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# **Quick Semantic Collaborative Authoring and Classifying on the Web**

David Aumüller

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# Motive: Organizing Information

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- Example: Scientific Papers, Biblio.
  - Author(s), title, year, venue
  - Keywords
  - Abstract/full text
  - Citation count
- Annotations
  - Comments, reviews
  - Categories, see-also's

# Collaboration – What's possible

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- Dirty data/metadata – Community to ...
  - ... help clean the data (Collab. Curation)
  - ... classify documents
  - ... annotate, rate, review, relate
  - ... update
- Interface/platform
  - Wiki-like – quick, that is.
  - Easy to fix errors, not hard to make them

# Agenda

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- Accessible Classification Systems
  - Searching
  - Browsing
- Quick Authoring/Classifying
  - Semantic Wiki
    - Example/Demo
    - Challenges
- What's ahead?

# Making Information Accessible

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- Full Text Search
- Authority List
  - Simple controlled vocabulary
- Taxonomy
  - Hierarchical controlled vocabulary
- Faceted Classification
  - Multiple taxonomies
  - Each item can live in multiple slots

# Full Text Search

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## Pros:

- Easy to implement, simple form accessing database
- Most words are indexed, great search *range*, high search *specificity*

## Cons:

- Data is not organized
- Requires content authors to include all relevant terms
- Word count frequency not a good determinant of relevance/quality
- Easy to get too many or no results – patience needed
- Any effort, time, and cost, saved during database production are passed on to the searcher

# Authority List (Simple C. V.)

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## Pros:

- Controlled access searching supports efficient retrieval
- Spelling errors, acronyms, other common variants mapped to preferred terms
- Input data quality improved by including known keywords
- Addresses some usability concerns: error tolerance, showing context for search results

## Cons:

- Relationships between concepts/content items hard to manage
- Keyword list must be manually maintained
- May not scale easily

# Taxonomy (hierarchical C. V.)

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Pros:

- Relationships between concepts, made explicit
- Domain knowledge clarified for all users
- Similar to known reference tools: encyclopaedias, phone books, library catalogs

Cons:

- Increased maintenance complexity, editor needed
- Strict hierarchy of concepts may not be flexible or clear enough for all uses
- Taxonomy cannot be automatically generated

Adding hierarchical structure to the c.v. list improves site navigation.



# Faceted Classification

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- Facets = multiple attributes
- Facet values = attribute values
  - Can be hierarchical, e.g.:
    - Location: Europe > Germany > Leipzig
- Faceted navigation/browsing/searching
  - Find items that match multiple criteria:
    - Location: England
    - Era: 19th century
    - Profession: Literary author

## Flamenco Architecture Image Search

Images from the Architectural Visual Resources Library, University of California, Berkeley

SAVE MY FLAMENCO RETURN TO SEARCH NEW SEARCH LOGOUT

Questions or Comments? Email Kevin Li (kevinli@sims.berkeley.edu)

SEARCH  
 Show tooltip previews of subcategories

Username  Password   
[Create a New Account](#) LOGIN

### Concepts

- [Access](#) (1)
- [Barrier-free design](#) (4)
- [Circulation](#) (2)
- [Cultural](#) (145)
- [Economic](#) (17)
- [Environmental](#) (471)
- [Housing](#) (1188)
- [In the arts](#) (3792)
- [Legal](#) (24)
- [Philosophical](#) (21)
- [Political](#) (70)
- [Psychological](#) (116)
- [more...](#)

### Locations

- [Africa](#) (1440)
- [Antarctica](#) (37)
- [Asia](#) (2864)
- [Australasia & pacific islands](#) (186)
- [Central america](#) (70)
- [Eastern europe](#) (1165)
- [Middle east](#) (1813)
- [North america](#) (11585)
- [South america](#) (654)
- [Southeast asia](#) (465)
- [Western europe](#) (11744)

### Materials

- [Animal material](#) (36)
- [Artists' materials](#) (31)
- [Asphalt](#) (2)
- [Brick](#) (1380)
- [Building materials](#) (727)
- [Cement](#) (5)
- [Ceramic](#) (5)
- [Ceramic tile](#) (207)
- [Chalk](#) (8)
- [Chemical compounds](#) (16)
- [Clay](#) (20)
- [Coating](#) (482)
- [more...](#)

### Building Names

- [1001 pennsylvania avenue](#) (2)
- [133 s. 22nd st.](#) (2)
- [1515 9th avenue](#) (3)
- [16th street baptist church](#) (2)
- [18th/arkansas lofts](#) (3)
- [18th/arkansas townhouses](#) (4)
- [1927 stones: monument against racism](#) (6)
- [202 island inn](#) (7)
- [22 kloof street](#) (1)
- [24 hrs in life of working-class filippov family](#) (1)
- [245-47 s. 17th st.](#) (1)
- [25b rue franklin](#) (9)
- [more...](#)

### Periods

- [17 & 18th c](#) (1400)
- [19th century](#) (2261)
- [20th century](#) (17827)
- [Islamic-hegira, 622 ce](#) (1391)
- [Modern](#) (5634)

### People

- [Agency](#) (245)
- [Architect](#) (16266)
- [Artist](#) (1773)
- [Author](#) (289)
- [Culture](#) (690)
- [Designer](#) (270)
- [Developer](#) (91)
- [Historical figure](#) (225)
- [Instructor](#) (725)
- [Photographer](#) (103)

### Source

- [A & v](#) (49)
- [A + u](#) (151)
- [A. jaffe pc](#) (1)
- [Aalto 7](#) (1)
- [Aama alum](#) (5)
- [Abegg-stiftung](#) (3)
- [Abitare](#) (4)
- [Abmc](#) (29)
- [Abu-lughod](#) (13)
- [Acciaresi](#) (4)
- [Ackerman](#) (1)
- [Ackerman dupe](#) (4)
- [more...](#)

### Styles

- [African](#) (599)
- [Ancient](#) (74)
- [Asian](#) (3755)
- [Australian & pacific island](#) (187)
- [Bronze age](#) (26)
- [Central american](#) (2)
- [Early mediterranean](#) (2112)
- [Early near eastern](#) (777)
- [European](#) (13699)
- [Iron age](#) (26)
- [Islamic](#) (583)
- [North american](#) (14232)
- [more...](#)

### View Types

- [Axonometrics](#) (119)
- [City aerial views](#) (702)
- [Design drawings](#) (318)
- [Drawings](#) (178)

# Flamenco Architecture Image Search

SAVE SEARCH MY FLAMENCO RETURN TO SEARCH NEW SEARCH LOGOUT

Images from the Architectural Visual Resources Library, University of California, Berkeley Questions or Comments? Email Kevin Li (kevinli@sims.berkeley.edu)

SEARCH  
 all items  within current results

Refine your search further within these categories:

Concepts (group results)

Locations: all > Western Europe > Great Britain > England (group results)  
London (14)

Materials: all > brick (group results)  
Brickwork (1)

Building Names (group results)  
Avenue, the (1)  
Dulwich college picture gallery & mausoleum (2)  
Natural history museum (4)  
Old swan house (2)  
Saint pancras station (2)  
Soane house (3)

Structure Types (group results)  
Architectural elements (13) Details (14)  
Buildings (by function) (14) Parts of buildings (1)

Periods (group results)  
19th century (14)

People (group results)  
Architect (14)

Source (group results)  
Port, m (1) Radford dupe (13)

Styles (group results)  
European (14)

View Types: all > exterior details

These terms define your current search. Click the X to remove a term.

Locations: Western Europe > Great Britain > England X

Materials: brick X

View Types: exterior details X

14 results (Group by Locations, Group by Materials, Group by View Types)

sort by: building name, location, architect



Avenue, the London Shaw, Richard No...



Dulwich College ... Dulwich Soane, John



Dulwich College ... Dulwich Soane, John



Natural History ... London Waterhouse, Alfred



Natural History ... London Waterhouse, Alfred



Natural History ... London Waterhouse, Alfred



Natural History ... London Waterhouse, Alfred



Old Swan House Chelsea Shaw, Richard No...



Old Swan House Chelsea Shaw, Richard No...



Saint Pancras St... London Scott, George Gi...



Saint Pancras St... London Scott, George Gi...



Soane House London Soane, John

# Faceted Classification

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## Pros

- Multiple categories more flexible, scalable
- Maintenance easier: concept structures small
- Accommodates new concepts and relationships
- Local changes do not disturb other parts
- Easier for searchers to understand context
- Supports complex searches and browsing

## Cons

- Increased maintenance complexity – domain expert required
- Facets cannot be automatically generated

# Social/Community Approach

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- Tags/keywords as so-called *folksonomy*
  - Keywords given **freely** to ...
    - Bookmarks – del.icio.us
    - Photos – flickr
    - Papers/books – cite-u-like
    - ...
- Out of control?
  - Community aspect: feedback
    - Effort gets rewarded – enticement to tag



find and discover favorites

## common tags

- google
- web
- search
- maps
- tools
- software
- ajax
- googlebase
- web2.0
- googlemaps
- rss
- blog
- news
- fun
- reference
- base
- internet
- javascript
- programming
- database
- blogs
- flash
- map
- social
- gmail

## Results for google base

showing 1 - 10 of about 1358

[« previous](#) | [next »](#)

### Google Base

to [google search tools database googlebase](#) by [258 people](#)

### Google Base

to [google search database web2.0 googlebase](#) by [206 people](#)

### Google Base: All your base are, in fact, belong to us

to [google search base database internet](#) by [97 people](#)

### Google Base

to [google search database googlebase base](#) by [102 people](#)

### Official Google Blog: First Base

to [google googlebase base search web](#) by [67 people](#)

### Burnham's Beat: RSS and Google Base: Google Feeds Off The Web

to [google rss xml googlebase web2.0](#) by [45 people](#)

### Google Base Was Sort of Live

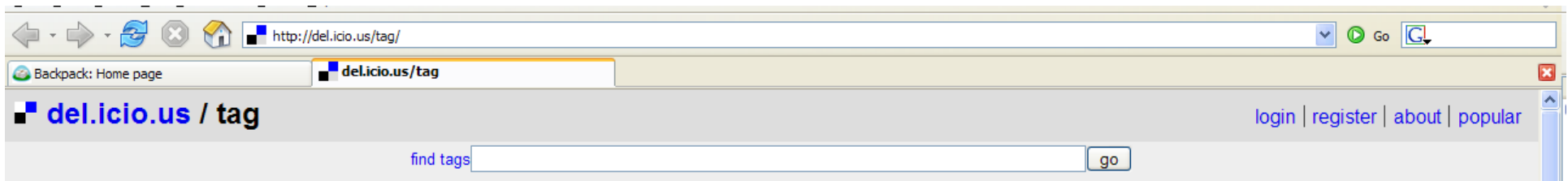
to [google googlebase database web tools](#) by [56 people](#)

### More Google Base Screenshots

to [google database base googlebase screenshot](#) by [47 people](#)

### seweso's blog: Google base

to [google googlebase screenshot database folksonomy](#) by [35 people](#)



software web design blog reference tools programming music  
css linux howto art news mac blogs webdesign fun ajax  
photography windows internet games javascript humor tutorial  
cool osx technology free development science security politics  
toread business tips flash java search shopping freeware  
google rss opensource funny webdev php tech ruby books  
food apple productivity gtd video flickr graphics education travel xml  
html media history computer python culture diy del.icio.us daily blogging maps  
tutorials research article hacks hardware inspiration firefox gaming audio photos  
religion writing wiki photo community resources social rails utilities work download  
comics code language geek lifehacks mp3 useful mobile wordpress web2.0 poker  
tool images email cooking cards usability movies health gambling learning cms links  
japan interesting photoshop todo onlinepoker sportsbook casino jobs podcast radio personal gambler gamble  
cash network online architecture recipes humour game tv articles magazine computers career betting casinos  
film electronics information book hosting database forum job marketing microsoft misc fonts hack unix dev  
entertainment resource .net stud bet management literature organization shop movie nyc guide macosx  
folksonomy tagging hacking china environment perl money philosophy bittorrent tags gmail library animation accessibility  
home economics finance life p2p illustration visualization website people sex xhtml ipod standards voip color fashion  
networking gallery bookmarks podcasting info uk gui interface 3d gadgets psychology society japanese apps sysadmin  
partypoker weird porn documentation ideas clothing evolution wishlist palm furniture math mapping ui portfolio extensions googlemaps  
weather utility weblog law reading temp os friends dvd sports advertising pc comic webservices torrent usa read wireless physics server ebooks  
api government english future service map privacy plugin macintosh teaching it canada coding house theory rubyonrails image framework reviews  
dhtml torrents school oracle digital kids delicious



http://www.flickr.com/photos/tags/

Backpack: Home page del.icio.us/tag CiteULike: A free online service to organise ... Popular Tags on Flickr Photo Sharing

Photos: [Explore Flickr](#) • [Learn More](#)

**flickr** BETA

Tags

(Or, try an [advanced search](#).)

**Hot tags**

**In the last 24 hours**  
 radiator, otakon2005, thenetherlands, monroe, kelowna, boweryballroom  
 week4, houseboat, sufjanstevens, otakon, fermidaily, samsung, greeneyes, beta, ct, d70s, josie, underpass, indy, concierto

**Over the last week**  
 flickrmagazine, magazinecover, barcamp, foocamp, sail05, candlelightvigil  
 namethatfilm, sflickrstroll0805, reshelving, findleastinteresting, sail2005, cindysheehan, foocamp05, wyd, sheehan, wjt, metachat, moveon, campcasey, vigil

**All time most popular tags**

amsterdam animal animals april architecture art australia baby barcelona  
 beach berlin bird birthday black blackandwhite blue boston bridge building bw  
 california cameraphone camping canada car cat cats chicago  
 china christmas church city clouds color colorado concert day dc dog dogs england  
 europe family festival fireworks florida flower flowers food france  
 friends fun garden geotagged germany girl graduation graffiti green hawaii  
 holiday home honeymoon house india ireland italy japan july june kids lake  
 landscape light london losangeles macro march may me mexico moblog  
 mountains museum music nature new newyork newyorkcity newzealand night  
 nyc ocean orange oregon paris park party people phone photo pink portrait  
 red reflection river roadtrip rock rome sanfrancisco school scotland sea seattle sign  
 sky snow spain spring street summer sun sunset taiwan texas thailand  
 tokyo toronto travel tree trees trip uk unfound urban usa vacation  
 vancouver washington water wedding white winter yellow zoo

What are tags?

Done Adblock





## Comments



[helimars pro](#) says:

mich wundert, dass das noch keiner zerstört hat, am besten abbauen und mit nach Hause nehmen!

Posted 2 weeks ago. ([permalink](#))



[hauptphase pro](#) says:

und dort gibts dann doppelt konzentrierte suppe!

Posted 3 days ago. ([permalink](#))

## Would you like to comment?

[Sign up](#) for a free account, or [sign in](#) (if you're already a member).



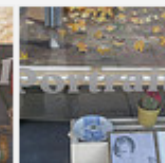
You are at  
the last  
photo

214  
photos  
[View as  
slideshow](#)

< prev

This photo also belongs to:

- Leipzig (Set)



11  
photos  
[View as  
slideshow](#)

< prev

next >

+ Street Corners (Pool)

+ FlickrCentral (Pool)

+ Signs (Pool)

+ Murals & Graffiti (Pool)

+ Facades (Pool)

+ Schilder, Schmilder [signs] (Pool)

+ emptyphoto (Pool)

## Tags

- Leipzig
- GDR
- DDR
- Reklame
- Schild
- advertisement
- Konserven
- tin
- can
- Graffiti

## Sky over Leipzig 2



Taken on the same day as the previous photo. A few minutes later the wind had blown the clouds away. I wish there was an ensemble of skyscrapers and not merely one famous landmark ...

### Comments



[bakpacker\\_pro](#) says:



Uploaded on June 9, 2005  
by [onlystardust](#)

#### onlystardust's photostream



354  
photos

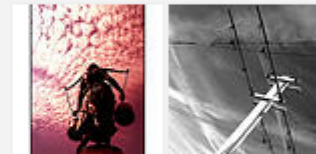
[View as  
slideshow](#)

< prev

next >

This photo also belongs to:

#### Looking up (Set)



9  
photos

[View as  
slideshow](#)

< prev

next >

+ Sky (Pool)

### Tags

[Leipzig](#)

### Additional Information

- © All rights reserved
- o Taken on [June 9, 2005](#)
  - o [7 people](#) call this photo a favorite.
  - o Viewed 93 times.

SEARCH

For the latest news or updates on the Ning Playground, visit the [Ning Blog](#).

### Example Apps

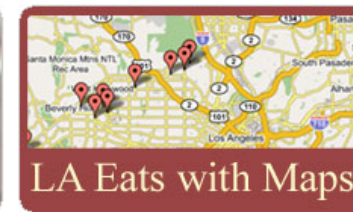
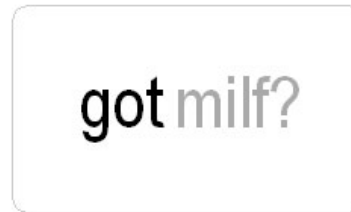
- [Restaurant Reviews](#)
- [Restaurant Reviews w/Maps](#)
- [Bookshelf](#)
- [Rate My Teachers](#)
- [This or That](#)
- [How Much Do I Rock?](#)
- [Bookmarks](#)
- [Photo Sharing](#)
- [Dating](#)
- [Questions & Answers](#)
- [Simple Social Network](#)
- [Anytown Listings](#)
- [Anytown Marketplace](#)
- [Find-A-Developer](#)
- [Wishlist](#)
- [Discussion Board](#)
- [Blog](#)
- [Confess!](#)
- [Storyteller](#)
- [Bay Area Hiking Trails](#)

## Welcome to the Ning Playground

With Ning, all you need is a good idea to run your own social application. **Social apps let you match, transact, and communicate with other people.** A few clicks, no coding (unless you want to), and you can be up and running with your own social app in minutes.

- For any City → **Create your own Classified Listings**
- For any Interest → **Create your own Online Reviews**
- For any Event → **Create your own Photo Sharing App**
- For any School → **Create your own Social Network**

[Sign up and build your own social apps on Ning »](#)



## Top Social Apps on the Ning Playground

[More Top Apps »](#)

all things stupid • anytown listings • bay area hiking trails • bead store reviews with maps • bookmarks • **bookshelf** • bulldogster • choose your beer • confess! • **dating** • developer discussion • douchetracker • find-a-developer • girl on girl • got milf? • how much do i rock? • ning developer documentation • **photo sharing** • restaurant reviews with maps • roshambo • storyteller • superhero dating • tablet pc duel! • technical archaics • **wishlist**

## Top Tags on the Ning Playground

[More Top Tags »](#)

art • battle • blog • classics • CSS • delphi • design • email • fantasy • **fiction** • food • fun • funny • geek • history • milf • **music** • ning • nudes • php • **scifi** • test • tutoriales • tv • web



# Bookshelf

All Books Top Tags Search

## All Books

There are 521 readers and 968 books on this bookshelf.  
Showing 1 - 15.

Sort by



### The Wind-Up Bird Chronicle : A Novel (Vintage International)

By Haruki Murakami | [See this on Amazon](#)

Avg. Rating: ★★☆☆☆

First shelved by [sakanasato](#) on November 20th, 2005  
0 people currently reading this book.

1 Comment



### Things That Make Us Smart: Defending Human Attributes in the Age of the Machine

By Donald A. Norman | [See this on Amazon](#)

Avg. Rating: ★★★★★

Most recently shelved by [huerlisi](#) on November 18th, 2005  
First shelved by [crosenblath](#) on October 4th, 2005, and 2 others since  
0 people currently reading this book.

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### The Design of Everyday Things

By Donald A. Norman | [See this on Amazon](#)

Avg. Rating: ★★★★★

Most recently shelved by [huerlisi](#) on November 18th, 2005  
First shelved by [sibisoro](#) on October 8th, 2005, and 2 others since  
0 people currently reading this book.

0 Comments



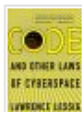
### The European Dream

By Jeremy Rifkin | [See this on Amazon](#)

Avg. Rating: ★★★★★

First shelved by [huerlisi](#) on November 18th, 2005  
0 people currently reading this book.

1 Comment



### Code and Other Laws of Cyberspace

By Lawrence Lessig | [See this on Amazon](#)

Avg. Rating: ★★★★★

1 Comment



http://tabletpcduel.ning.com/

# TABLET PC DUEL!

NEW DUEL

WINNERS

LOSERS

NEWEST

ADD A TABLET

GRIPES

WISHES

## Which tablet would you want more?



**EliteGroup ECS EZ30**

vs.



**Lenovo ThinkPad X41  
Tablet**

Choose your tablet and place your vote!

# Classification Schemes /Scope

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- **Folksonomy:** propose other *related* tags to users based on frequency, forming clusters
- **Taxonomy:** more query and navigation possibilities, e.g. research topic taxonomy
  - Not only by title/author/year, tags/keywords
  - But also via related categories/concepts
    - either by way of **transitive relationships**, i.e. super/sub-classes of research-topics  
e.g. ‘Model Management’ as super-concept to ‘Schema Matching’, ‘Ontology Matching’, ‘Evolution’
    - or other relationships, e.g. “see-also” within an ontology
  - Giving context; consider a concept ‘Evolution’

# Agenda

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- Accessible Classification Systems
  - Searching
  - Browsing
- Quick Authoring/Classifying
  - Semantic Wiki
    - Example/Demo
    - Challenges
- Are we there yet?

# What is a Wiki? – Two things.

---

- » A **Wiki** enables documents to be written collectively in a simple markup using a web browser « [**wikipedia**].
- » A **collective website** where a large number of participants are allowed to modify any page or create a new page using their Web browser « [**Desilets05**].



# What is a Wiki? – Keypoints

---

- Quick
  - Collaborative
  - Authoring
  - On the Web
- » Making it easy to correct mistakes, rather than making it hard to make them « [WikiWay]

# What is a Semantic Wiki? /1

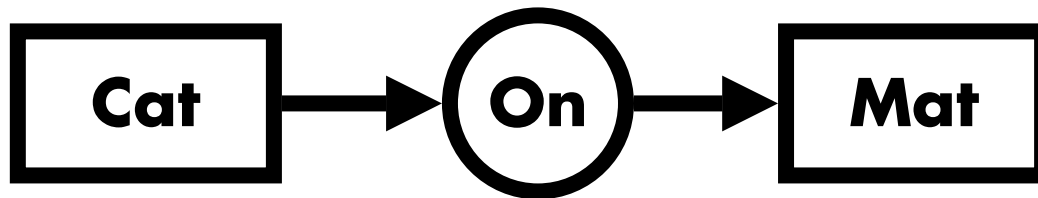
---

- Intersection of **Wiki** and **Semantic Web**
- Semantics/*semantikos*: significant meaning, derived from *sema*/sign
- Semantic Web
  - Giving meaning processable by machines
    - Conceptual graphs [John F. Sowa] (as triples)
    - URIs as identifier of concepts/relationships
    - Common vocabulary, e.g. Dublin Core, FOAF

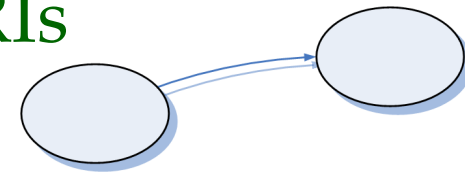
# The cat sat on the mat

---

- Conceptual Graph representation



- Semantic Web triple/statement
  - Subject, predicate, object/literal
  - Each identified via unique URIs



# Vocabulary, Generalization

---

- Thing

- Person

- Lecturer

- Author

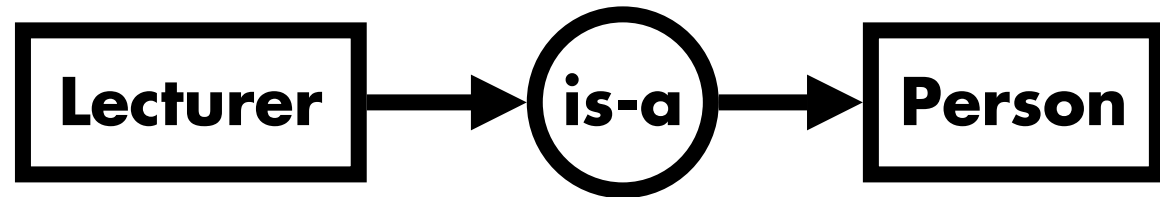
- Literary Author

- Potable Liquid

- Beer

- Stout

- Wine

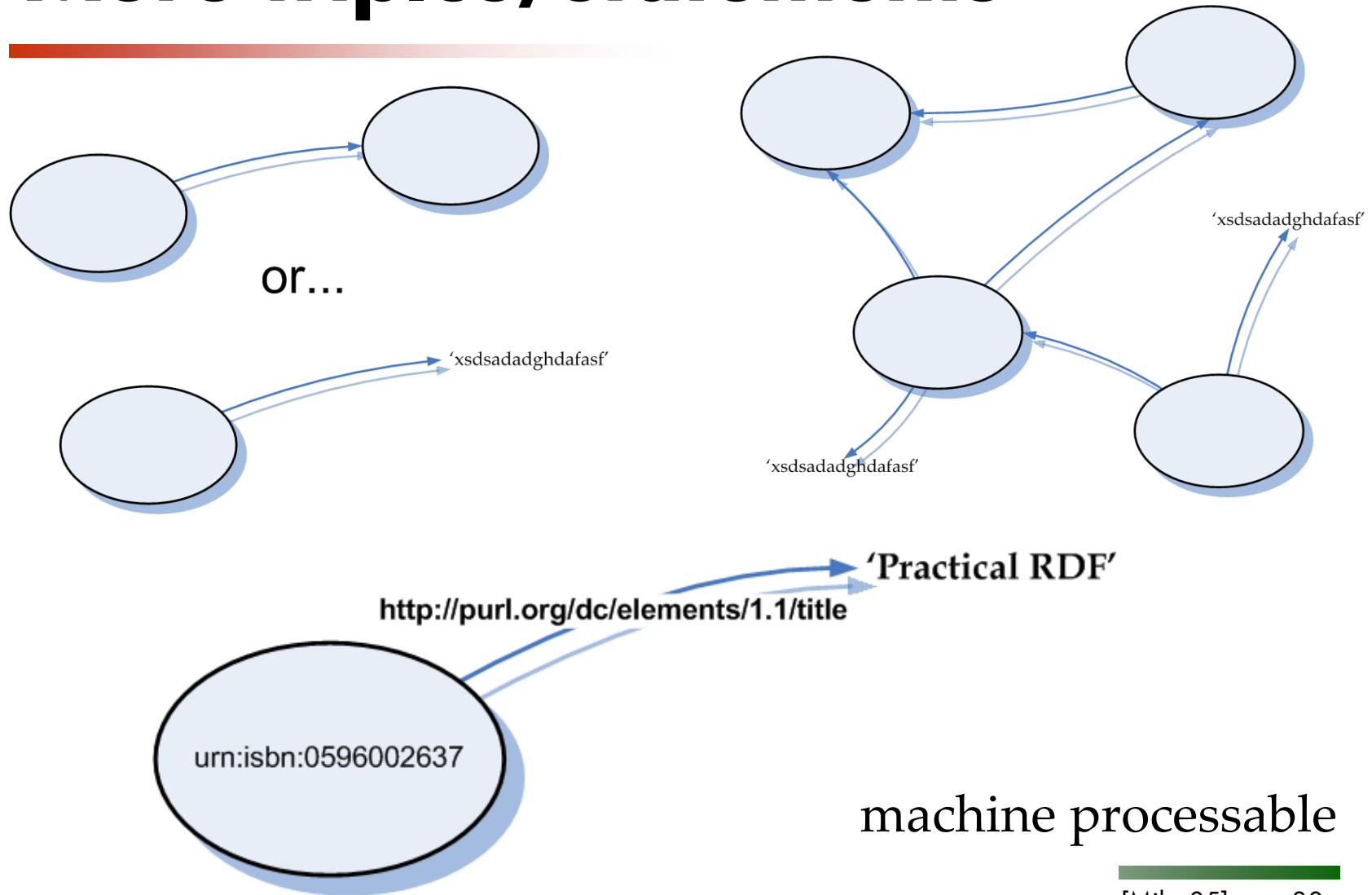


# Vocabulary, Namespaces/URIs

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- OWL:Thing
  - FOAF:Person
    - MyNS:Lecturer
    - DC:Author
      - MyNS:LiteraryAuthor
  - W3C:PotableLiquid
    - David:Beer
      - David:Stout
    - W3C:Wine

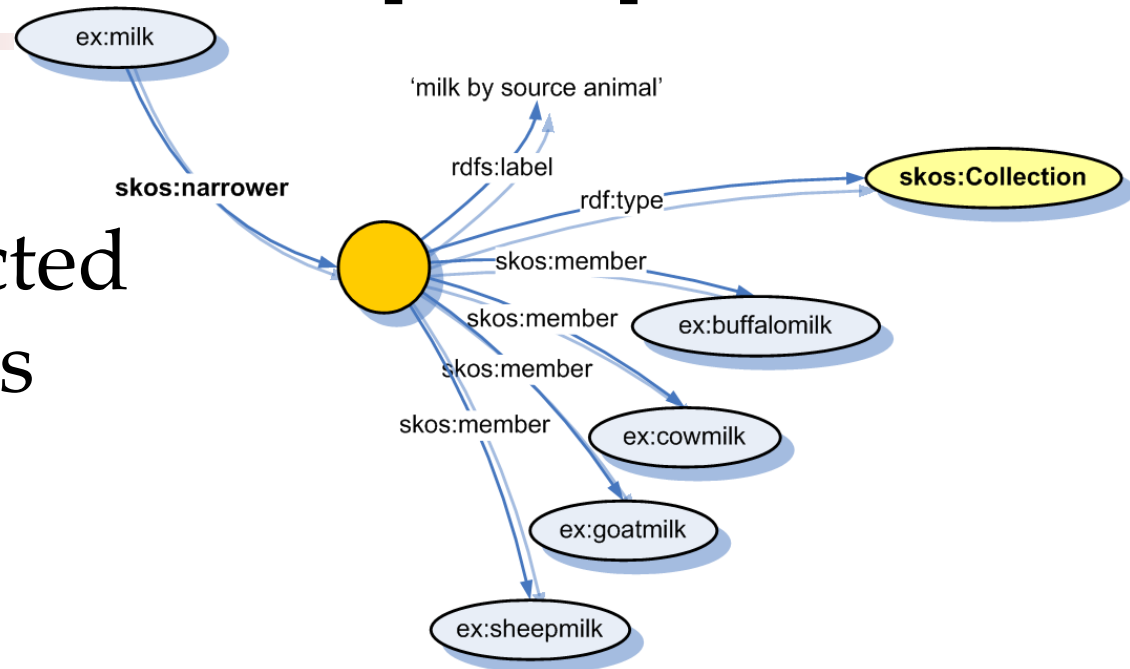
# More triples/statements



machine processable

# Semantic Web – Triple space

- Spans labelled directed acyclic graphs



- Query possibility using W3C's specs.
  - RDQL
  - SPARQL

# What is a Wiki? – Revisited

---

- Quick
- Collaborative
- Authoring
- On the Web



# What is a Semantic Wiki? /2

---

- Quick
- Collaborative
- Authoring
- On the Web
- Of **concepts** and their **relationships**
- ... offering querying, navigating, ...  
... a lot.

# How? – A semantic wiki demo

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- Editing relationships between concepts
- *Quick?* – Keep it simple!
  - Simple syntax (extended CamelCase)
  - Single form to enter everything
- Entering/authoring
  - Relationships create navigational means
  - Querying
  - Interactivity

---

# Demo

» make it easy to correct mistakes,  
rather than making it hard to make them.

[WikiWay]

# Query Interface/Translation

---

- Translating user-entered query into SPARQL/RDQL-query, e.g.:
  - InstanceOf=LiteraryAuthor  
DateOfBirth between 1800 and 1900
- ... becomes by way of a regular expression:
  - SELECT ?resource ?tempDateOfBirth  
?tempDateOfBirth FROM  
<http://localhost/triples.n3> WHERE  
( ?resource <#InstanceOf> <#LiteraryAuthor> )  
( ?resource <#DateOfBirth> ?tempDateOfBirth )  
AND ?tempDateOfBirth >= 1800 ,  
?tempDateOfBirth <= 1900

# Query Translation: Reg. Exp.

```
$query =~ s/$wikipattern$op$literal/
  my $pred = $1; my $xop = $2; my $lit = $3;
  if ($xop ne "=") {
    $selects.=" ?temp$pred";
    if ($xop eq "=~") {
      $andclause.=" ?temp$pred $xop \"V$litV\" ,";
    }
    else {
      $andclause.=" ?temp$pred $xop $lit ,";
    }
    "( $var1 <$wuri$pred> ?temp$pred ) "
  } else {
    if ($lit=~$wikipattern) {
      "( $var1 <$wuri$pred> <$wuri$lit> ) "
    } else {
      "( $var1 <$wuri$pred> $lit ) "
    }
  }
/xge;
```

# A Semantic Wiki Hype?

---

- Related Work
  - Platypus
  - SnipSnap
  - pOWL/OntoWiki
  - MediaWiki
  - SemperWiki
  - DiamondWiki
  - ...



## Publications

- ▶ [Research Area](#)
- ▶ [Publication venue](#)
- ▶ [Year](#)
- ▶ [Paper type](#)

## Features

- [Publication Index](#)
- [category browser](#)

## Recent comments

## cat

- ▶ [Forums](#)
- ▼ [create content](#)
  - [Publication](#)
  - [forum topic](#)
- [my account](#)
- [recent posts](#)
- [blocks](#)
- [categories](#)
- [menus](#)
- [log out](#)

[Home](#) » [create content](#)

## Submit Publication

### Title:\*

RevOWLution - Rapid Ontology Evolution

### Research area:

- DB evolution
- Ontology evolution
- Web service evolution
- Workflow evolution
- Software evolution
- Schema language / data model
- relational
- object-oriented
- XML
- ER / UML
- OWL / RDF
- Versioning

### Publication venue:

Unpublished / Tech report

### Year:

2006-2007

### Paper type:

- <none>
- Implementation
- Product
- Prototype
- Theory

### Authors:

Potter, Harry; Squarepants, Spongebob

list of authors as in Aumueller, David; Simpson, Homer

Title

Details (optional) ?

Details are **attributes** that define the item and help searchers find it. For example, "Author: Ernest Hemingway" or "Area: 400 square km".

Author:  [x]  
Text

Publication Name:  [x]  
Text

Publish Date:  Time: (optional)  [x]  
Date range  
 Specify end date

Pages:  [x]  
Number

Publication Volume:  [x]  
Text

[x]  
Web URL ▼

[x]  
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[Add another attribute...](#)

Labels (optional) ?

Keywords or phrases that describe your item. Maximum of 10. Separate with commas.



# Authoring Information w. Class

---

- Free tags/keywords
  - No relationships except via clustering
- Free relationships/categories
  - Too many relationship types/categories?
- Providing selection of categories
  - Inflexible?
  - Cumbersome?

# Challenges

---

- High effort populating initial database
  - Community does it
  - Web scraping per item, e.g. Bookmarklets
  - Bulk import, online data provider
- Query interface too cumbersome
  - Auto-completion may help
  - Combination of browsing and querying
- Usable but scaleable system wanted

# Wanted

---

- Bulk import
  - E.g. biblio. domain: Selection of articles thru Web Services by iFuice/biblioFuice
- Issues
  - Categories – enter how, retrieve from where?
  - Static vs. dynamic content – updateability
    - Author, title, venue, date
    - Citation count

---

**Last slide**

Thank you

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