



Swiss News Viz Media Lab – Project Completion

DSI Infrastructures & Labs

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Project overview

With the Swiss News Viz Media Lab (SNVML) we propose an infrastructure that aims to provide expert tools and methods from the analysis of Swiss news articles in the form of a publicly accessible platform for both research and teaching purposes.

The infrastructure is supported by the UpLORD (Upgrading the linguistic ORD-ecosystem) project and collaborates closely with LIRI (Linguistic Research Infrastructure) for the development of the necessary tools and pipelines.

SNVML offers users to query SwissDox in [LCP](#) for documents and then to export the resulting corpus directly to [Swiss News Viz Media Lab](#), where the following content analysis tools have been implemented:

- exploration
- word frequencies
- collocation analysis
- keyword analysis
- correspondence analysis
- topic modelling
- sentiment analysis

A tutorial with a case study is available on the website, so that users can explore the functions and learn to use them for their specific research questions.

Project achievements

The infrastructure reached several milestones which aim to give researchers access to a combination of different features through an online platform including:

- the direct import of Swiss newspaper articles from LCP to SNVML
- the use of analytical tools and pipelines for content and statistical analysis:
 - exploration
 - word frequencies
 - collocation analysis
 - keyword analysis
 - correspondence analysis
 - topic modelling
 - sentiment analysis
- the adaptation of these tools to their own research directly on the platform
- the possibility to export findings in the form of reports, visualizations, and databases
- a tutorial with a case study demonstrates these functions

The infrastructure aims to develop collaborations related to the elaboration of expert content analysis tools, data integration, facilities for additional features, as well as research replicability and archiving. Furthermore, it also focuses on building robust practices in data curation and integration, as well as documenting and promoting best practices on open data and reproducibility goals in the context of teaching, research and publishing.

The developed infrastructure will also be used in the context of further developments of LCP and Swiss News Viz Media Lab.

Going beyond the originally planned project, we started experiments on a SwissDox RAG system.

Future

SNVML benefits from the expertise of the LCP@LiRI (Linguistic Corpus Platform) team as a service for the hosting of complex linguistic annotated data allowing refined search and quantitative analyses.

Future LCP publications will feature Swiss News Viz Media Lab as a part of the LCP functions. We currently have several projects using RAG technology, on several domains, including education, religion, health and medicine. We have started a prototype using the SwissDox data, and we aim to develop it further, and integrate it into Swiss News Viz Media Lab.