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# Natural Language Processing

The Natural Language Processing Group (NLP) continues the services of the Text Crunching Centre (TCC).

## Services of the NLP Group

If any of the following applies to you, you are in the right place:

- As a researcher, do you want to base your empirical findings on linguistic data such as text collections or voice recordings?
- Does your company need help in collecting, managing, processing, or visualising linguistic data?
- Do you want to automate tedious manual tasks?
- Do you intend to make your documents machine-readable?
- Do you want to detect historical trends, political leanings, and personal stance?
- Do you have an interesting application in mind which is built on text or recordings or eye-tracking data?
- Does you want to use semantic analysis methods like collocations, word embedding and Neural Networks?
- Do you want to get started implementing language technology solutions yourself?
- Do you have historical documents that you are looking to digitalize?

If you need help with the technological side of things, we are here for you!

The [Language Technology](#) group consists of experts who support your text and voice technology needs.

- Text Analytics & Data Mining
- Content Analysis
- Information Retrieval & Extraction
- Part-of-speech tagging, syntactic parsing, semantic tagging
- Sentiment Detection
- Creation and adaption of language models
- Data Classification
- Machine Learning (including Neural Networks & Deep Learning)
- Machine Translation
- Statistical Data Processing
- Audio signal processing (e.g. for human speech or animal vocalizations)
- Speech Recognition and Synthesis
- Data conversion

We offer consulting, coaching, and support in the following scenarios (among others):

- Digitalization of printed texts and manuscripts including OCR
- Efficient information extraction and analysis of large text collections
- Enrichment of texts with named entities, sentiment analysis, topic modeling, and classification, including multilingual and historical texts

- Advice on tools, software, and best practices
- Help with project applications and common projects

## Teasers from our Research

### Coaching and Teaching

Example from a Worskshop, teaching Content Analysis with R



### Semantic Analysis

Example of a Result: Conceptual Map of Associations to Wine, Cider and Beer



### Stylistics

Characterisation of the Language of Donald Trump



<https://www.blick.ch/news/linguistik-trumps-sprache-einfach-sprunghaft-und-emotional-id16163332.html>

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