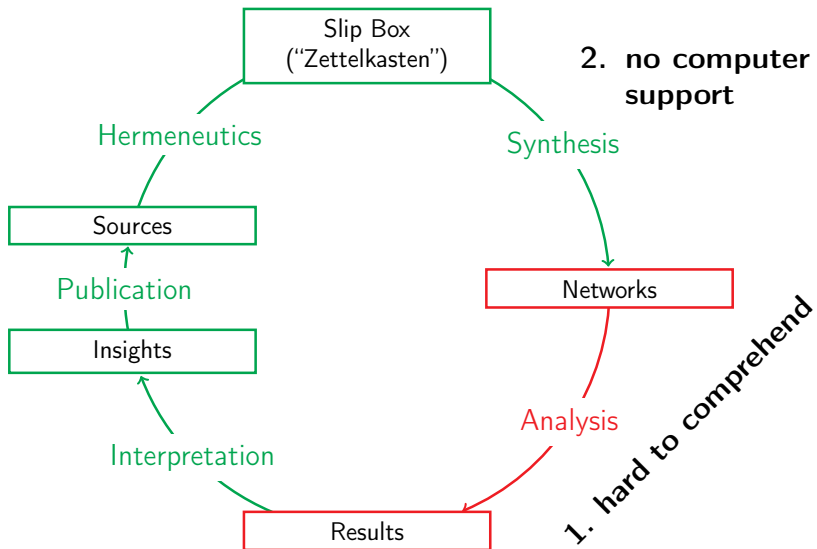
HISTORICAL NETWORK RESEARCH



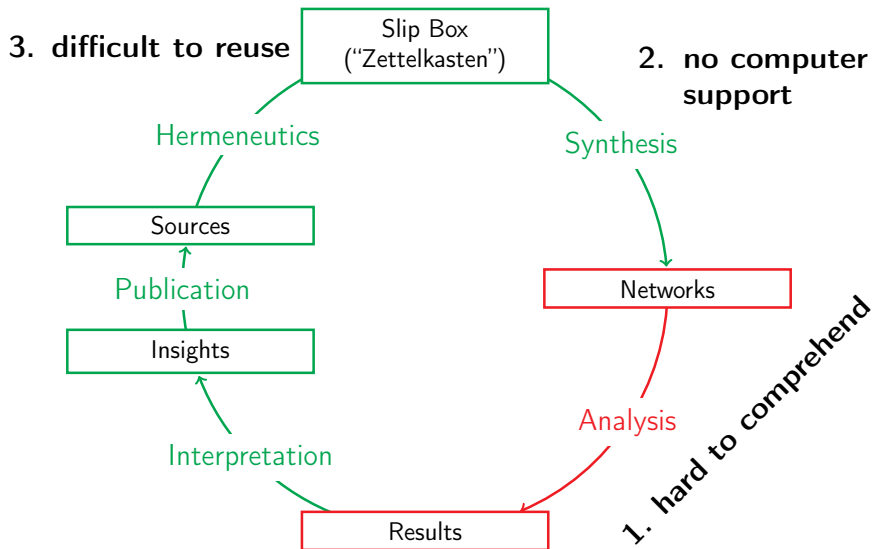
HISTORICAL NETWORK RESEARCH



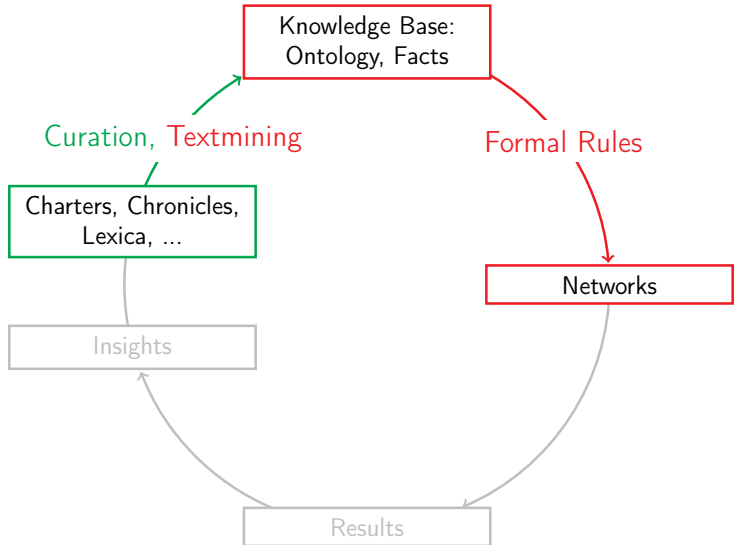
HISTORICAL NETWORK RESEARCH



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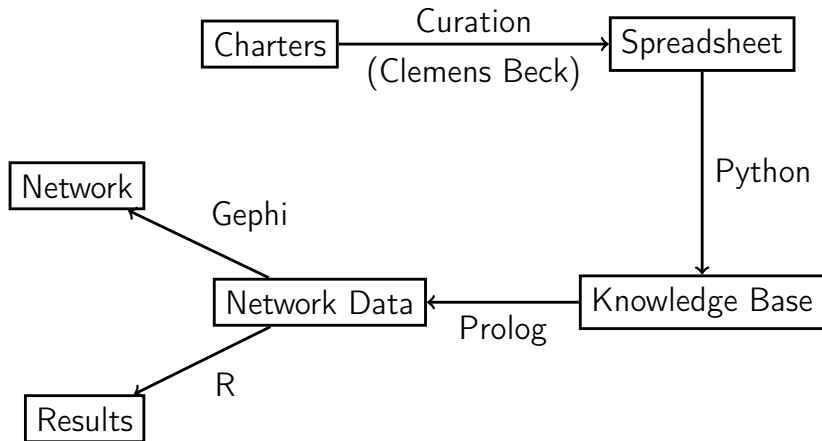


RULE-BASED GENERATION OF NETWORKS



PROOF OF CONCEPT

NETWORKS FROM CHARTERS OF THE HOLY ROMAN EMPIRE
IN THE REIGN OF LATE FREDERICK I. AND HENRY VI. (1163-1198)



CURRENT STATE OF KNOWLEDGE BASE

- 990 persons
- 2068 charters
- 11335 relations
 - 2030 issuer (98 % of charters)
 - 504 recipient (24 % of charters)
 - 238 intervener (12 % of charters)
 - 8563 witness (4 per charter on average)

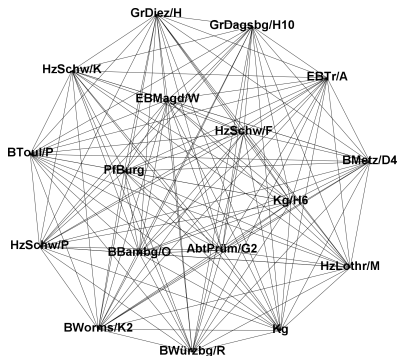
Rank "Ontology"

- 12 ranks from **Kaiser** (*imperator*) to **Vogt** (*advocatus*)
- hierarchy: superior relations

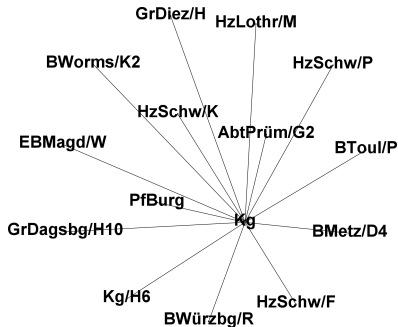
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superior('Erzbischof', 'Bischof').
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GENERATED NETWORKS

FOR SINGLE CHARTER DF.I. 621



co-certification



loyalty

visualised with Gephi