

Bookmap – A Topic Map Based Web Application for Organising Bookmarks

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Bauhaus-University Weimar

- Introduction
- Motivation
- Specification
- Implementation
- Ontology
- Benefit
- Conclusion
- Discussion

- Existing TM-applications:
 - Mostly generic
 - Flexible, but complex
 - Knowledge of TM-model necessary
- Aim: usage of TM-model in an application:
 - Specific structuring challenge
 - User and use oriented
 - Target group as large as possible
 - Not TM centered, but TM based

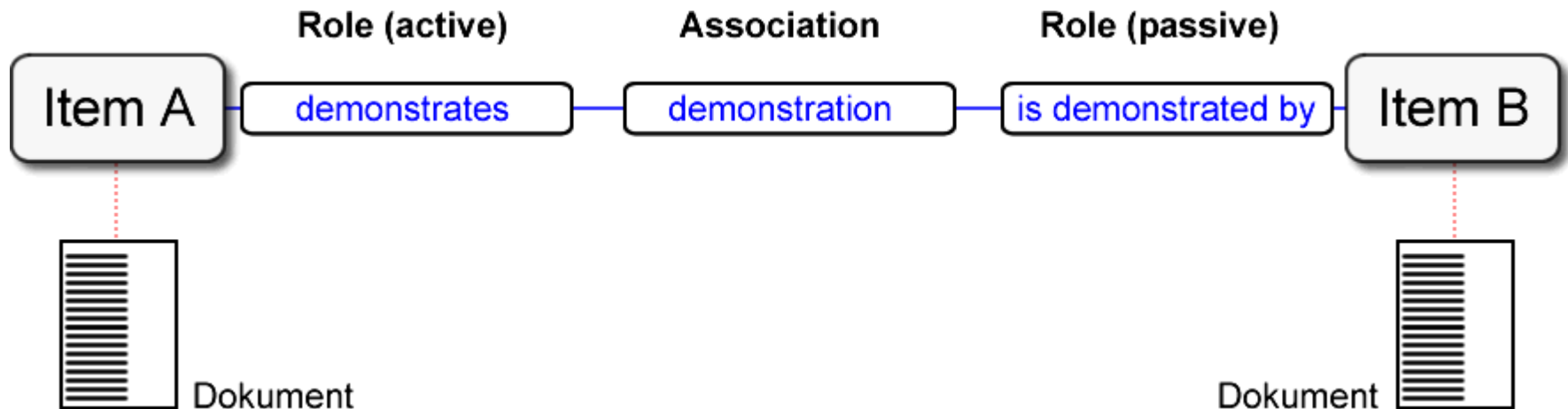
Organising bookmarks as structuring challenge:

- Forget
- Organise
- Find
- Comment

- Topics
 - Bookmarks -> Items
 - Folder -> Container
 - (Keywords)
- Occurrences (internal)
 - Short description
 - description
 - dates (visited, created, modified)
 - Order of elements (chained list)
- Scope
 - Mapping of hierarchical structures
 - Refers to the parent container of an element

Associations

- Currently only pairs
- Predefined Association Types (explanation, interpretation, demonstration...)
- Description of the relation between two documents



- Web-application
 - Central storage and modification of bookmarks
 - Platform and machine independant
 - Avoid distributed collections
- Multi-user system
 - Following established social bookmarking systems
 - Personal recommendation system -> social community
- Browser based user interface
 - Avoid local installation
 - Avoid browser plugins
 - Development of a user friendly user interface
 - Interaction standards (context menus, drag&drop)

- Basic Functionality
 - Administration of bookmarks (items)
 - Create
 - Edit
 - Delete
 - Hierarchical structure (container)
 - Describing metadata
- Extended functionality
 - Semantic relation between system elements
 - keywords
- Group functionality
 - Public <> private bookmarks (optional)

- Interaction
 - Abstraction of the data model
 - Familiar interaction mechanisms
- Integration
 - Import and export functionality
 - Integration in users' processes
- Extensibility
 - Separation of logic and layout
 - Development of an API
 - Public domain software
- Field of use
 - Central server
 - Private copy on own server

bookmark :: Personals - Mozilla Firefox

http://felix18.medien.uni-weimar.de/~bookmark/index.php?url=/personals/myitems/#

Dev TechShopping WebDev Stuff Aktuelle Nachrichte... subfolder Diplom latex/tex begriffsklärung Social Web IshouldKnow WISSEN : Knowled...

bookmark
semantic bookmark management

edit items bookmap tools edit profile community search logout

association graph association panel keyword list

pradella(root)

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- Lesezeichen-Symbolleiste
- WebDevChange
- Dev
 - PEAR :: Package Browser
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name: AJAX

abstract:

desc.: imported at 2006-02-03 10:00:25

last visit: 07/04/05 02:29:55

created: 07/04/05 02:29:55

modified: 04/11/06 18:37:37

privacy: private

apply cancel

The screenshot shows the 'bookmap' application running in a Mozilla Firefox browser. The browser's address bar displays the URL: `http://felix18.medien.uni-weimar.de/~bookmap/index.php?url=/personals/myitems/#`. The browser's menu bar includes 'Datei', 'Bearbeiten', 'Ansicht', 'Gehe', 'Lesezeichen', 'Extras', and 'Hilfe'. The browser's toolbar shows navigation buttons and a search bar with the text 'verpoint masterfolie'. The browser's tab bar shows several open tabs, including 'Dev', 'TechShopping', 'WebDev', 'Stuff', 'Aktuelle Nachrichte...', 'subfolder', 'Diplom', 'latex/text', 'begriffsklärung', 'Social Web', 'IshouldKnow', and 'WISSEN : Knowled...'. The 'bookmap' application interface is displayed below the browser window. The application's logo is 'bookmap semantic bookmark management'. The navigation menu includes 'edit items', 'bookmap tools', 'edit profile', 'community', 'search', and 'logout'. Below the navigation menu are three tabs: 'association graph', 'association panel', and 'keyword list'. The main content area shows a tree view on the left with the root 'pradella(root)' and a sub-item 'AJAX'. The 'AJAX' item is expanded, showing a list of associations. The 'associations' panel is active, displaying a list of associations for 'AJAX'. The 'properties' panel is also active, showing a 'property editor' with fields for 'url', 'name', 'abstract', 'desc.', 'last visit', 'created', 'modified', and 'privacy'. The 'url' field contains 'http://en.wikipedia.org/wiki/AJAX', the 'name' field contains 'AJAX', and the 'privacy' field is set to 'private'. The 'desc.' field contains the text 'imported at 2006-02-03 10:00:25'. The 'last visit' field contains '07/04/05 02:29:55', the 'created' field contains '07/04/05 02:29:55', and the 'modified' field contains '04/11/06 18:37:37'. The 'apply' and 'cancel' buttons are visible at the bottom of the 'properties' panel.

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- cut (Ctrl-X)
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bookmap :: Personals - Mozilla Firefox

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[member role] [association type] [member role]

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- script.aculo.us - web 2.0 javascript demos
- How To Use Advanced Autocomplete Features in Rails Wiki
- Rasmus' 30 second AJAX Tutorial - A wanderer's journal
- :: ChangeSiteBar :: The Bookmark Server for Personal and Team Use

▼ [is explained by] following 1 element(s)

- tes

▼ [recommends] following 1 element(s)

- Google Groups: comp.lang.javascript

▼ [is discussed by] following 1 element(s)

- Content with Style: Fixing the Back Button and Enabling Bookmarking for AJAX Apps

▼ [is interpreted by] following 1 element(s)

- Guide to Using XMLHttpRequest (with Baby Steps) from WebPasties

properties

▼ property editor

url http://en.wikipedia.org/wiki/AJ

name AJAX

abstract

desc. imported at 2006-02-03 10:00:25

last visit 07/04/05 02:29:55

created 07/04/05 02:29:55

modified 04/11/06 18:37:37

privacy private

apply cancel

The screenshot shows a Mozilla Firefox browser window displaying the 'bookmap' application. The browser's address bar shows the URL: `http://felix18.medien.uni-weimar.de/~bookmap/index.php?url=/personals/myitems/#`. The browser's menu bar includes 'Datei', 'Bearbeiten', 'Ansicht', 'Gehe', 'Lesezeichen', 'Extras', and 'Hilfe'. The browser's toolbar shows navigation buttons and a search bar.

The 'bookmap' application interface is visible, featuring a navigation menu with options: 'edit items', 'bookmap tools', 'edit profile', 'community', 'search', and 'logout'. Below this menu are three tabs: 'association graph', 'association panel', and 'keyword list'. The main content area shows a tree view of a bookmark map under the root 'AJAX'. The tree view includes folders like 'Lesezeichen', 'WebT', and 'Dev', and various bookmark items such as 'PE', 'XM', '[b', 'Tc', 'Ja', 'Ja', 'Using web services', 'Javascript Optimization C', '[Advanced-java] Re: [Ad', 'The J2EE(TM) 1.4 Tutoria', 'Java(TM) Boutique - Usir', 'mapping xtm on databa:', 'tes', 'new container', 'Chris Barna's Weblog » E', 'script.aculo.us - web 2.0', 'New Heritage Forum', 'Uranus5', 'Cake', '8.4 - Using the Clipboar', and 'Listening for'.

An 'associations' dialog box is overlaid on the main content. The dialog box has a title bar 'associations' and a subtitle 'creator - generate new associations by dragging elements here'. It contains three input fields: '[member role]', '[association type]', and '[member role]'. The first field contains the text 'demonstrates', the second field contains 'demonstration', and the third field contains 'is demonstrated by'. There are 'generate' and 'cancel' buttons at the bottom of the dialog box.

The background content shows a list of bookmark items with their descriptions and dates. The list includes:

- How To Use Advanced Autocomplete Features in Rails Wiki
- Rasmus' 30 second AJAX Tutorial - A wanderer's journal
- :: ChangeSiteBar :: The Bookmark Server for Personal and Team Use
- [is explained by] following 1 element(s)
- tes
- [recommends] following 1 element(s)
- Google Groups: comp.lang.javascript
- [is discussed by] following 1 element(s)
- Content with Style: Fixing the Back Button and Enabling Bookmarking for AJAX Apps
- [is interpreted by] following 1 element(s)
- Guide to Using XMLHttpRequest (with Baby Steps) from WebPasties

The right side of the interface shows a 'properties' panel with various fields and values:

- properties
- ipedia.org/wiki/AJ
- 2006-02-03
- 10:00:25
- desc.
- last visit 07/04/05 02:29:55
- created 07/04/05 02:29:55
- modified 04/11/06 18:37:37
- privacy private
- apply cancel

The screenshot shows the 'bookmap' application running in a Mozilla Firefox browser. The browser's address bar shows the URL: `http://felix18.medien.uni-weimar.de/~bookmap/index.php?url=/personals/myitems/#`. The application's navigation bar includes buttons for 'edit items', 'bookmap tools', 'edit profile', 'community', 'search', and 'logout'. Below this are tabs for 'association graph', 'association panel', and 'keyword list'. The main interface is divided into three sections:

- Left Sidebar:** A tree view showing a folder structure starting with 'pradella(root)' and 'AJAX'. Under 'AJAX', there are sub-folders like 'Lesezeichen-Symboleiste', 'WebDevChange', and 'Dev'. The 'Dev' folder contains various items such as 'PEAR :: Package Browser', 'XML.com: Mapping', and 'tes'.
- Center Panel:** Titled 'AJAX', it features an 'associations' editor. At the top, it says 'creator - generate new associations by dragging elements here'. Below this is a table with columns for '[member role]', '[association type]', and '[member role]'. The first row shows 'demonstrates' as the association type between 'AJAX' and 'is demonstrated by'. There are 'generate' and 'cancel' buttons. Below the table, there are sections for '[is demonstrated by]', '[is explained by]', '[recommends]', '[is discussed by]', and '[is interpreted by]', each listing associated elements with icons for edit and delete.
- Right Panel:** Titled 'properties', it contains a 'property editor' with fields for 'url' (http://en.wikipedia.org/wiki/AJ), 'name' (AJAX), 'abstract', 'desc.' (imported at 2006-02-03 10:00:25), 'last visit' (07/04/05 02:29:55), 'created' (07/04/05 02:29:55), 'modified' (04/11/06 18:37:37), and 'privacy' (private). 'apply' and 'cancel' buttons are at the bottom.

bookmap :: Personals - Mozilla Firefox

http://felix18.medien.uni-weimar.de/~bookmap/index.php?url=/personals/myitems/#

Dev TechShopping WebDev Stuff Aktuelle Nachrichte... subfolder Diplom latex/text begriffsklä rung Social Web IshouldKnow WISSEN : Knowled...

bookmap
semantic bookmark management

edit items bookmap tools edit profile community search logout

association graph association panel keyword list

pradella(root)

- AJAX
- Lesezeichen-Symboleiste
- WebDevChange
- Dev
 - PEAR :: Package Browser
 - XML.com: Mapping
 - [topicmapmail] Topic Ma
 - Top-10 New Mistakes of
 - JavaScript Security: Signe
 - JavaView Homepage
 - Using Web Services Effect
 - Javascript Optimization C
 - [Advanced-java] Re: [Ad
 - The J2EE(TM) 1.4 Tutoria
 - Java(TM) Boutique - Usir
 - mapping xtm on databa:
 - tes
 - new container
 - Chris Barna's Weblog » E
 - script.aculo.us - web 2.0
 - New Heritage Forum
 - Uranus5
 - Cake
 - 8.4 - Using the Clipboar
 - Listening for

AJAX

associations

▼ creator - generate new associations by dragging elements here

[member role]	[association type]	[member role]
demonstrates	demonstration	is demonstrated by

AJAX

 Cake

▼ [is demonstrated by] following 6 element(s)

- ActiveWidgets • On Click Edit • html input disabled
- irt.org - JavaScript Form FAQ Knowledge Base
- script.aculo.us - web 2.0 javascript demos
- How To Use Advanced Autocomplete Features in Rails Wiki
- Rasmus' 30 second AJAX Tutorial - A wanderer's journal
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▼ [is explained by] following 1 element(s)

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▼ [recommends] following 1 element(s)

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- Content with Style: Fixing the Back Button and Enabling Bookmarking for AJAX Apps

▼ [is interpreted by] following 1 element(s)

- Guide to Using XMLHttpRequest (with Baby Steps) from WebPasties

properties

▼ property editor

url

name

abstract

desc.

last visit

created

modified

privacy

bookmap :: Personals - Mozilla Firefox

http://felix18.medien.uni-weimar.de/~bookmap/index.php?url=/personals/myitems/#

Dev TechShopping WebDev Stuff Aktuelle Nachrichte... subfolder Diplom latex/text begriffsklärung Social Web IshouldKnow WISSEN : Knowled...

bookmap
semantic bookmark management

edit items bookmap tools edit profile community search logout

association graph association panel keyword list

AJAX

associations

creator - generate new associations by dragging elements here

[is demonstrated by] following 6 element(s)

- ActiveWidgets • On Click Edit • html input disabled
- irt.org - JavaScript Form FAQ Knowledge Base
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[is explained by] following 1 element(s)

- tes

[recommends] following 1 element(s)

- Google Groups: comp.lang.javascript

[is discussed by] following 1 element(s)

- Content with Style: Fixing the Back Button and Enabling Bookmarking for AJAX Apps

[demonstrates] following 1 element(s)

- Cake

[is interpreted by] following 1 element(s)

- Guide to Using XMLHttpRequest (with Baby Steps) from WebPasties

properties

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url

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desc.

last visit

created

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The screenshot shows the 'bookmap' application running in a Mozilla Firefox browser. The browser's address bar displays the URL: `http://felix18.medien.uni-weimar.de/~bookmap/index.php?url=/personals/myitems/#`. The application's navigation bar includes buttons for 'edit items', 'bookmap tools', 'edit profile', 'community', 'search', and 'logout'. Below these are tabs for 'association graph', 'association panel', and 'keyword list'. The main interface is divided into three sections:

- Left Panel (Tree View):** A hierarchical tree structure starting with 'pradella(root)'. It contains folders like 'AJAX', 'Lesezeichen-Symbolleiste', 'WebDevChange', and 'Dev'. Under 'Dev', there is a list of items including 'PEAR :: Package Browser', 'XML.com: Mapping', and 'Cake' (which is highlighted).
- Center Panel (Association Editor):** Titled 'Cake', it shows an 'associations' section. It includes a 'creator' instruction: 'generate new associations by dragging elements here'. Below, it shows a dropdown menu with '[is demonstrated by]' and a list of associated elements, including 'AJAX'.
- Right Panel (Property Editor):** Titled 'properties', it contains a 'property editor' with several fields:
 - url:** `http://cake.nextco.com/`
 - name:** `Cake`
 - abstract:** (empty text area)
 - desc.:** `imported at 2006-02-03 10:00:27`
 - last visit:** `08/27/05 21:23:44`
 - created:** `08/27/05 21:23:44`
 - modified:** `02/03/06 10:14:32`
 - privacy:** `private` (dropdown menu)At the bottom of this panel are 'apply' and 'cancel' buttons.

The screenshot shows the 'bookmap' application running in a Mozilla Firefox browser. The browser's address bar shows the URL: `http://felix18.medien.uni-weimar.de/~bookmap/index.php?url=/personals/myitems/#`. The application's navigation bar includes buttons for 'edit items', 'bookmap tools', 'edit profile', 'community', 'search', and 'logout'. Below these are three tabs: 'association graph', 'association panel', and 'keyword list'. The main interface is divided into three sections:

- Tree View (Left):** A hierarchical tree structure starting with 'pradella(root)'. It contains folders like 'AJAX', 'Lesezeichen-Symbolleiste', 'WebDevChange', and 'Dev'. The 'Dev' folder is expanded, showing a list of items including 'PEAR :: Package Browser', 'XML.com: Mapping', '[topicmapmail] Topic Ma', 'Top-10 New Mistakes of', 'JavaScript Security: Signe', 'JavaView Homepage', 'Using Web Services Effec', 'Javascript Optimization C', '[Advanced-java] Re: [Ad', 'The J2EE(TM) 1.4 Tutoria', 'Java(TM) Boutique - Usir', 'mapping xtm on databa:', 'tes', 'new container', 'Chris Barna's Weblog > E', 'script.aculo.us - web 2.0', 'New Heritage Forum', 'Uranus5', 'Cake' (highlighted in red), '8.4 - Using the Clipboar', and 'Listening for'.
- Item View (Center):** The 'Cake' item is selected. It shows a 'creator' field with the text 'generate new associations by dragging elements here'. Below this, it indicates '[is demonstrated by] following 1 element(s)' and shows a small icon for 'AJAX'.
- Property Editor (Right):** A dialog box titled 'property editor' is open. It contains the following fields:
 - url:** `http://cake.nextco.com/`
 - name:** `ja`. A red error message is displayed below: 'in scope 'Dev' already used:'.
 - abstract:** A list of suggestions: 'JavaView Homepage', 'Javascript Optimization Content', 'Java(TM) Boutique - Using SOAP with Java', and 'JavaScript Security: Signed Scripts'.
 - desc.:** An empty text area.
 - last visit:** `08/27/05 21:23:44`
 - created:** `08/27/05 21:23:44`
 - modified:** `02/03/06 10:14:32`
 - privacy:** A dropdown menu set to 'private'.At the bottom of the dialog are 'apply' and 'cancel' buttons.

The screenshot shows the 'bookmap' application running in a Mozilla Firefox browser. The browser's address bar displays the URL: `http://felix18.medien.uni-weimar.de/~bookmap/index.php?url=/personals/myitems/#`. The application interface includes a top navigation bar with 'edit items', 'bookmap tools', 'edit profile', and 'community' buttons. Below this is a sidebar with a tree view of bookmark categories: 'pradella(root)', 'AJAX', 'Lesezeichen-Symbolleiste', 'WebDevChange', and 'Dev'. The 'Dev' folder is expanded, showing a list of bookmarks including 'PEAR :: Package Browser', 'XML.com: Mapping', '[topicmapmail] Topic Ma', 'Top-10 New Mistakes of', 'JavaScript Security: Signe', 'JavaView Homepage', 'Using Web Services Effec', 'Javascript Optimization C', '[Advanced-java] Re: [Ad', 'The J2EE(TM) 1.4 Tutoria', 'Java(TM) Boutique - Usir', 'mapping xtm on databa:', 'tes', 'new container', 'Chris Barna's Weblog » E', 'script.aculo.us - web 2.0', 'New Heritage Forum', 'Uranus5', 'Cake', '8.4 - Using the Clipboar', and 'Listening for'. The 'Cake' item is selected and highlighted. The main content area shows the 'Cake' item details, including a 'creator' field with the value 'generate new associations by dragging elements' and a list of associated items: '[is demonstrated by] following 1 element(s)' containing 'AJAX'. A 'properties' dialog box is open over the 'Cake' item, displaying the following fields: 'url' (http://cake.nextco.com/), 'name' (ja), 'abstract' (JavaScript Optimization Content), 'desc.' (JavaScript Security: Signed Scripts), 'last visit' (08/27/05 21:23:44), 'created' (08/27/05 21:23:44), 'modified' (02/03/06 10:14:32), and 'privacy' (private). A red error message is displayed in the dialog: 'in scope 'Dev' already used: JavaView Homepage'. The dialog also features 'apply' and 'cancel' buttons at the bottom.

bookmap :: Personals - Mozilla Firefox

http://felix18.medien.uni-weimar.de/~bookmap/index.php?url=/personals/myitems/#

bookmap semantic bookmark management

edit items bookmap tools edit profile community search

association graph association panel keyword list

pradella(root)

- AJAX
- Lesezeichen-Symbolleiste
- WebDevChange
- Dev
 - PEAR :: Package Browser
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 - script.aculo.us - web 2.0
 - New Heritage Forum
 - Uranus5
 - Cake**
 - 8.4 - Using the Clipboar
 - Listening for

properties

property editor

url

name

abstract

desc.

last visit

created

modified

privacy

bookmap :: Personals - Mozilla Firefox

http://felix18.medien.uni-weimar.de/~bookmap/index.php?url=/personals/myitems/#

bookmap semantic bookmark management

edit items bookmap tools edit profile community search logout

association graph association panel keyword list

CakeChange

associations

creator - generate new associations by dragging elements here

[is demonstrated by] following 1 element(s)

AJAX

pradella(root)

- AJAX
- Lesezeichen-Symbolleiste
- WebDevChange
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 - CakeChange**
 - 8.4 - Using the Clipboar
 - Listening for

property editor

url http://cake.nextco.com/

name CakeChange

abstract

desc. imported at 2006-02-03 10:00:27

last visit 08/27/05 21:23:44

created 08/27/05 21:23:44

modified 04/11/06 23:31:13

privacy public

apply cancel

- Hierarchical elements
 - Container
 - Bookmark
 - (descriptions, keywords, metadata)
- Associations

explanation	explains	is explained by
description	describes	is described by
interpretation	interpretes	is interpreted by
demonstration	demonstrates	is demonstrated by
discussion	discusses	is discussed by
recommendation	recommends	is recommended by
summary	summarizes	is summarized by
sequence	precedes to	follows to
part-whole-relationship	consists of	is part of
weblink	links	is linked by
tagging	tags	is tagged by
confirmation	confirms	confirms
contradiction	contradicts	contradicts
relation	is related to	is related to
equality	is equal to	is equal to

- Central storage of bookmarks
- Possibility of relating to other users' TMs
- Getting new insight from other users' semantics
- Quicker and different access to new knowledge domain

- Different from delicious? Semantics.
- Fuzzy? Similar – Tags could be seen as folders, but we restrict users (Assoc.)

- Specific, problem oriented TM application
- Organisation, exploiting and navigation (association)
- Hierarchical structures (scope)
- Description and metadata (occurrence)
- Web-based bookmark management
- Independent of platform and machine
- Simple interaction (Ajax)
- Good integration (local drag&drop, shortcuts)

- Possible use of *TMAPI/PHP*
- Publication on sourceforge.net underway
- Further evaluation of prototype planned, test vs. Informal user study
- Verification of Ontology in different scenarios
- Need for users to extend/create own ontology? How?

Thanks for your Attention!



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