DSpace Dev @ University of Minho

Development of tools, extensions and plug-ins for the DSpace environment

Universidade do Minho

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DSpace

- "a groundbreaking digital library system to capture, store, index, preserve, and redistribute the intellectual output of a university's research faculty in digital formats." (DSpace Federation, 2003)
- Among other features, DSpace is:
  - an **open source** software system
  - with a **simple** but **effective** software architecture,
  - using **state-of-the-art** technologies,
  - intended to be implemented in **institutional repositories** and
  - very much targeted to **open access** on scholar material.

RepositóriUM

(http://repositorium.sdum.uminho.pt)

- 1st implementation of DSpace in Portuguese
- One of the first translations and implementations in Europe
- decided in the framework of Minho University (UMinho) project e-UM – Virtual Campus
- committed to Documentation Services of Minho University (SDUM)

Papadoc

(http://papadocs.dsi.uminho.pt)

- Implemented by the Department of Information Systems for the University
- Goals:
  - Store and give access to students' assignments
    - To other students of the same year
    - To students of forthcoming years
  - Share students' assignments among teachers
- Needed to add metadata elements:
  - grade; creator.identifier; contributor.evaluator
- Other additions:
  - Controlled Vocabularies
  - Commenting plug-in
  - 3D Web of Communication

Controlled Vocabularies

- Vocabularies used:
  - ACM CCS version 1998
  - Planning to use one in the Information Systems area
- Used for:
  - Users to choose keywords to index their documents
  - Perform concept searches
- Technologies:
  - XML
  - RDF-S
- Coupling of a small search mechanism

Controlled Vocabularies

Seleccione os conceitos a pesquisar

Filtro: [   ]   Filtrar árvore...

- ACMCCS98
  - General Literature
  - Hardware
  - Computer Systems Organization
  - Software
  - Data
  - Theory of Computation
  - Mathematics of Computing
  - Information Systems
    - GENERAL
    - MODELS AND PRINCIPLES
      - General
      - Systems and Information Theory
        - General systems theory
        - Information theory
        - Value of information
      - User/Machine Systems
        - Human factors
        - Human information processing

Controlled Vocabularies

Seleccione os conceitos a pesquisar

Filtro: [information systems]   Filtrar árvore...

- ACMCCS98
  - Information Systems
    - INFORMATION SYSTEMS APPLICATIONS
    - INFORMATION INTERFACES AND PRESENTATION (e.g., HCI)
      - Multimedia Information Systems
  - Computer Applications
    - LIFE AND MEDICAL SCIENCES
      - Medical information systems
  - Computing Milieux
    - COMPUTERS AND EDUCATION
      - Computer and Information Science Education
        - Information systems education
    - MANAGEMENT OF COMPUTING AND INFORMATION SYSTEMS
      - Project and People Management
        - Strategic information systems planning

Pesquisar...

Commenting Plug-in

- Adding informal communication mechanisms
- Comments organized in a graph way
- Anonymous comments allowed
- Anonymous comments subject to prior review

Commenting Plug-in

A comentar:

      exemplo de comentário [Desmarcar]
      exemplo 1 [Desmarcar]

Autor: Ana A. Baptista
Assunto:

Comentário:
Este é um exemplo de um comentário que comenta outros dois comentários.

Submeter

Commenting Plug-in

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⊕ Por Data
⊕ Participantes

Entrar:
⊕ Subscrever
⊕ Meu Repositório
    utilizadores autorizados
⊕ Editar Conta

⊕ Ajuda
⊕ F.A.Q.
⊕ Acerca
    do Repositório

Ficheiros deste Item:

Ficheiro	Descrição	Tamanho	Formato	
mascote_papadocs.jpg		133Kb	JPEG	Ver/Abrir
mascote_papadocs-withoutsign.psd		8626Kb	Photoshop	Ver/Abrir
mascote_papadocs-withsign.psd		9076Kb	Photoshop	Ver/Abrir

Mostrar registo em formato completo

[Comentar] [Marcar] [Teia de Recursos]

Comentários:

☐ **exemplo de comentário** (2)
　　☐ **comentar comentários em grafo** (1)
　　　　📄 **comentário ao comentário agregador**
☐ **exemplo 1** (3)
　　📄 **comentário ao comentário**
　　☐ **comentar comentários em grafo** (1)
　　　　📄 **comentário ao comentário agregador**
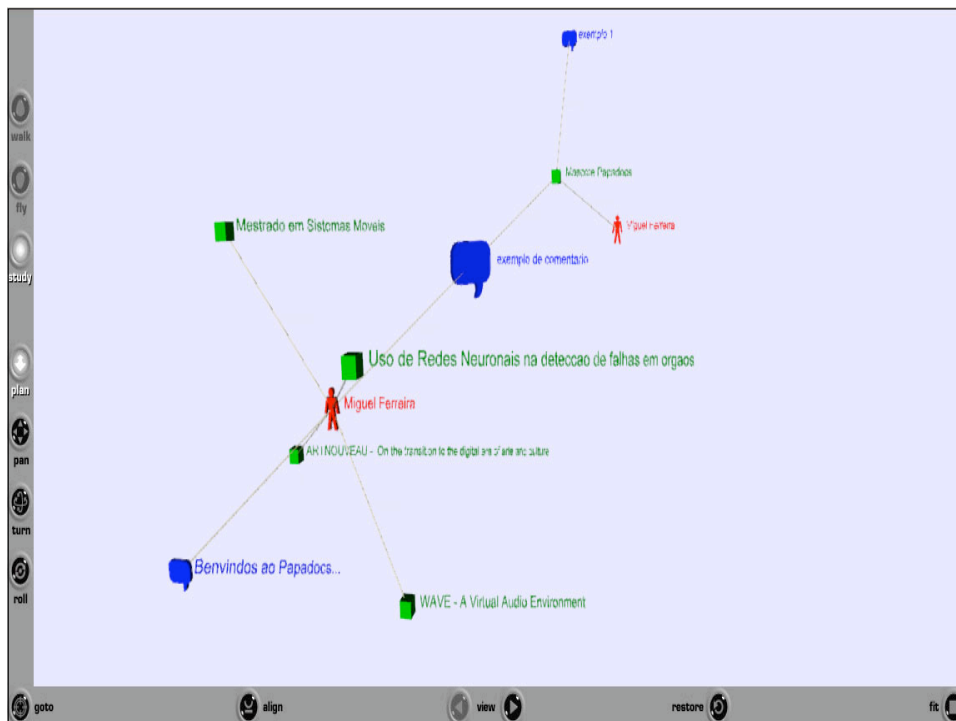
Commenting Plug-in

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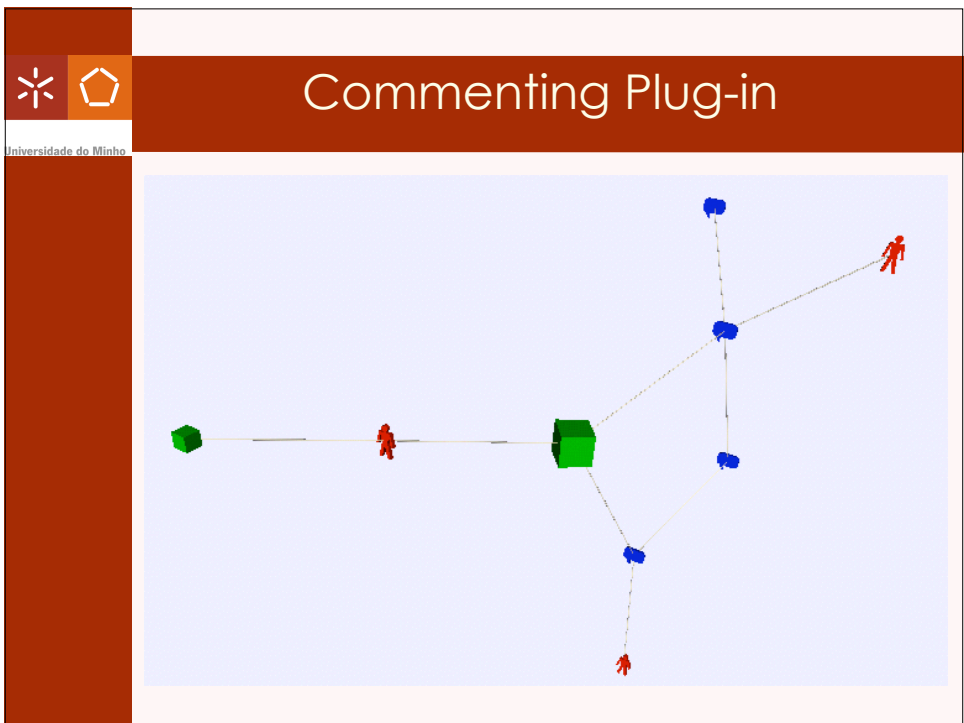
3D Web of Communication

- Visualising relations between resources:
  - Persons
  - Formal Communication Resources
  - Informal Communication Resources
- Finding "hidden" relationships
  - the one you are not aware of.
- Two prototypes
  - Networked prototype
  - Three layer prototype
- Also text deployment of relationships

3D Web of Communication

Conclusions and Future Work

- Work already made:
  - RepositóriUM
  - Papadocs
  - Plug-ins
- Papadocs:
  - Improving Web of Communication
  - Personalization - using controlled vocabularies
- General:
  - In two directions: Development and Research
  - Doing some critically identified studies - see speech tomorrow
  - More researchers from other departments are expected to adhere
  - Creation of the DSpace Interest Group at university of Minho

Thank you!!!

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- SDUM:
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