

Markup of Educational Content

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Markup of Educational Content

- Explore and develop tools and methods for the creation and management of modularized and portable digital content in educational settings.
- Enable use and reuse of document content in various fields of application and for various (end-) users.
 - Fields of application: Teaching, Learning, Research publications
 - Users: Teachers in creating learning objects or collections of educational documents; Scholars / Content providers in document creation / production process
 - End users: Students or categories of students with various needs or requirements



Background

- Funded by VINNOVA
- Oct 2003 Sept 2006
- Cooperation between:
 - •CINS (Center for IT in Northern Sweden) and DNU, Umeå: http://www.snic.se/
 - Digital Literature: ILU, Uppsala University and KTH, Stockholm http://www.skeptron.ilu.uu.se/broady/dl/
 - Ekelunds Förlag: http://www.ekelunds.se/
 - The Electronic Publishing Centre at Uppsala University Library: http://publications.uu.se/epcentre/
 - Myndigheten för skolutveckling http://www.skolutveckling.se/
 - •The Royal Library: http://www.kb.se/



Original / Additional Content Markup

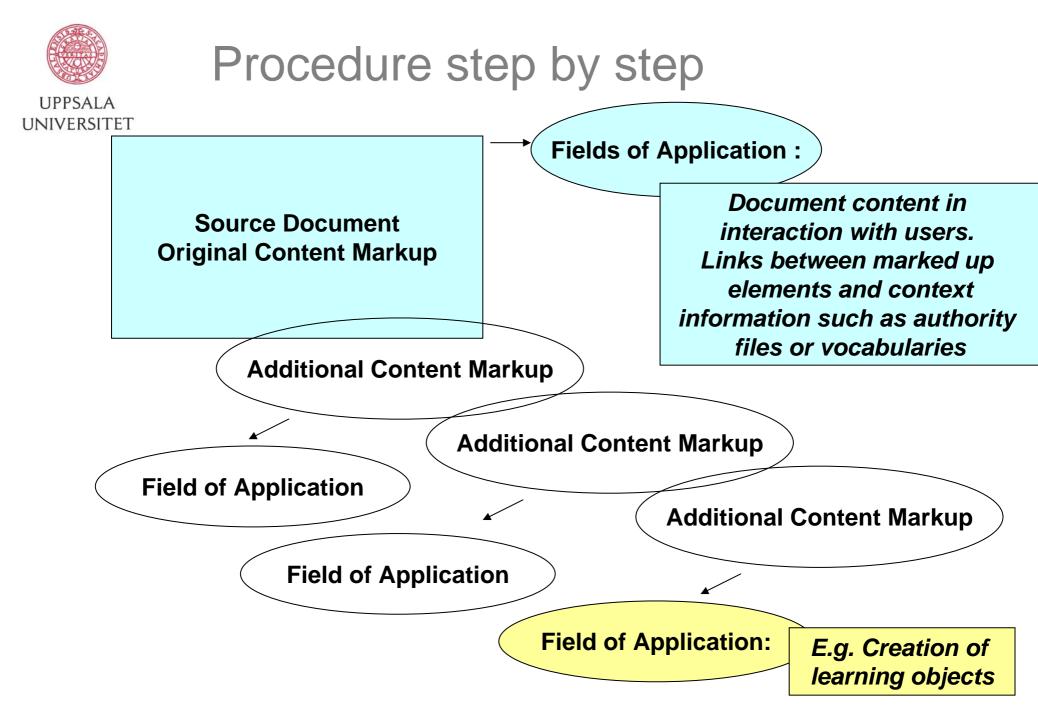
• Content Markup: Describes the content of document

A complement to structure markup

- Original Markup: Markup within the document. Created during the document creation process
- Additional Markup: Additional markup after creation process.
 Based on annotation techniques
- Original / Additional markup → Different points of view but methods are non-exclusive:

Source Document – Original Markup → Fields of application

→ Additional Markup (knowledge based, time influence) → New field of application etc.





Work Packages

- A tool and methods for original content markup
 - Electronic Publishing Centre
- A tool and methods for additional content markup
 - CINS ; DNU
- TEI based markup
 - Digital Literature



Original Content Markup of Academic Resources

- Development of a tool for basic content markup of academic resources
- Basic content:
- ✓ Proper names
- ✓ Geographical places
- \checkmark Notions of time
- Tool: module-based and user-friendly
- ...Which easily integrates into the author's natural workflow. (Integration into well known software for text editing (Office, Open Office etc.)
- ...Which supports and facilitates the work performed by the author in creating content /structure marked up text.
- The process of using data originally entered by the document author as the basis for creation and reuse of structure -marked up academic resources, is embodied in the **DiVA Publishing System.**



DiVA (Academic Archive Online) Publishing System

- The DiVA Publishing System -developed and maintained by the DiVA Project team within the Electronic Publishing Centre at Uppsala University Library.
- Structural mark-up is created by using templates for word processors. Once the document is converted from the template into XML the data can be reused, displayed and disseminated in different formats (e.g. as XHTML or PDF web pages, MARC 21 catalogue records, or Dublin Core OAI records).
- User interface in DiVA 2 (releases in fall) takes advantage of marked up structure of documents (table of contents, search, references and links to authority files).



Goals & desirables

- Integration of new tools into DiVA
 - Workflow
 - DiVA Document Format
 - Authority name files (personal names, institutional names, geographical places)
 - Dates
 - Implementation: Textbook



More information

Electronic Publishing Centre, Uppsala University Library http://publications.uu.se/epcentre/projects.xsql

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