

Quit Diff

Calculating the Delta Between RDF Datasets Under Version Control

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ABSTRACT

Distributed actors working on a common RDF dataset regularly encounter the issue to compare the status of one graph with another or generally to synchronize copies of a dataset. A versioning system helps to synchronize the copies of a dataset, combined with a difference calculation system it is also possible to compare versions in a log and to determine, in which version a certain statement was introduced or removed. In this demo we present *Quit Diff*¹, a tool to compare versions of a *Git* versioned quad store, while it is also applicable to simple unversioned RDF datasets. We are following an approach to abstract from differences on a syntactical level to differences on the level of the RDF data model, while we leave further semantic interpretation on the schema and instance level to specialized applications. *Quit Diff* can generate patches in various output formats and can be directly integrated in the distributed version control system *Git* which provides a foundation for a comprehensive co-evolution work flow on RDF datasets.

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¹Code repository: <https://github.com/AKSW/QuitDiff>