

Advances in Classification Research Online 2013 Classification, Ontology, and the Semantic Web

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ABSTRACT

The Semantic Web is developing slowly, but arguably surely. Two inter-related sources of delay are network effects and ontologies. The Semantic Web has come over time to rely on formal ontologies but there are many of these and they are each hard to master. The ability to link databases is compromised by the use of incompatible ontologies. But the RDF triplet format at the centre of the Semantic Web insists only on triplets of the form (object)(predicate or property)(subject). This paper explores the potential for a classification system that contains these three types of hierarchies (things, predicates, properties), plus a minimal set of rules on how they can be combined, to serve the needs of the Semantic Web. To this end, it surveys the roles (both the intended roles and side-effects) that formal ontologies play within the Semantic Web. The paper also briefly reviews the challenges faced in applying existing classification systems or thesauri to the Semantic Web.

Keywords

Classification, ontology, semantic web, RDF triplets, basic concepts.

INTRODUCTION

This may be a moment in time – much like the late nineteenth century – when approaches to classification are developed for a particular environment but have long-lasting impacts. Work on the Semantic Web has been dominated by IT professionals. Yet there appears to be an important role for input from experts on classification *at precisely this point in time* to ensure that the Semantic Web evolves in a

manner that reflects our understanding of how best to classify. Classifications developed for the Semantic Web are likely to have a pervasive influence in the future, even in areas dominated at present by information scientists.

We should in particular want the Semantic Web to be open to diversity of all sorts. The web-of-relations approach advocated by Olson (2007) in the interests of social diversity involves fortuitously precisely the components that we shall find necessary for the Semantic Web (Szostak 2013a). The purpose of the Semantic Web, after all, is to find new connections.

The paper begins by discussing the RDF triplets that lie at the heart of the Semantic Web. It is argued that these are best facilitated by a particular approach to classification. The next section reviews the roles that ontologies must play on the Semantic Web, and argues that these might be accomplished by adding some straightforward syntactic rules to the sort of classification recommended in the first section. The third section briefly reviews some of the problems associated with ontology at present, and notes that these would be obviated by the approach recommended here. A brief concluding section follows.

RDF TRIPLETS ARE THE KEY

The purpose of the Semantic Web is to allow computers to make connections across different databases. If one website says that swans are black, and another that Fred is a swan, the computer can deduce that Fred is black. For this sort of computer inference to be possible, all databases need to be coded in terms of what are called RDF triplets. These take the form (object)

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