

# **Problem of catalog objectives in digital environment: development and trends in building library catalogs from the bibliographic point of view**

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## **Abstract**

The aim of the thesis is to explore current trends in building library catalogs from the bibliographic point of view. It focuses on formulation and exploration of trends in bibliography which may influence the library catalogs in near future. The introductory part defines several basic terms. It deals with the catalog objectives and methodological and technological questions in brief. Larger chapters describe the conceptual models FRBR, FRAD and FRSAD and studies which bring these models. These studies show a new view on objectives of bibliographic and authority records, therefore on library catalogs objectives too. This part is closed by an own analysis of these models, their comparison with the object-oriented model FRBROO including a proposal of FRAD's and FRSAD's implementation into an object-oriented form. Next chapters focus on the relation of bibliography and semantic web and especially on questions connected with a change of bibliographic paradigm and paradigm of the bibliographic control which are to occur with new semantic web technologies. The semantic web can enable new contexts of using of bibliographic data and therefore shift their objectives too. Because the catalog is a place where the bibliographic methods meet user behaviour, in the last part a research into user behaviour in two Czech library catalogs has been accomplished. The aim of this small probe is to show the usage of these catalogs and to verify the transactional log analysis method in the Czech environment. Results were compared with new similar studies from abroad and a proposal for bibliographic records improving has been drafted according to user behaviour in catalogues.

Keywords: bibliography, library catalogs, conceptual models, transactional log analysis, semantic web