Tables for OMDoc 1.6

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Abstract

We propose a semantic representation scheme for OMDoc 1.6^1

EdNote(1)

1 Introduction

Tables are an important means for presenting data as well as functional dependencies in documents. They are used in the form of ledger sheets in accounting, to report the the results of experiments in scientific documents, and

2 Analysis

3 Representation

The simplest representation for the grids underlying tables it to consider them as (partial) functions from cell names to values. This representation is

4 RelaxNG Schema

```
# A RelaxNG schema for Open Mathematical documents (OMDoc 1.6) Module DOC
# $Id: omdocTAB.rnc 8002 2008-09-07 16:20:00Z clange $
# $HeadURL: https://svn.omdoc.org/repos/omdoc/trunk/doc/blue/tables/rnc/omdocTAB.rnc $
# See the documentation and examples at http://www.omdoc.org
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default namespace omdoc = "http://omdoc.org/ns"

start = table
id.attrib = attribute xml:id {xsd:ID}
name.attrib = attribute name {xsd:string}
range.attrib = attribute range {xsd:string}
header.attrib = attribute header {xsd:string}
```

¹EDNOTE: continue

5 Caveats and Text Roadmap

This note is still in a very early stage, and is intended mainly as a vehicle or discussion between OMDoc developers. In particular, the element names provisional and will probably evolve over time. At a later and more mature stage, part of the text might go into the OMDoc specification.

6 Acknowledgements

This proposal has been greatly influenced by discussions with Andrea Kohlhase in the SACHS project at DFKI Bremen and is based on insights of our paper [KK08]

References

[KK08] Andrea Kohlhase and Michael Kohlhase. Compensating the semantic bias of spreadsheets. In Joachim Baumeister and Martin Atzmüller, editors, Wissensund Erfahrungsmanagement LWA (Lernen, Wissensentdeckung und Adaptivität) Conference Proceedings, volume 448, 2008.