Objective

• Building "Community Web" environment with Weblog and the Semantic Web techniques.
  – Conventional "Information Web" just consists of a tons of HTML files and links.
  – "Information Overload" degrades…
    • Quality of search engines
    • Reusability of contents
Objective

- "Community Web" is an extended web architecture that makes people to represent themselves.
  - People as…
    - An information collector
    - An information editor
    - An information creator
    - An information distributor

- Now blog provides personal knowledge publishing environment.

Information and Communication Processes

- Most of blog tools do not support whole process of information distribution.

Information Activities
- Collect (information)
- Create (information)
- Donate (information)

Communication Activities
- Relate (people)
- Collaborate (with people)
- Present (people)
Information and Communication Processes

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Weblog Architecture

- 4-layered model

<table>
<thead>
<tr>
<th>Application</th>
<th>Search</th>
<th>Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggregation</td>
<td>RSS Aggregator</td>
<td>Blog Tools</td>
</tr>
<tr>
<td>Management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contents Metadata</td>
<td>RSS</td>
<td>Atom</td>
</tr>
</tbody>
</table>

Community Web Architecture

- 4-layered model

<table>
<thead>
<tr>
<th>Application</th>
<th>Egocentric Search</th>
<th>RNA Alliance</th>
</tr>
</thead>
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<tr>
<td>Aggregation</td>
<td>RNA</td>
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</tr>
<tr>
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<td>Blog Tools</td>
<td>FOAF TrackBack</td>
</tr>
<tr>
<td>Contents Metadata</td>
<td>Social Net Metadata</td>
<td>PermaRSS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FOAF</td>
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</tbody>
</table>
FOAF Management

- Maintaining social network to determine information channel
  - FOAF: Friend Of A Friend is open metadata format to describe human relationship with RDF.
    - Self introduction section e.g., name, e-mail address, weblog URI…
    - Human relationship section with <knows>
  - FOAF TrackBack
    - Our proposal
    - Provides an easy way to expand social network

PermaRSS

- PermaRSS is a permanent entity of an RSS for each blog entry.
  - Our proposal
  - Including…
    - Link and TrackBack relationship with other entries.
    - Topics and categories with rdf:resource
  - Each blog entry has different PermaRSS files.
**Extended RSS Aggregator / Publisher**

- Not only aggregate RSS, but also reedit and republish
- Three levels of "Degree of Interest"
  - **Check:** Which site you are interested in…
    - Publish registered favorite sites
    - Show sites / entries in chronological order
  - **Clip:** Which content you are interested in…
    - Publish favorite contents
    - Generating clip list in 1-click
  - **Post:** What is your opinion…
    - Publish your opinion on your Weblog
    - Authoring support with built-in editor

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<th>Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contents M.D.</td>
<td>Social M.D.</td>
</tr>
</tbody>
</table>

**RSS-based Applications**

- Authoring support after RSS aggregation
  - On a social network
- Egocentric search
  - Gives higher score to "close-to-me" contents.
    - Blog authoring = communication
  - Seeks fresh contents by determining a scope of local search.
  - Social network extraction with local spidering and Weblog site detection
**RSS-based Applications**

- RNA Alliance
  - Comparing DOI among people in FOAF network
  - Calculating similarity of published site list
  - Scoring and recommendation of new items

**RNA: Personal RSS Portal**

- RSS aggregation script for blog articles
  - Dynamically sorts a site list with reverse chronological order
    - TrackBack auto discovery
    - Generate PermaRSS
- RSS based I/O
- (Re)Publish users' Degree of Interest
  - Check: Which site you are interest in…
  - Clip: Which content you are interest in…
- Over 2000 downloads in Japan.
Glucose: RSS Aggregator / Editor

- Client-side aggregator for Windows
  - 3 pane interface
  - TrackBack auto discovery
  - Built-in blog editor
  - Contents clipping with RNA
- Publish Degree of Interest
  - Check
  - Clip
  - Post
- FOAF / SNS browser
- Over 20,000 downloads in Japan

Snapshot

- Glucose
- RNA
Site Registration: added.

Added Channel

lessig blog

Browsing

Entry list of the channel

Stanford Law School
Lawrence Lessig

May 2004

InformationWeek on the Digital Media Consumers' Rights Act Hearings:
InformationWeek quoted Professor Lessig in an article about yesterday's Digital Media Consumers' Rights Act hearings. Read "Will New Law Stymie Online Copyright Act."

"Protection Will Kill Recovery?"—Professor Lessig's latest version column—"Protection Will Kill Recovery?"—is now online. Or click on the link in the this month's paper version.

posted by John, May 22, 2004 08:50 PM
Keyword Search

Keyword Search : added.

-added.
Built-in Weblog Editor

Register your Weblog

Blog Editor

Past Entries
### Recent Updated Site View

**RNA: RECENT SITES/ENTRIES**

**Updated at 2004.05.14 02:03 AM**

<table>
<thead>
<tr>
<th>Category</th>
<th>List of Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main</td>
<td>- DREAMnesia</td>
</tr>
<tr>
<td></td>
<td>rss:description</td>
</tr>
</tbody>
</table>

**TrackBack Discovery**

**TrackBacked Content**

**Original Content**
Conclusion

• Proposal of community web architecture
  – Six activities model
  – Layered model of contents and social network metadata

• Proposal of community web tools
  – RNA: server-side aggregator / publisher
  – Glucose: client-side aggregator / editor

• Proposal of community web applications
  – Egocentric search
  – RNA alliance and recommendation
Future Works

• Integrate social networking service and blog
• KnowWho search in open environment
• Experiment

Thank you.