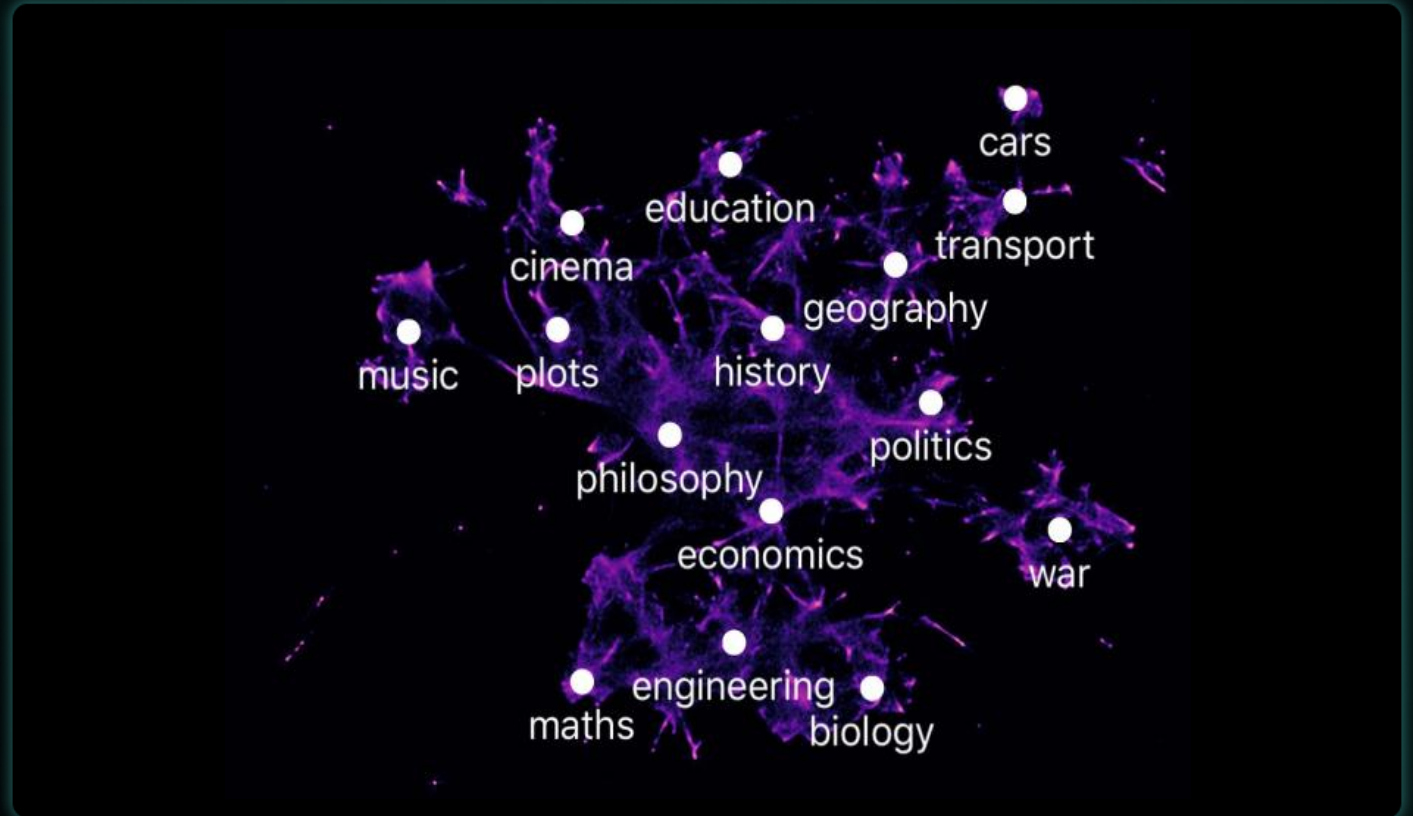# silk data

machine learning
excellence delivered

Semantic Map: demo

Goal: analysis of a large number of unstructured documents

The Semantic Map is a powerful tool for analyzing collections of texts: it provides text classification, reveals the most important topics discussed in texts, helps to identify relationships between documents, and assists in discovering the most important keywords for topics. It can be created for any collection of documents.

Technology Stack: Python, NLP, document embeddings, FastAPI, ElasticSearch, Docker, React.js, Figma

The link to our search/navigation demo: https://wikipedia2021.silkdata.ai/

Semantic Map: demo

Goal: analysis of a large number of unstructured documents

In a Semantic map each dot is a piece of text from the English Wikipedia, the red square is the topic area we have chosen. Depending on the scale and position of the square, we are offered keywords and articles related to the chosen topic.

For each topic area and dot, we show the articles from which the passage is taken, and the words semantically related to this passage.
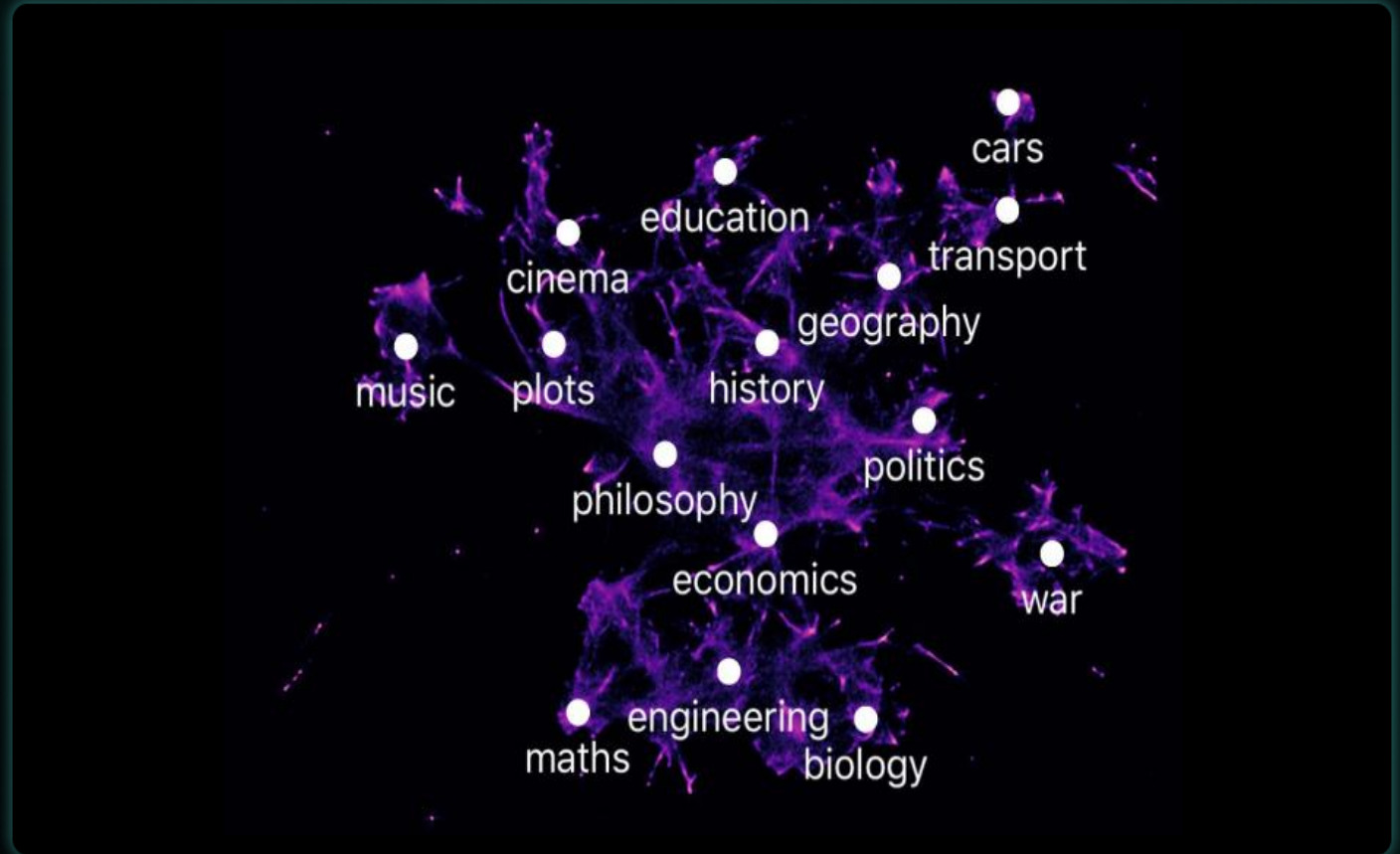
Semantic Map: demo

Industries

- corporate search (cf. <u>AI-assisted Search</u>)
- education
- publishing
- healthcare
- scientific papers

Since Semantic Map can provide additional analytics, one can improve business activity with the help of this powerful tool.
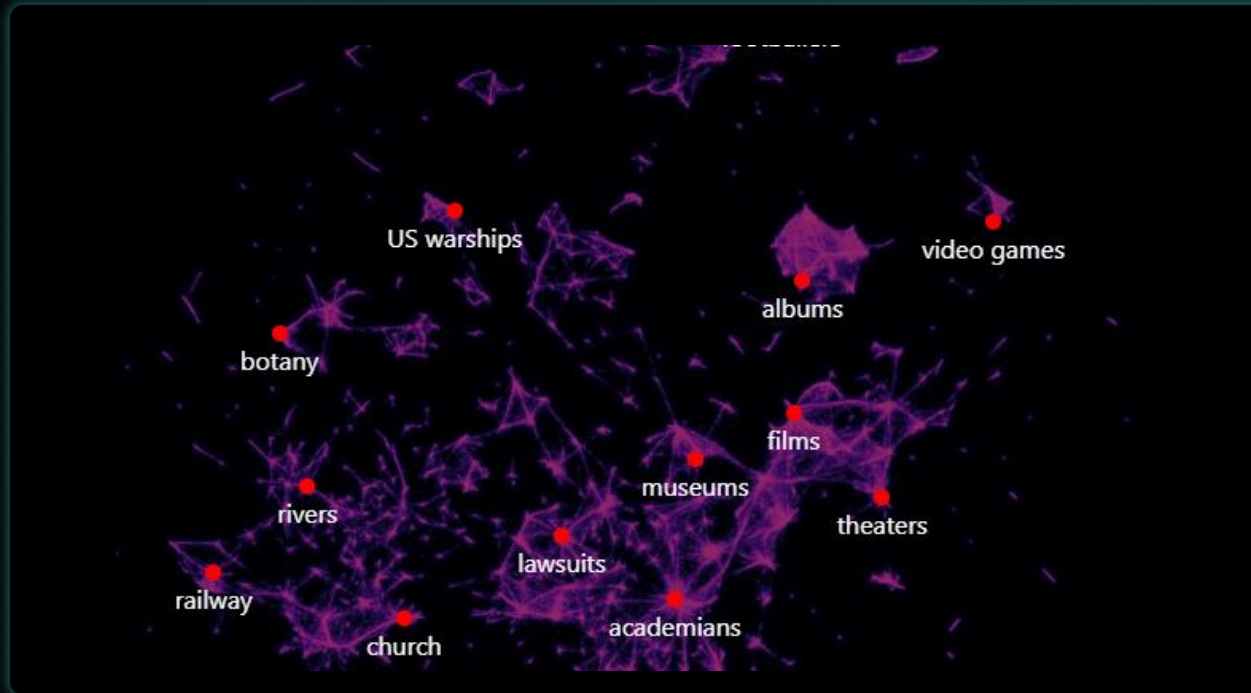Another advantage is that you can navigate between documents and distill the required knowledge really simply and quick.

The link to our search/navigation demo: <u>https://wikipedia2021.silkdata.ai/</u>

How does it work?

With the help of Machine Learning and AI-augmented search, our technology automatically identifies relations between texts, maps them to semantically related keywords and then generates a visual representation of the data.
The process is almost entirely automated, while it is necessary for a human expert to categorize generated topics, optionally naming them for easier navigation and collaboration with other team members.

The link to our document map demo: https://wikipedia2021.silkdata.ai/map/doc

Semantic Map: demo

Our experience

We have prepared a <u>demo</u> version based on the entire English Wikipedia and also tested pilot projects with Swiss and Austrian publishers. You are welcome to test our demo Semantic Map and see how different documents, topics, fragments, and keywords are semantically interconnected and co-related.

Another available <u>demo</u> is a Semantic Map of COVID-19 research papers. The goal of the COVID-19 Semantic Map is to show how experts can study academic papers by providing a navigable and structured 2-D representation of the entire collection of documents.

The link to our search/navigation demo: <u>https://wikipedia2021.silkdata.ai/</u>

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