

# Science 2.0, e-Science, Cyberscience – Wissenschaft im Web 2.0

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8. Januar 2010

## 1 Einleitung

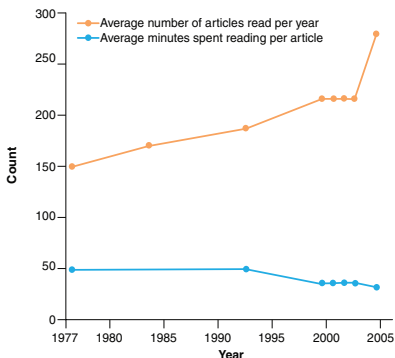
- Paradigmenwechsel in der wissenschaftlichen Arbeitsweise
- Web 2.0 + Science = Science 2.0?

## 2 Werkzeuge

- Recherche und Wissensorganisation
- Kommunikation
- Kollaboration

## 3 Diskussion

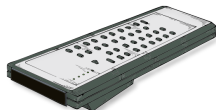
- Risiken und Nebenwirkungen
- Ausblick: Bibliothek 2.0?



**Abbildung:** Zunahme der **gelesenen Artikel pro Jahr** ( $\emptyset$ ) und Rückgang der **Lesedauer pro Artikel in Minuten** ( $\emptyset$ ). Grafik aus Renear u. Palmer (2009, S. 829) nach Tenopir u. King (2008).

## Beispiel Literaturrecherche (nach Renear u. Palmer (2009, S. 829))

- viele schnelle, gezielte Suchanfragen
- eher »Scannen« als Lesen
- instantane Beurteilung der Relevanz
- Gezielte Suche nach Schlüsselinformationen:  
Inhaltsverzeichnisse, Listen, Tabellen, Formeln, Begriffe
- Analogien: Zapping, Computerspiele



»I think Web 2.0 is of course a piece of jargon, nobody even knows what it means.« (Tim Berners-Lee)

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## Charakteristika:

- Web als Plattform: Webseiten, die sich wie Desktop-Programme nutzen lassen
- Web als Datenspeicher: Cloud Computing
- Partizipation: Nutzer tragen zum Wert einer Anwendung bei (Wikis, Social Tagging)
- Kommunikation: Jeder kann einfach publizieren (Blogs, Microblogging)

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## Zusammenfassung

Neuartige Wahrnehmung und Nutzungsformen des Webs um die Mitte des vergangenen Jahrzehnts

## Begriffskonfusion

- Cyberscience (Nentwich, 2003)





## Begriffskonfusion

- Cyberscience (Nentwich, 2003)
- Cyberscience 2.0 (Nentwich, 2009)



## Begriffskonfusion

- Cyberscience (Nentwich, 2003)
- Cyberscience 2.0 (Nentwich, 2009)
- e-Science



## Begriffskonfusion

- Cyberscience (Nentwich, 2003)
- Cyberscience 2.0 (Nentwich, 2009)
- e-Science
- Interactive Science



## Begriffskonfusion

- Cyberscience (Nentwich, 2003)
- Cyberscience 2.0 (Nentwich, 2009)
- e-Science
- Interactive Science
- Science 2.0



## Begriffskonfusion

- Cyberscience (Nentwich, 2003)
- Cyberscience 2.0 (Nentwich, 2009)
- e-Science
- Interactive Science
- Science 2.0
- Scholarship 2.0



## Begriffskonfusion

- Cyberscience (Nentwich, 2003)
- Cyberscience 2.0 (Nentwich, 2009)
- e-Science
- Interactive Science
- Science 2.0
- Scholarship 2.0
- Medicine 2.0



## Begriffskonfusion

- Cyberscience (Nentwich, 2003)
- Cyberscience 2.0 (Nentwich, 2009)
- e-Science
- Interactive Science
- Science 2.0
- Scholarship 2.0
- Medicine 2.0
- Health 2.0



## Begriffskonfusion

- Cyberscience (Nentwich, 2003)
- Cyberscience 2.0 (Nentwich, 2009)
- e-Science: Grid Computing (Primärdaten)
- Interactive Science
- Science 2.0
- Scholarship 2.0
- Medicine 2.0
- Health 2.0
- usf.





## Begriffskonfusion

- Cyberscience (Nentwich, 2003)
- Cyberscience 2.0 (Nentwich, 2009)
- e-Science
- Interactive Science
- Science 2.0
- Scholarship 2.0
- Medicine 2.0
- Health 2.0
- usf.

## Definition

Science 2.0: Nutzung von Web 2.0-Techniken für die wissenschaftliche Arbeit



## Charakteristika:

- Web-Applikationen statt Desktop-Applikationen
- Partizipation: Gemeinschaftliches Arbeiten an Daten oder Publikationen
- Kommunikation: Publikation von Zwischenergebnissen, Diskussion über Blogs, Kommentare usw.
- Open Access
- Open Data
- Open Source



- Viele Nutzer verwenden lieber Suchmaschinen als OPACs und Fachdatenbanken

Wissenschaftliche Suchmaschine BASE – Bielefeld Academic Search Engine: Trefferliste

Wissenschaftliche Suchmaschine BASE

BASE / Google Scholar

Ihre Suche: oai metadata

Suchen

Statistik: 16.998 Treffer in 21.809.209 Dokumenten in 0,12 Sekunden

1. METADATA: Stata module to enable access to metadata

**Titel:** METADATA: Stata module to enable access to metadata  
**Autor:** Niklos Aokitas  
**Inhalt:** metadata is written in order to demonstrate that Stata with its hypertext capabilities may be used to publish, browse and search metadata. Anyone can put up such a service and have it listed and searched by metadata. If you need info of how to do this contact the author. ; metadata, datasets, data documentation  
**Dokumentart:** code  
**URL:** <http://fmwww.bc.edu/repec/bocdms/m/metadata.do>  
<http://fmwww.bc.edu/repec/bocdms/m/metadata.hp>  
**Datenlieferant:** RePEc: Research Papers in Economics  
=> Diesen Titel in Google Scholar suchen

2. OAI Compatibility: exposing metadata of scientific publications

**Titel:** OAI Compatibility: exposing metadata of scientific publications  
**Autor:** Halgren, Timo  
**Schlagwörter:** open access ; electronic publishing ; OAI ; metadata ; harvesting ; xml  
**Inhalt:** Bibliotekarbejdes skrifterna 14 ; Knowledge and Change: Proceedings of the 12th Nordic Conference for Information and Documentation, Aalborg, 1-3 Sept, 2004, 167-173 ; The VTT

http://scholar.google.de - oai metadata - Google Scholar

Google scholar

Suche

Erweiterte Suche

oai metadata

Web-Suche

Suche Seiten auf Deutsch

Ergebnisse 1 - 10 von ungefähr 28.700 (0,03 Sek.)

Typ: Suchen nur nach Ergebnissen auf Deutsch. Sie können Ihre bevorzugten Sprachinstellungen in [Suche-Einstellungen](#) angeben.

[Exposing and harvesting metadata using the OAI metadata harvesting protocol.](#) A... - [arxiv.org](#) (1901)  
S Warner - Arxiv preprint eel106057, 2001 - arxiv.org  
Abstract In this article I outline the ideas behind the Open Archives Initiative metadata harvesting protocol (OAI/MLH), and attempt to clarify some common misconceptions. I then consider how the OAI/MLH proto-col can be used to expose and harvest metadata. Part code examples ...  
Zitert durch: 31 - [Ankliche Adilal](#) - [ITRM](#), [Version](#) - [Aka Z](#), [Version](#)

[Arc-an OAI service provider for digital library federation - Volltext@UB Bielefeld](#)  
X Liu, K Wang, M Zubair, M Nelson - DLib magazine, 2007 - dl.org  
... Service providers extract metadata from data providers via the OAI metadata harvesting protocol. ...  
2.2 Hierarchical Harvesters. We have also implemented two experimental OAI layers on Arc that we feel demonstrate the feasibility of the OAI metadata harvesting protocol. ...  
Zitert durch: 21 - [Ankliche Adilal](#) - [Im-Gauche](#) - [Aka Z](#), [Version](#)

[Waters' The Metadata Harvesting Initiative of the Mellon Foundation](#)  
J Donald - ARL Bimonthly Report - arl.org  
... While the OAI Metadata Harvesting Protocol was being developed, the Mellon Foundation sponsored a series of workshops at Harvard University to explore how libraries and other repositories of scholarly information could effectively utilize the new protocol in conjunction with ...  
Zitert durch: 21 - [Ankliche Adilal](#) - [Im-Gauche](#)

[White paper on establishing an infrastructure for open language archiving](#)  
S Bird, G Simons - ... on Web-Based Language Documentation and ... , 2000 - language-archives.org  
... Just as OLAC is a subcommunity of the OAI, there are other subcommunities in the scope of OLAC Language data centers (LDC, ELRA, GBK) ISLE Meta Data Initiative - detailed metadata for describing recorded speech events These subcommunities would support DC and ...  
Zitert durch: 9 - [Ankliche Adilal](#) - [ITRM](#), [Version](#)

[The Open Archives Initiative - Volltext@UB Bielefeld](#)  
M Henderson - [Berlita Review](#), 2002 - [Berlita](#)  
... The Andrew Mellon Foundation is funding seven institutions with grants totaling \$1.5 million to create gateway or portal services that will use the OAI Metadata Harvesting Protocol. ... The gateways will be built using the OAI Metadata Harvesting Protocol. ...  
Zitert durch: 10 - [Ankliche Adilal](#) - [Aka Z](#), [Version](#)

[Integrating harvesting into digital library content - psu.edu](#) ...

### Ihre Suche

### BASE / Google Scholar

- Alle BASE-Quellen
- Suche in Google Scholar

### Statistik

28.340 Treffer  
in 21.809.209 Dokumenten  
in 0,47 Sekunden

## Vorteile wissenschaftlicher Suchmaschinen

- einfache Bedienung
- Volltexte oft verfügbar
- große Zahl indexierter Quellen

... need to be an increase in the cognitive ability of the users to discern what has been retrieved from ...

**Dokumentart:** Book  
**Sprache:** en  
**URL:** [http://en.wikibooks.org/wiki/Introduction\\_to\\_Library\\_and\\_Informat...](http://en.wikibooks.org/wiki/Introduction_to_Library_and_Informat...)

**Datenlieferant:** WikiBooks - Inhaltsoffene Lehrbücher

» Diesen Titel in Google Scholar suchen

### 2. Introduction to Information Retrieval

**Titel:** Introduction to Information Retrieval

Autor

Schlagwörter

Erscheinungsjahr

Quelle

Sprache

Datentyp

Dokumentart



### Social Tags

Freie Schlagwörter, die von jedem Nutzer vergeben werden dürfen und ein kollaboratives Indexierungsvokabular (»folksonomy«) bilden.

The screenshot shows the Delicious website interface for a user named 'McIntosh'. The browser address bar displays 'http://delicious.com - McIntosh's Bookmarks on Delicious'. The page header includes navigation links for 'Home', 'Bookmarks', 'People', and 'Tags', along with a search bar and a 'Search' button. A secondary navigation bar contains 'Inbox', 'Settings', 'Help', and 'Sign Out'. The main content area is titled 'McIntosh's Bookmarks on Delicious' and features a sub-navigation for 'Bookmarks', 'Network', 'Tags', 'Subscriptions', and 'Inbox'. A message prompts the user to 'See more bookmarks in Popular, Recent, or look up a URL.' Below this is a search input field and a 'Type a tag' field. The bookmark list is sorted by 'Most Recent' and shows several entries with their dates, titles, and associated tags. The 'Tags' sidebar on the right lists 'Top 10 Tags' and 'All Tags' with their respective counts.

Date	Title	Tags	Count
30 NOV 09	Start - Bottle: Python Web Framework	python, framework, web, webdev	48
	TurboGears: Front-to-Back Web Development	python, web_development, web_server	383
	Recommendations of Python REST (web services) framework? - Stack Overflow	python, web_server	
28 NOV 09	Data.Information.Knowledge.Web > Notes from SWIB09	swib09, research_notes, hashofer	3
27 NOV 09	Webmail Uni-/ FH Bielefeld	unib, webmail	7
26 NOV 09	MPEG21 DIDL Application Profile for Institutional Repositories - Standards - SURFwiki	metadata, DIDL, PDF	2
	DOARC Projektseiten	doarc, oanetzwerk, odenburg, oai_related_projects	
25 NOV 09	Renear AH. Strategic reading, ontologies, and the future of scientific publishing. Science 325:828 (2009)	web_based_workflow, vortrag, e_science, cyberscience	2
23 NOV 09	Ask4 Help: Map Dewey (DDC) to LC (LCC) Classification	lcc, ddc, mapping	79

Tag	Count
imported	67
firefox-bookmarks	39
master_thesis	30
mac	25
programming	25
osx	22
python	20
Leseszeichen-Symbol...	19
music	19
tutorial	19
All Tags	546
abgefahren	1
academic	1
acromie	1
activism	1
administration	1
ajax	1
allgemeinmediziner	1
alternative	1
analog	1
animals	1
anpassung	1
ansgar	1
apache	2
api	2
apple	12
argumentation	1
article	2



The screenshot shows the Delicious website interface. At the top, there's a navigation bar with 'Home', 'Bookmarks', 'People', and 'Tags'. A search bar is on the right. The main content area displays a list of bookmarks. The second bookmark, 'TurboGears: Front-to-Back Web Development', is highlighted with a red box around its tags: 'python', 'web\_development', and 'web\_server'. To the right, a 'Tags' sidebar shows a list of tags and their counts, with 'All Tags' totaling 546.

Tag	Count
Imported	67
firefox_bookmarks	39
master_thesis	30
mac	25
programming	25
osx	22
python	20
Leseszeichen-Symbol...	19
music	19
tutorial	19
All Tags	546
abgefahren	1
academic	1
acromie	1
activism	1
administration	1
ajax	1
allgemeinmediziner	1
alternative	1
analog	1
animals	1
anpassung	1
ansgar	1
apache	2
api	2
apple	12
argumentation	1
article	2

The screenshot shows the Delicious website interface. The main content area displays a list of bookmarks with their titles, dates, and tags. A red box highlights the tags 'python', 'web\_development', and 'web\_server' for the bookmark 'TurboGears: Front-to-Back Web Development'. On the right side, there is a 'Tags' sidebar showing a list of tags and their counts, with a red box around it.

delicious Home Bookmarks People Tags

Search Delicious Search

Save a new bookmark  
Create public profile  
Bulk edit  
Tag options

Tags

Top 10 Tags

Imported	67
firefox_bookmarks	39
master_thesis	30
mac	25
programming	25
osx	22
python	20
Leseszeichen-Symbol...	19
music	19
tutorial	19

All Tags 546

abgefahren	1
academic	1
acromine	1
activism	1
administration	1
ajax	1
allgemeinmedizin	9
alternative	1
analog	1
animals	1
anpassung	1
ansgar	1
apache	2
api	2
apple	12
argumentation	1
article	2

30 NOV 09 Start - Bottle: Python Web Framework 48  
python framework web webdev

TurboGears: Front-to-Back Web Development 383  
python web\_development web\_server

28 NOV 09 Data.Information.Knowledge.Web > Notes from SWIB09 3  
swib09 research\_notes hashofer

27 NOV 09 Webmail Uni-/ FH Bielefeld 7  
unibib webmail

26 NOV 09 MPEG21 DIDL Application Profile for Institutional Repositories - Standards - SURFwiki 2  
metadata DIDL PDF

25 NOV 09 Renear AH. Strategic reading, ontologies, and the future of scientific publishing. Science 325:828 (2009) 2  
doarc oanetzwirk odenburg oai\_related\_projects

23 NOV 09 Ask4 Help: Map Dewey (DDC) to LC (LCC) Classification 79  
web\_based\_workflow vortrag e\_science cyberscience

lcc ddc mapping

Fertig

# Wissensorganisation

## Tagging: Delicious

The screenshot shows a web browser window displaying search results for 'uni bielefeld' on the Delicious platform. The browser's address bar shows the URL 'http://delicious.com - Search results for uni bielefeld on Delicious'. The search bar at the top indicates 'Everybody's bookmarks' with '319 results - show all'. The results are listed as follows:

- Universität Bielefeld** (47 results): tagged with university, universität, education, uni, bielefeld.
- Universitätsbibliothek Bielefeld** (32 results): tagged with bibliothek, library, university, uni, bielefeld. This entry is highlighted with a red rectangular box.
- CITEC - Cognitive Interaction Technology - Excellence Cluster 277** (10 results): tagged with research, citec, interaction, uni, bielefeld.
- Studentenwerk Bielefeld / Speisepläne** (7 results): tagged with mensa, favorites, untouched, uni, bielefeld.
- Uniturm.de - Alles für meine Prüfungen: Studienliteratur, Skripte, Prüf...** (47 results): tagged with community, studium, lernen, socialnetwork, uni.
- BASE - Bielefeld Academic Search Engine** (338 results): tagged with search, research, searchengine, science, suchmaschine.
- Technische Fakultät Universität Bielefeld** (6 results): tagged with techfak, faculty, university, uni, bielefeld.

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### Tag Cloud: Popular

Sort: Alphabetically | [By size](#)

.net 2008 3d advertising ajax and animation api apple architecture **art** article  
articles artist audio **blog** blogging **blogs** book **books** browser **business** car cms  
code collaboration comics community computer converter cooking cool **css** culture  
data database **design** Design desktop **development** diy documentation download  
downloads drupal ebooks economics **education** electronics email entertainment  
environment fashion fic film finance firefox **flash** flex flickr **food** forum **free**  
freeware fun funny gallery game **games** geek **google** government graphics green  
guide hardware health history home hosting house **howto** html humor icons  
illustration images imported information **inspiration** interactive interesting internet  
iphone japan java **javascript** jobs jquery kids language learning library **linux** list  
lists literature **mac** magazine management maps marketing math media microsoft  
mobile money movie movies mp3 **music** network networking **news** online  
**opensource** osx people phone photo **photography** photos photoshop php plugin  
podcast **politics** portfolio privacy productivity **programming** psychology python radio  
rails realestate recipe recipes **reference** religion research resources reviews rss  
ruby rubyonrails school **science** search security seo shop **shopping** social  
socialnetworking **software** statistics streaming teaching tech **technology** tips todo  
tool **tools** toread **travel** **tutorial** tutorials tv twitter typography ubuntu usability  
**video** videos vim visualization **web** web2.0 **webdesign** webdev wiki wikipedia  
windows wishlist wordpress work writing youtube

---

### Vorteile

- flache Struktur
- kostengünstig
- oft die einzige Erschließungsmöglichkeit
- Metainformationen, die über den eigentlichen Inhalt hinausgehen: cool, funny
- Indexierung in der Sprache der Nutzer

### Nachteile

- Sprachabhängigkeit
- Kontextabhängigkeit:  
Synonymie: PKW-Auto;  
Homonymie: Titan,  
Tenor, Kapelle
- Ausschließlich tag-basierte Suche führt oft nicht zum Ziel



## Information Overload?

*»Es gibt so viele Bücher, daß uns die Zeit fehlt, um nur die Titel zu lesen.«*

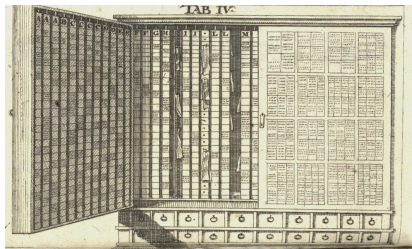
Antonio Francesco Doni (1550)

## Entwicklung der Kunst des Exzerpierens

- Vincentius Placcius (1689): *De Arte Excerptendi. Vom gelahrten Buchhalten.*

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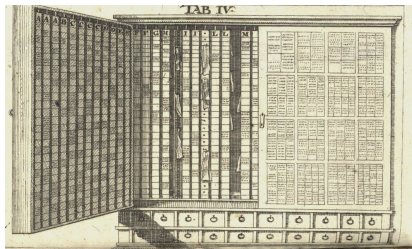


**Abbildung:** Placcius (1689, S. 152)



## Entwicklung der Kunst des Exzerpierens

- Vincentius Placcius (1689): *De Arte Excerptendi. Vom gelahrten Buchhalten.*



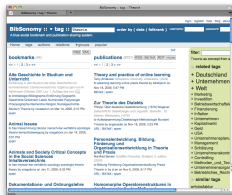
**Abbildung:** Placcius (1689, S. 152)



**Abbildung:** Placcius (1689, S. 153)

# Literaturverwaltung

## Bibsonomy, Connotea, CiteULike



## Features

- Literaturliste ist online und von überall erreichbar
- Einfaches Hinzufügen neuer Einträge durch Bookmarking oder Import aus z.B. Bib<sub>T</sub><sub>E</sub>X-Dateien
- (kollaborativ) Literaturlisten verwalten
- Tagging
- Export in verschiedene Zitationsformate (Bib<sub>T</sub><sub>E</sub>X, RIS, EndNote ...)

http://www.connotea.org - Connotea: syslogd's bookmarks

Connotea: syslogd's bookmarks

- collaborative tagging
- genre classification
- human factors
- music recommendation
- natural language processing
- semantic web
- Synonymie
- tag-model
- tagging systems
- vocabulary
- bag-model
- CO-WORD ANALYSIS
- collaborative filtering
- cultural features
- definition
- design
- ethnoclassification
- indexing
- Industrie
- Information Storage and Retrieval
- klassifikation
- kommerziell
- Logik
- Music similarity
- music tagging
- nlp
- NLTK
- Nutzermotivation
- ontology
- Polysemie
- set-model
- social bookmarking
- javascript.set\_tags\_usage()

[Thu Jan 07 2010 at 13:15 UTC](#) | [quarantined](#) | [info](#) | [related](#)

**Modularity of music processing**  
Isabelle Penetz and Max Coltheart  
*Nature Neuroscience* **6** (7), 688-91 (2003)  
The music faculty is not a monolithic entity that a person either has or does not. Rather, it comprises a set of neurally isolable processing components, each having the potential to be specialized for music. Here we propose a functional architecture for music processing that captures the typical properties of modular organization. The model rests essentially on the analysis of music-related deficits in neurologically impaired individuals, but provides useful guidelines for exploring the music faculty in normal people, using methods such as neuroimaging.  
Posted by [syslogd](#) to [music processing modularity psychology](#) on [Thu Jan 07 2010 at 13:15 UTC](#) | [quarantined](#) | [info](#) | [related](#)

**Collaborative tagging as a tripartite network**  
R Lambiotte and M Ausloos  
We describe online collaborative communities by tripartite networks, the nodes being persons, items and tags. We introduce projection methods in order to uncover the structures of the networks, i.e. communities of users, genre families... To do so, we focus on the correlations between the nodes, depending on their profiles, and use percolation techniques that consist in removing less correlated links and observing the shaping of disconnected islands. The structuring of the network is visualised by using a tree representation. The notion of diversity in the system is also discussed.  
Posted by [syslogd](#) and [3 others](#) to [impert](#) on [Thu Jan 07 2010 at 13:15 UTC](#) | [quarantined](#) | [info](#) | [related](#)

**Folksonomies: Tidying up tags?**  
Folksonomies Tidying up Tags  
Marieke Guy and Emma Tonkin  
*D-Lib Magazine* **12** (1), (Jan 2006)  
[InfoDol/10.1045/january2006-guy](#)  
Posted by [syslogd](#) and [75 others](#) with [1 comment](#) to [stemming Aspell tagging systems tagging natural language processing folksonomies](#) on [Thu Jan 07 2010 at 13:15 UTC](#) | [quarantined](#) | [info](#) | [related](#)

- tonkin
- dlb
- Folksonomias
- social software
- Flickr
- etiquettes
- knowledge management
- connotea
- socialbookmarking
- classtclassification
- dlb-sb-tools-refs
- dlb-sb-tools
- vanderwal
- databases
- learning machine
- Pfmarks
- reference software
- social technologies
- social bookmarking tools
- upload
- social computing
- long tail
- social-bookmarking
- library
- Integration with formal systems
- tidying tags
- web-20
- tag popularity
- delicious
- Análisis
- del.ico.us
- oalp.folksonomy
- t561

http://www.connotea.org - Connotea: syslogd's bookmarks

collaborative tagging  
genre classification  
human factors  
music recommendation  
natural language  
processing  
semantic web  
Synonymie  
tag-model  
tagging systems  
vocabulary  
bag-model  
CO-WORD ANALYSIS  
collaborative filtering  
cultural features  
definition  
design  
ethnoclassification  
indexing  
industrie  
Information Storage and Retrieval  
klassifikation  
kommerziell  
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Music similarity  
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nlp  
NLTK  
Nutzermotivation  
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*D-Lib Magazine* 12 (1), (Jan 2006)  
[InfoDol/10.1045/january2006-guy](#)  
Posted by [syslogd](#) and [75 others](#) with [1 comment](#) to [stemming Aspell tagging systems tagging natural language processing folksonomies](#) on [Thu Jan 07 2010 at 13:15 UTC](#) | [quarantined](#) | [info](#) | [related](#)

torlink  
dlib  
Folksonomias  
social software  
Flickr  
etiquettes  
knowledge management  
connotea  
socialbookmarking  
classtclassification  
dlib-sb-tools-refs  
dlib-sb-tools  
vanderwal  
databases  
learning machine  
Pfmarsk  
reference software  
social technologies  
social bookmarking tools  
upload  
social computing  
long tail  
social-bookmarking  
library  
Integration with formal systems  
tidying tags  
web-20  
tag popularity  
delicious  
Análisis  
del.ico.us  
oatp.folksonomy  
t561

## Literatur

Connotea: syslogd's bookmarks

collaborative tagging  
genre classification  
human factors  
music recommendation  
natural language processing  
semantic web  
Synonymie  
tag-model  
tagging systems  
vocabulary  
bag-model  
CO-WORD ANALYSIS  
collaborative filtering  
cultural features  
definition  
design  
ethnoclassification  
indexing  
industrie  
Information Storage and Retrieval  
klassifikation  
kommerziell  
Logik  
Music similarity  
music tagging  
nlp  
NLTK  
Nutzermotivation  
ontology  
Polysemie  
set-model  
social bookmarking

http://www.connotea.org - Connotea: syslogd's bookmarks

torlink  
dlib  
Folksonomias  
social software  
Flickr  
etiquettes  
knowledge management  
connotea  
socialbookmarking  
classclassification  
dlib-sb-tools-refs  
dlib-sb-tools  
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learning machine  
Pfmarsk  
reference software  
social technologies  
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library  
integration with formal systems  
tidying tags  
web-20  
tag popularity  
delicious  
Análisis  
del.icio.us  
oatp.folksonomy  
t561

**Modularity of music processing**  
Isabelle Penetz and Max Coltheart  
*Nature Neuroscience* 6 (7), 688-91 (2003)  
The music faculty is not a monolithic entity that a person either has or does not. Rather, it comprises a set of neurally isolable processing components, each having the potential to be specialized for music. Here we propose a functional architecture for music processing that captures the typical properties of modular organization. The model rests essentially on the analysis of music-related deficits in neurologically impaired individuals, but provides useful guidelines for exploring the music faculty in normal people, using methods such as neuroimaging.  
Posted by [syslogd](#) to [music processing](#) [modularity](#) [psychology](#) on [Thu Jan 07 2010 at 13:15 UTC](#) | [quarantined](#) | [info](#) | [related](#)

**Collaborative tagging as a tripartite network**  
R Lambiotte and M Ausloos  
We describe online collaborative communities by tripartite networks, the nodes being persons, items and tags. We introduce projection methods in order to uncover the structures of the networks, i.e. communities of users, genre families... To do so, we focus on the correlations between the nodes, depending on their profiles, and use percolation techniques that consist in removing less correlated links and observing the shaping of disconnected islands. The structuring of the network is visualised by using a tree representation. The notion of diversity in the system is also discussed.  
Posted by [syslogd](#) and [3 others](#) to [impert](#) on [Thu Jan 07 2010 at 13:15 UTC](#) | [quarantined](#) | [info](#) | [related](#)

**Folksonomies: Tidying up tags?**  
Folksonomies Tidying up Tags  
Marieke Guy and Emma Tonkin  
*D-Lib Magazine* 12 (1), (Jan 2006)  
[Info:del/1.0.1045/January2006-guy](#)  
Posted by [syslogd](#) and [75 others](#) with [1 comment](#) to [stemming](#) [aspell](#) [tagging](#) [systems](#) [tagging](#) [natural language](#) [processing](#) [folksonomies](#) on [Thu Jan 07 2010 at 13:15 UTC](#) | [quarantined](#) | [info](#) | [related](#)

- Literatur
- Tags

The screenshot shows the Connotea website interface. On the left is a vertical navigation menu with categories like 'collaborative tagging', 'genre classification', 'human factors', etc. The main content area displays a list of bookmarks. Two bookmarks are highlighted with red boxes:

- Modularity of music processing**  
Isabelle Penetz and Max Coltheart  
*Nature Neuroscience* 6 (7), 688-91 (2003)  
The music faculty is not a monolithic entity that a person either has or does not. Rather, it comprises a set of neurally isolable processing components, each having the potential to be specialized for music. Here we propose a functional architecture for music processing that captures the typical properties of modular organization. The model rests essentially on the analysis of music-related deficits in neurologically impaired individuals, but provides useful guidelines for exploring the music faculty in normal people, using methods such as neuroimaging.  
Posted by [syslogd](#) to [music processing modularity psychology](#) on [Thu Jan 07 2010 at 13:15 UTC](#) | [quarantined](#) | [info](#) | [related](#)
- Collaborative tagging as a tripartite network**  
R Lambiotte and M Ausloos  
We describe online collaborative communities by tripartite networks, the nodes being persons, items and tags. We introduce projection methods in order to uncover the structures of the networks, i.e. communities of users, genre families... To do so, we focus on the correlations between the nodes, depending on their profiles, and use percolation techniques that consist in removing less correlated links and observing the shaping of disconnected islands. The structuring of the network is visualised by using a tree representation. The notion of diversity in the system is also discussed.  
Posted by [syslogd](#) and [3 others](#) to [impert](#) on [Thu Jan 07 2010 at 13:15 UTC](#) | [quarantined](#) | [info](#) | [related](#)

Below these, another bookmark is visible:

- Folksonomies: Tidying up tags?**  
Folksonomies Tidying up Tags  
Marieke Guy and Emma Tonkin  
*D-Lib Magazine* 12 (1), (Jan 2006)  
[Info:doi/10.1045/january2006-guy](#)  
Posted by [syslogd](#) and [75 others](#) with [1 comment](#) to [stemming Aspell tagging systems tagging natural language processing folksonomies](#) on [Thu Jan 07 2010 at 13:15 UTC](#) | [quarantined](#) | [info](#) | [related](#)

On the right side of the page, there is a list of tags including 'tonkin', 'dlib', 'Folksonomies', 'social software', 'Flickr', 'etiquettes', 'knowledge management', 'connotea', 'socialbookmarking', 'classification', 'dlib-sb-tools-refs', 'dlib-sb-tools', 'vanderwal', 'databases', 'learning machine', 'Pfmars', 'reference software', 'social technologies', 'social bookmarking tools', 'upload', 'social computing', 'long tail', 'social-bookmarking', 'library', 'integration with formal systems', 'tidying tags', 'web-20', 'tag popularity', 'delicious', 'Análisis', 'del.icu.us', 'oatp.folksonomy', and 't561'.

- Literatur
- Tags
- Empfehlungen

The screenshot shows the ChemWiki website in a browser window. The browser title is "Welcome to the ChemWiki - ChemWiki". The page header features the ChemWiki logo and navigation menus for "My Page", "Resources", "FAQ", "Core", "Wikitexts", "Community", "Participation", "Tools", and "Help". A user status bar indicates "You are not logged in. Log in | Register".

The main content area is titled "Welcome to the ChemWiki" and contains the following text:

The ChemWiki project is a new approach toward chemistry education where an Open Access textbook environment is constantly being written and re-written partly by students and partly by faculty members resulting in a free Chemistry textbook to supplement or supplant conventional paper-based books. Anyone can view, although a *freely available* account is required to edit the site modules. The UCD ChemWiki was created and is currently directed by [Prof. Delmar Larsen](#) in the Chemistry department at UC Davis.

Below the text are three 3D illustrations: a white figure with arms outstretched over an open book, a globe with green continents, and a group of white figures with one red figure leading them. Below these illustrations are the labels "Wikitexts", "The Core", and "Workshops" in red, green, and red text respectively.

The left sidebar contains a search box and a list of categories: Welcome to the Che..., Analytical Chemistry, Biological Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Theoretical Chemistr..., Math Basics, Lab Techniques, Demos, Wikitexts, and Workshops.



## Wissenschaftliche Anwendungsmöglichkeiten von Wikis:

- Dokumentation impliziten Wissens (»tacit knowledge«, = Erfahrungswissen, Tipps u. Tricks, Methodologie, Best Practice)
- Forschungskoordination
- E-Learning
- kollaborative Textproduktion

## And now for something completely Pythonic...

Pythonic and curious things

### New in Sphinx 1.0: Domains

See also sphinx-1.0.0-2013-07-18-194

The idea was rather attractive, especially on my projects is when I should really be doing other important stuff. There's no better incentive than "to make do something productive" in that case.

So I'll write a bit about an exciting new feature of Sphinx 1.0, the upcoming release (no, not *your* domain).

As you may know, Sphinx started out as a "proprietary" tool used exclusively for building the Python documentation after the switch to reStructuredText for markup. When I decided to make it available for public use, I had to remove quite a lot of Python-specific stuff (and I keep finding small such things even today). But still, Sphinx is very centered on documentation of Python code: its most fundamental directives, like the `class` directive, document a Python object. The naming and argument parsing is Python-specific, there is a module index of all Python modules you documented, you can link to other Python objects via `intersphinx`, etc. But there was already support for documenting C stuff (since the Python/C API was also part of the original documentation), and I know people also document C++. Even the Sphinx docs themselves abuse the Python object markup for HTML template elements.

Exactly that `class` directive was what triggered a step away from the Python-centric viewpoint: in my naive happiness about how neat `.. class:: Foo` looks, I overlooked docutils' own directive of that name. Later I tried to correct this, by exporting the latter as `.. cclass::` which doesn't do it justice though. The thread on the mailing list brought up the possibility to "namespace" directives, and that was the starting point. Finally, at EuroPython, Armin and myself came up with the concept of "domains".

A domain is a collection of markup to describe and link to "objects" belonging together, e.g. elements of a programming language. Directive and role names are of the form `domain:name`.

Of course, there is a way to set a "default domain" so that you can continue writing `.. function:: foo()` instead of the more verbose `.. py:function:: foo()`. (The name "domain" is awkward, but "language" is already taken for "the language the docs are written in" and anyway doesn't cover the full possible range of domain usage. Other terms like "group" or "context" don't feel better.)

Anyway, when domain support is fully implemented, and assuming someone writes a `language` domain extension you will be able to document a

### Pages

#### Categories

#### Archives

- » January 2010
- » February 2010
- » November 2009
- » October 2009
- » September 2009
- » August 2009
- » Complete archive

Tags  
books, bar, docutils, emacs, german, gnu, hacker, hg, import, linux, mac-os-x, papers, python, python, pygments, pyutils, python, sphinx, threads

#### Meta

- » Login
- » Valid XHTML
- » XFN
- » Zine

## Funktionen wissenschaftlicher Blogs nach Nentwich (2009):

- Kommentieren des Wissenschaftsbetriebs: »*The first plenary session of conference xy has 3 really interesting presentations right in a row . . .* «

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- öffentliche Kommunikation von Forschungsergebnissen (Open Peer Review)

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- Etablierung der eigenen Person in der Community (Nachwuchswissenschaftler)
- Vernetzung: Kommentare, Trackbacks, Blogroll

The screenshot shows the Twitter public timeline interface. At the top, there's a navigation bar with the Twitter logo and a 'Login Join Twitter!' button. Below this is the 'Recent Public Tweets' section, which lists several tweets from users like @kmxs, @umi\_hanbiraki, @d\_s\_berezovoy, @MartinZwart, @risingboom, @williejfresh, @scy314, and @octrivia. Each tweet includes a profile picture, the user's name, and the text of the tweet. On the right side, there's a 'Create Your Account' section with a 'Join!' button and a list of suggested accounts including Alex McCauley, Nick Swisher, Kevin Thau, Do Something, Access Anything, LLC, echoinggreen, People StyleWatch, Steve Poizner, Funny or Die, and Has Cheezburger? The browser's address bar shows 'http://twitter.com - Twitter / Public Timeline'.

http://twitter.com - Twitter / Public Timeline

Twitter

Login Join Twitter!

### Recent Public Tweets

What everyone on Twitter is talking about!

 **saburicom** @kmxs うちの事務所裏のサイアムタラート：  
<http://r.gnavi.co.jp/e140900/> もしくは茶沢通りの姉妹店、クルンサイアム <http://r.gnavi.co.jp/a274801/> でどうぞー。ガッパオもウマイが、カオマンガイが最近好き。  
less than 20 seconds ago from Tweetie in reply to kmxs

 **umi\_hanbiraki** お風呂入って出かけないといけないけど弟が私の部屋で作業していて席を離れられない。自分の奥に戻れよっ！何あさられるか分かったもんじゃないから怖いんだよ！  
less than 20 seconds ago from web

 **d\_s\_berezovoy** Полиция Теннесси задержала пьяного четырехлетнего взломщика  
less than 20 seconds ago from web

 **MartinZwart** @benlicher haha, Macbook is al opgeruimd;-) en ja ik ga de zolder opruimen had daar behoefte aan. Veel "oude" rommel weggoeien;-).  
less than 20 seconds ago from Twitterbird iPhone in reply to benlicher

 **risingboom** Sponsored by: Why stand in line for movie tickets? Get showtimes and tickets right now! <http://bit.ly/8bAYQf>  
less than 20 seconds ago from Assetize.

 **williejfresh** A nigga gotta figure out that life shit!  
less than 20 seconds ago from Swift

 **scy314** 納得 RT @HikaruJuin: AMラジオの良い所の一つに、あいつまだやってんだ、相変わらず馬鹿だなあ、つてのがあると思う。  
less than 20 seconds ago from twigadge

 **octrivia** @leadianlestari iya le, cuma lo doang ntar lo di 'terbangin' haha

### Create Your Account

Join!

Already using Twitter from your phone? [Click here.](#)

Select Language ... ▾

-  Alex McCauley
-  Nick Swisher
-  Kevin Thau
-  Do Something
-  Access Anything, LLC
-  echoinggreen
-  People StyleWatch
-  Steve Poizner
-  Funny or Die
-  Has Cheezburger?

Fertig



## Twitter et al. – Funktionen nach Nentwich (2009)

- gezielter Informationsaustausch zwischen Arbeitsgruppen



## Twitter et al. – Funktionen nach Nentwich (2009)

- gezielter Informationsaustausch zwischen Arbeitsgruppen
- Soziale Komponente: Anreicherung der Arbeitsbeziehung mit privaten Informationen (»virtuelle Teeküche«)



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- Begleitung von Konferenzen: #acmmm09



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- gezielter Informationsaustausch zwischen Arbeitsgruppen
- Soziale Komponente: Anreicherung der Arbeitsbeziehung mit privaten Informationen (»virtuelle Teeküche«)
- Begleitung von Konferenzen: #acmmm09
- Marketing: Hinweis auf die eigene Arbeit mit anderer Zielgruppe als Massen-E-Mails und Pressemitteilungen

Welcome to Facebook! Facebook

facebook

Facebook helps you connect and share with the people in your life.

Sign Up  
It's free and anyone can join

First Name:   
 Last Name:   
 Your Email:   
 Your Password:   
 Age:   Year:   
 Birthday:

Create a Page for a celebrity, band or business.

Business Network - Social Network for Business Professionals | XING

XING - Finden Sie Geschäftskontakte per Mausklick  
Mit der umfangreichen Suchfunktion von XING erhalten Sie richtigen Personen Finder

Jetzt kostenlos Mitglied werden!

Log in für XING-Mitglieder  
E-Mail-Adresse:    
 Passwort:

Personenverzeichnis  
XING-Mitglieder finden  
ABCDEFGHIJKLMNOPQRSTUVWXYZ

XING für Unternehmen  
Der beste Platz für Ihr & Mitbest.  
Dienstleistungs-Angebot im 200+ Millionen  
B2B-Netz

Guided Tour  
Entdecken Sie die XING-Community Features  
Jetzt!

ResearchGate

More than 230,000 scientists have joined!

ResearchGate is the leading professional network for scientists. It's free of charge and designed for most researchers' needs.

CONNECT with colleagues and build your scientific network  
DISCOVER new methods, papers, and people with our comprehensive research-based search engine  
COLLABORATE online on a wide range of applications built specifically for researchers

Recommended by:  
 - Prof. Dr. Ingrid Isenhardt  
 - Prof. Dr. Ingrid Isenhardt  
 - Prof. Dr. Ingrid Isenhardt

Join groups to participate in various discussions

Last.fm - Was hörst du? Mit Freunden und dem besten Musik-Matching-Engine

last.fm Music Radio News Videos Charts Community

Last.fm empfiehlt dir Musik, Videos und Konzerte ganz nach deinem Musikgeschmack.

Zum Beispiel, Lieste du M. Ward hören, mögen auch Fans von *Paula Abdul* und *Cover Classics*. Was bist du gerade?

OK

Personalisiertes visuelles Radio  
Hör die Songs, die du magst, und entdecke neue Musik.

Last.fm erstellt ein direktes visuelles Radio basierend auf deinen Musikgeschmack.

Install the Web importer  
The Web importer lets you import addresses and documents from over 30 external desktop e-mail clients. You can add it to your browser here.

Friend Contacts  
Find or invite contacts so you can share documents and collaborate here.

Most commented blog posts:  
 - *Science Daily*  
 - *Science Daily*  
 - *Science Daily*  
 - *Science Daily*  
 - *Science Daily*

Dashboard | Library | My Profile | People | Statistics | Support

Signed in as **matthias lösch** (logged out) | Home | Invite contacts | First contact | Account | Logout

Getting Started

Download Mendeley Desktop  
For a complete guide to get your Mendeley Desktop ready, visit our page, which can always find the download link to the latest version.

Install the Web importer  
The Web importer lets you import addresses and documents from over 30 external desktop e-mail clients. You can add it to your browser here.

Friend Contacts  
Find or invite contacts so you can share documents and collaborate here.

Most read authors:  
 - **229** Michael J. Jordan  
 - **199** Rainer Møller  
 - **147** Andrew McClellan  
 - **146** James  
 - **141** Peter G. Combs  
 - **138** Professor Raghuram

Nature Network

Nature Networks: connecting scientists

Connect | Discuss | Explore | Search | Get Started

What's new on Nature Network  
Results of the Nat. Network Blog List

Most active forums:  
 - **10** Science Daily News (137)  
 - **9** Science Daily News (137)  
 - **8** Science Daily News (137)  
 - **7** Science Daily News (137)  
 - **6** Science Daily News (137)

Recently active people:  
 - **10** Science Daily News (137)  
 - **9** Science Daily News (137)  
 - **8** Science Daily News (137)  
 - **7** Science Daily News (137)  
 - **6** Science Daily News (137)

### Selbstdarstellung

- Profil mit CV
- Publikationsliste



### Selbstdarstellung

- Profil mit CV
- Publikationsliste

### Vernetzung und Kommunikation

- Kontakt zu möglichen Kooperationspartnern
- Anhand der Profile automatische Vorschläge für neue Kontakte
- Diskussionsforen, Direktnachrichten
- Nutzung von gemeinsame Kalendern

### Selbstdarstellung

- Profil mit CV
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- Nutzung von gemeinsame Kalendern

### Literaturverwaltung

- Ablagemöglichkeit für Volltexte (eigene und fremde)
- Gemeinsamer Zugriff auf Literatur in Gruppen

# Social Networks

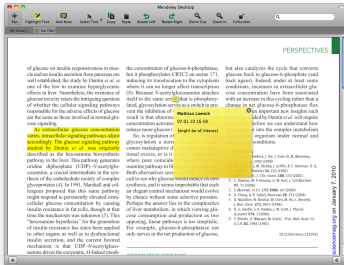
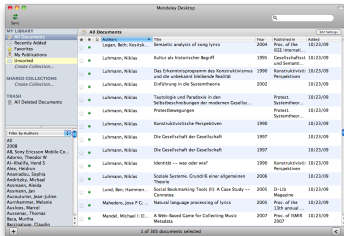
## Mendeley



- Online-Literaturverwaltung
- Vernetzung mit anderen Wissenschaftlern
- Selbstarchivierung der eigenen Publikationen
- Statistiken für die eigenen Publikationen: Downloads, Anzahl/Herkunft der Leser

# Social Networks

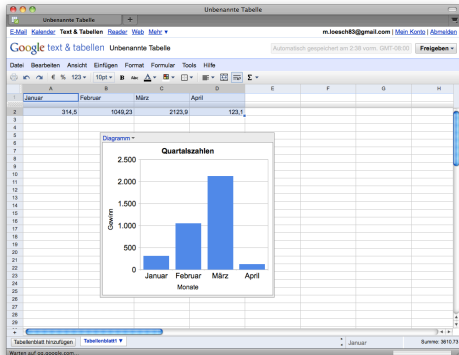
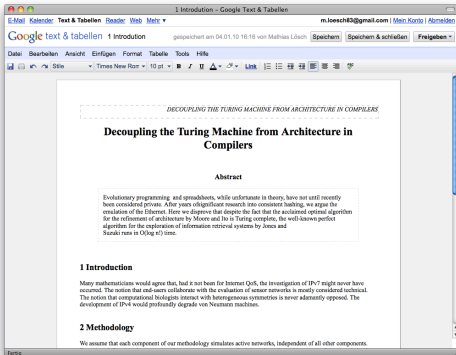
## Mendeley Desktop



- Literaturverwaltung (mit Web-Profil synchronisierbar)
- automatische Extraktion von Metadaten aus Volltexten
- Annotation

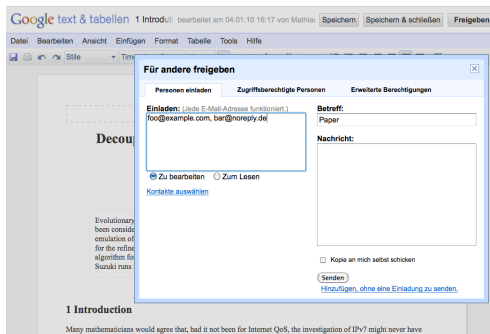
The screenshot shows the ResearchGate user profile for Mathias Lösch. The page is titled "Scientific Network | ResearchGATE" and includes a search bar and navigation tabs for Home, Researchers, Groups, Literature, and Jobs. The main content area is divided into several sections: "Welcome Mathias Lösch, you have 0 messages (0 new).", "Latest public comments" with three entries, "Your profile" with a 40% completion status, "Invite colleagues" with social media links, "Did you know?" with a network graph, "Similar abstract search" with logos for PubMed, IEEE, and CiteSeer, and "Customize your start page".

- Vernetzung mit anderen Wissenschaftlern
- Selbstarchivierung der eigenen Publikationen
- »Intelligente« Literatursuche: ähnlichkeitsbasierte Abstract-Suche, Journal-Suche



## Features

- vollwertiger Ersatz für konventionelle Textverarbeitung



### Features

- vollwertiger Ersatz für konventionelle Textverarbeitung
- kollaboratives Editieren möglich (bis zu 10 Leute gleichzeitig)

The screenshot shows a web browser window titled "Google Wave - Communicate and collaborate in real time". The page features the Google Wave logo and the text "Communicate & collaborate in real time. Or anytime. Use Google Wave at home, at work and at play." Below this is a "Watch our loooooong video" button. A sign-in form is overlaid on the right, with the text "Sign in to Google Wave with your Google Account". The form includes an email field with "m.loesch83@gmail.com", a password field with "\*\*\*\*\*", and a "Stay signed in" checkbox. Below the form is a "Sign in" button and a link "Can't access your account?". A preview of the Google Wave interface is shown in the center, displaying a chat window and a sidebar. At the bottom, there is a yellow box with the text "Google Wave is currently in a limited preview. Request an invitation." and a footer with copyright information: "©2010 Google - Developer APIs - Federation Protocol - Terms - Privacy Policy - Help".

Google wave preview

Communicate & collaborate in real time.  
Or anytime. Use Google Wave at home, at work and at play.

Watch our loooooong video

Sign in to Google Wave with your  
**Google Account**

Email: m.loesch83@gmail.com

Password: \*\*\*\*\*

Stay signed in

Sign in

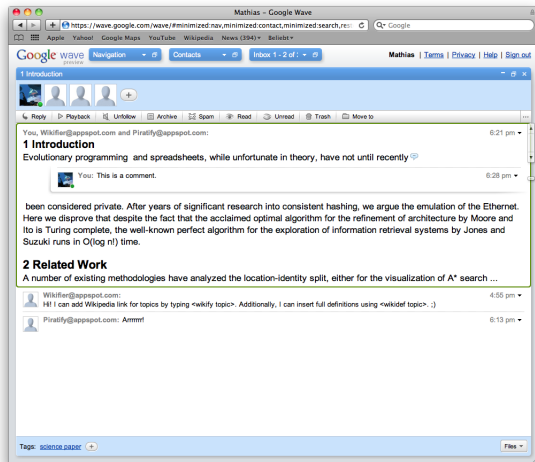
[Can't access your account?](#)

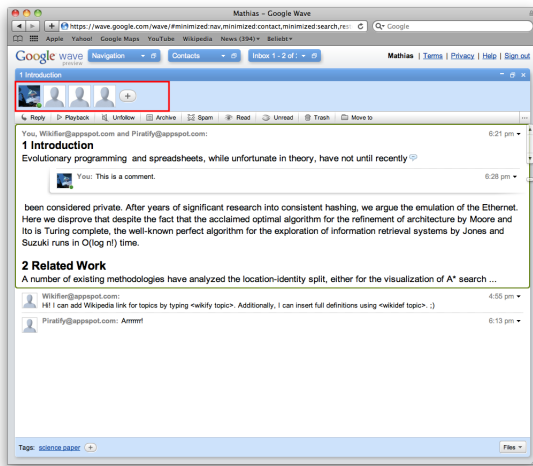
Learn more about Google Wave»

Google Wave is currently in a limited preview. [Request an invitation.](#)

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- mehrere Nutzer (»Teilnehmer«)

Mathias - Google Wave

https://wave.google.com/wave/#minimized\_nav,minimized\_contact,minimized\_search,res: Google

Navigation Contacts Inbox 1 - 2 of : Mathias Terms Privacy Help Sign out

1 Introduction

You, Wikifier@appspot.com and Piratify@appspot.com: 6:21 pm

**1 Introduction**

Evolutionary programming and spreadsheets, while unfortunate in theory, have not until recently

You: This is a comment. 6:28 pm

been considered private. After years of significant research into consistent hashing, we argue the emulation of the Ethernet. Here we prove that despite the fact that the acclaimed optimal algorithm for the refinement of architecture by Moore and its Turing complete, the well-known perfect algorithm for the exploration of information retrieval systems by Jones and Suzuki runs in  $O(\log n!)$  time.

**2 Related Work**

A number of existing methodologies have analyzed the location-identity split, either for the visualization of A\* search ...

Wikifier@appspot.com: 4:56 pm  
Hi! I can add Wikipedia link for topics by typing <wikify topic>. Additionally, I can insert full definitions using <wikidef topic>.:)

Piratify@appspot.com: Ammtt 6:13 pm

Tags: science,reader

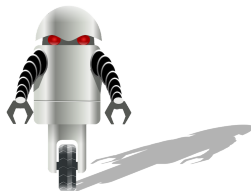
Files

- mehrere Nutzer (»Teilnehmer«)
- freie Kommentare im Dokument



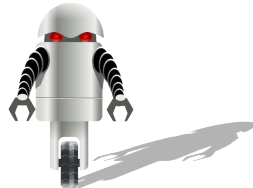
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- »Robots«: »künstliche Teilnehmer« an einer Wave, die automatisch bestimmte Aufgaben übernehmen (z.B. Rechtschreibprüfung); Demo: Wikify-Robot
- APIs: Möglichkeit, eine Wave in die eigene Webseite einzubetten



## Mögliche Use-Cases für Wissenschaftler nach Neylon (2009):

- kollaboratives Schreiben von Artikeln



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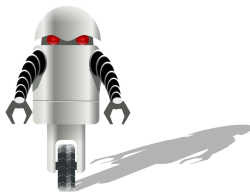
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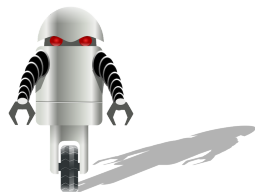
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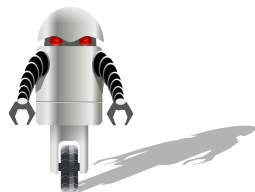
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- Informelles Review: Kollegen werden zur Wave eingeladen
- Mögliche Robots: automatische Zitationsverwaltung, semantische Anreicherung (z.B. Molekülbezeichner → Strukturformel), Terminologieverwaltung

[...] The nascent field of text data mining (TDM) has the peculiar distinction of having a name and a fair amount of hype but as yet almost no practitioners. I suspect this has happened because people assume TDM is a natural extension of the slightly less nascent field of data mining (DM), also known as knowledge discovery in databases (Fayyad and Uthurusamy, 1999), and information archeology (Brachman et al., 1993). Additionally, there are some disagreements about what actually constitutes data mining. [...]



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## Allgemeines

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## Social Networks

- »Henne-Ei-Problem:« Netzwerke werden erst ab einer bestimmten Nutzerzahl fruchtbar
- Vielfalt der Netzwerke: eigentlich müsste man überall dabei sein . . .

## Bibliothek 2.0 nach Danowski u. Heller (2006)

- Partizipation der Nutzer an der Gestaltung und Implementierung von Diensten
- Anpassbarkeit der Dienste
- ständige Verbesserungen
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Ziel: Zu Chancen, Risiken und Nebenwirkungen . . .

. . . fragen Sie in Ihrer Bibliothek ;-)

Vielen Dank für die Aufmerksamkeit!

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