

Data-Intensive Digital Humanities

Prof. Mikko Laitinen (English linguistics)

Associate Prof. Koraljka Golub (Library and information science)

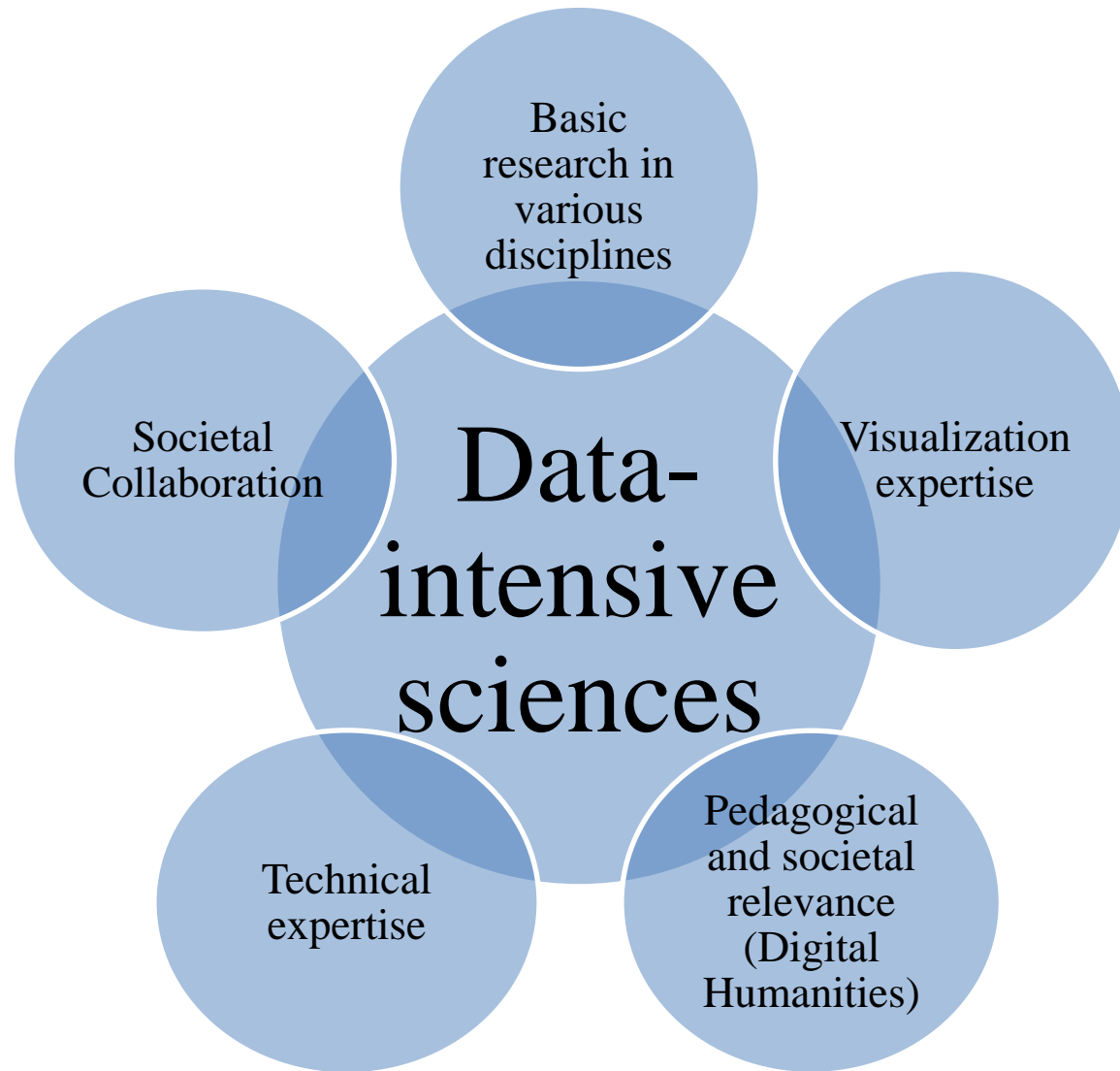


What is digital humanities?

- The application and use of new computational tools and systems for research in humanities and social sciences
 - Sociology
 - Social psychology
 - Linguistics
 - Political science
 - Etc.
- We make use of new state-of-the-art computational methods and digital technologies for collecting, managing, analyzing and mining data



Data-intensive digital humanities



Basic research

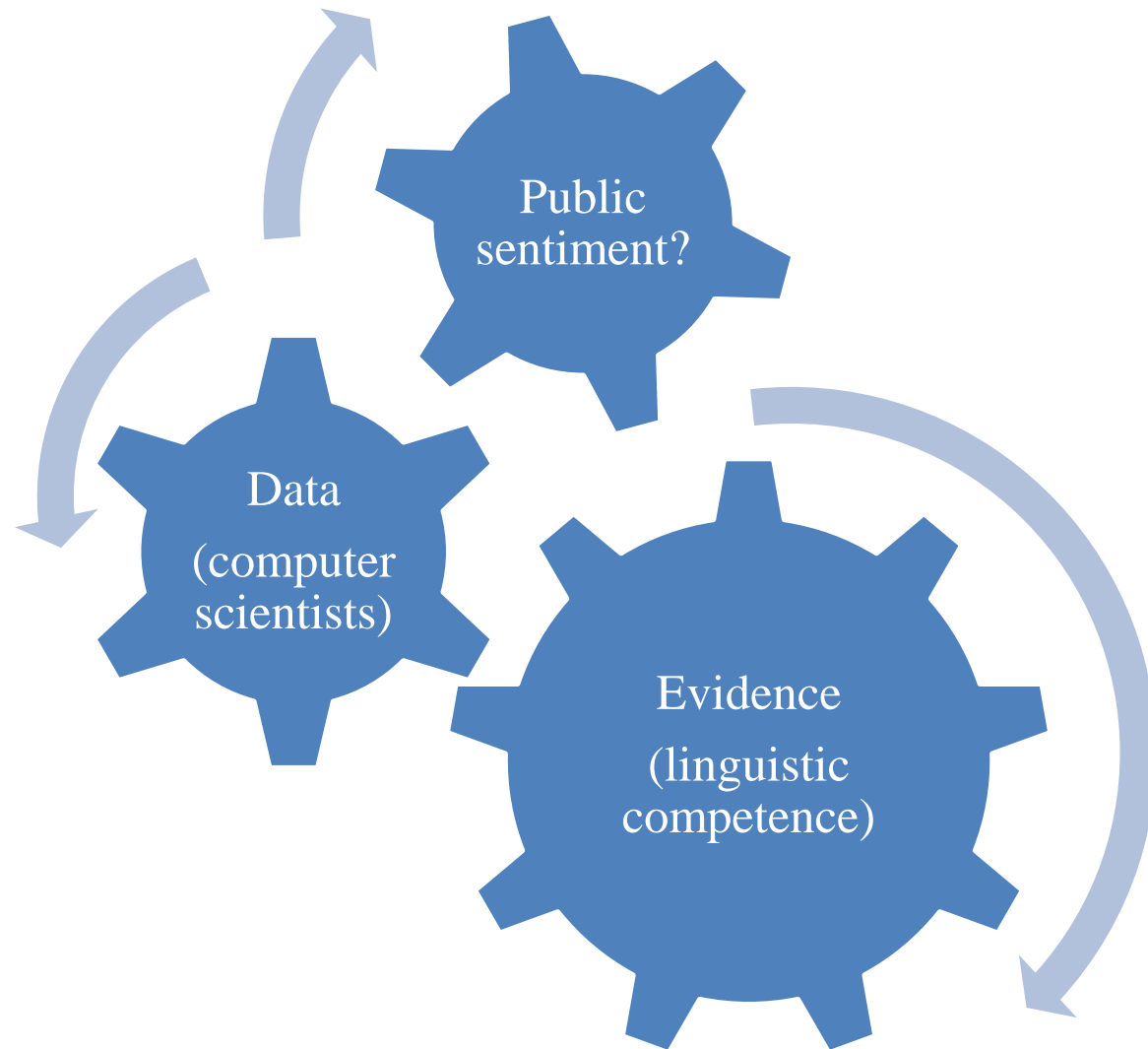


Big language data



- What if we could...
- Analyze for instance what people in Sweden talk about in public?
- Strict ethical guidelines: focus on macro-level patterns – not individuals
- Exploring the relationship between language and thought – public sentiment, consumer trends
- Text and data mining tools to analyze big and complex data sets





Big language data



- The Nordic Twitter Stream initiative
- A robot to monitor geocoded Tweet stream in five Nordic countries
- Real-time window to the world
- User-generated content – what do we talk about on a really big scale?
- A consortium of linguists and computer scientists
- NTS some statistics
 - Tweet Count (last Thu): 7,827,042
 - C. 75 million words
 - Tweets from 202,097 users
 - Metadata points: nearly half a billion
 - Adding daily



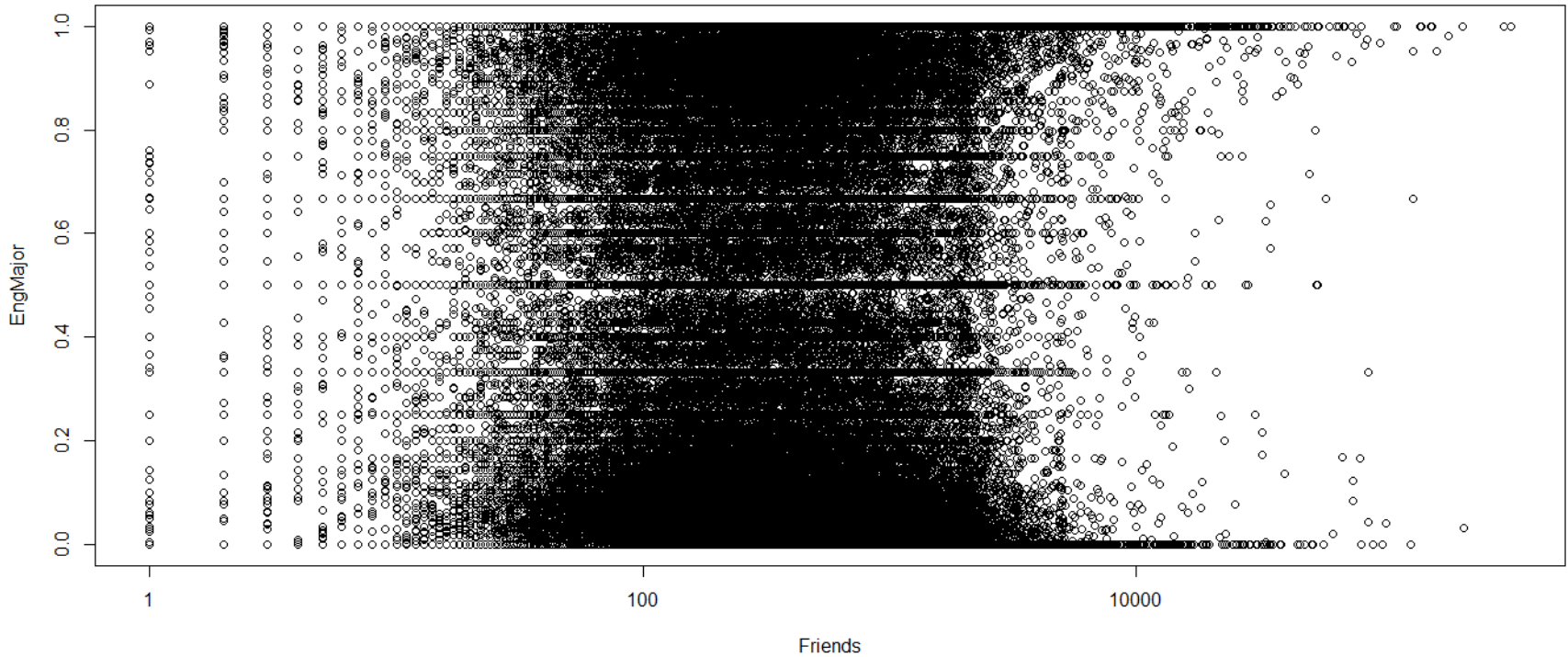
Moving beyond public sentiment

- Making use of big and rich language data
- Who are those individuals who act as “bridges”, who are the early adopters of an innovation?
 - Very early stages – visualization expertise needed
 - A massive and rich dataset



Some findings

Scatterplot_accounts



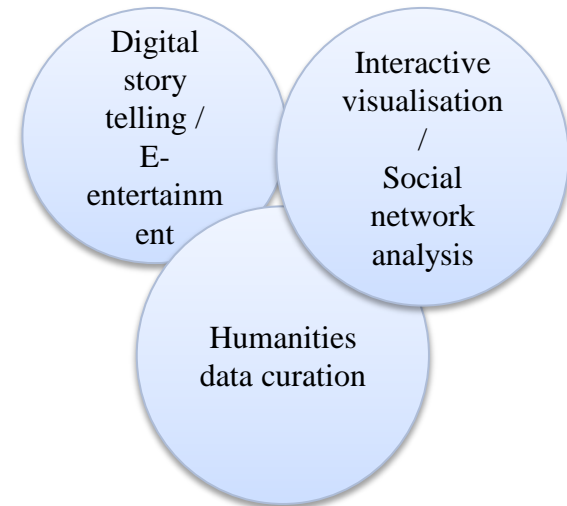
Pedagogic and societal relevance





Stage 1: 2016

- Strategy creation
- Dissemination / networking
- A Master proposal submitted to FKH Education Board
- 8 [pilot projects](#)
- Two proposals funded





...Stage 1: Pilot project examples

- PEAR: Augmented Reality for Public Engagement (Växjö Kommun, Media Technology Department) 
- Digital story telling (Smålands Musikarkiv, Det fria ordets hus, Media Technology Department)
- Data curation needs and use cases
 - Växjö Kommun, Cultural Sciences Department
 - LNU Library, Lund University Library, Cultural Sciences Department
- More at <https://mymoodle.lnu.se/mod/page/view.php?id=1019419>





Engaging companies

- OnSpotStory, Stockholm: Erasmus+
 - GLAM collaboration



- Exploring collaboration with companies working with the GLAM sector
 - In IEC
 - Involved in LNU's current projects
 - Archeology
 - Marketing





Planning for the future

- **Long-term vision:**
 - Create a leading **education, development and research** regional centre
 - **Co-creation** with public and private sector from the surrounding society
 - **Addressing future societal challenges** by highly skilled professionals (whose education has been markedly **practice-informed education**) and joint, **cross-sector innovation**
 - **DARIAH-EU Nordic Hub** collaboration on research and education
- **Strategic values to be developed:**
 - Uniting and consolidating the expertise we already have to create **new constellations** for collaboration leading to new knowledge and products (**expertise, education, research, public and commercial services** relevant for the region), resulting in a **return on investment**
 - A **(re)-affirmation** of the value of humanities in particular, and academic practices in general



New projects

- Developing attractive information landscapes for the mapping of cultural events using web technologies
 - Nya Småland
- LNU as a unique iSchool

