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Data mining, visualisation and publishing of Atlas of Nordic Dialects

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Abstract. This paper presents an customized implementation of the QVIZ-browser to support a multitude of research question towards a structured dataset of Nordic dialects, DIABAS. This is enabled by so called facetted browsing of the relational database structure. Faceted browsing allows the creation of unpredictable arrangements of search criteria by the user. The system has been customized to support this rather new explorative mode of data mining combined with tools to make working map for future publication. The combination of data mining and creation of visual map enables the research to be using the system for analysis as well as providing content for planned publication Språkatlas (Founded by KGAA)

The paper will mainly describe how the tool has been used to prepare the publication and how it has been used by the involved researchers with examples of research questions. The analysis of design and its usage will combine knowledge from the research area of Nordic Dialects as well as expertise of the query building mechanism involved under the hood of the system.

In the paper the collaborative work will be described where special focus is on the translations process between the properties of the content, the research questions foreseen and the potentials and problems with the tools being used.

Keywords: Data mining, Nordic dialects Dynamic query building, facetted browsing, multidimensional exploration.

References:


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