



IMPROVING UPTAKE OF TEXT AND DATA MINING IN THE EU

Facts

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ContentMine Zika Tutorial

This tutorial introduces researchers and others interested in the Zika virus to basic and advanced text and data mining methods with the ContentMine toolchain.

Why?

Pandemics are a very important and critical field of research, where fast and open access to the scientific knowledge is a matter of life and death. In crisis situations, where every hour matters, openly available software and publications lowers the barrier for collaboration and contribution. This is especially crucial for poorer countries, who are often the ones affected by diseases. This tutorial will help researchers in the field of the Zika virus to get an overview of the research and to dive deeper into it. This can also be seen as a general introduction into pandemics, because it is easy to adapt to other similar cases.

How?

The Open Source software from ContentMine will be used to apply exploratory text and data mining techniques to the Open Access content of Europe PMC. After downloading all relevant publications from the EPMC API, the data is processed so it is

ContentMine



usable for text mining, annotation and further analysis. The ContentMine software extracts facts from the publications, automatically adds metadata from established authorities, especially through Wikidata. Everything worked out can be found at <https://github.com/ContentMine/FutureTDM>

Who?

This tutorial has been developed by the ContentMine team as a partner of the FutureTDM project. The project is supported by the Shuttleworth Foundation through the fellowship of Peter Murray-Rust.

ContentMine Ltd (<http://contentmine.org/>) is a UK non-profit organisation.

Setup

You can use the ContentMine software through our virtual machine image or install the software parts separately. Additionally a Jupyter installation is needed.



