



Personal Knowledge Publishing Suite with Weblog

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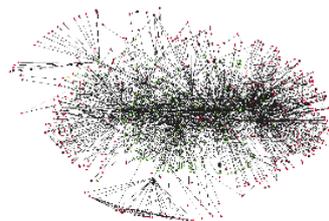
Hideaki TAKEDA

The Graduate University for Advanced Studies / National Institute of Informatics



Objective

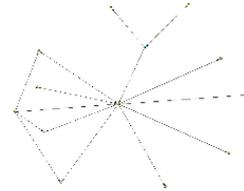
- Building "Community Web" environment with Weblog and the Semantic Web techniques.
 - Conventional "Information Web" just consists of a tons of HTML files and links.
 - "Information Overload" degrades...
 - Quality of search engines
 - Reusability of contents



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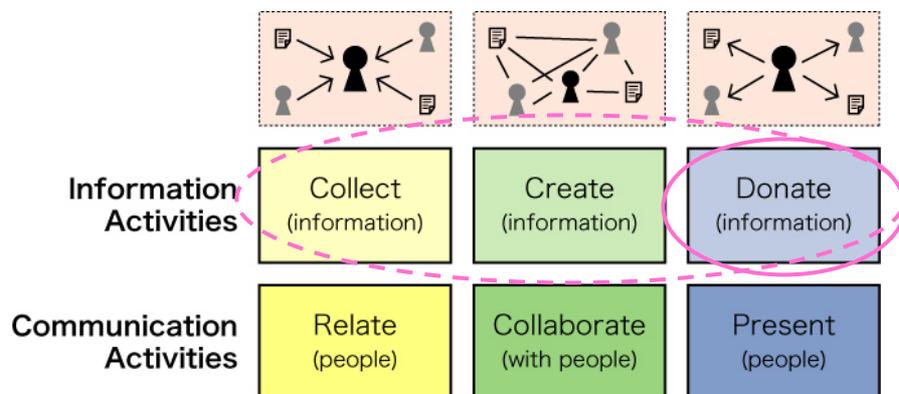
Objective

- "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.



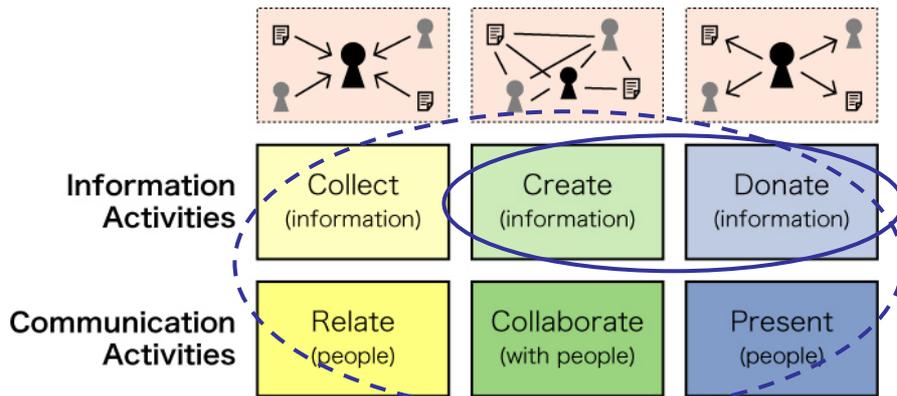
Information and Communication Processes

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



Information and Communication Processes

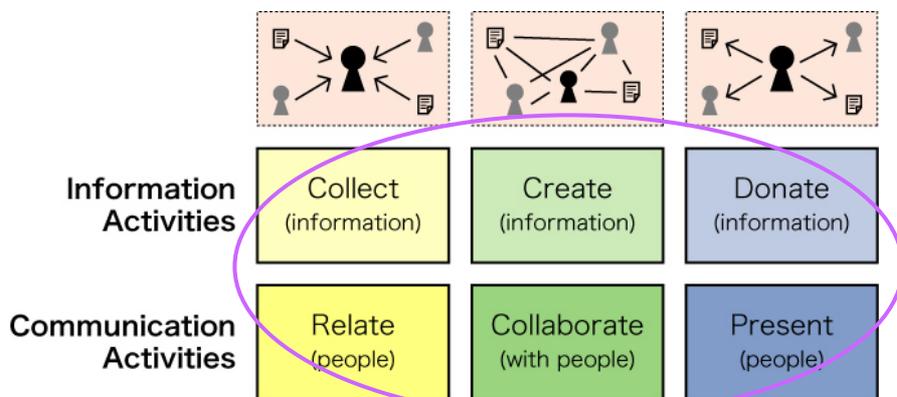
- Most of blog tools do not support whole process of information distribution.



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Information and Communication Processes

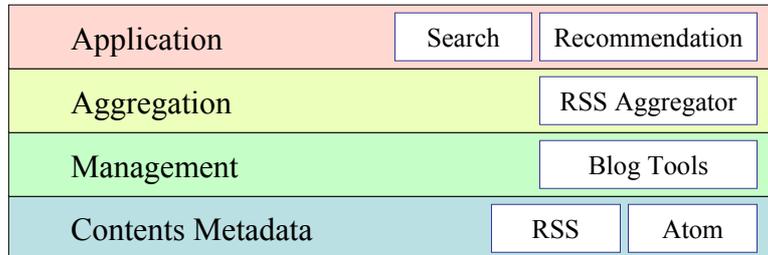
- Most of blog tools do not support whole process of information distribution.



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Weblog Architecture

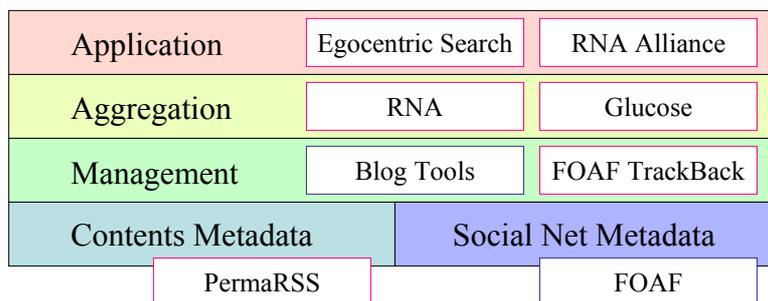
- 4-layered model



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Community Web Architecture

- 4-layered model



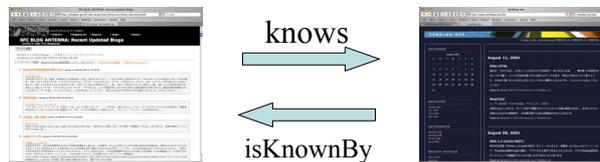
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FOAF Management

Application
Aggregation
Management
Contents M.D. Social M.D.

- 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

collect	create	donate
relate	collabo.	present



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PermaRSS

Application
Aggregation
Management
Contents M.D. Social M.D.

- 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.

collect	create	donate
relate	collabo.	present

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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

Application	
Aggregation	
Management	
Contents M.D.	Social M.D.

collect	create	donate
relate	collabo.	present

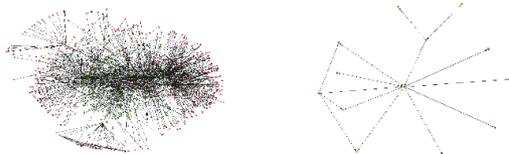
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RSS-based Applications

- 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

Application	
Aggregation	
Management	
Contents M.D.	Social M.D.

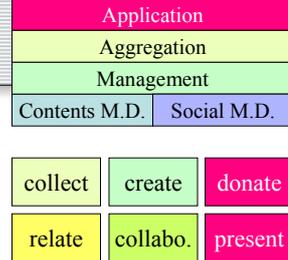
collect	create	donate
relate	collabo.	present



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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

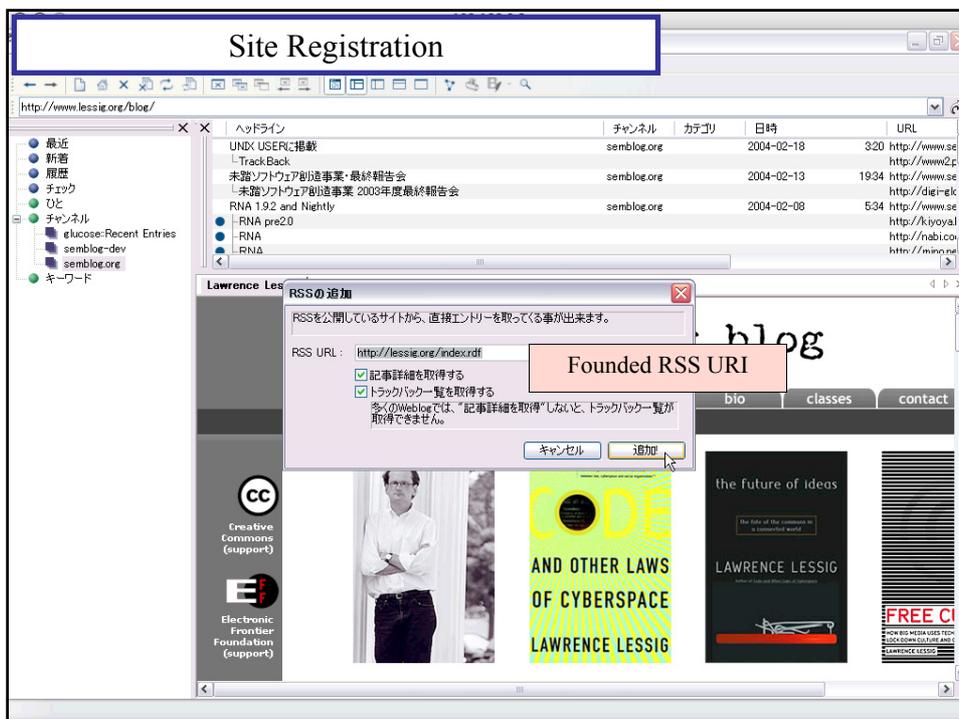
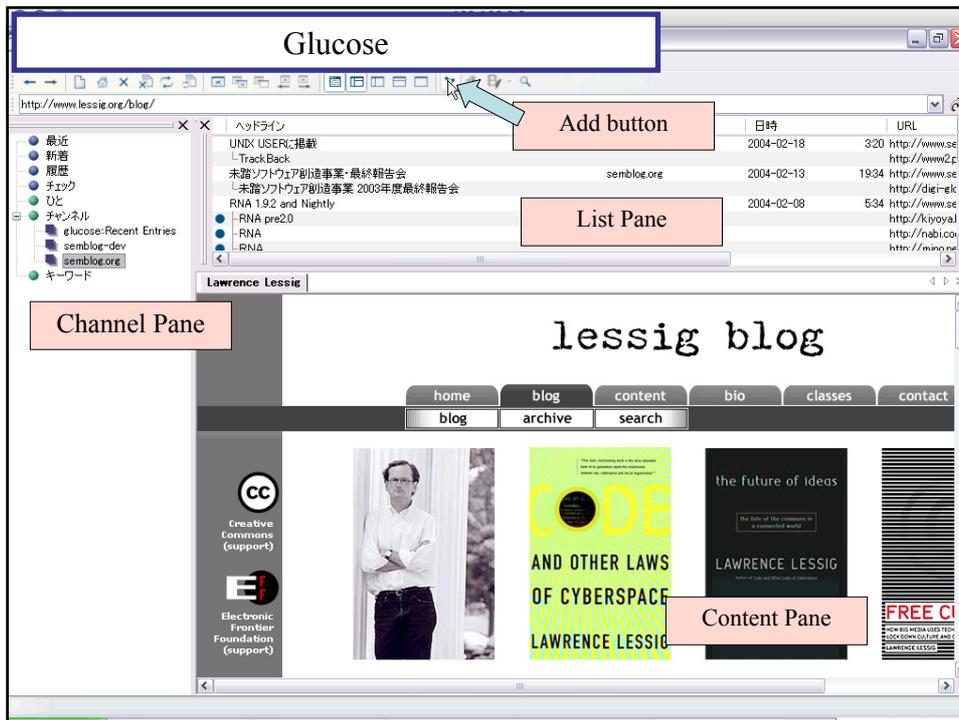


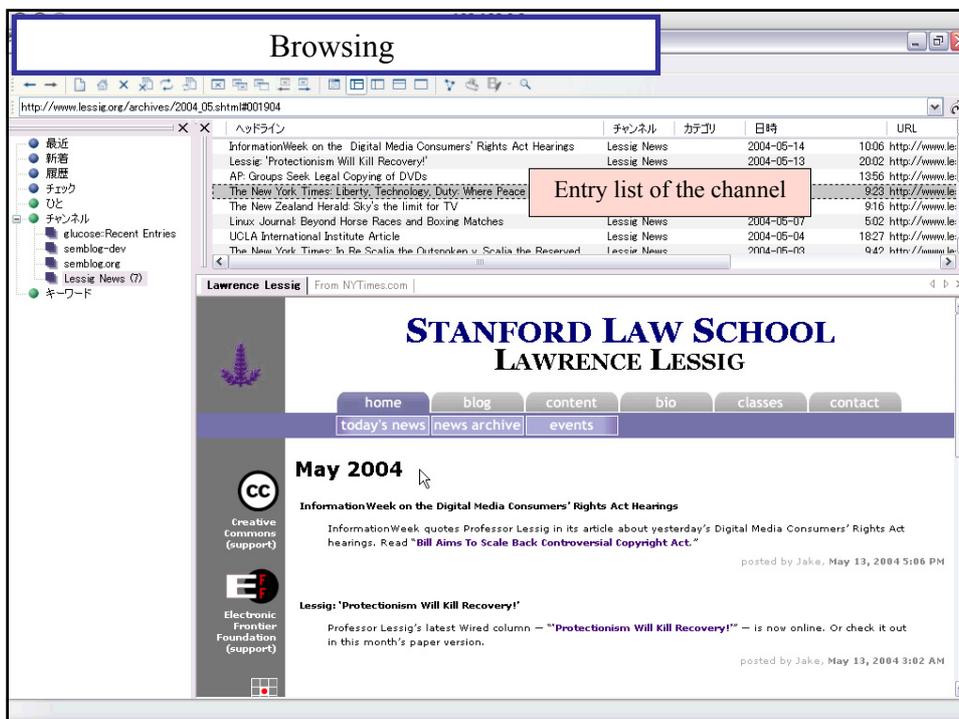
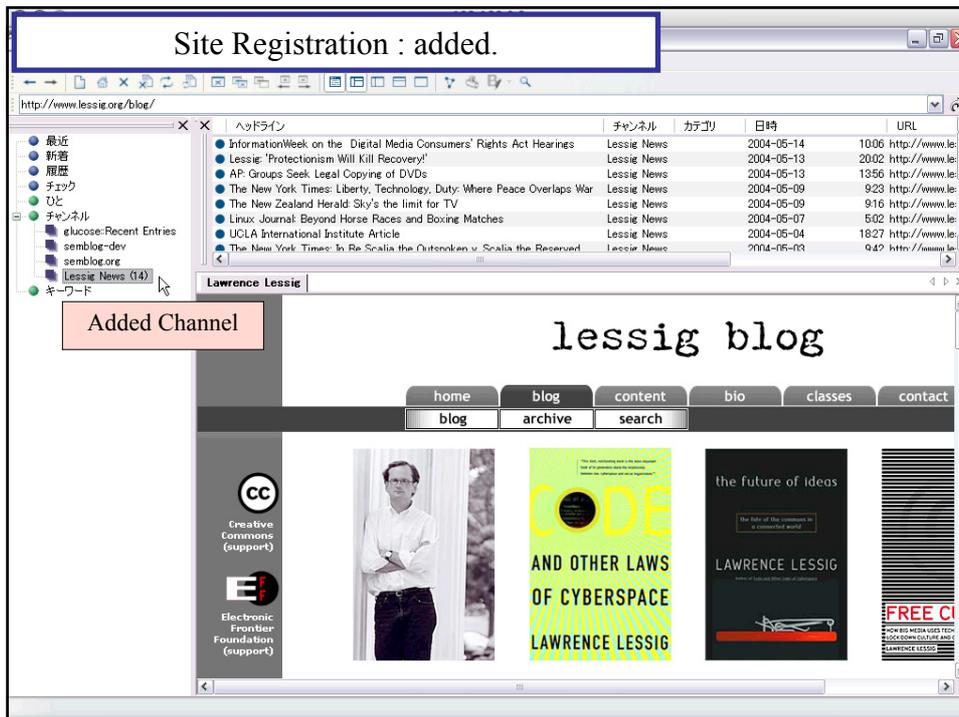
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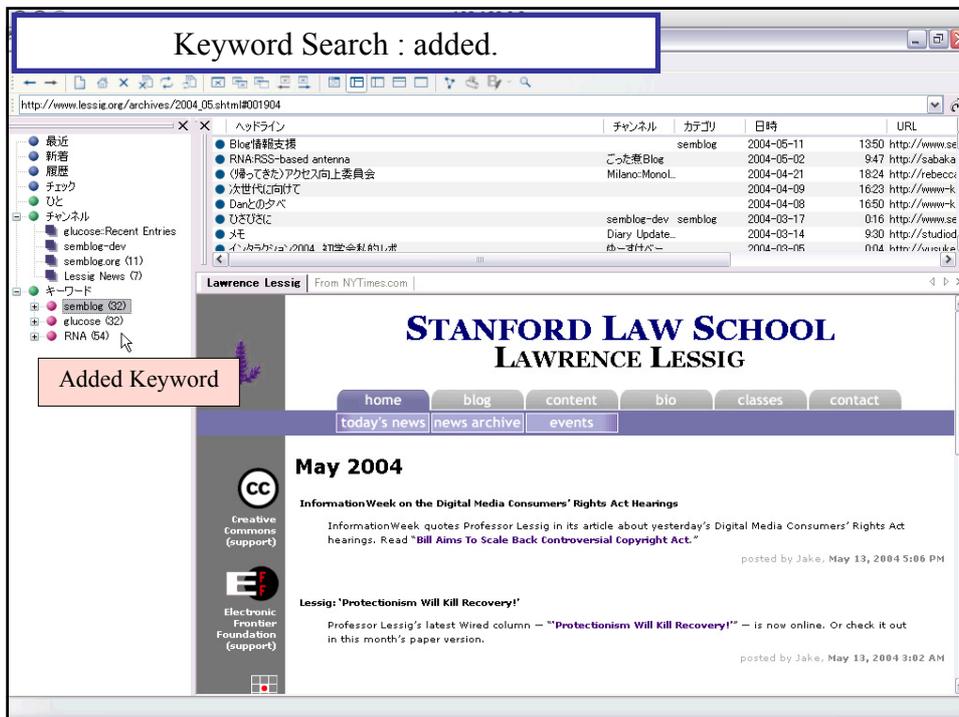
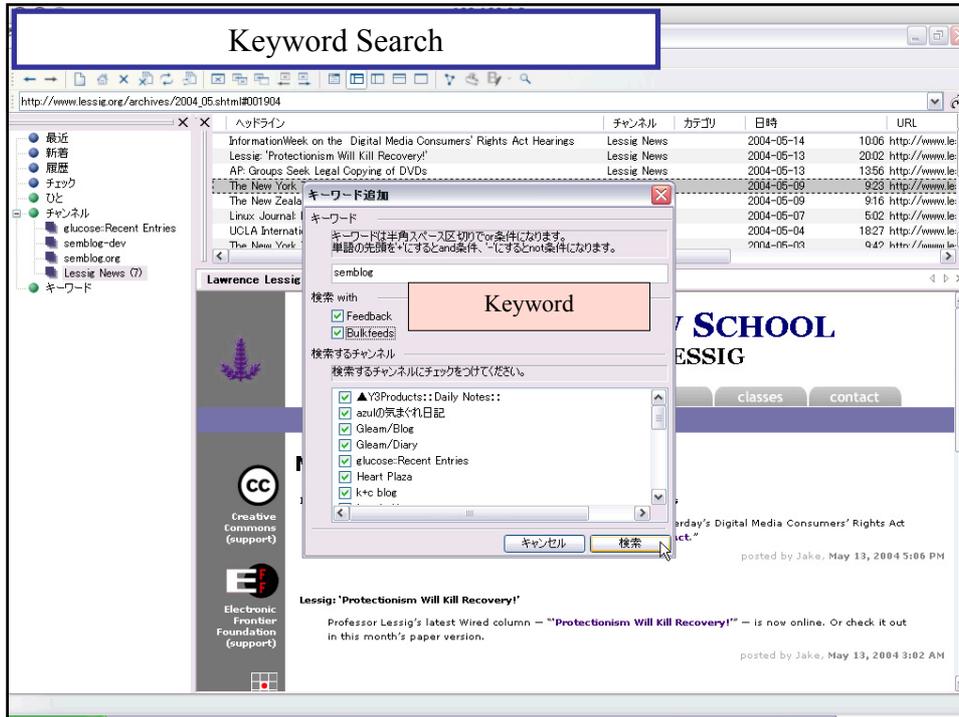
● Snapshot

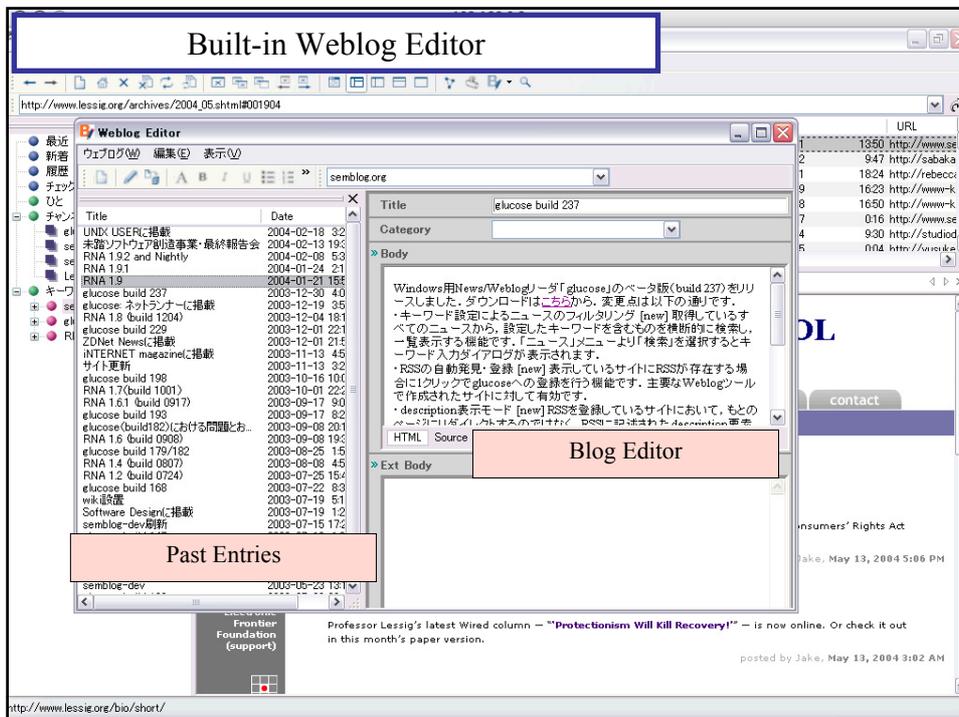
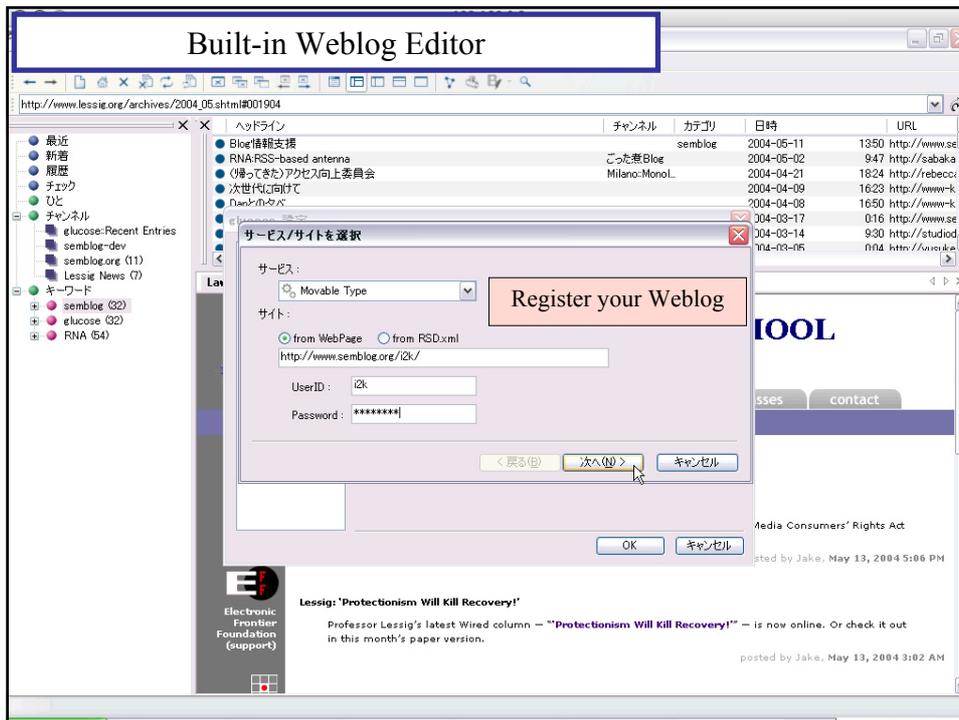
- Glucose
- RNA

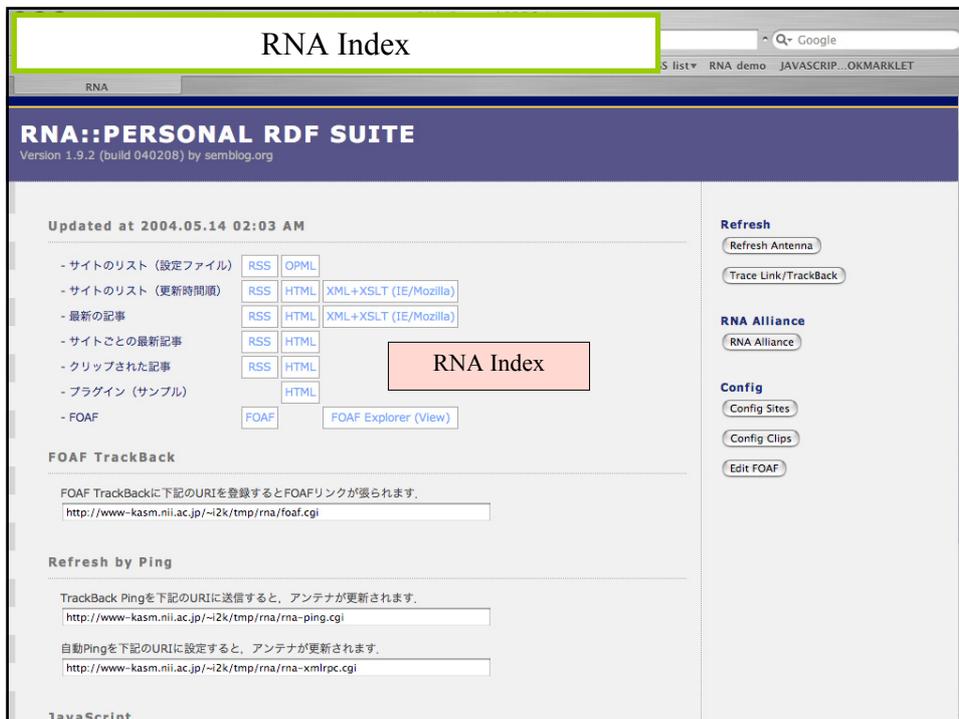
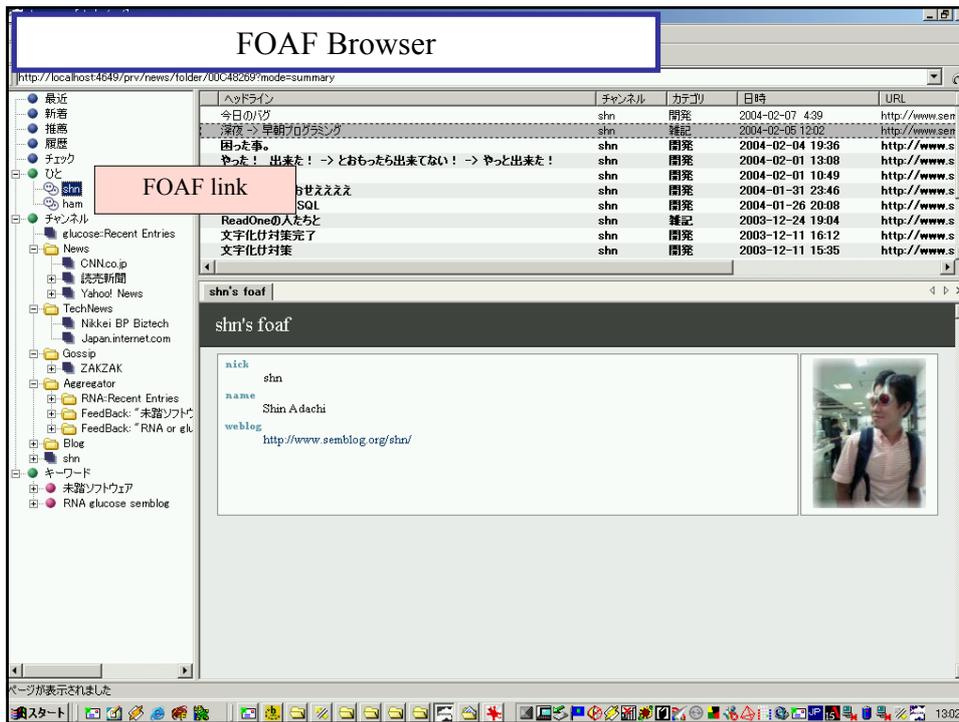
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RSS Registration

RNA:Site Config

RNA::SITE CONFIG

RNAでチェックするサイトの設定

Site List

- Site

- URI

- Title

- Description

- Creator

- Subject (Category)

OPML Import

List of RSS URI

```

-- select --
0001. http://www-kasm.nii.ac.jp/~i2k/mt/index.rdf :-
0002. http://www.semblog.org/hamasaki/index.rdf :- hamasaki の日記
0003. http://www.semblog.org/shn/index.rdf :- shn の日記
0004. http://www.semblog.org/msano/index.rdf :- msano の日記
0005. http://bulknews.net/rss/rdf.cgi?Asahi :- 朝日新聞
0006. http://slashdot.jp/slashdot.rdf :- スラッシュドット.jp
0007. http://www.semblog.org/index.rdf :- semblog.org
0008. http://static.userland.com/gems/backend/rssTwoExample2.xml :- RSS 2.0 sample
0009. http://www.semblog.org/i2k/index.rdf :-
0010. http://219.113.143.242/blog/kirik/index.rdf :-
0011. http://219.113.143.242/blog/inoemon/index.rdf :-
0012. http://artifact-jp.com/index.rdf :-
0013. http://www.hyuki.com/tf/rss :-
0014. http://rebecca.ac/milano/mt/index.rdf :-
0015. http://blog.cnetnetworks.jp/lessig/index.rdf :-
0016. http://sawadaspecial.com/index.rdf :-
0017. http://jjoito.com/jp/index.rdf :-
0018. http://www.withassistant.net/mt/index.rdf :-
0019. http://ellington.gel.sfc.keio.ac.jp/nsly/mt/ns/index.rdf :-
0020. http://www.kc.t.u-tokyo.ac.jp/~matumura/mt/index.rdf :-
0021. http://www.kanzaki.com/info/memo.rdf :-
0022. http://www.ringolab.com/notes/days/index.rdf :-
0023. http://glucose.dip.jp/Zope/Zch/index.xml :-
0024. http://www.ringolab.com/notes/kkato/index.rdf :-
0025. http://mojix.org/rss.xml :-
0026. http://blog.japan.cnet.com/kenn/index.rdf :-
0027. http://www.myprofile.ne.jp/blogrss/zerobase/ :-
0028. http://blog.picsy.org/index.rdf :-
0029. http://api.plaza.rakuten.ne.jp/dreamnavigator/rss/ :-

```

Recent Entries View

RNA:Recent Entries

RNA::RECENT ENTRIES

Newest 100 Entries

Updated at 2004.05.14 02:03 AM

1. Shudo's Notes | from Shudo's Notes | updated at 2004.05.14 01:53 AM
2. "裏"日本工業新聞!! | from "裏"日本工業新聞!! | updated at 2004.05.14 01:36 AM
3. Research Papers of Hideaki Shirata | from Research Papers of Hideaki Shirata | updated at 2004.05.14 01:20 AM

[緊急告知] 13日 20:00から「47氏逮捕(Winny)事件」関連緊急茶会をいつもの「ロージナ茶房」で開催します。→しました。15人以上もきててビックリな(汗)。こういう事件があるとこんなに盛況になるんだ...

rss:description
4. 赤の巨頭、筑業哲也も年金未納 | from 切込隊長BLOG ~俺様キングダム | updated at 2004.05.14 00:02 AM

どいつもこいつも納めとらんのかアホ。 ついでに右の巨頭、石原都知事も未納。おーい。 つーか、もう年金やめちまえよ。金のない年寄りに長生きされても困るだろ。...
5. Google approved PageRank stripping | from www.textfile.org | updated at 2004.05.14 00:01 AM
6. 見出しは著作物にはあたらない@東京地裁 | from 切込隊長BLOG ~俺様キングダム | updated at 2004.05.13 11:49 PM
7. 山形浩生勝手に広報部：郵室 | from 山形浩生勝手に広報部：郵室 | updated at 2004.05.13 11:45 PM
8. ウェブロについて考える。2 | from ウェブロについて考える。2 | updated at 2004.05.13 11:11 PM

Refresh

RNA Alliance

Config

Recent Updated Site View

RNA:Recent Sites/Entries

RNA::RECENT SITES/ENTRIES

Newest 5 Entries of Each Site

Updated at 2004.05.14 02:03 AM

Category

- hatena
- news
- semblog.org

1. ドリームナビゲーター | updated at 2004.05.14 02:04 AM
2. 切込隊長BLOG ~商標キングダム | updated at 2004.05.14 00:02 AM
3. www.textfile.org | updated at 2004.05.14 00:01 AM

Google approved PageRank stripping 2004.05.14 00:01 AM
 Google.com自身のリダイレクトを使うことで、Google.comのPageRankを上げようとするコメントスパマーを出し抜く、という話。コメントした相手のURLを、Google.comのリダイレクタ経由でリンクしてやるだけでよい。

『高校数学+α : 基礎と論理の物語』 2004.05.13 03:55 PM

Subversionが嫌い 2004.05.13 00:16 AM

RNA Alliance

Config

rss.description

TrackBack Discovery

RNA:Recent Sites/Entries

RNA 2.0のテスト中 2004.04.28 02:40 AM
 しばらく正式版をリリースしてないRNAですが、すでに新バージョンのモジュールは全部できていて、いまはデザインやらテンプレートやらを考えているところ。2.0を名乗る以上、何か面白い見せ方を打ち出したいというのもあり。試行錯誤中、個人的に作って楽しかったのは LINK http://foaf.jp/2k/ma/rss/recent_entry.html これ。一見何が起っているのかわかりにくいけど、これこそRNAのカスタマイズ性をめいっぱい活用した例かなあとは思。ちなみにBlogTimesは偽物です。他の製品でもやってそうな気はするが(最近追っかけてない...)、簡単にインストールできるというところで勝負するかな?..

TrackBack

RSSアンテナ導入しました from <http://x-plala.jp/cgi-bin/blog/index.php?no=126>
 RSSアンテナ本日これを追加しました。たよん氏からの情報です。ありがとうございます。当初、現行最新バージョンの正式版 : Version 1.9.2 (build 040208) を導入したのですがうまく動作せず。

Link

http://foaf.jp/2k/ma/rss/recent_entry.html from http://foaf.jp/2k/ma/rss/recent_entry.html

Blog Hacks 2004.04.09 01:24 AM
 4月下旬~5月上旬に発売予定の「Blog Hacks」(オライリー)でRNAの記事を書かせてもらっています。これまで、書きものといえど論文と日記とプロポザルしかなくて、今回のような一般書籍向け?の口調というのか文体というのかには全く慣れていないことが発覚。本屋に行けば山のような書籍があって、その1冊1冊が誰かの手によって書かれていることに改めて感嘆。とこの本に対する賛成度1%未満(しかも勝切遅れ気味)のわたしは思いました。...

TrackBack

RNAのTrackBack Tracing from <http://www.kasm.nii.ac.jp/~2k/mt/archives/000796.html>
 RNAには、このようなTrackBack抽出機能が実装されていて、なかなか便利です。しかも最近では500件も1000件もTrackBackを受ける人気サイトもあって、これをどのように表示させるかはちょ

Original Content

TrackBacked Content

ひきびきに 2004.03.17 00:16 AM
 長いこと書いてないなあ。すみません。いまは新年度に向けての仕込みとサイトの再編などを裏側でやっています。さて、今年度のsemblogプロジェクトの締めくくりを兼ねて、LINK <http://www.gbrc.jp/GBRC.files/workshop/network.html> 社会ネットワーク研の会というところを発表します。わりと結構な会なので人数が入れるのがどうかよくわかりませんが、もしよければどう

FOAF Management

RNA::FOAF EDIT

FOAF: Friend Of A Friend [FOAF RDF](#) [FOAF Explorer \(View\)](#)

Name

- ニックネーム

E-mail

暗号化

Blog URI

- あなたの写真のURI

- 電話番号

- RNAのURI

Add New Friend
 ※ Not compatible with previous version.
 URL of FOAF or Trackback CGI

FOAF TrackBack

RNA::FOAF EDIT

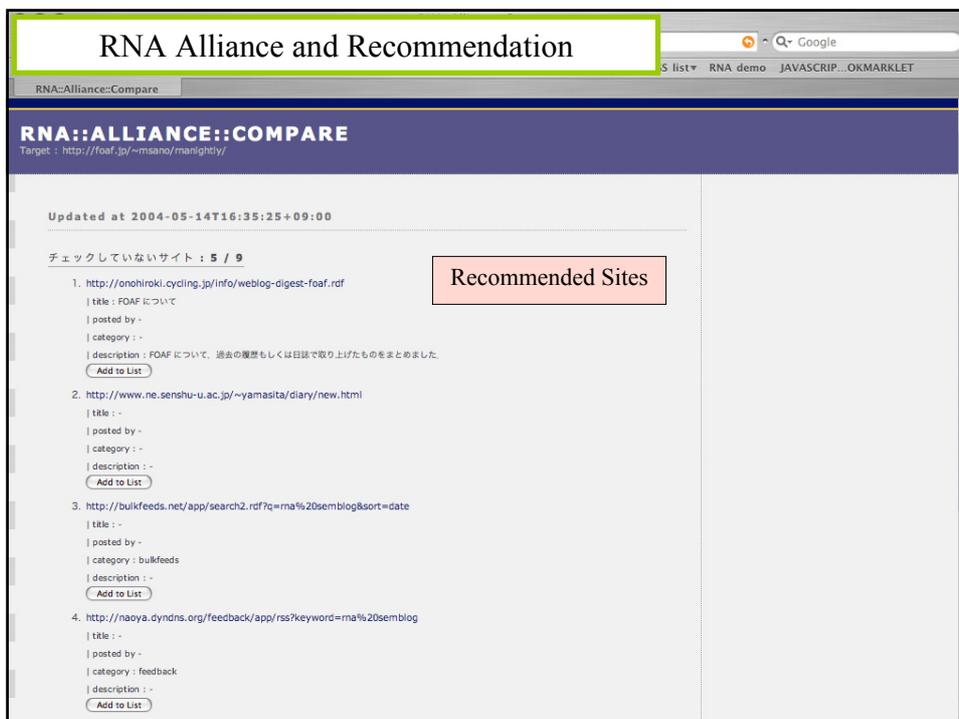
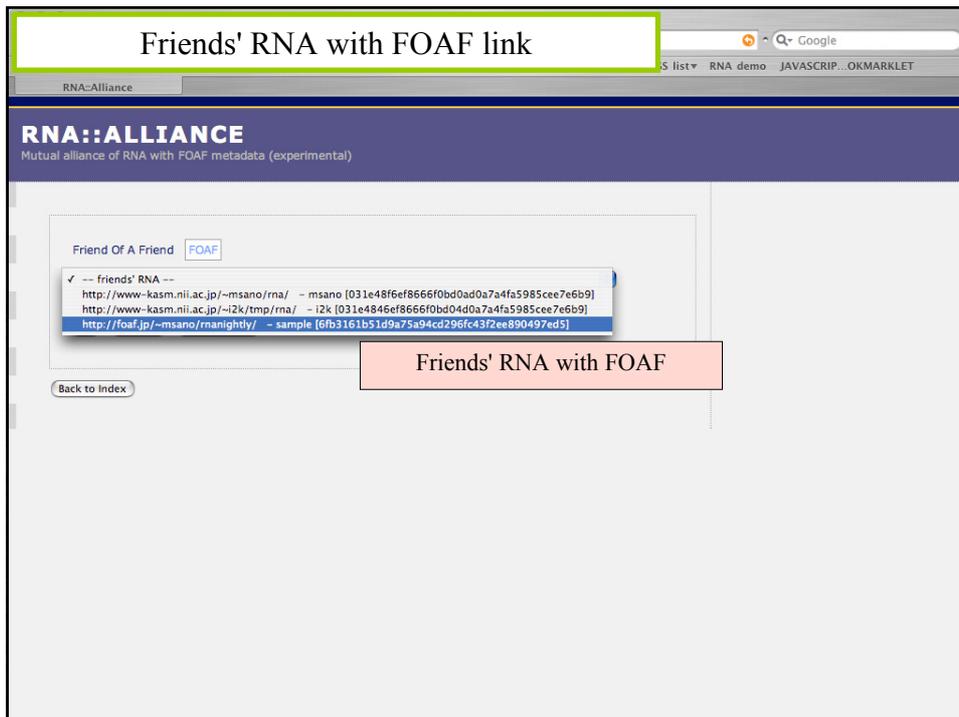
- RNAのURI

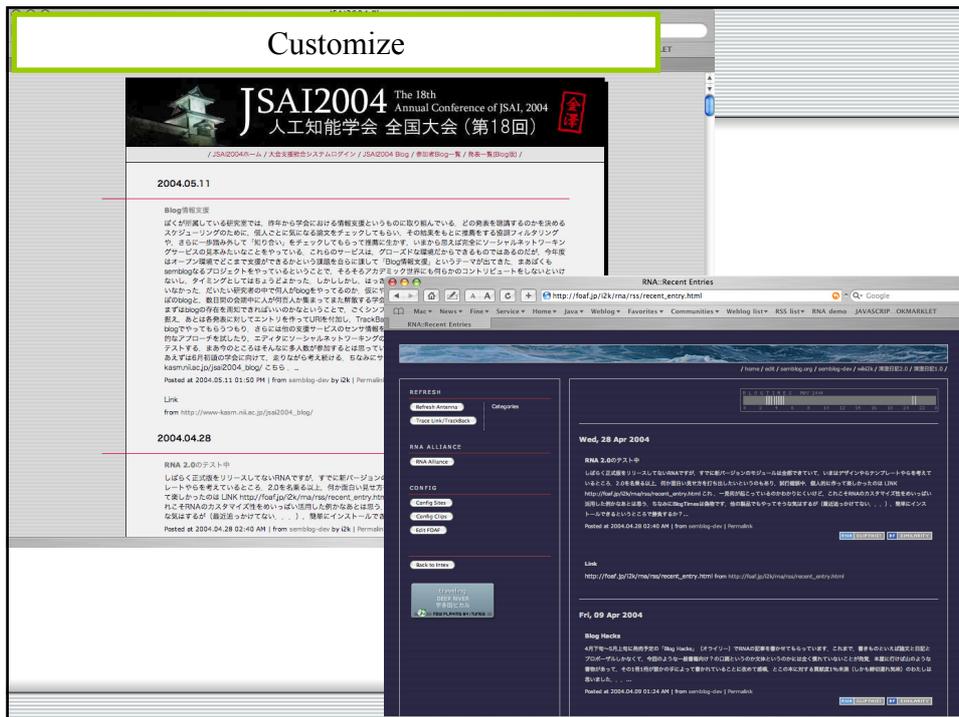
Add New Friend
 ※ Not compatible with previous version.
 URL of FOAF or Trackback CGI

Trackback

Hello from...
 SUPER RNA | <http://isnot.jp/superma/foaf.rdf> | Tue Feb 24 20:40:42 2004

Manage FOAF RDF
 -- friends --





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.