

Some of the people involved

- Timo Hannay Director Nature.com
- Jason Wilde Publisher Physical Sciences
- Amanda Ward Head of Platform Technologies
- Tony Hammond Applications Architect
- Alf Eaton Product Development Manager
- Euan Adie Product Development Manager
- Gavin Bell Product Development Manager
- Hilary Spencer Product Development Manager
- Ian Mulvany Product Development Manager

- Publishing Industry Facts & Figures
- Nature
- (Some) Issues that Web 2.0 can impact
 - Identity and Authority
 - Content Discovery
 - Citizen Science
- Google Wave
- Ongoing Challenge
- The Future



Publishing Industry facts & figures

Table 1. Estimated Worldwide Information Industry Revenue by Segment, 2007

	Est. 2007 Revenue (\$M)	Est. 2007 Growth (%)	2003-2007 CAGR (%)
B2B Trade Publishing	21,484	7.6%	6.5%
Company Information	4,068	8.1%	7.4%
Credit & Financial Information	40,492	11.0%	10.6%
Education & Training	42,482	6.0%	7.1%
HR Information	3,753	15.7%	15.4%
Legal, Tax & Regulatory Information	13,905	10.1%	7.3%
Market Research, Reports & Services	30,699	9.6%	11.5%
IT & Telecom Research, Reports & Services	2,782	9.1%	7.5%
News Providers & Publishers	133,300	-1.0%	2.7%
Scientific, Technical & Medical Information	21,844	10.3%	7.9%
Search, Aggregation & Syndication	41,550	26.0%	24.7%
Yellow Pages & Directories	34,353	5.7%	5.0%
Total Information Industry	390,712	6.6%	6.8%

Source: Outsell's Publishers & Information Providers Database

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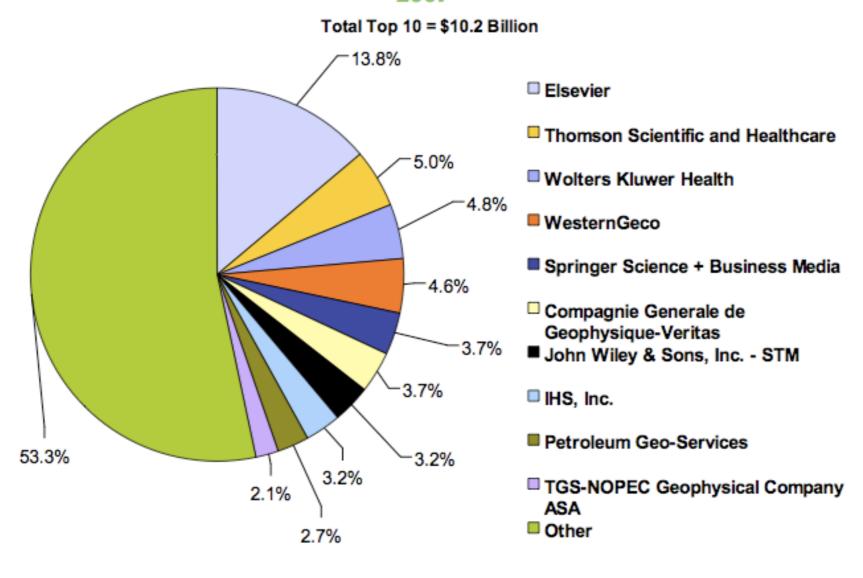
Total Information Industry

Source: Outsell's Publishers & Information Providers Database
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Publishing industry size

Figure 15. Market Share of Top 10 Scientific, Technical & Medical Companies, 2007



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Figure 5: Funding contribution to meet global publication & distribution incurred cost (all journal types)

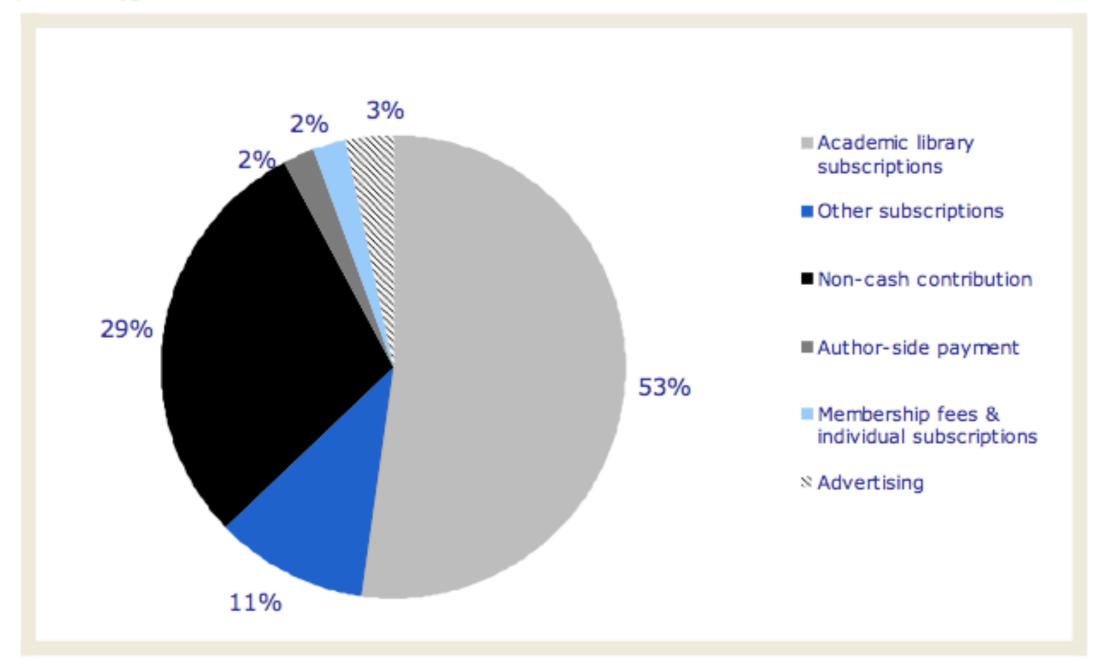
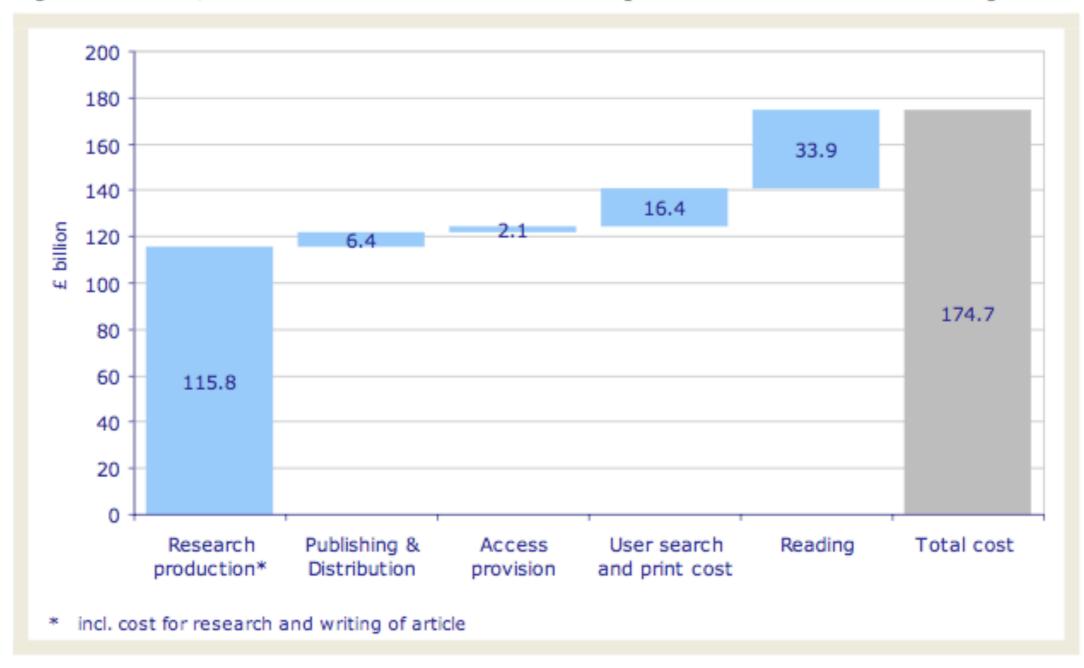
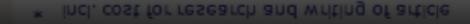




Figure 2: Global, annual cost incurred in the research production and communication process





production* Distribution provision and print cos





A WEEKLY ILLUSTRATED DOUBNAL OF SCIENCE

"The site solid ground" (if Alaska brack site mind which builds for app."—"Minterstructure

THURSDAY, NOVEMBER 4, 1984

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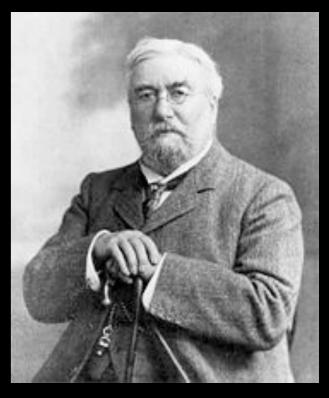
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Muckind dwell in her and she in them. With all

Nov 4, 1869

 "It is intended, first, to place before the general public the grand results of scientific work and scientific discovery"

 "to aid scientific men ... by affording them an opportunity of discussing the various scientific questions that arise from time to time"



Norman Lockyer

(Some) Publishing Milestones

- 1896, Wilhelm Röntgen, X-Rays
- 1925, Raymond Dart, Australopithecus africanus
- 1938, P Kapitza, Superfluidity
- 1953, J D Watson and F H C Crick, DNA
- 1985, J C Farman, B G Gardiner and J D Shanklin, Ozone Hole
- 1995, Michel Mayor and Didier Queloz, Extra Solar Planets
- 2001, Human Genome

Journal Evolution

- 1869 Journal Founded
- 1899 Journal Makes a Profit
- 1967 Peer Review
- 1971 First Expansion (until 1974)
- 1992 Nature Genetics
- 1995 Holzbrink Ownership
- 1995 Nature.com
- •2004 Connotea
- •2007 Nature Network

Publications A - M

- Acta Pharmacologica Sinica
- American Journal of Gastroenterology
- American Journal of Hypertension
- Asian Journal of Andrology

- Bone Marrow Transplantation
- **British Journal of Cancer**

- Cancer Gene Therapy
- Cell Death and Differentiation
- Therapeutics

- The EMBO Journal
- **European Journal of Clinical**
- Genetics
- **Evidence-Based Dentistry**

- Heredity
- Hypertension Research

- Immunology & Cell Biology
- International Journal of Impotence Research
- International Journal of Obesity

- **British Dental Journal**

- Cell Research
- Clinical Pharmacology &

- EMBO reports
- Nutrition
- European Journal of Human
- Eye

- Gene Therapy
- Genes and Immunity

- History of the journal Nature

- The ISME Journal

Publications N - Z

- Nature
- Nature Biotechnology
- Nature Cell Biology
- Nature Chemical Biology
- Nature Chemistry
- **Nature Clinical Practice Journals**
- Nature Digest
- **Nature Genetics**
- Nature Geoscience
- Nature Immunology
- **Nature Materials**
- Nature Medicine
- Nature Methods
- Nature Nanotechnology
- Nature Neuroscience
- **Nature Photonics**
- Nature Physics
- Nature Protocols
- Nature Structural and Molecular Biology
- Nature research journals
- Nature Reviews journals
- Nature Reviews Cancer
- **Nature Reviews Cardiology** (formerly Nature Clinical Practice Cardiovascular Medicine)
- Nature Reviews Clinical Oncology (formerly Nature Clinical Practice Oncology)
- Nature Reviews Drug Discovery
- Nature Reviews Endocrinology (formerly Nature Clinical Practice Endocrinology & Metabolism)
- Nature Reviews Gastroenterology and Hepatology (formerly Nature Clinical Practice Gastroenterology and Hepatology)
- Nature Reviews Genetics
- Nature Reviews Immunology
- Nature Reviews Microbiology
- Nature Reviews Molecular Cell Biology

RSS Web Feeds

Gateways and databas

- Application Notes
- Biopartnering
- Cell Migration Gateway
- Elucian Islands
- Functional Glycomics Gateway
- GI Motility online
- ISN Nephrology Gateway
- Lipidomics Gateway
- Nature Network
- Neuroscience Gateway
- **Omics Gateway**
- Pathway Interaction Database
- RNAi Gateway
- Signaling Gateway
- Bioentrepreneur
- Nature Milestones
- Nature Reports Climate Change
- Nature Reports Stem Cells
- Nature News
- Structural Genomics Knowledgebase
- Nature Precedings

- Connotea: reference management
- Scintilla

- The Great Beyond
- Nascent
- Nautilus
- The Sceptical Chymist
- Other Natureblogs

- Nature podcast
- Chemistry podcast

- The Journal of Antibiotics
- Journal of Cerebral Blood Flow and Metabolism
- Journal of Exposure Science and **Environmental Epidemiology**
- **Journal of Human Genetics**
- Journal of Human Hypertension
- The Journal of Investigative Dermatology
- JID Symposium Proceedings
- Journal of Perinatology

- Kidney International
- Laboratory Investigation
- Leukemia

- Modern Pathology
- Molecular Psychiatry
- Molecular Systems Biology
- Molecular Therapy
- Mucosal Immunology

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- Nature Reviews Nephrology (formerly Nature Clinical Practice Nephrology)
- **Nature Reviews Neurology** (formerly Nature Clinical Practice Neurology)
- Nature Reviews Neuroscience
- **Nature Reviews Rheumatology** (formerly Nature Clinical Practice Rheumatology)
- Nature Reviews Urology (formerly Nature Clinical Practice Urology)
- Neuropsychopharmacology

- Obesity
- Oncogene

- The Pharmacogenomics Journal
- Polymer Journal
- **Prostate Cancer and Prostatic** Diseases

- SciBX: Science-Business eXchange
- Spinal Cord

Vital

- Natureconferences
- NPG-attended conferences Natureevents

Naturejobs.com

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- Nature China (International site)
- Nature India
- Nature Japan Nature Korea
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Natureasia

Nature Network Boston

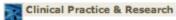
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Browse by Subject



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- Drug discovery
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- Methods and Protocols



Cardiovascular medicine

- Dentistry
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- Urology
- Earth & Environment Earth sciences Evolution & ecology
- Life Sciences
- Biotechnology Cancer Development
- Drug discovery **Evolution & ecology**
- Genetics
- Immunology Medical research
- Microbiology Molecular cell biology

Methods and Protocols

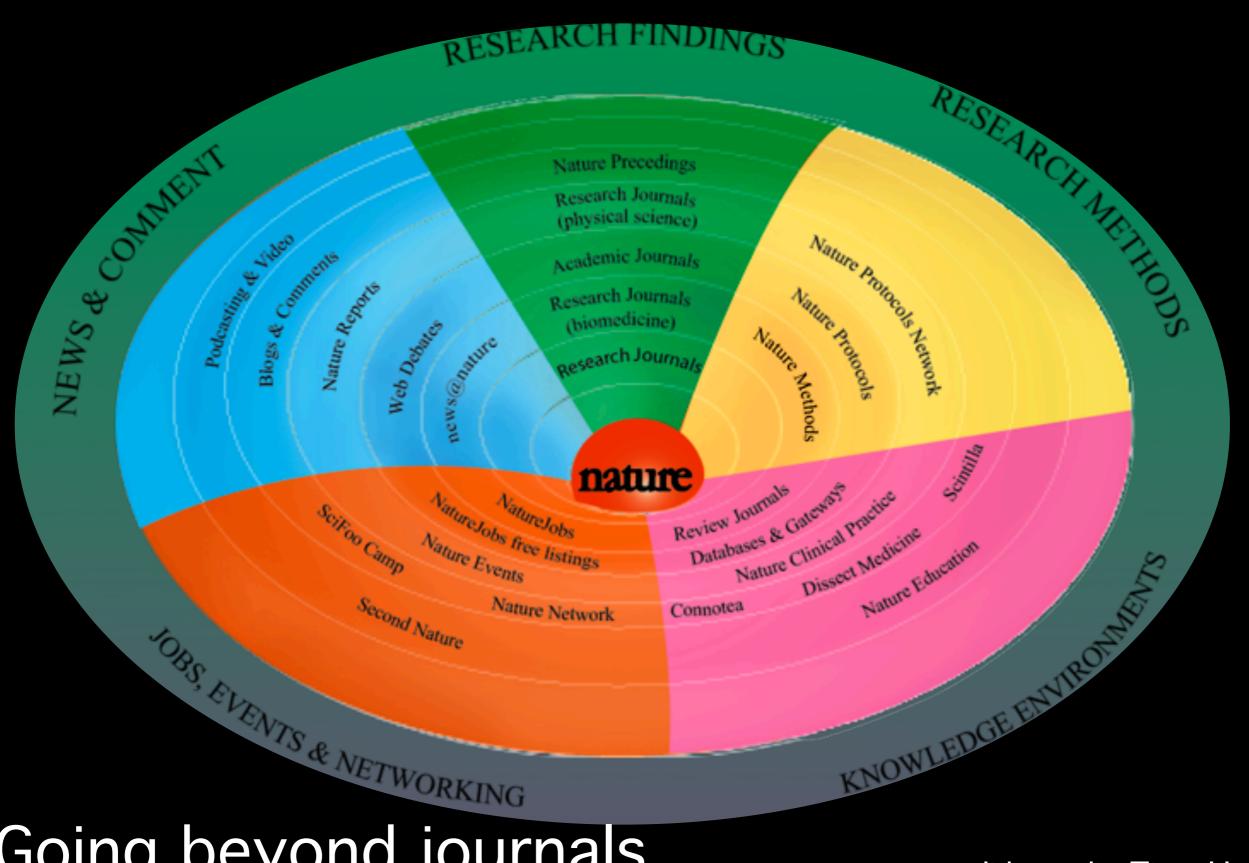
Neuroscience Pharmacology

Systems biology



M Physics

Physics Materials

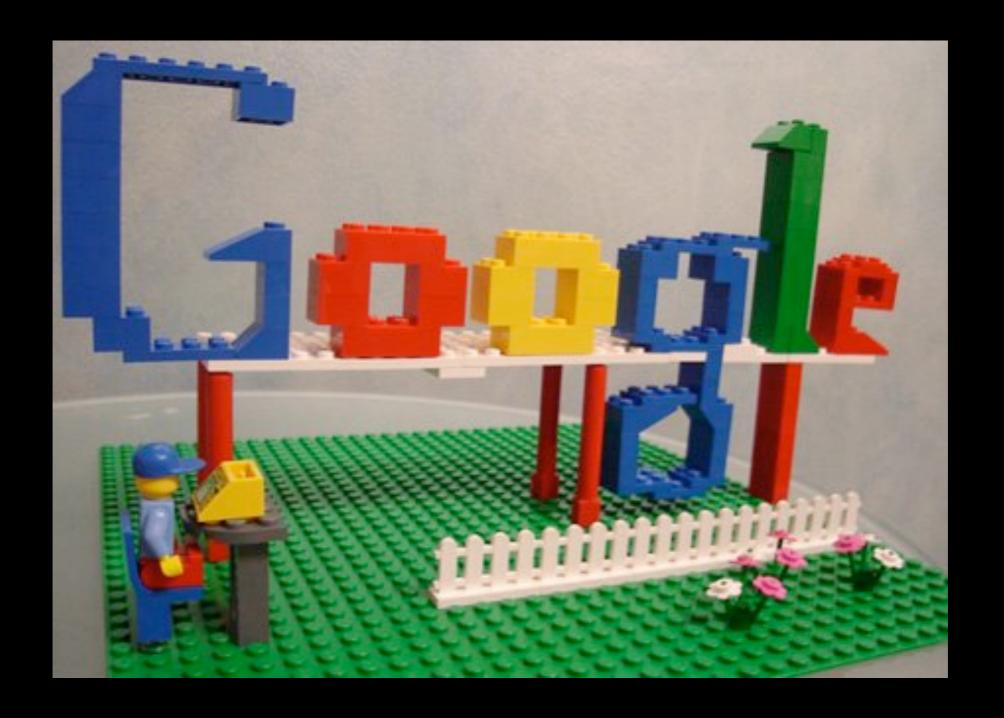


Going beyond journals

slide credit: Timo Hannay

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Bid history: 2 bids

AU \$12.00 Current bid:

Approximately US \$10.05

Your max bid: AU \$ Place bid

(Enter AU \$12.50 or more)

You can also:

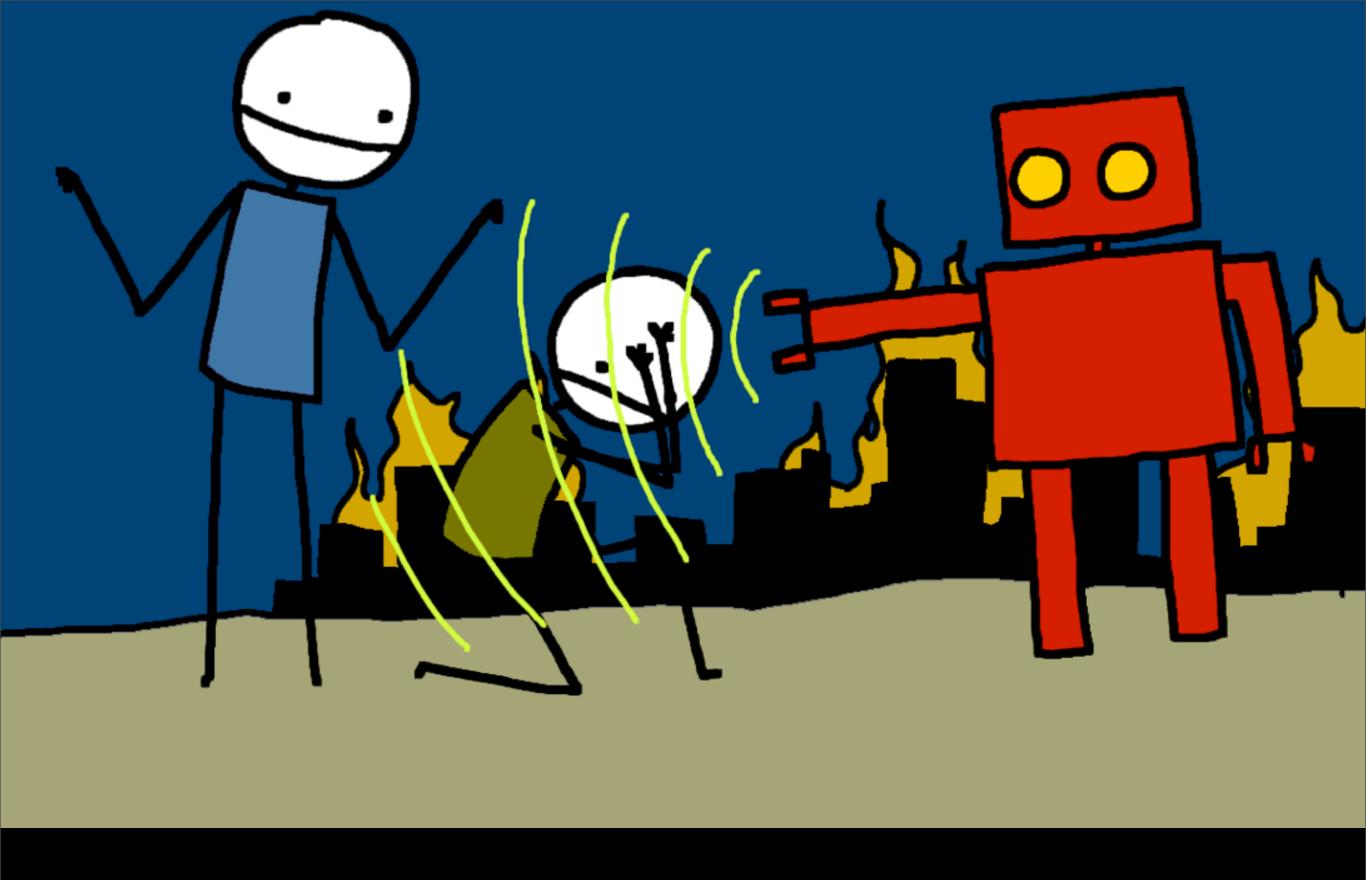
Watch this item

AU \$9.30 Air Mail | See all details Shipping:

Estimated delivery time varies for items shipped from an international location

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Stay Classy, SXSW: Building Respectful Software

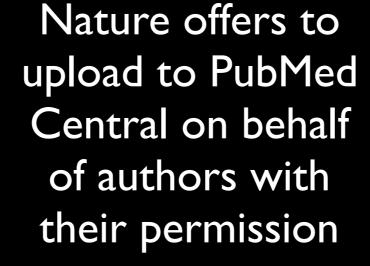
"While scientists have gloried in the disruptive effect that the Web is having on publishers and libraries, with many fields strongly pushing open publication models, we are much more resistant to letting it be a disruptive force in the practice of our disciplines."

Jim Hendler



Scientists resist

NIH requests all fundholders deposit their manuscripts in PubMed Central archive



70% of

scientists can't

even be

bothered to say

"yes"



30% compliance



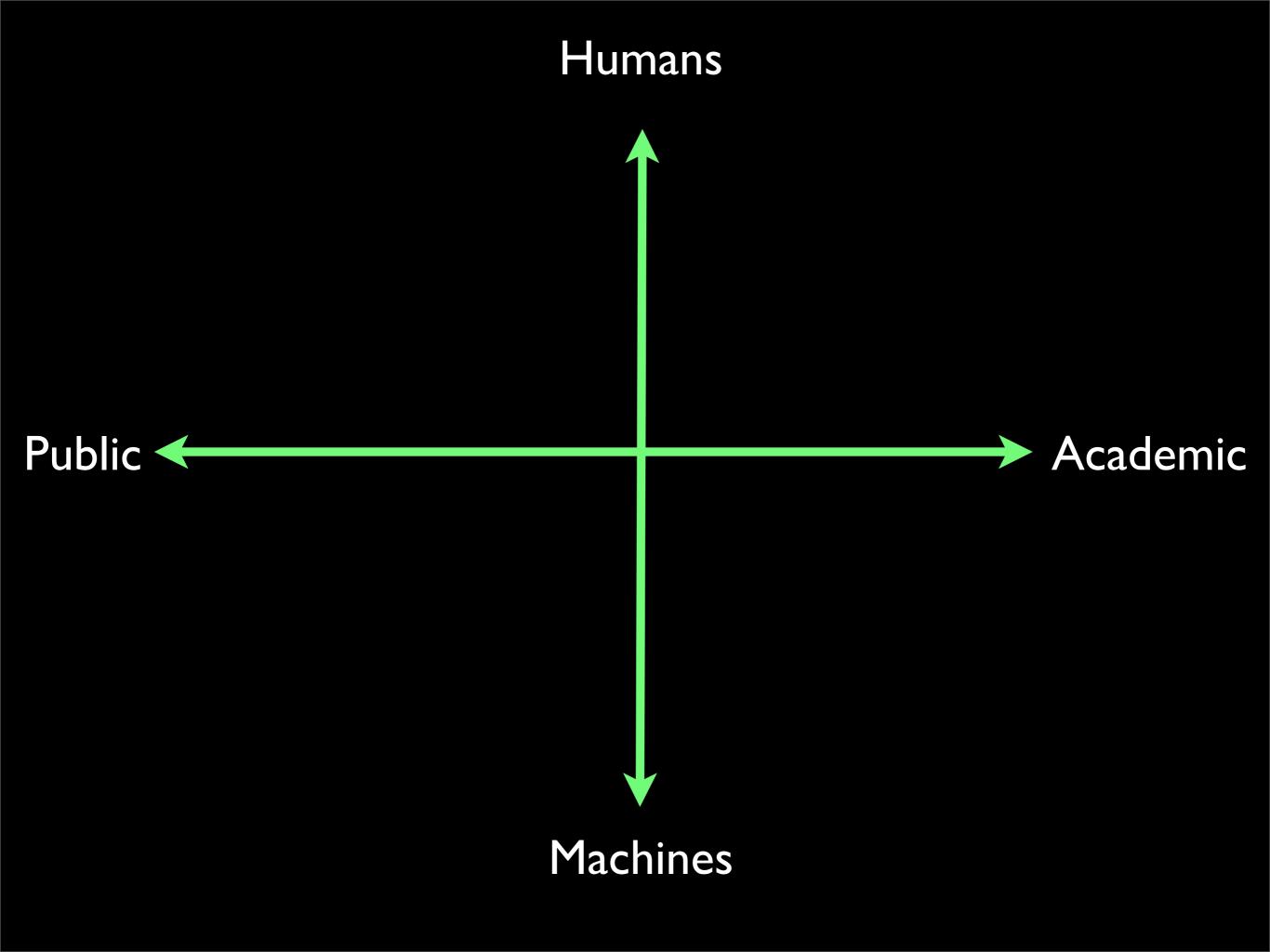
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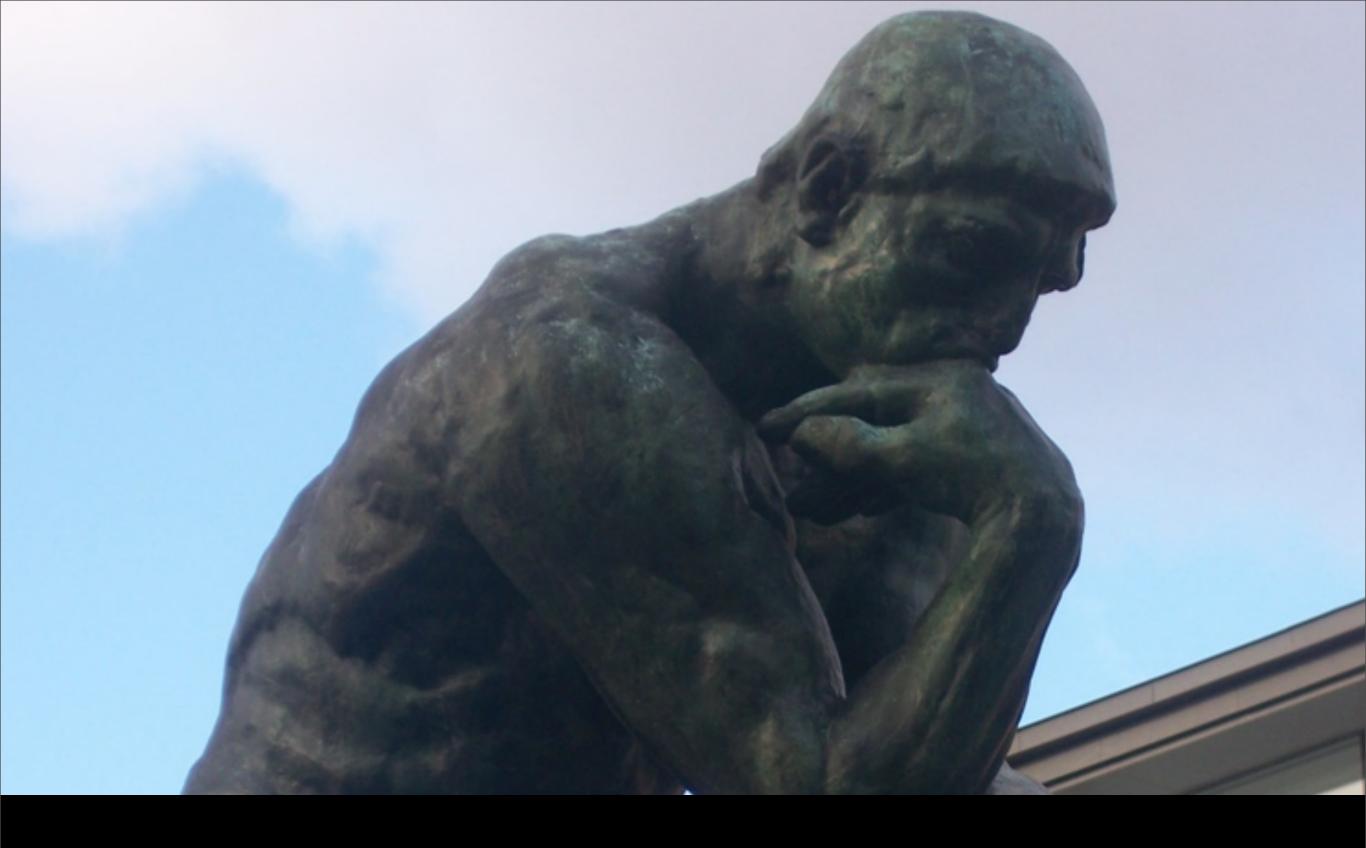


Scientists resist

Some Issues Where Web 2.0 May Help in Science

- Identity and Reputation
- Content Discovery
- Citizen Science





Who am !?



00,000



1.1 Billion > 129



http://www.mluvany.net

Scopus Author ID

6603325879

Thompson
Researcher ID

B-2805-2008

CrossRef
Contributor ID

62.1000/182





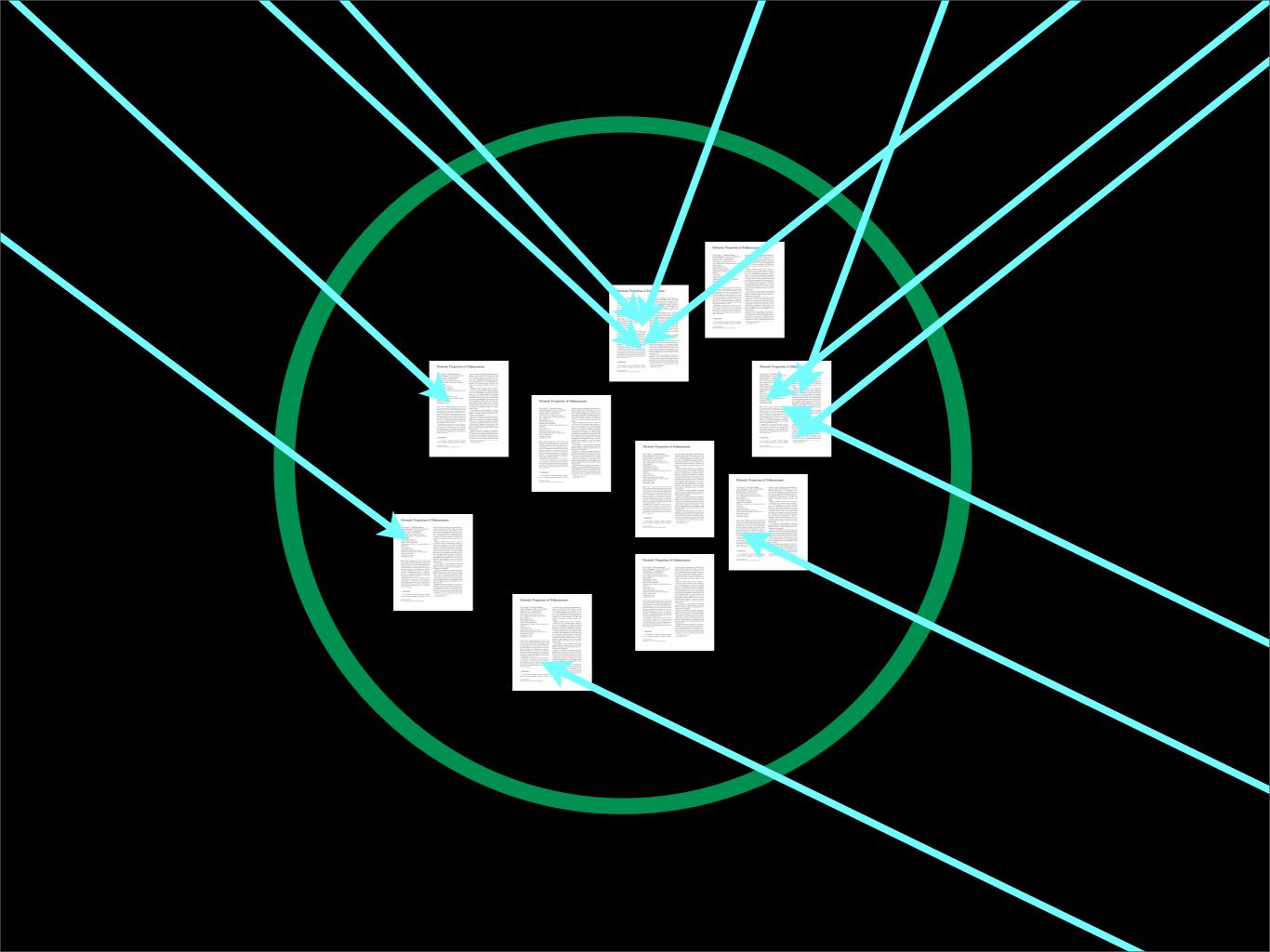
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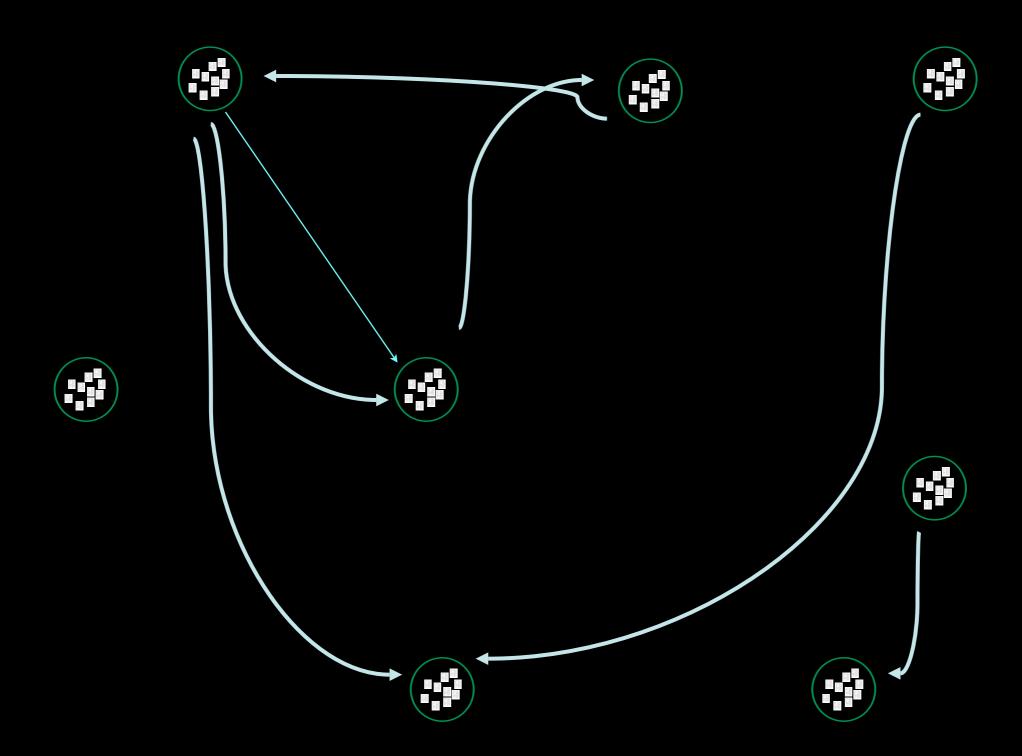
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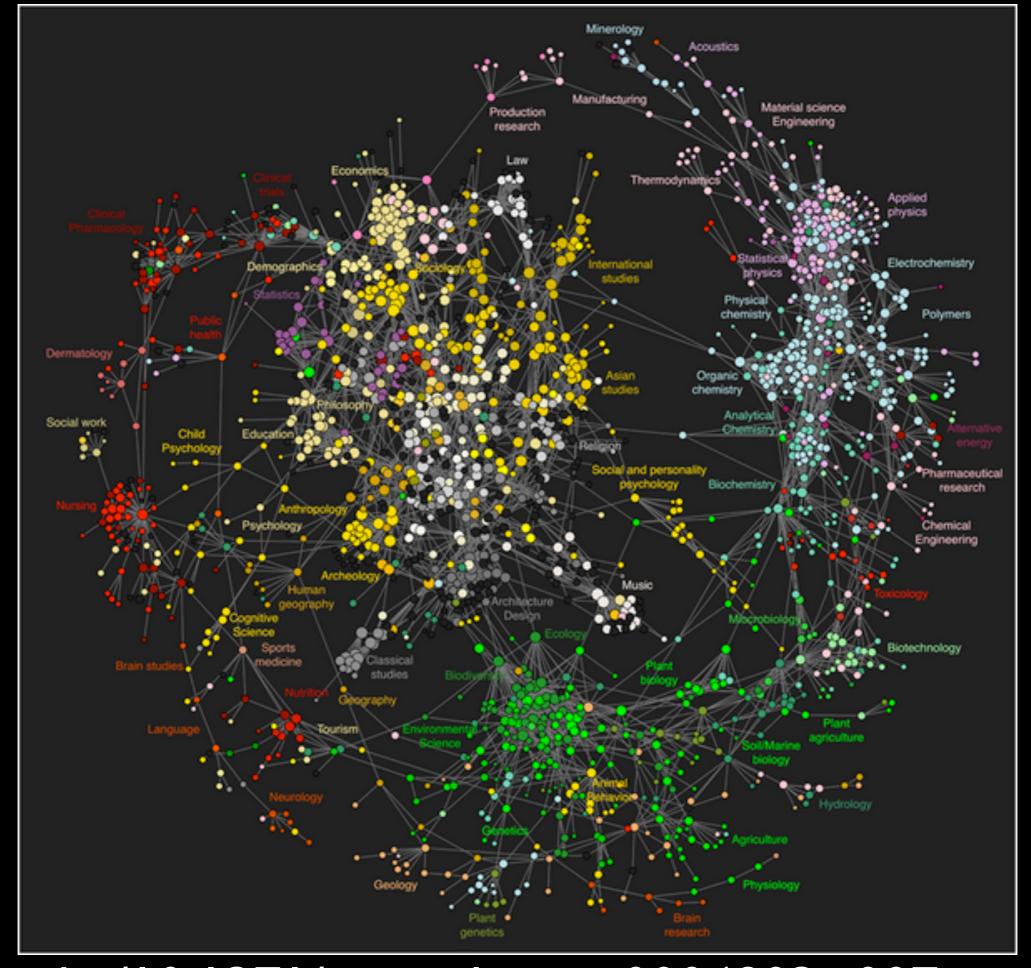
IF
$$(year) = A/B$$

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A = # of articles published in (year -1)
+ (year - 2)
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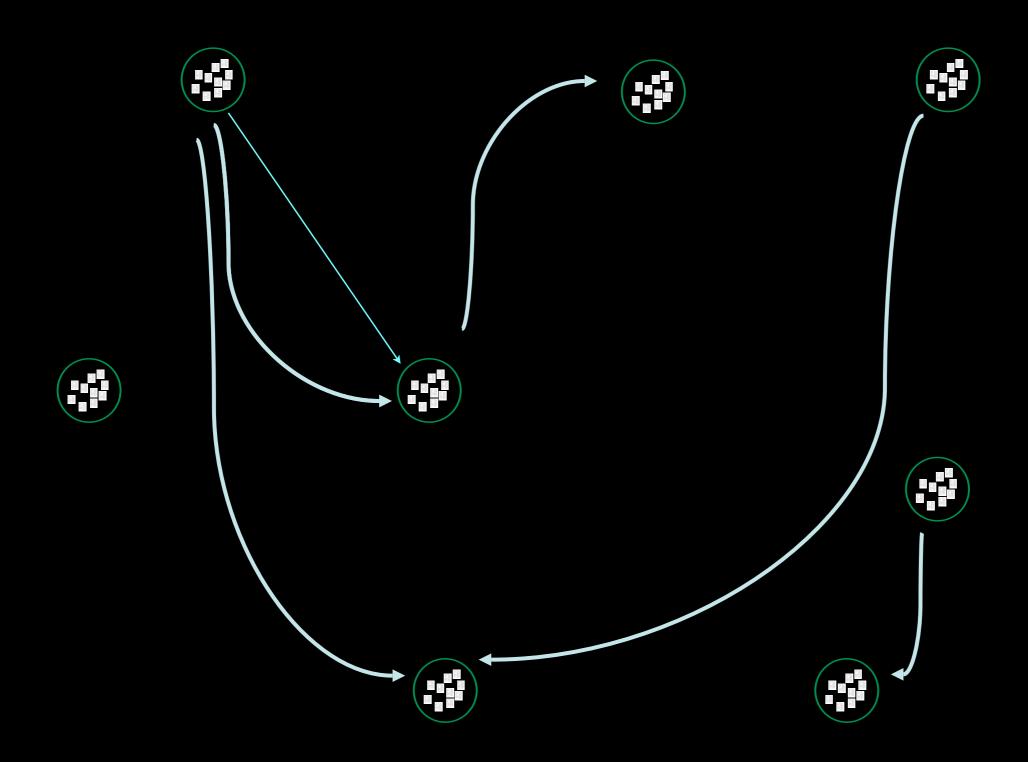
B = # of citations to journal in year

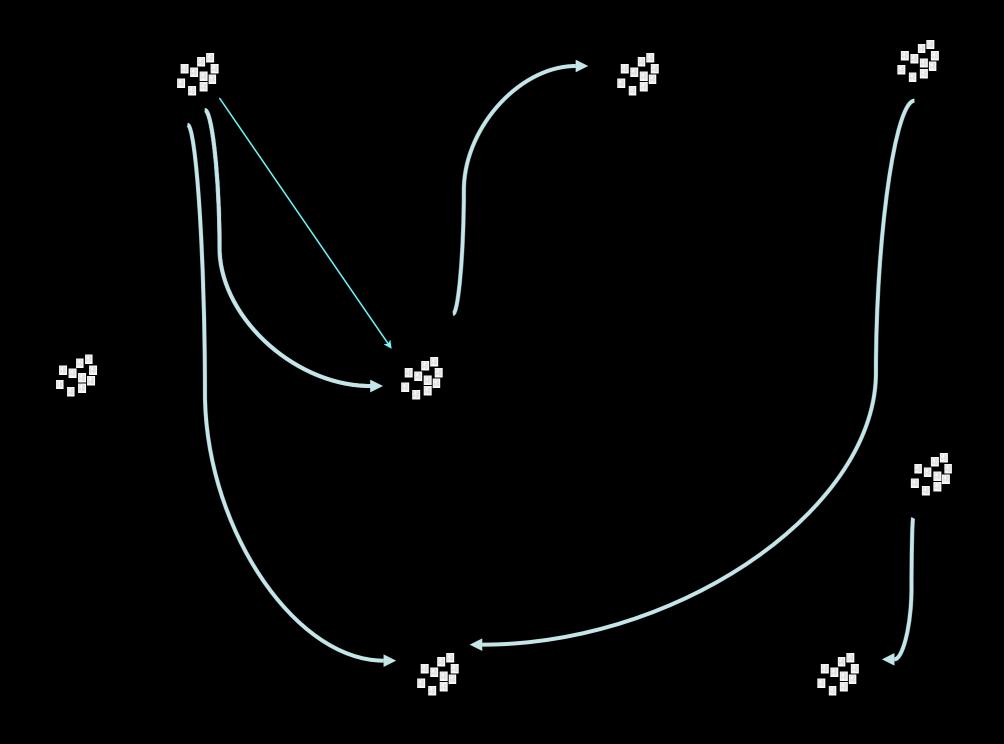




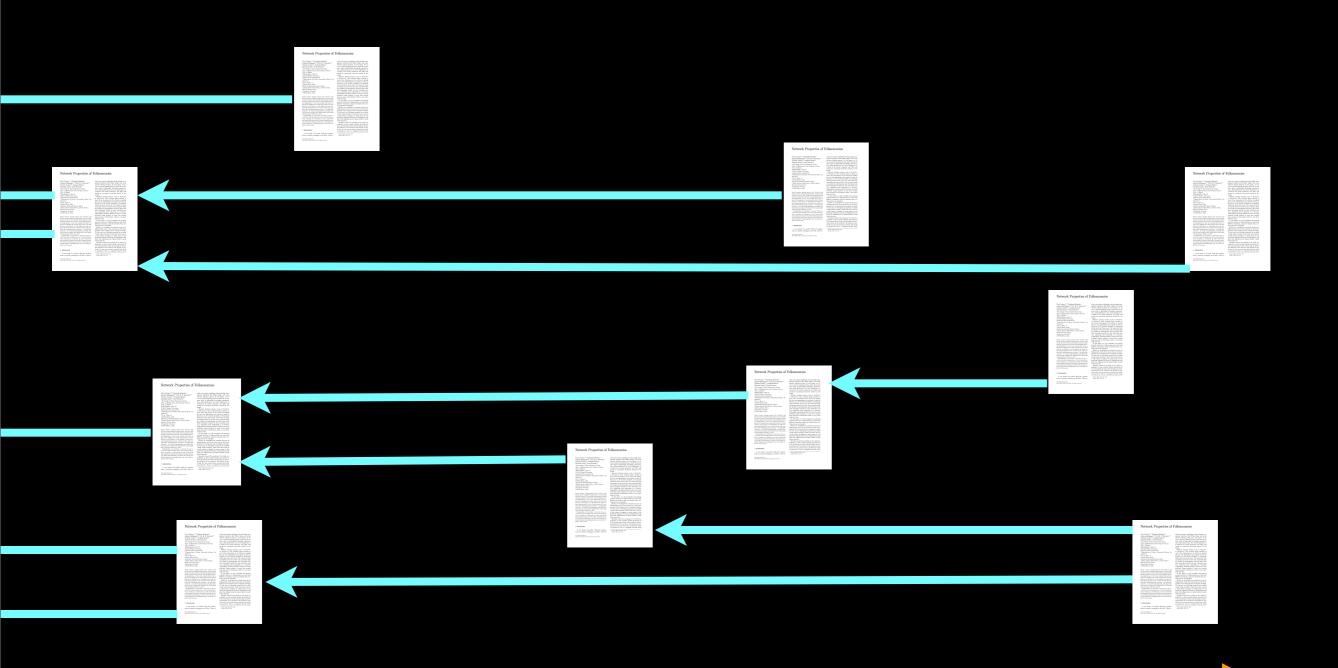


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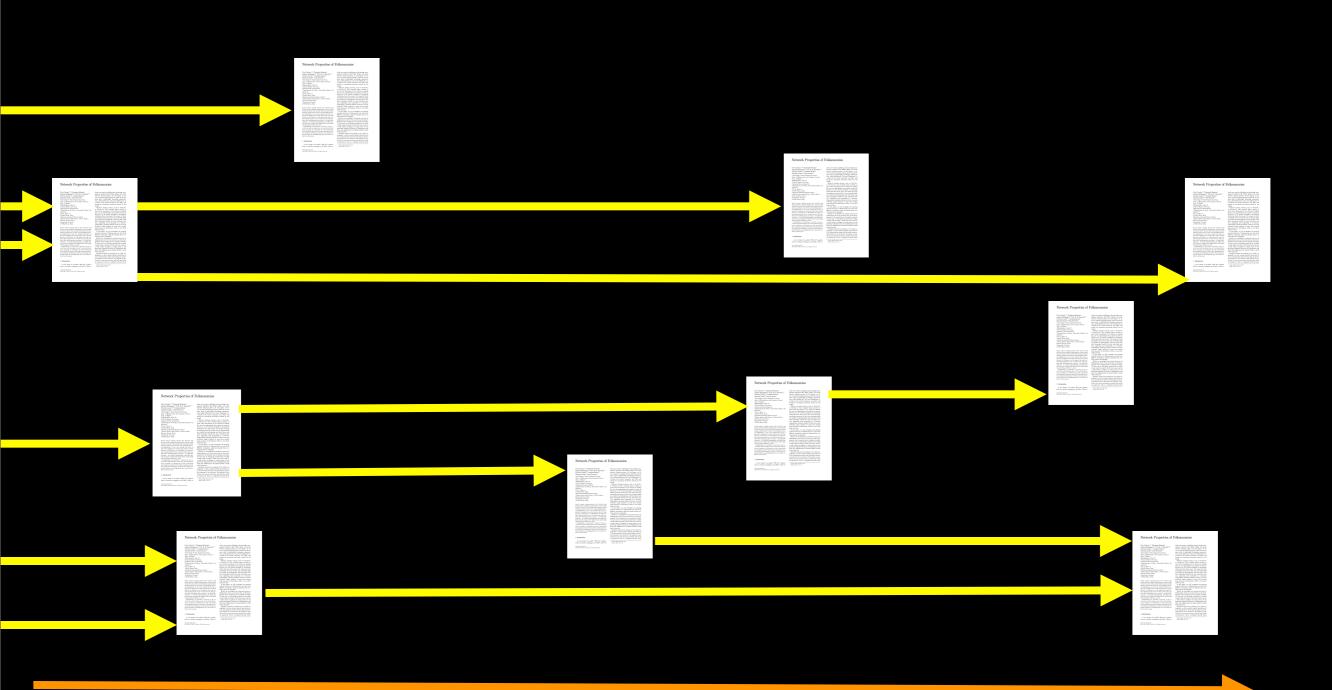


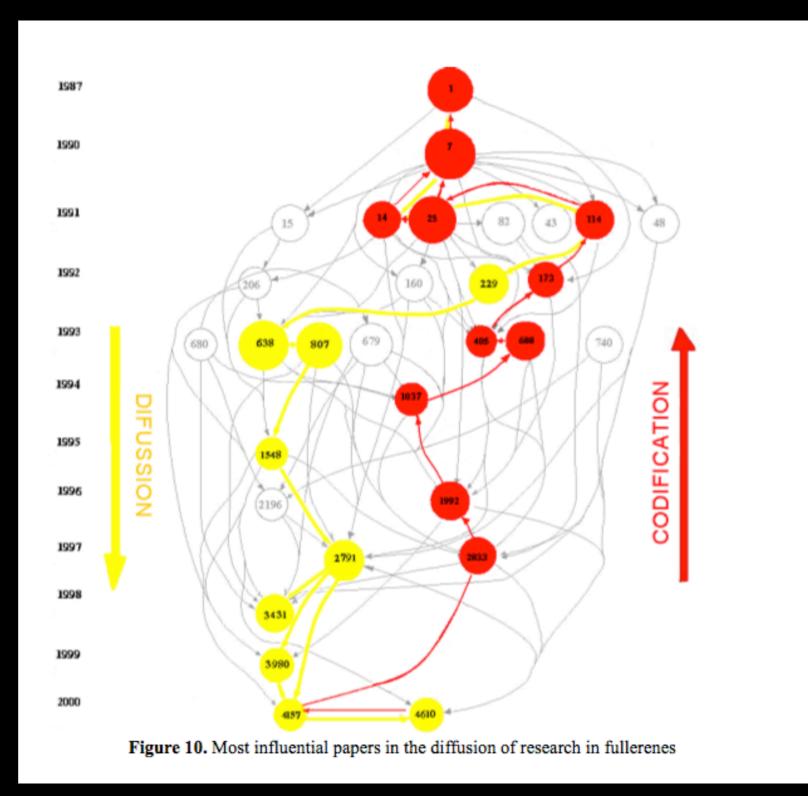


Citations



Ideas





Main-path analysis and path-dependent transitions in $HistCite^{TM}$ -based historiograms

Journal of the American Society for Information Science and Technology (forthcoming) Diana Lucio-Arias1 & Loet Leydesdorff2

Amsterdam School of Communications Research (ASCoR), University of Amsterdam Kloveniersburgwal 48, 1012 CX Amsterdam, The Netherlands.

¹ Cox, D.R. (1972) Regression models and life-tables. *J. Roy. Statist. Soc. B* **34**:

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Weaving in more value

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MicroFormats
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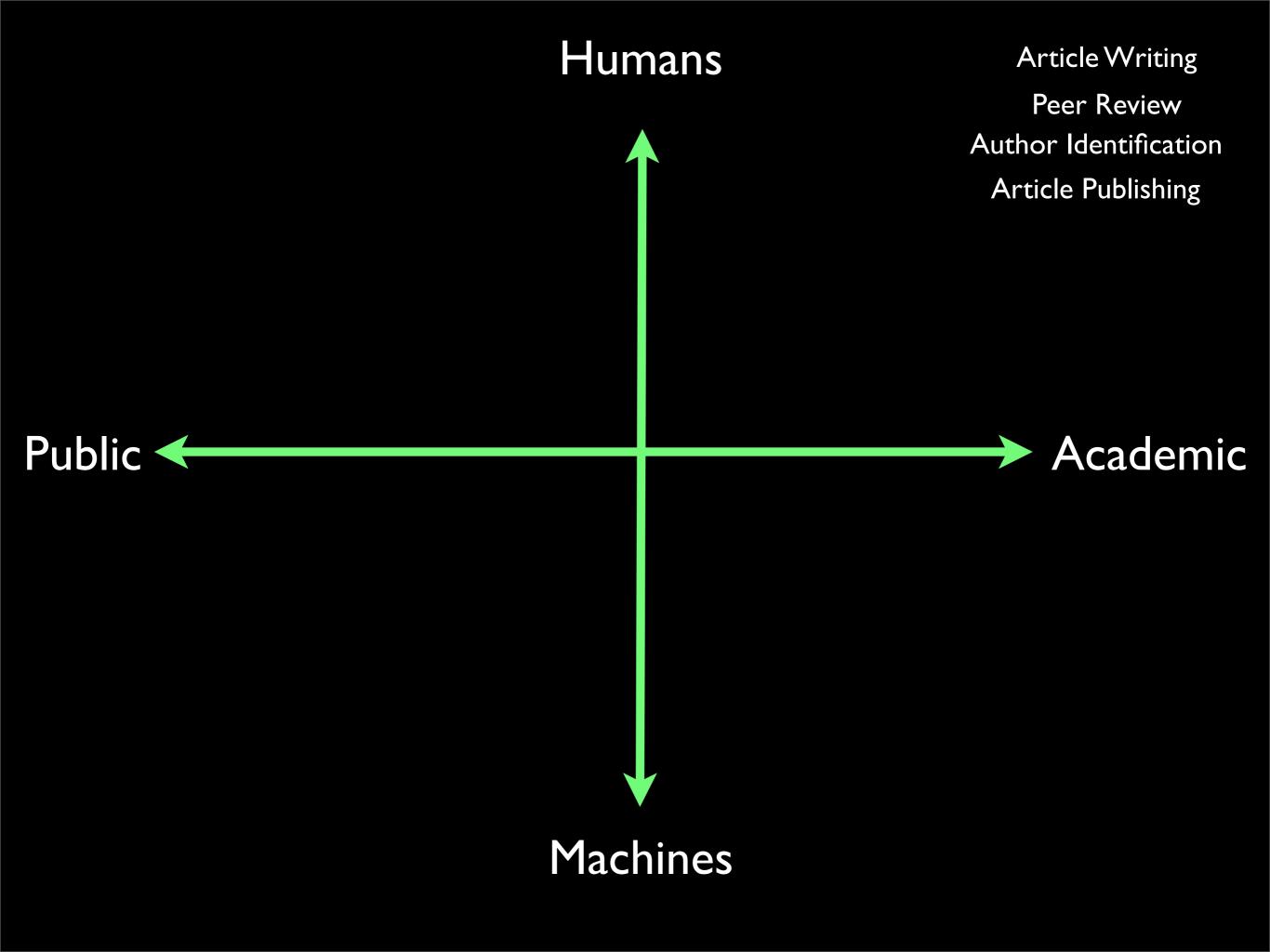
academic papers

Semantic Web

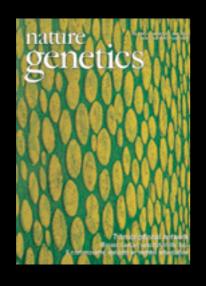
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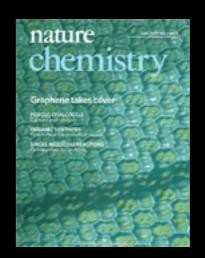
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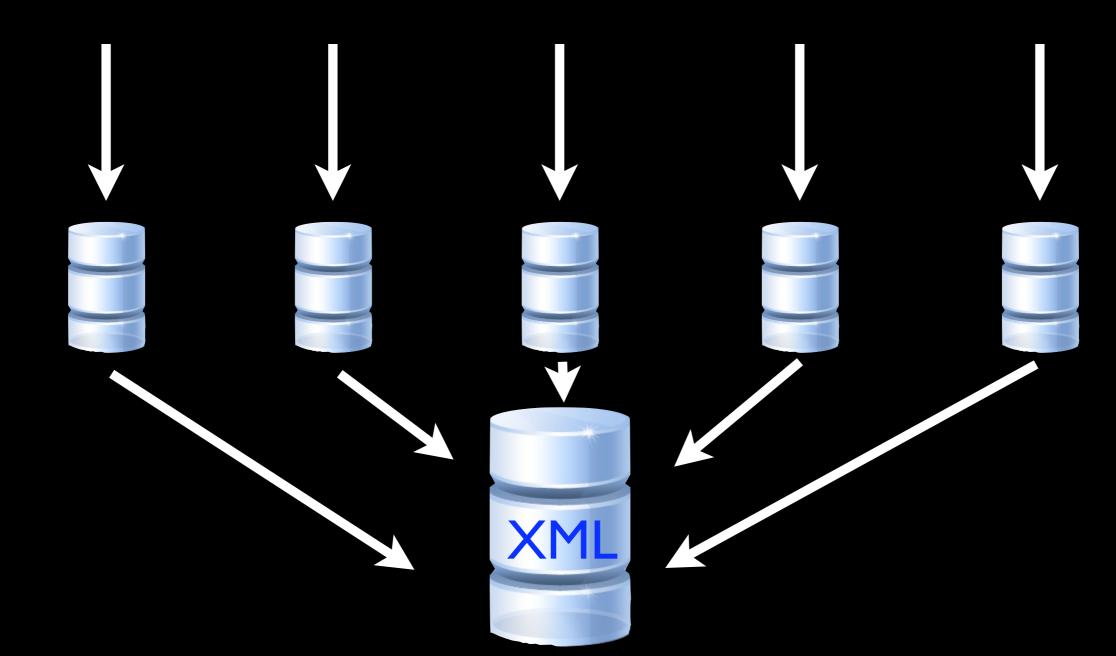






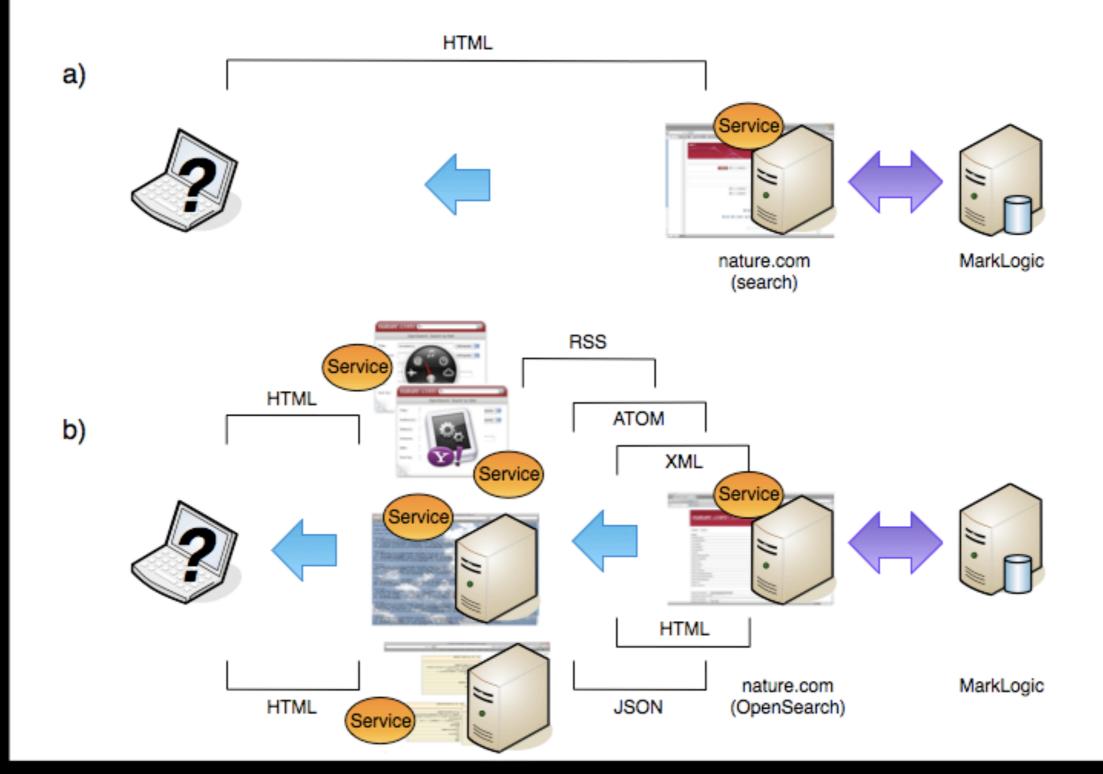




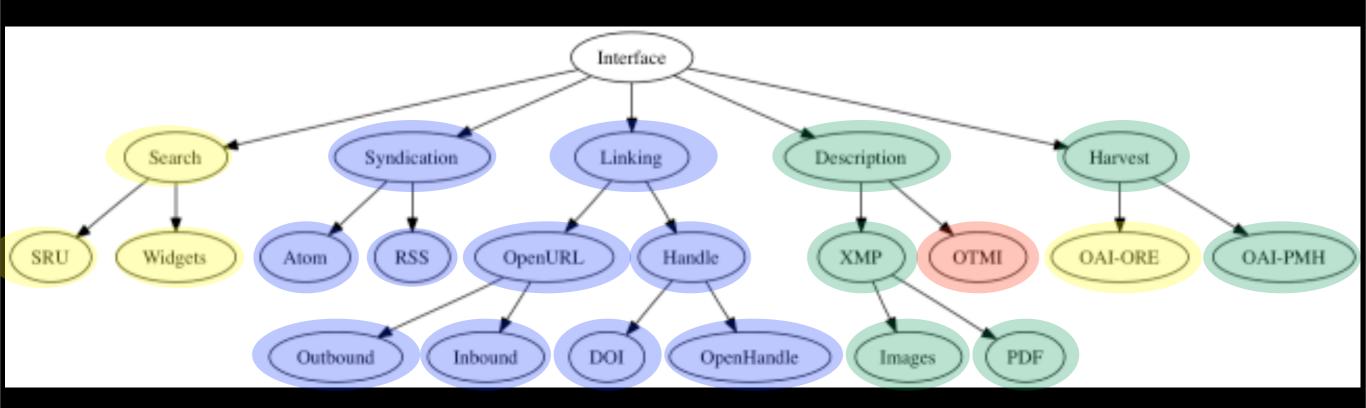




Building a delivery infrastructure







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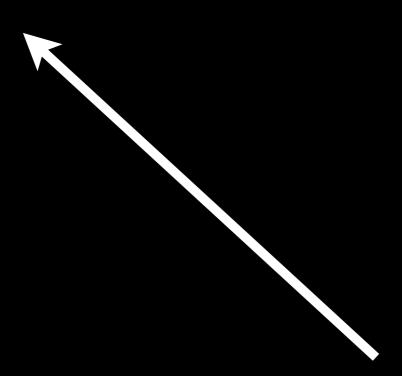
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Nature Chemistry 1, 217 (2009). <a href="http://dx.doi.org/10.1038/nch">http://dx.doi.org/10.1038/nch</a>
Authors: Santanu Bag, Amy F. Gaudette, Mark E. Bussell & amp; Mercouri
Aerogels made from metal– sulfur networks show high absorption of
separate H2 from CO2. Compared with the conventional sulfided Co-Mo/A
active towards the hydrodesulfurization of thiophene. Aerogels made from m
organic molecules and mercury ions and can easily separate H2 from CO2. (
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Extensible Containers

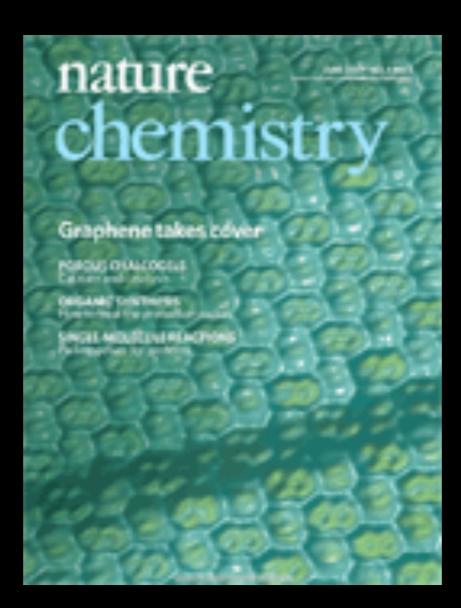


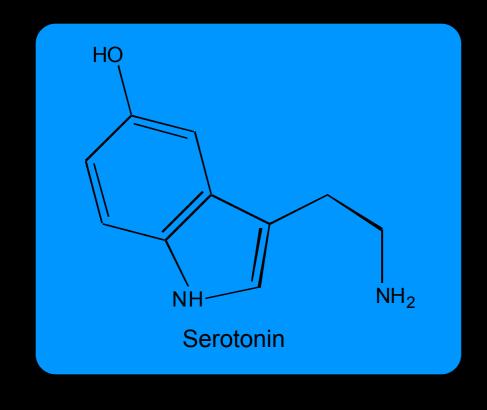






+ MESH



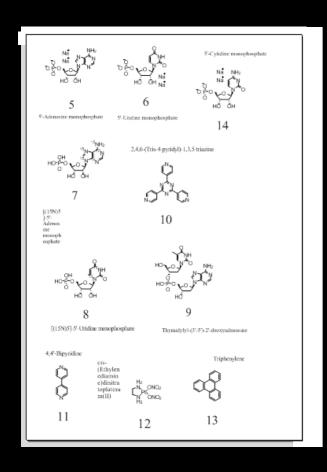


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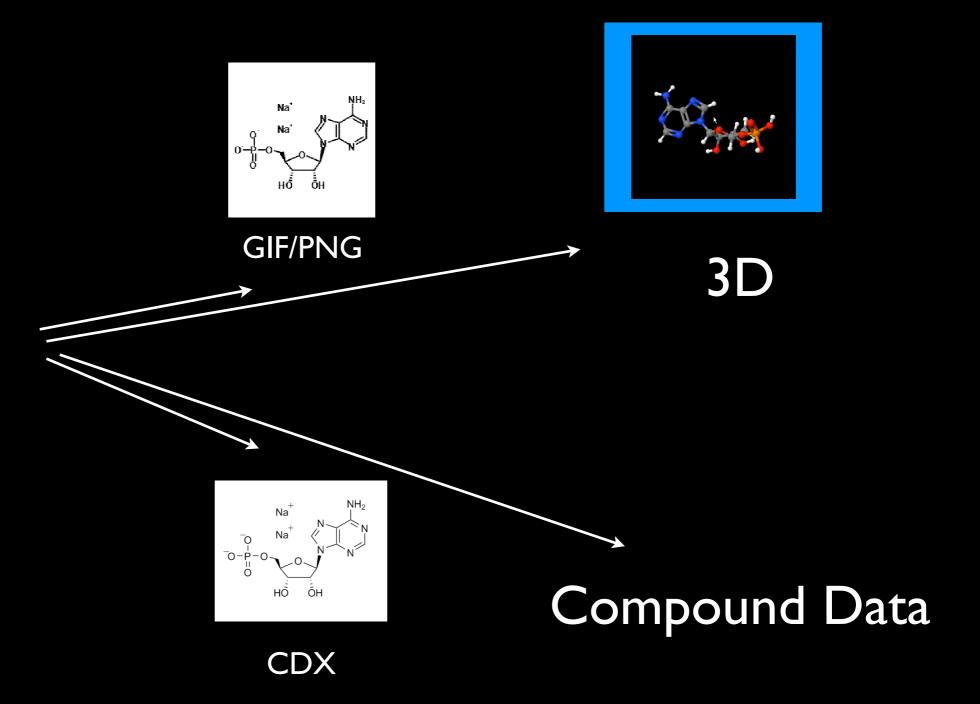
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InChlKey - QZAYGJVTTNCV MB-HFFFAOYSA-N



Author file



Enhanced compound pages offer:

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Synonyms

Chemical formula

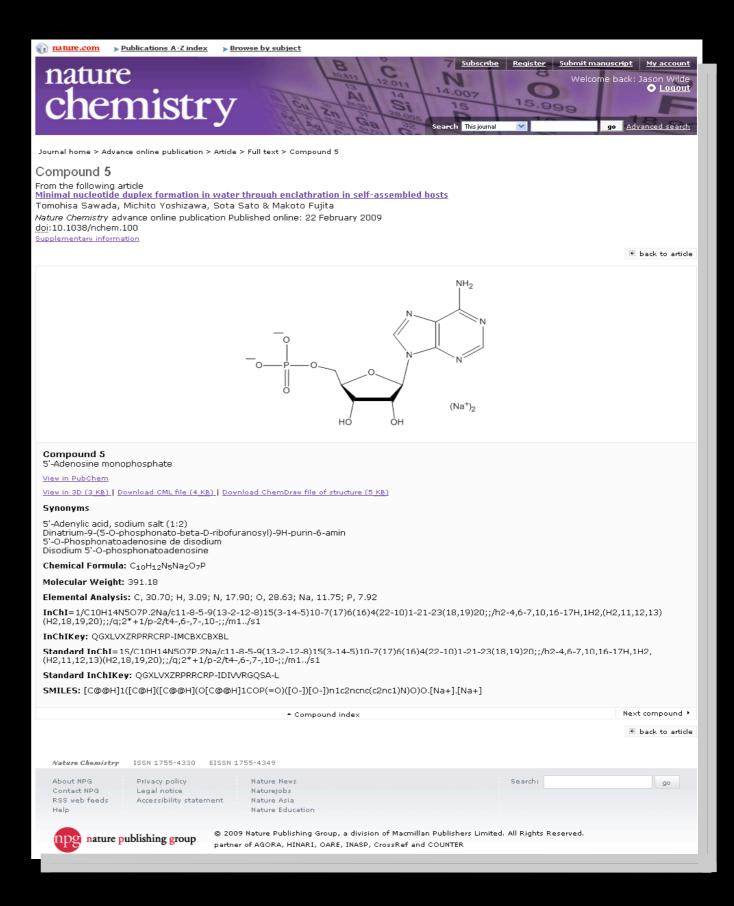
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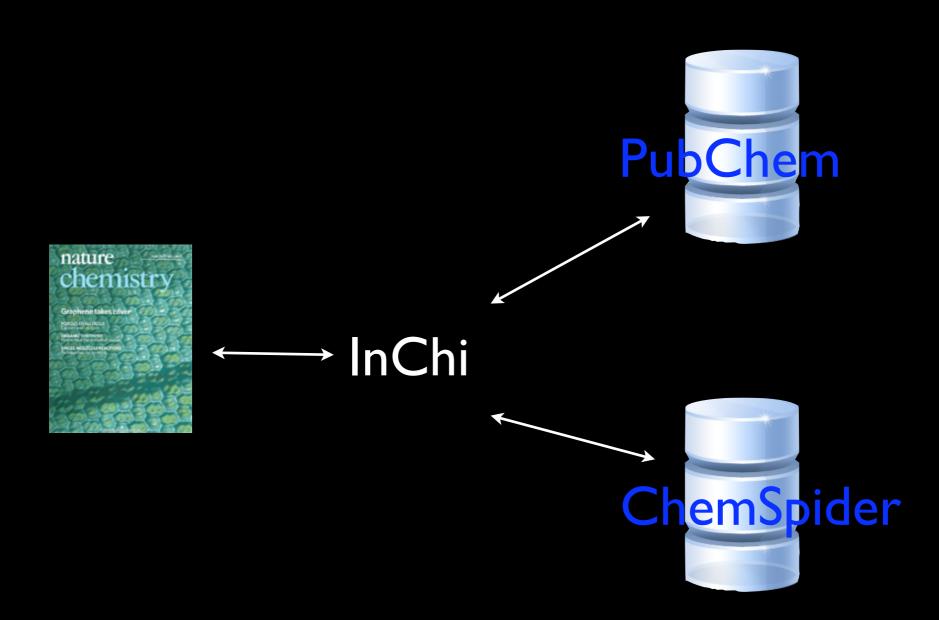
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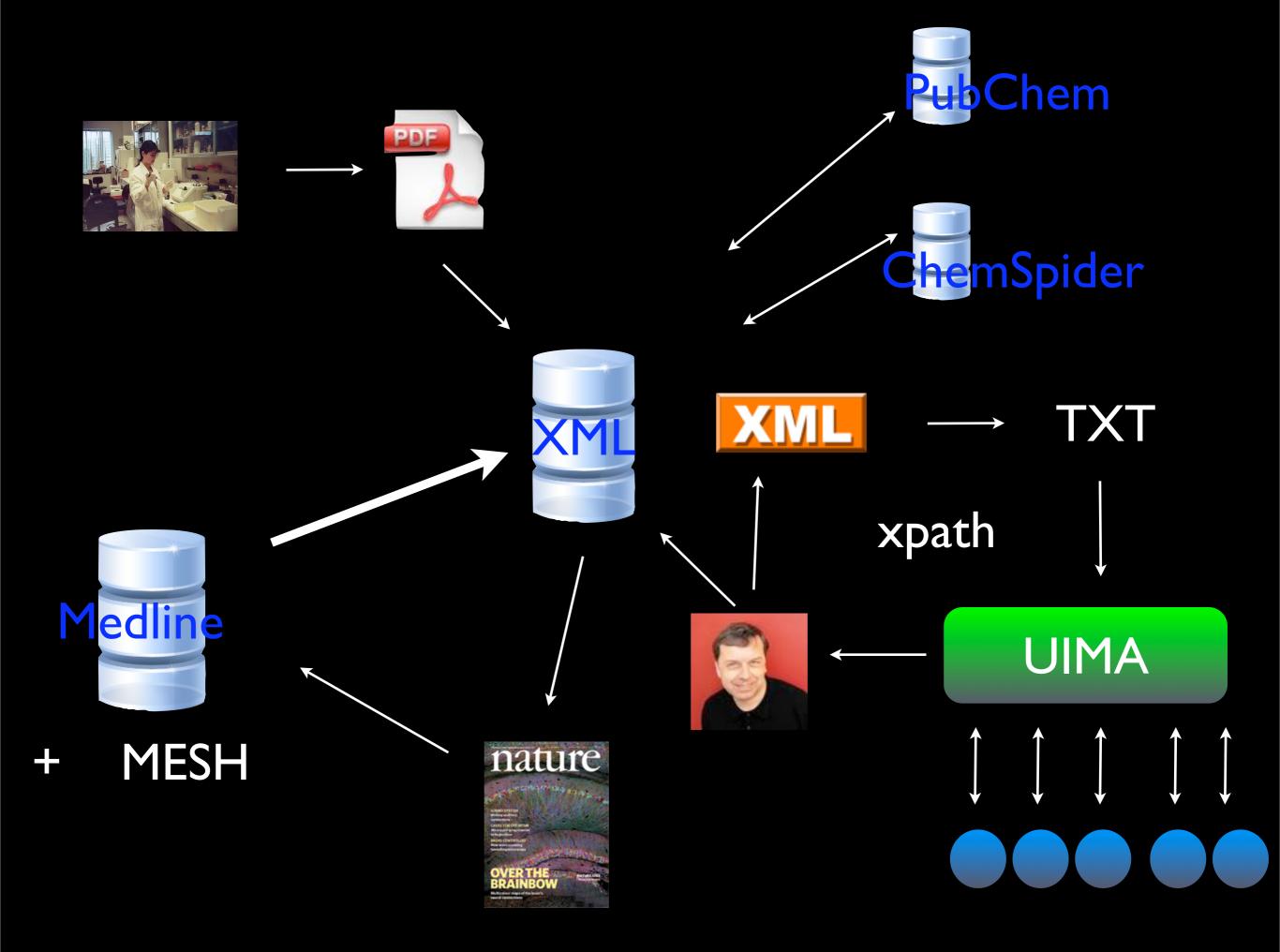
InChI and InChIKey

SMILES string

Links to external databases







e Chemistry

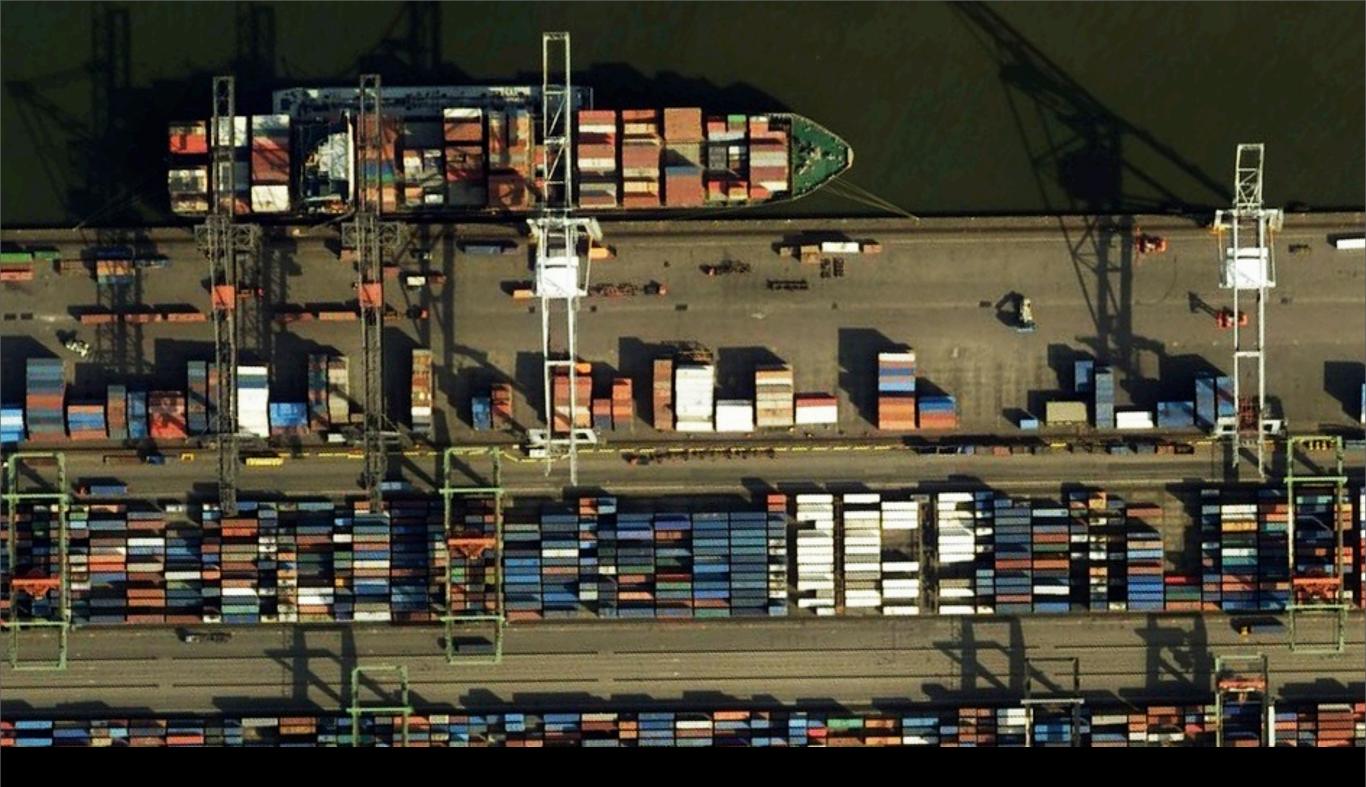
sis of ricciocarpin A and discovery of a more potent analogue

able the rapid build-up of molecular complexity from relatively simple starting materials. Both rapid construction and the ed structures are crucial to the study of biological activities. Here, we report an efficient, highly enantioselective and I synthesis of ricciocarpin A. The key feature of the synthesis is a one-pot, three-step, organocatalytic reductive Michael—The conciseness and flexibility of this approach not only resulted in the synthesis of the natural product, but also of its er structural analogues. A preliminary biological evaluation of these compounds identified an analogue with significantly I activity.

of carbonyl transformations using amines or ammonium salts as catalysts has recently become increasingly significant. In efficient, asymmetric, aminocatalytic, conjugative, reductive intramolecular Michael reaction cascade. Our process enamine catalysis to give five- and six-membered carbacycles in excellent yields and enantioselectivities. To gain a better elevance and scope of this conceptually new approach, we wanted to expand our studies beyond model compounds and I synthesis of biologically significant targets. Here we report the short total syntheses, in which an organocatalytic reductive ascade was the key step, of both enantiomers of the potent molluscicidal natural product (+)-ricciocarpin A (1) (refs 14–16) les. In addition we present preliminary biological data for 1 and some analogues. sesquiterpene lactone 1, isolated from the liverwort Ricciocarpos natans, would provide an ideal testing ground for our ess. 1 exhibits potent molluscicidal activity against the water snail Biomphalaria glabrata, a vector of schistosomiasis. ic diseases, schistosomiasis (sometimes called bilharziasis) ranks second behind malaria in terms of its effects on blic health in tropical and subtropical areas. More than 200 million people in rural agricultural and periurban areas suffer e safe, effective drugs are now available to those who have schistosomiasis: praziquantel, oxamniquing and matriferate Edit all these n objective is to diminish the population of the parasite vectors. Accordingly, the compound niclosam Edit this infected water snails. However, niclosamide is rather non-selective and has adverse effects on native Edit title for these h. As a result of the potency of 1 synthetic chemists have given it considerable attention, which has r Show all these elective syntheses. A concise total synthesis of 1 was envisioned in accordance with the retrosynthetic Copy data n, enal 3 would be subjected to an organocatalytic reductive Michael reaction followed by a Tishchen uld be prepared straightforwardly in two steps from commercially available starting materials. Aldol c 🖺 Paste to all these 2,2-dimethylhex-5-enal (5) gave enone 6 (Fig. 2), a compound previously also used in Krische's elegi Paste data nalization of compound 6 was then achieved by catalytic cross-metathesis. The reaction of olefin 6 wi 🛜 Delete all these Grubbs second-generation catalyst in the presence of crotonaldehyde (8) led to the formation of ald Delete this synthesis of 3, see ref. 22). With the more active catalyst 7 only 2 mol% was needed to obtain enal 3 in 90% yield. lable, its ability to participate in an organocatalytic, enantioselective, reductive Michael cycloisomerization was thoroughly Il optimizations, we found that that a clean conjugate reduction and Michael cyclization of compound 3 to give the ed on treatment with MacMillan catalyst (9) in the presence of a Hantzsch ester (10) (Fig. 3). Notably, product 2 was y as the (undesired) cis-isomer (2:1, 79% yield) in excellent enantioselectivity (cis-enantiomeric ratio (e.r.) = 199, 99% e.e.), trans-e.r. = 57, 97% e.e.). However, the cis-isomer slowly isomerizes to give the thermodynamically more stable ably, this isomerization is strongly accelerated by the catalyst of the subsequent reaction. Thus, if product 2 was not on mixture treated in situ with samarium triisopropoxide (Sm(OiPr)3), a rapid isomerization followed by a highly nchenko reaction occurred, which furnished the desired natural product 1 as a single trans-diastereomer in excellent = 1,249, e.e. >99%) and in 48% yield. The unprecedented and highly diastereoselective Tishchenko cyclization may be

PubChem ID	
InChI Key	
InChI	
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find compound	
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oxamniquine, M	ansil, Vansil, Oxaminiquine, Mansil (TN), Vansi
JOQ.	✓ [(2R)-7-nitro-2-[(propan-2-ylamino)methy tetrahydroquinolin-6-yl]methanol C ₁₄ H ₂₁ N ₃ O ₃ XCGYUJZMCCFSRP-GFCCVEGCSA-N
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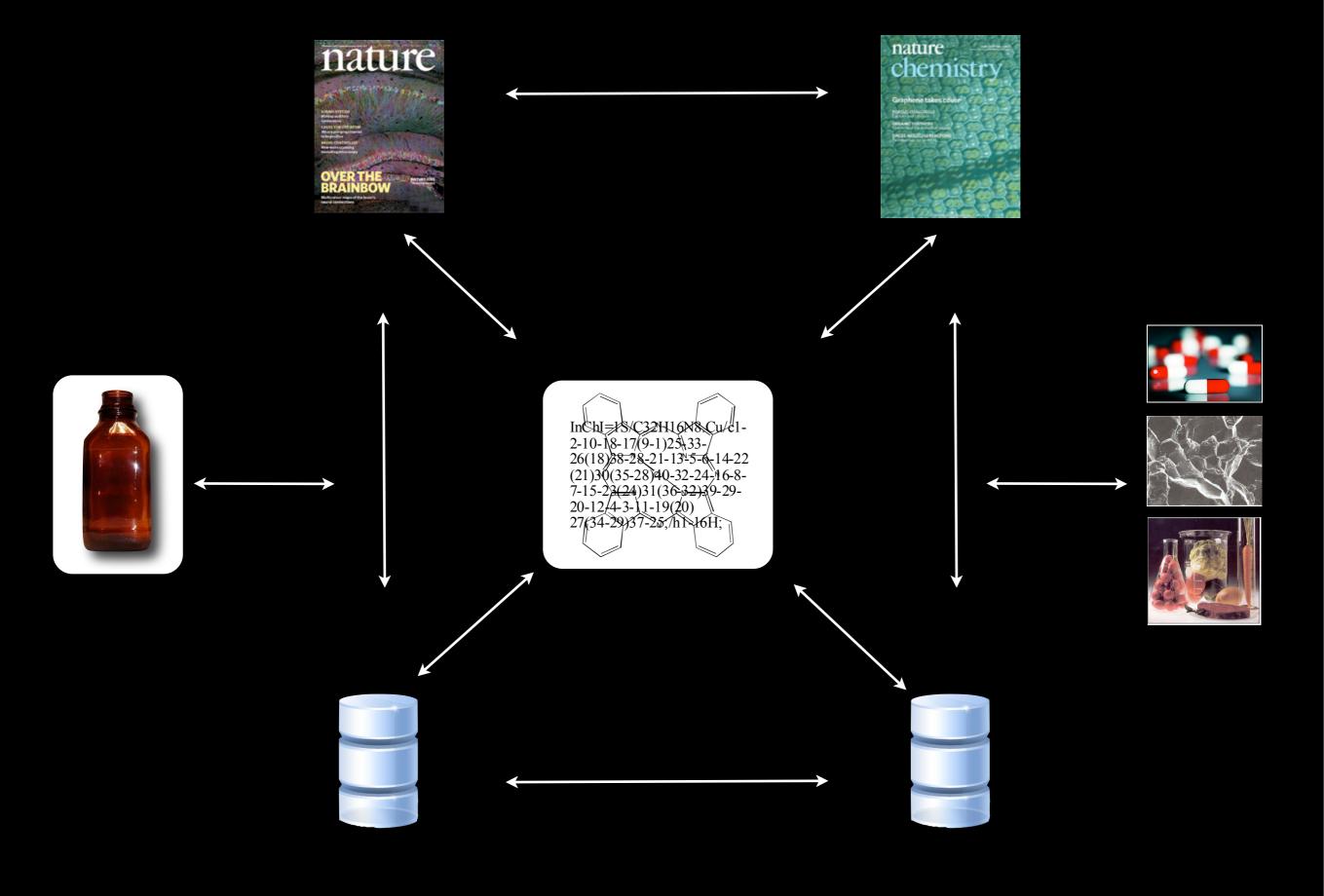


Organise metadata: create good architecture so generated data can be easily reused across a range of applications.

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Expanding the annotation of journal articles from *Nature Chemistry* to *Nature Chemical Biology* and then to all NPG journals

Creating a central NPG database of compounds and related journal articles





A Database of *Drosophila* Genes & Genomes

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GO section changes | 7 Jul 09 P[acman] BAC libraries | 22 Apr 09 2009 White Paper Consultation | 27 Jan 09 modENCODE Data Release | 6 Nov 08 modENCODE White Paper | 23 Oct 08

Upcoming Meetings

16th ISDB Congress | 6 Sep 09 Modelling Cancer in Drosophila | 14 Sep 09 Building the Body Plan | 21 Sep 09 Midwest Drosophila Conference | 2 Oct 09 EDRC 2009 | 18 Nov 09 1st Scottish Dros. Meeting | 11 Dec 09

Courses

Drosophila Species Workshop | 29 Oct 09

Forum

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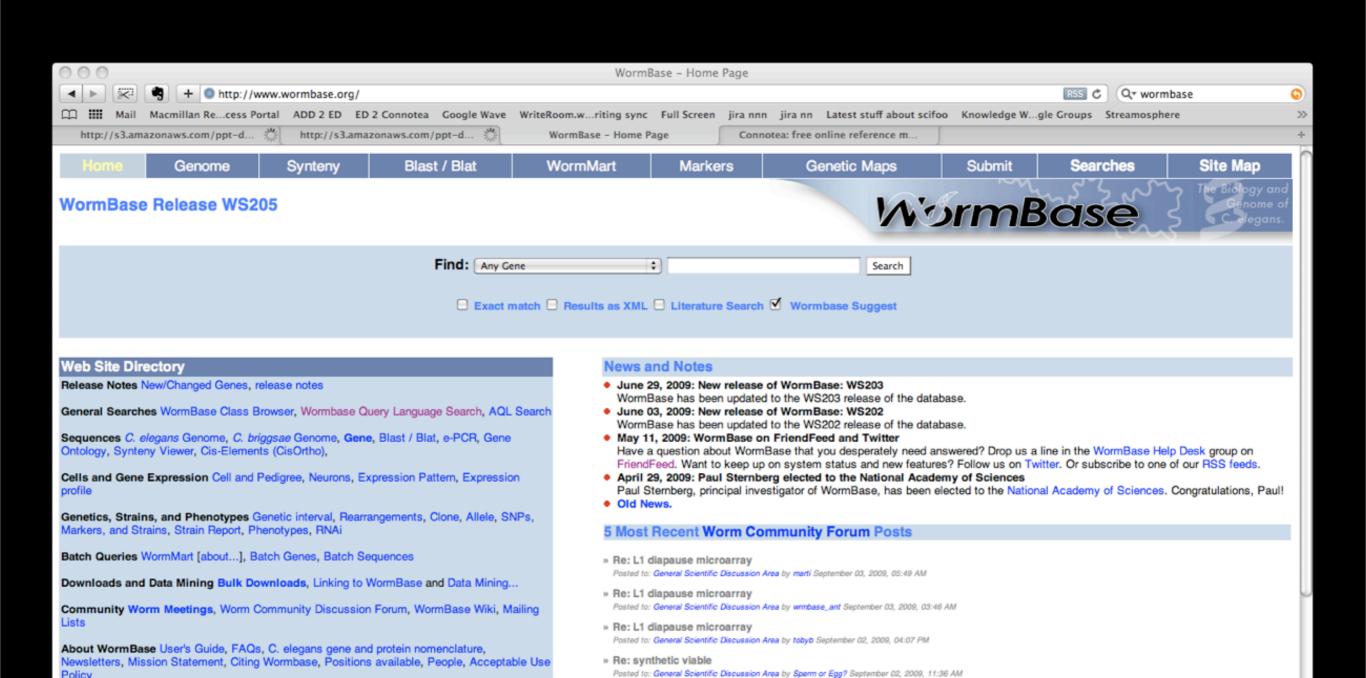
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Commentary Previous | More

Display of the New Bloomington Deficiency Kit

Twenty years ago the Bloomington Drosophila Stock Center (BDSC) defined the original Bloomington Deficiency Kit, which became a standard tool for mapping and screening used throughout the Drosophila community. New sets of deficiencies with molecularly defined endpoints produced by the Exelixis, DrosDel and BDSC deletion projects have since brought deficiencies into the genomic era. The new BDSC Deficiency Kit consists of molecularly defined deficiencies from all sources supplemented with cytologically defined aberrations to achieve 98% deletion coverage of the euchromatic genome. FlyBase is pleased to provide a GBrowse display of this important community resource.

To view the new BDSC Deficiency Kit in GBrowse select "Stock Center Data" as the Data Source ("Stock Center Data" replaces "Insertions in Stock Collections")...(More).



Links

Worm Reagents C. elegans genomic clones, C. briggsae genomic clones (information, ordering), YK EST clones, CGC strains, RNAi clone mapping, Knockouts (KO Consortium, NBP-Japan), SAGE, C. elegans anatomy parts list

RSS News Feeds WormBase News, Development News, WormMart News, WormBaseWiki:

New pages, Recent changes, About News Feeds

GeneService [Fosmid clones, RNAi libraries, ORFeome v1.1, Promoterome], OpenBiosystems

Mirror Sites, Data Freezes and Data Mining Server

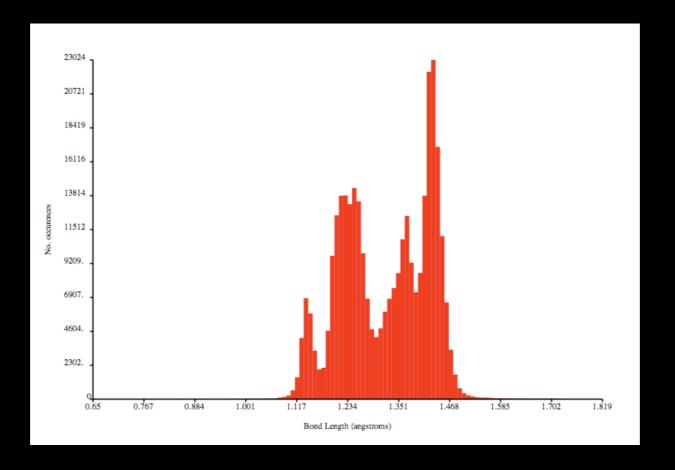
Posted to: General Scientific Discussion Area by marti September 02, 2009, 05:49 AM

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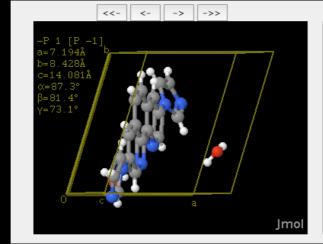
Development Site CSHL (NY, USA)

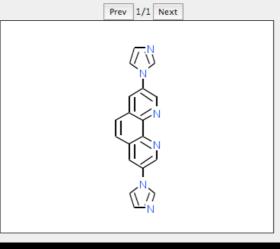
» L1 diapause microarray

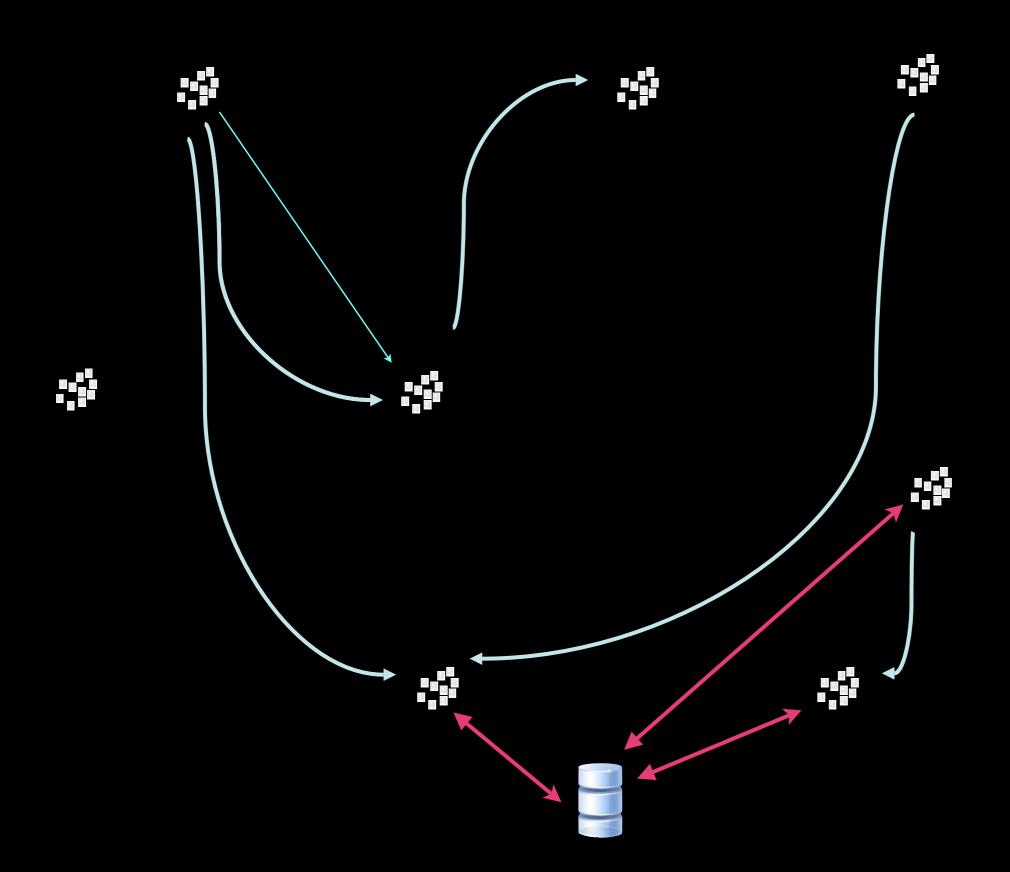
Mirror Sites

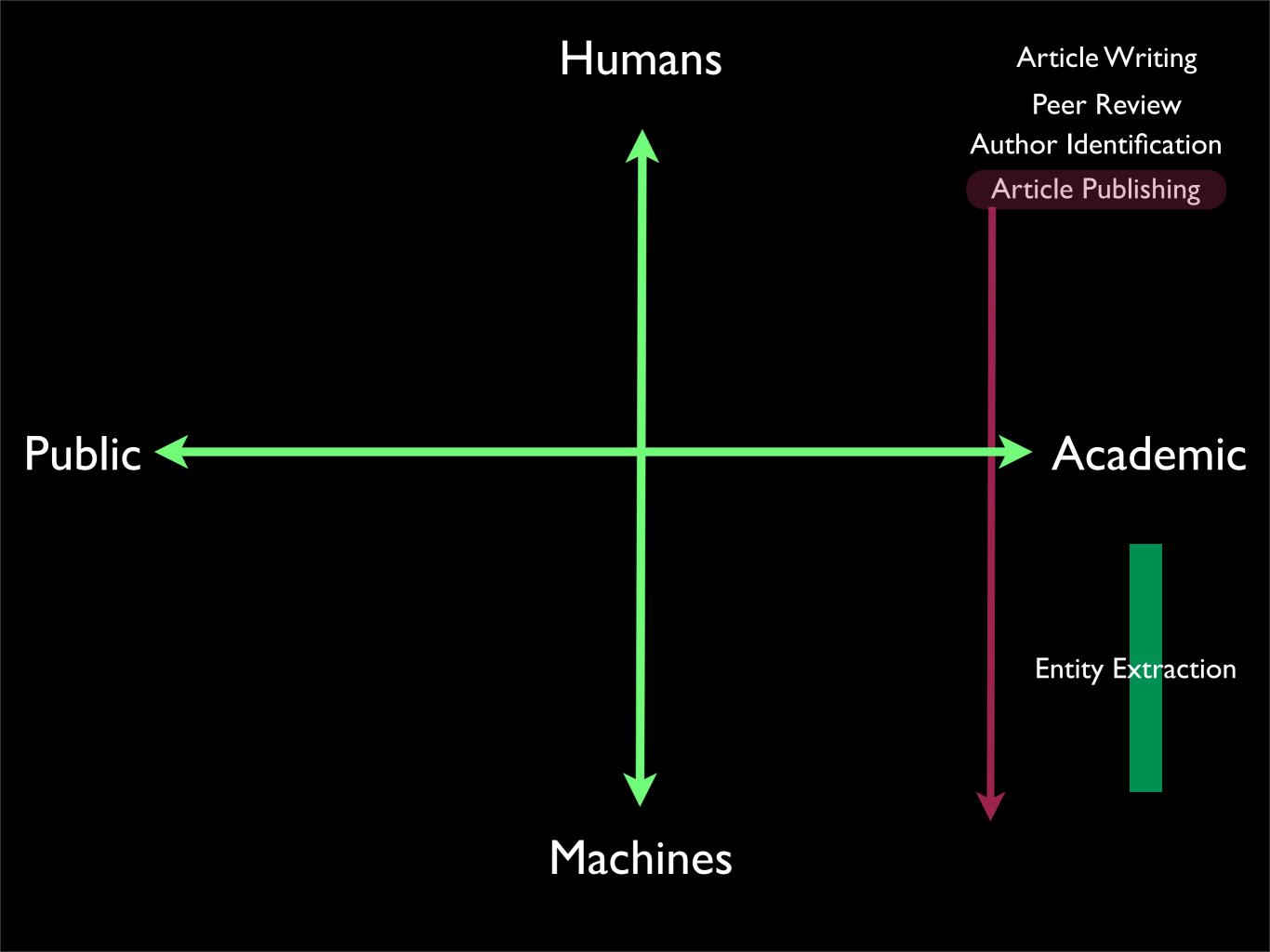


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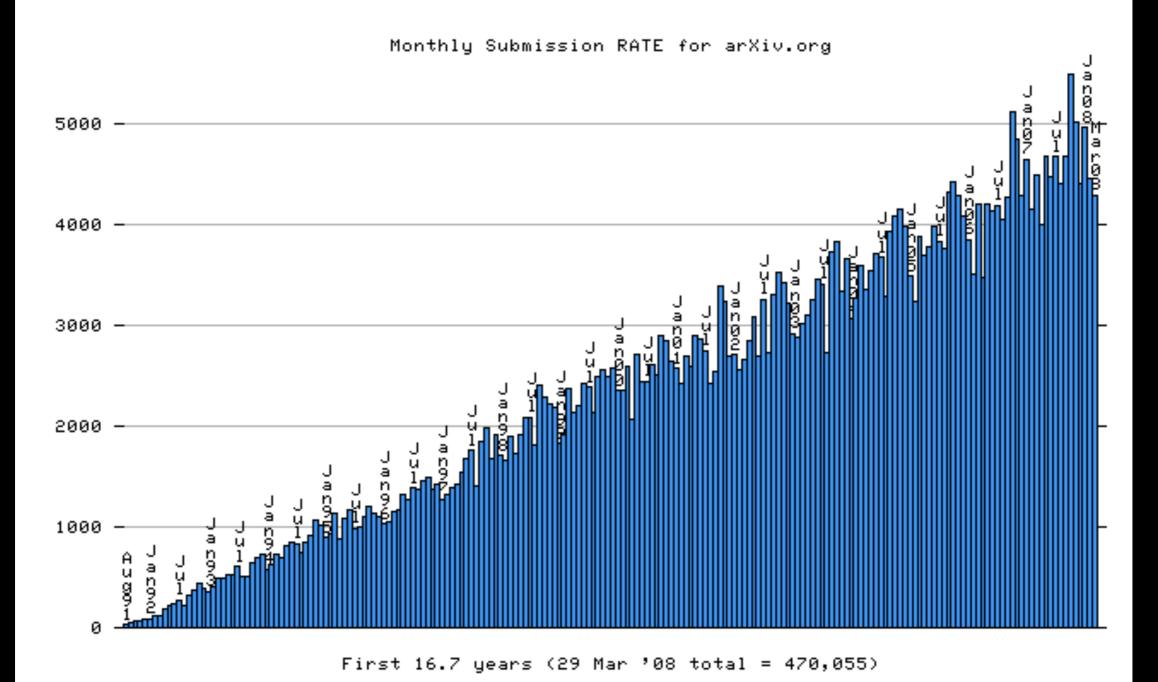






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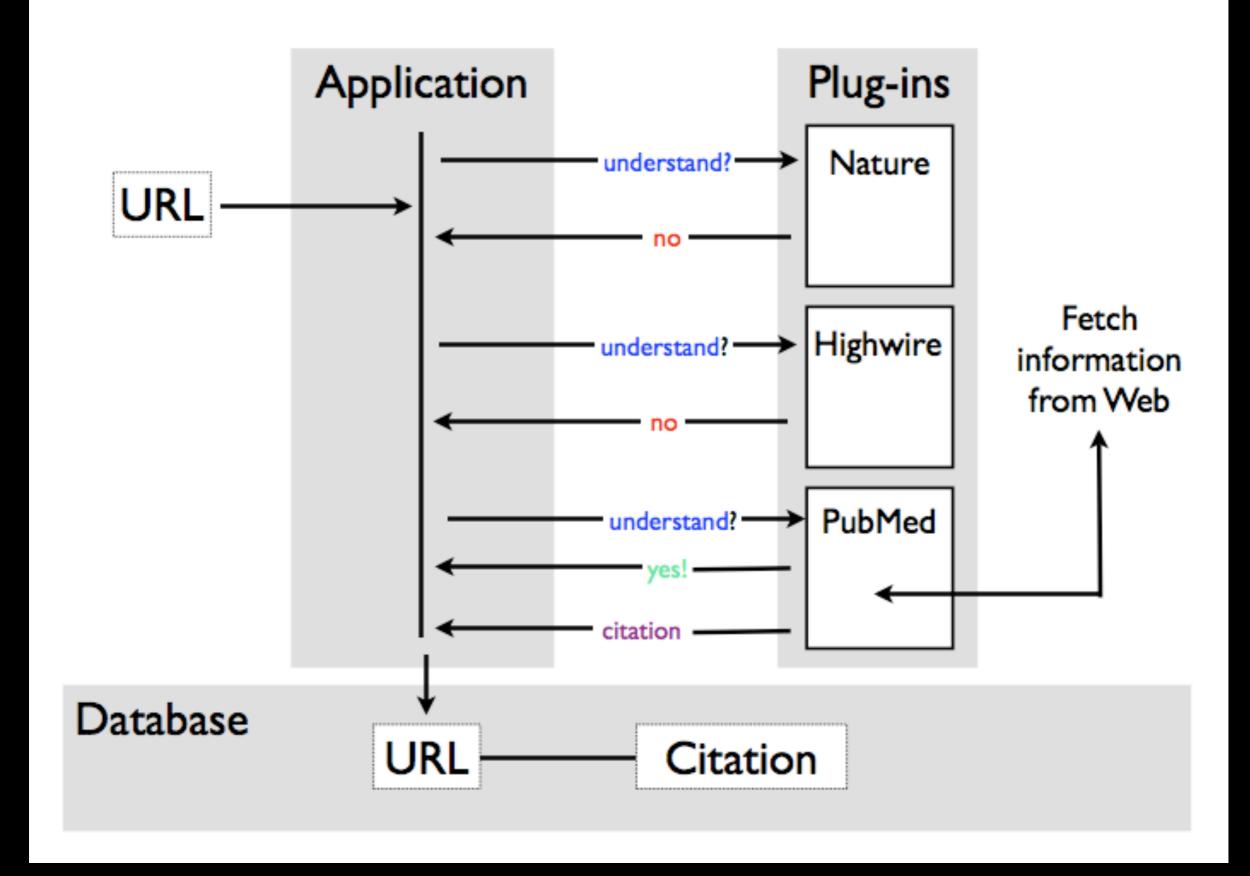


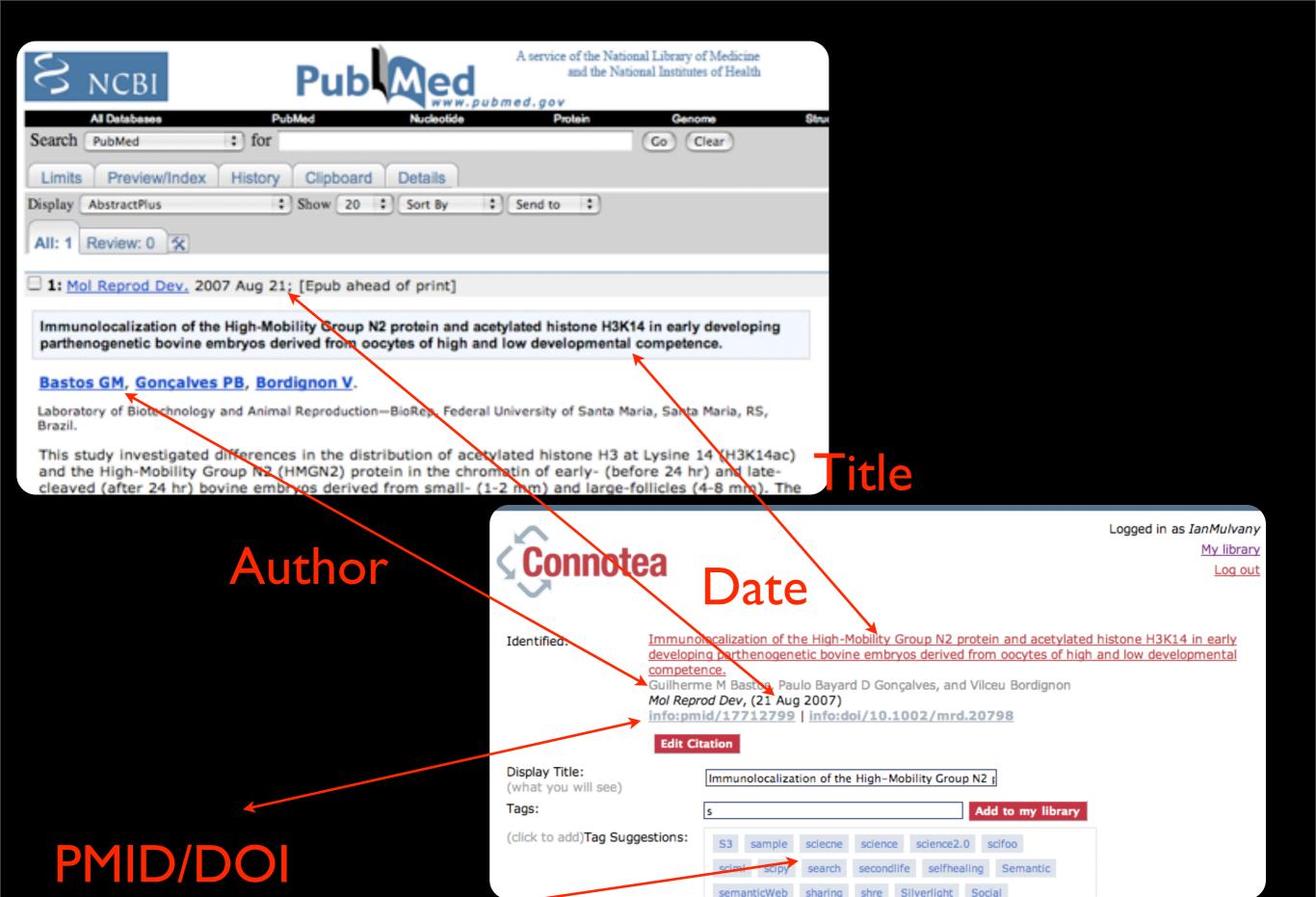
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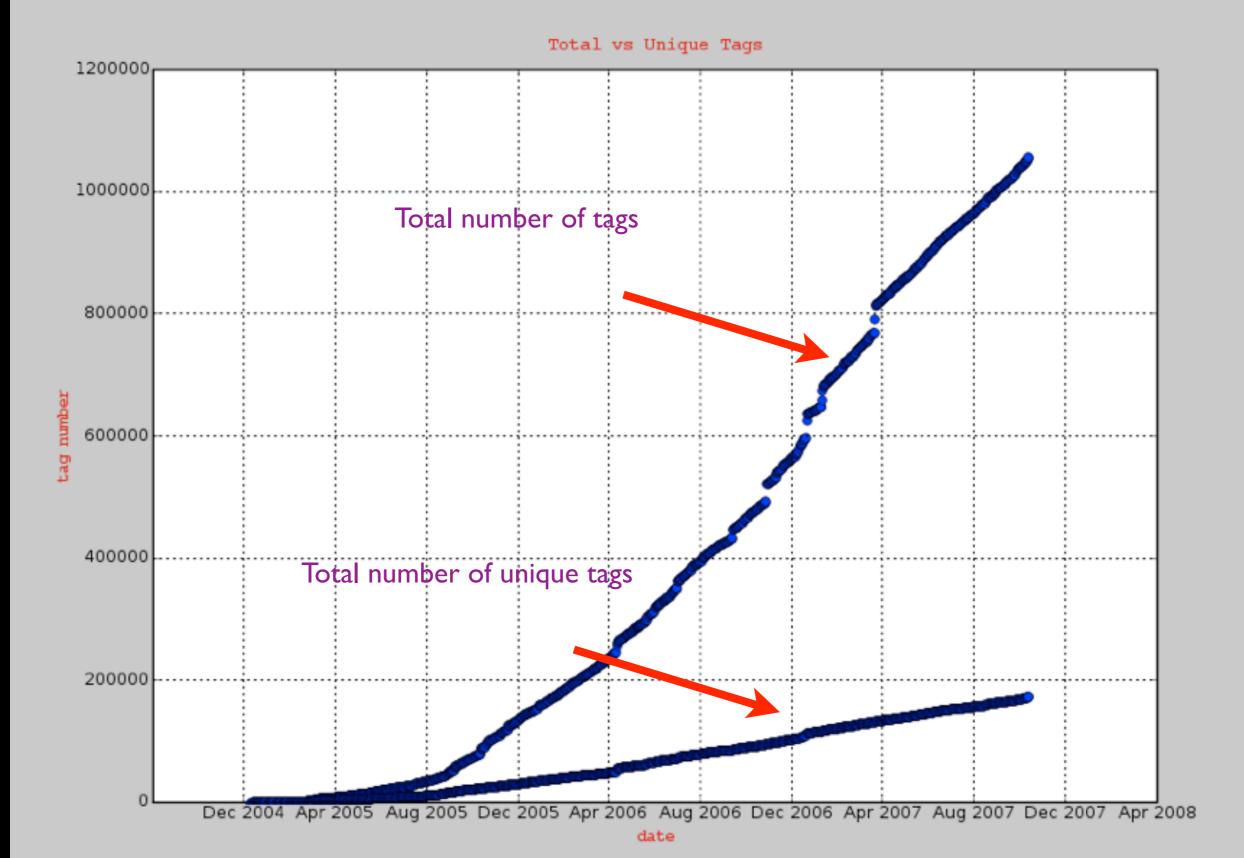


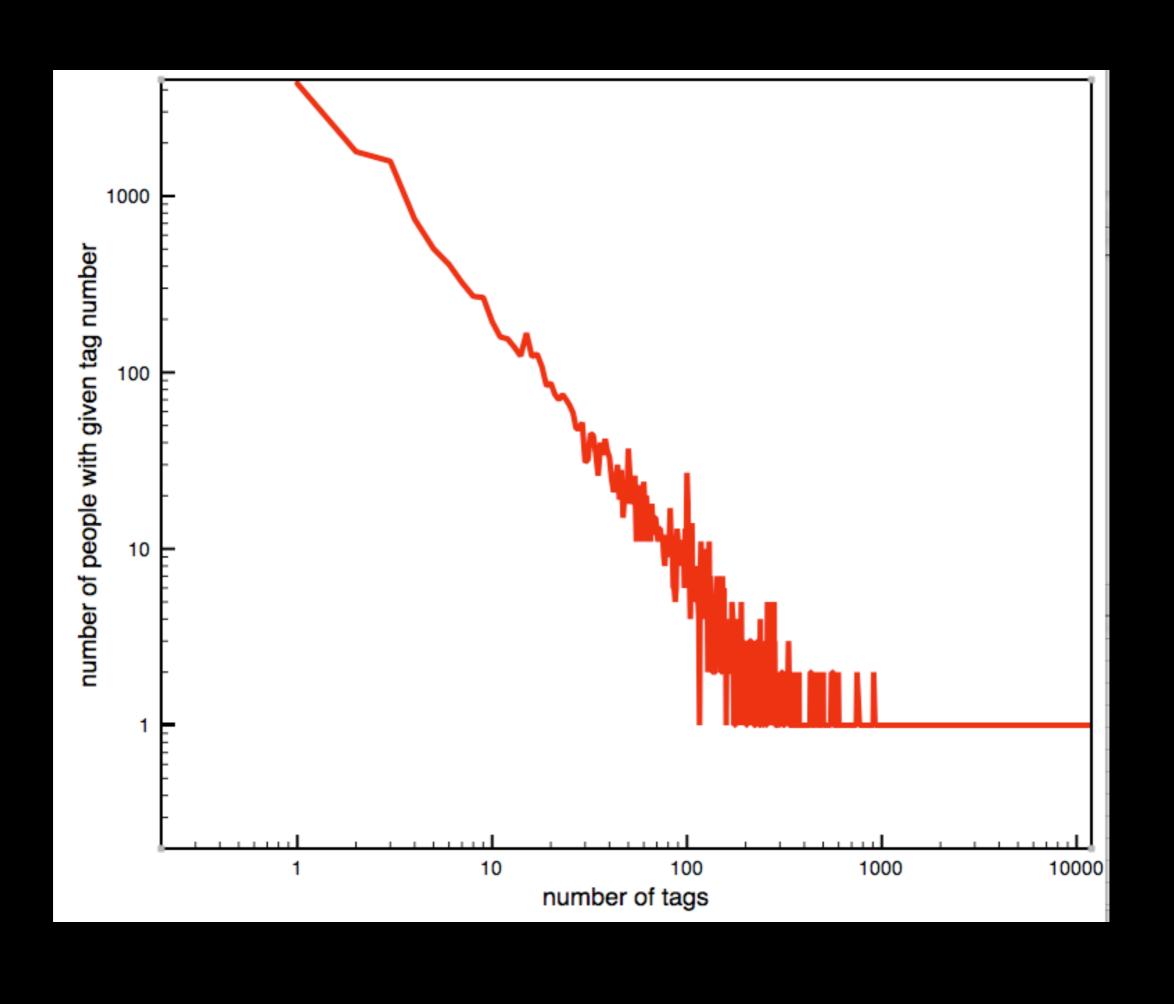


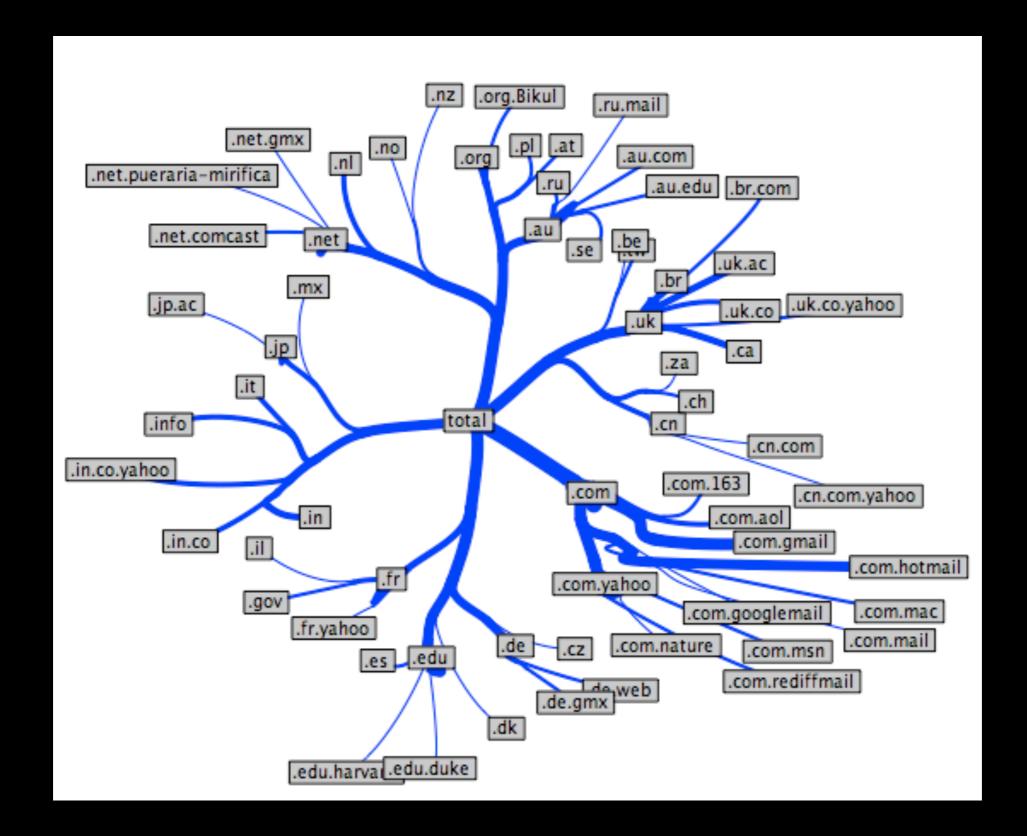


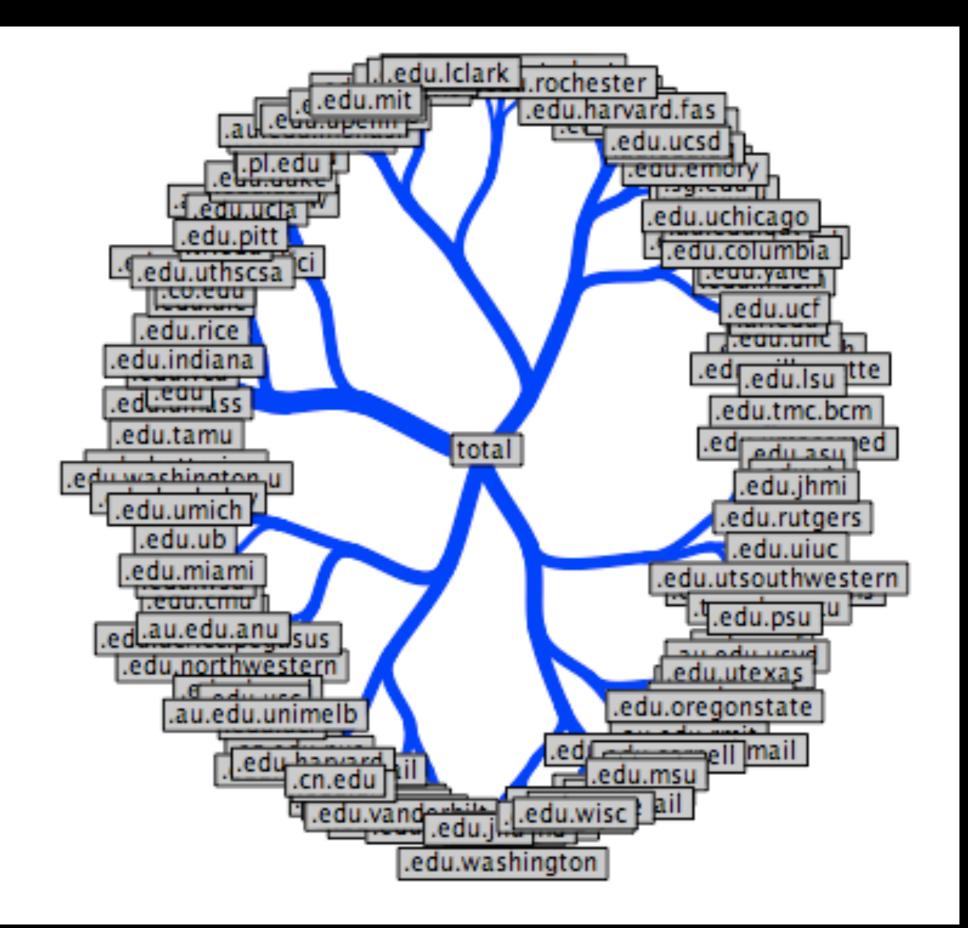












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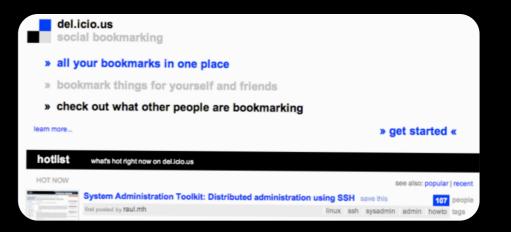
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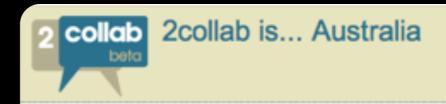
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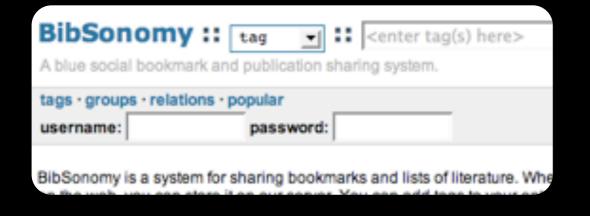






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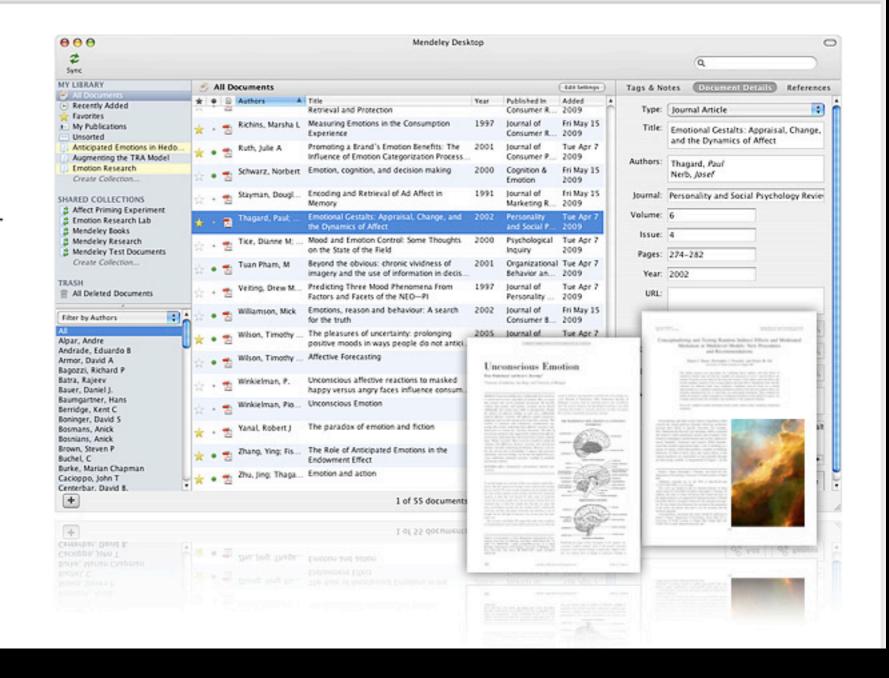
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BLOG COMMENT	comment	and 5 others hav	e posted comments on <u>On the roof</u> since your last		

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From its earliest conception, gene therapy held the promise of correcting inherited diseases by inserting a normal copy of the relevant gene into somatic cells.(Donald B. Kohn and Fabio Candotti)This beautiful concept was working perfectly fine in many animal...

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1

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New and Exciting in PLoS this week

11 hours ago in A Blog Around The Clock

It's almost Friday, so let's see what's new in PLoS Genetics, PLoS Computational Biology, PLoS Pathogens and

The case for standardized open licenses 12 hours ago in Open Access News

Mike Linksvayer, Does your sharing scale?, Creative Commons, September 2, 2009. Techdirt's Mike Masnick is perhaps the most prolific blogger on the ill impact of overly restrictive legal regimes ...

OA in Canada's copyright consultation 14 hours ago in Open Access News

Canada's Ministers of Industry and Canadian Heritage are conducting a consultation on copyright reform, soliciting comments until September 13. (See our past post.) Heather Morrison has posted her submission:

Beta testers needed for new OCS »

Open Access News

14 hours ago Gavin Baker

The Public Knowledge Project is looking for beta testers for the upcoming version of its free conference management/publishing software, Open Conference Systems.



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Andrew Perry (Neil Saunders commented on this)

@neilfws Belated Friendfeed catchups are the story of my life. I tell myself Im providing a service - gives good stuff a 2nd chance @ eyeblz

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Absolutely. Bump them up! It's like Faculty of FriendFeed. - Neil Saunders



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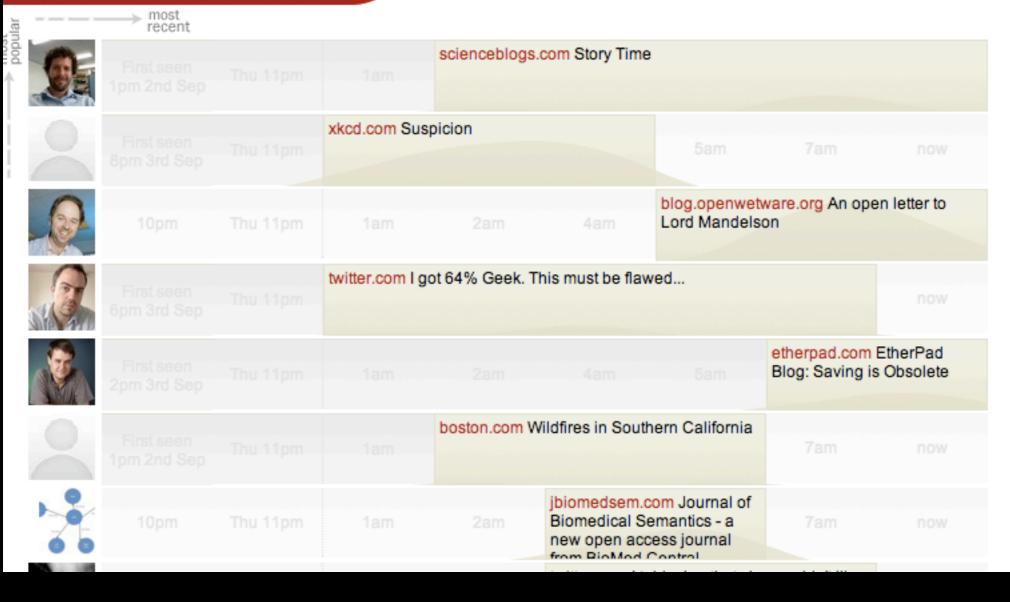
Allyson Lister

Google Wave: Just another ripple or science communication tsunami? Cameron Neylon, Chris Thorpe, Ian Mulvany

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- Pierre, Duncan Hull, Egon Willighagen and 13 other people liked this
- This is something I'm really interested in. So are a bunch of twitterers, it seems. Bob O'Hara
- D Allyson Lister
- Unicast = 1 message sent to many people. Wave is multicast "gold" copy is always kept. AJCann
- Introduction by Chris Thorpe. Email is multicasts, Wave is unicasts: you send the same message to several people. - Martin Fenner
- Jargon: "wavelets" & "blips". AJCann
- Robots are powerful tools to extend the functionality of Google Wave. Martin Fenner
- Waves can be embedded into other webpages, e.g. a blog. Martin Fenner
- Oops, some confusion over unicast and multicast immediately http://en.wikipedia.org/wiki... AJCann
- Gadgets change the functionality of a Wave. Gadgets are client-sie tools, Robots are server-side tools. -Martin Fenner
- Data stored in wave, gadgets stored in blips. AJCann
- Cameron starts Wave live demo. Martin Fenner
- And now the fun begins... Bob O'Hara
- Hey Cameron, some of us author papers collaboratively on Google Docs! AJCann
- But they're just showing versioned instant messaging, right now. cool, but I would like to see more. :) -Allyson Lister
- a Guardian robot was shown for searching the Guardian. Allyson Lister
- Can someone add me to the wave? username nuin Paulo Nuin
- And very nice: a Watexy robot for displaying latex figures Allyson Lister
- Sort of jealous wish I could "wave" (is it a verb yet?) :) Allyson Lister
- Can someone as the cat herders what they think of Daniel MacArthur's tweet: "Google Wave "will make flame wars almost immediate..."? - Bob O'Hara
- Seems to me that robots are the truly innovative aspect of wave from a users point of view (but beyond the authoring capabilities of mere mortals). - AJCann
- Waves can store structured information in a transparent way. Martin Fenner
- Ian M suggests wave robots can tame APIs for mere mortals. AJCann

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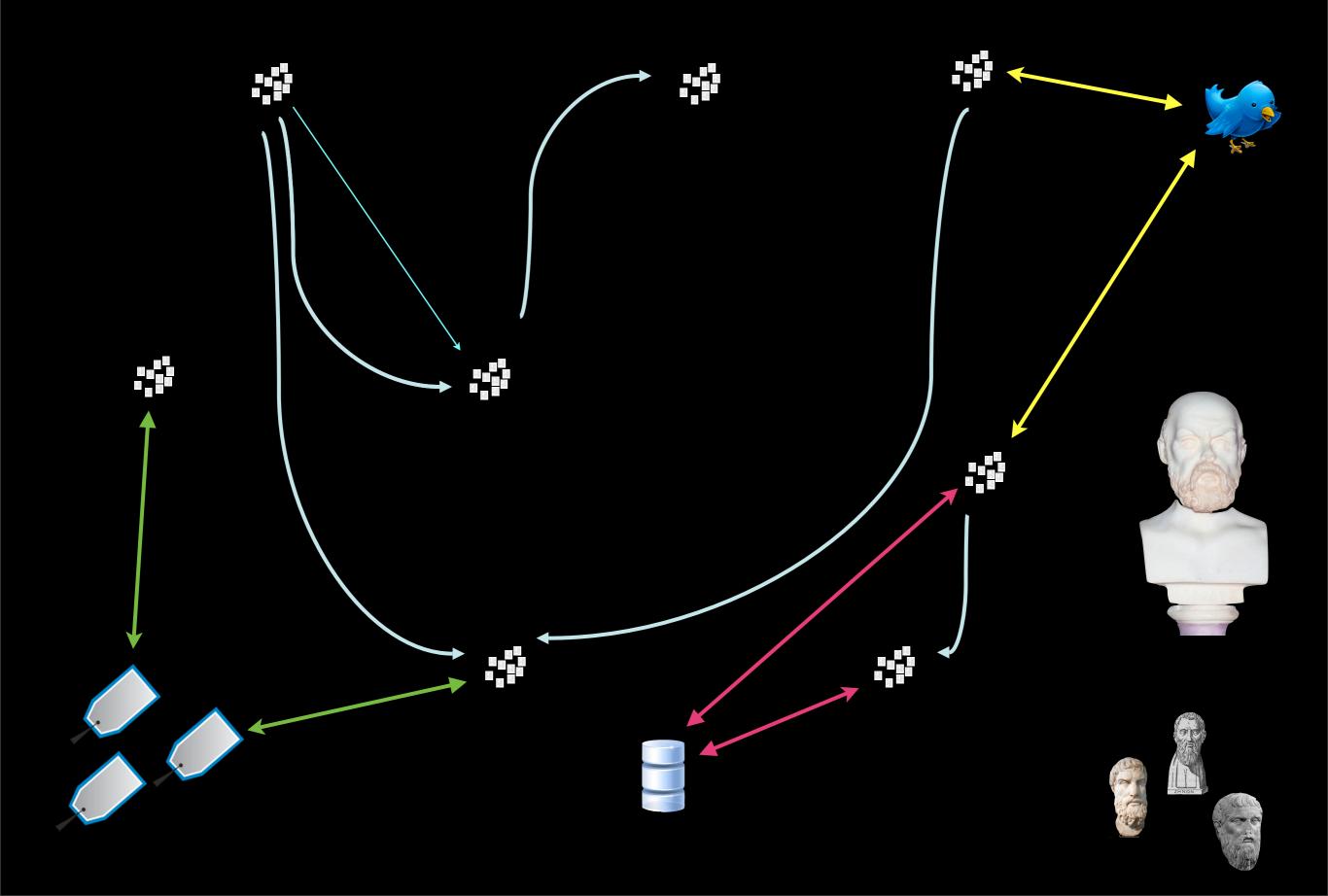


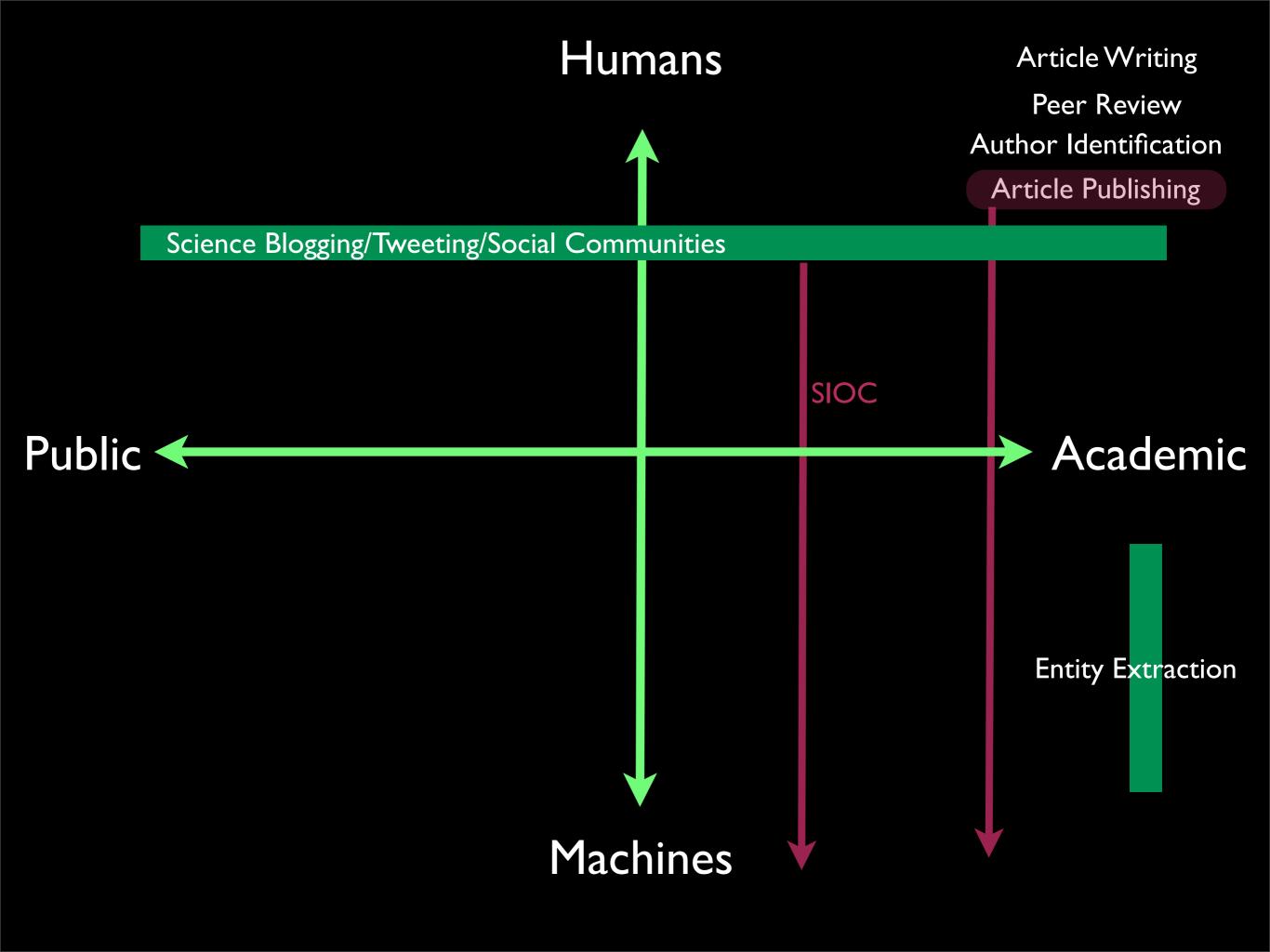
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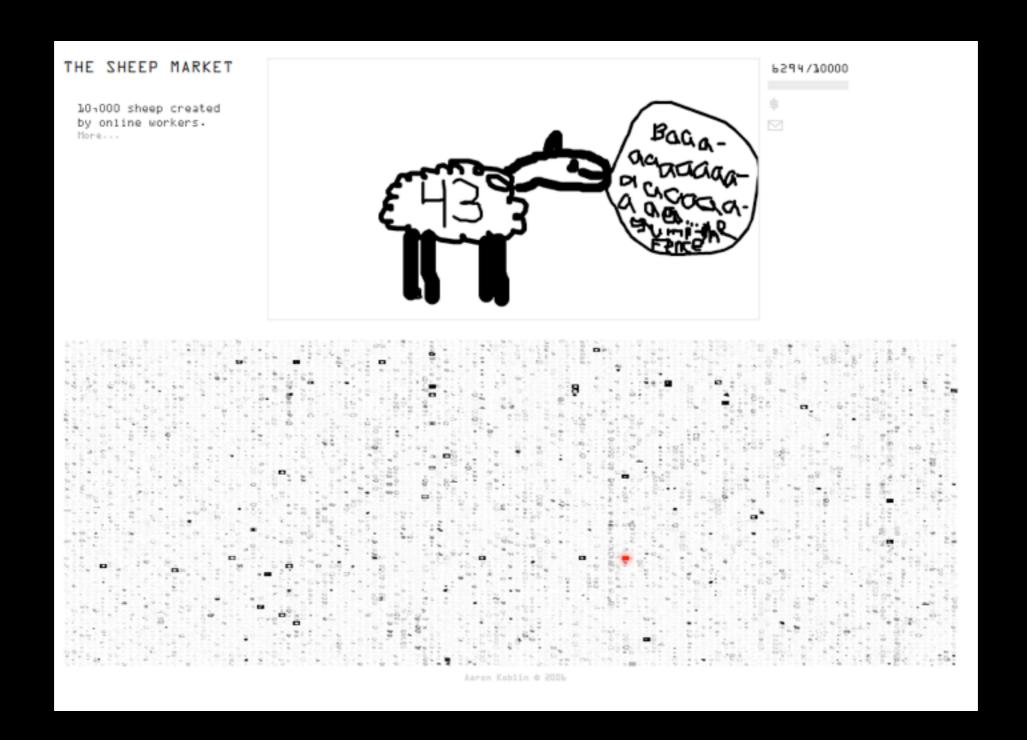


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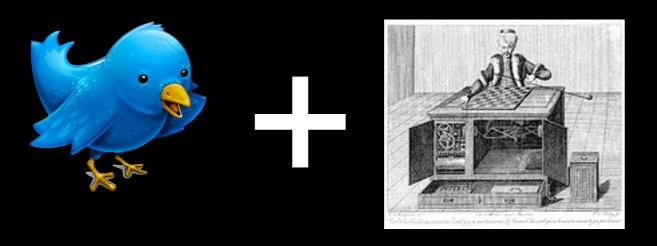
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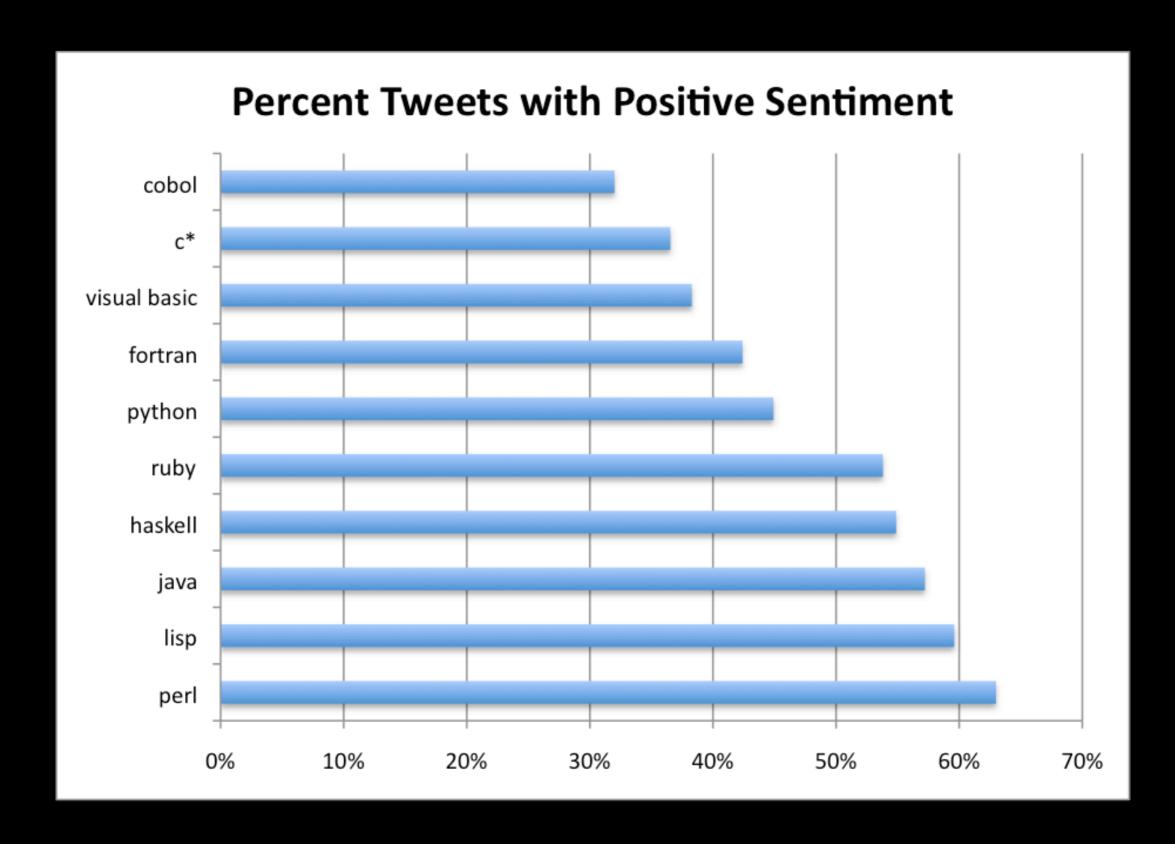
"Thinking@home"



10 000 sheep, Aaron Koblin, 2006



Cheap Sentiment Analysis



http://blog.doloreslabs.com/2009/05/the-programming-language-with-the-happiest-users/

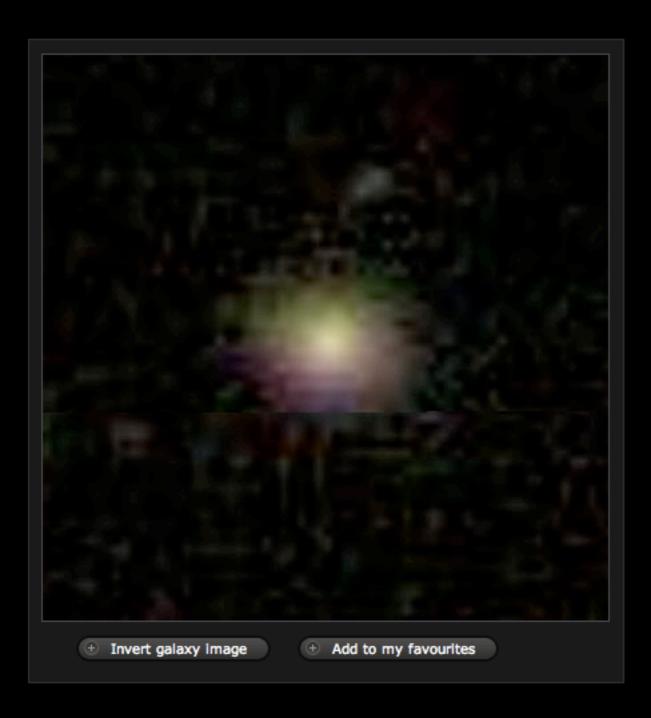
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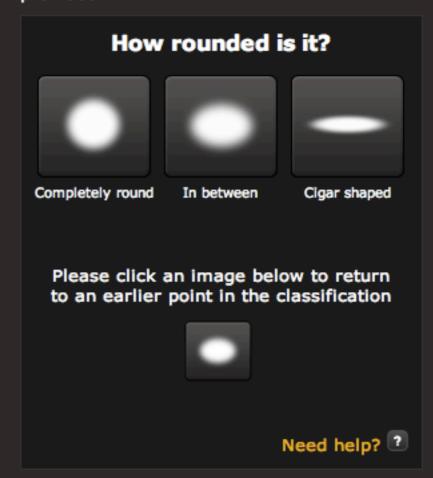
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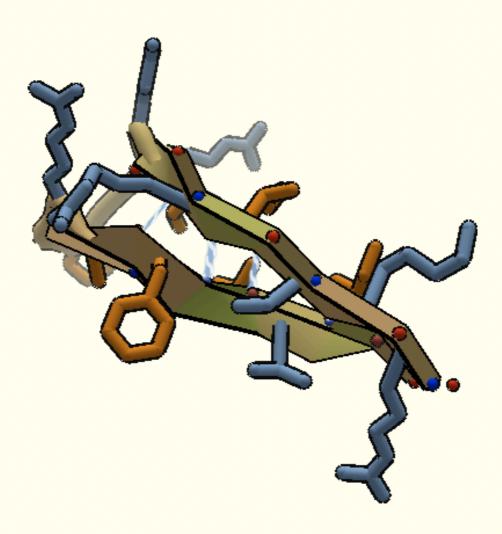
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Sheets Together



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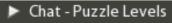


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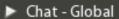
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Next Puzzle

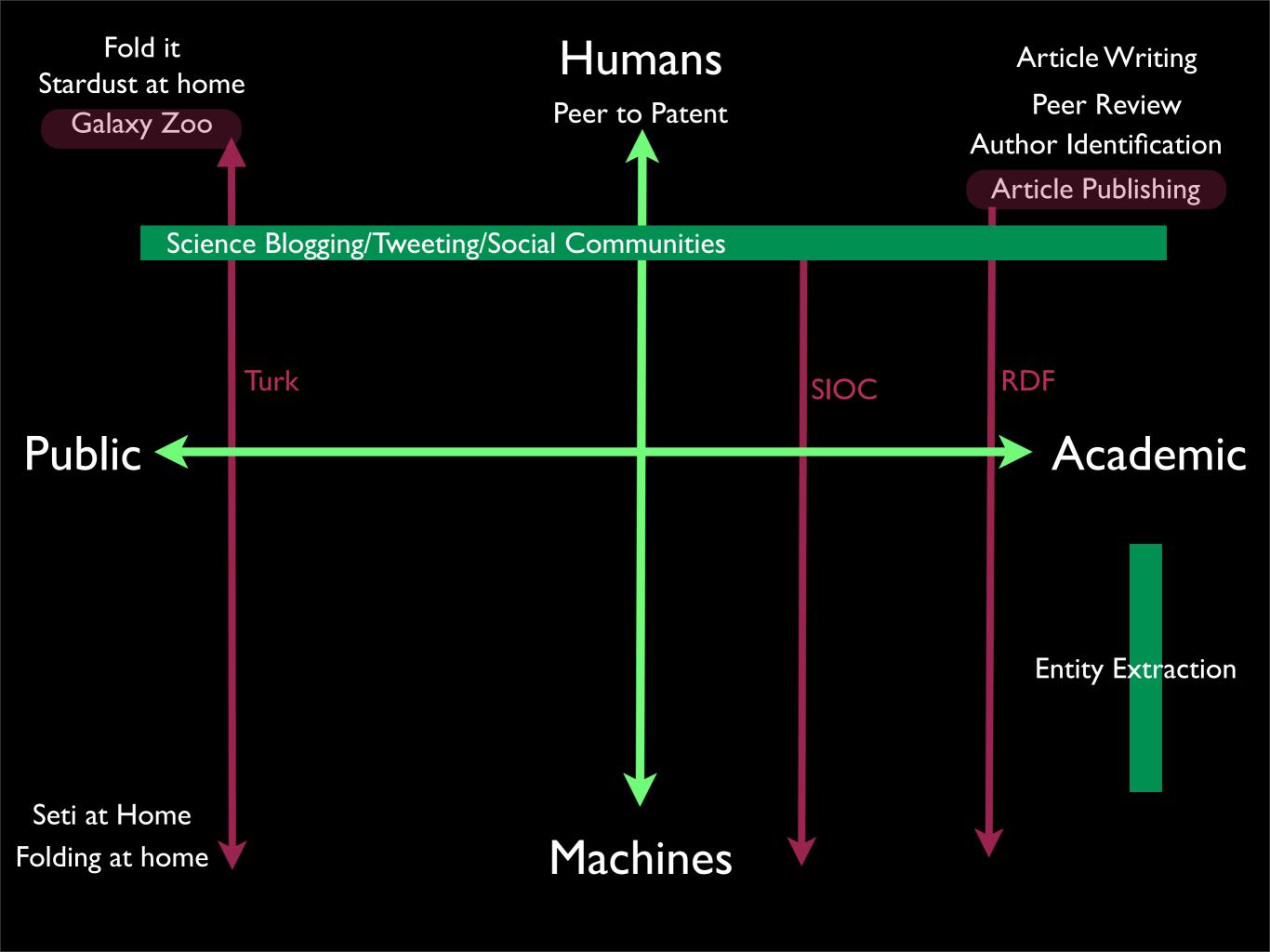


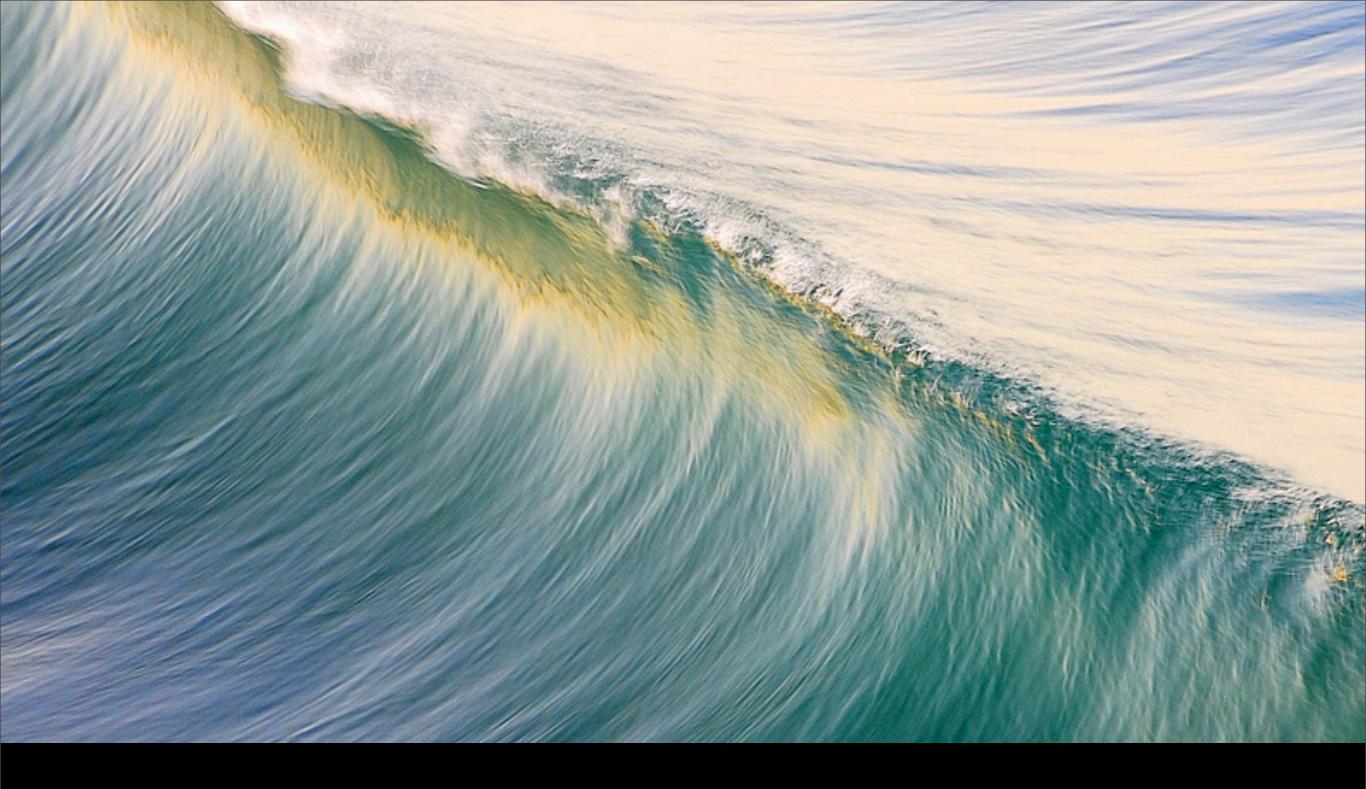








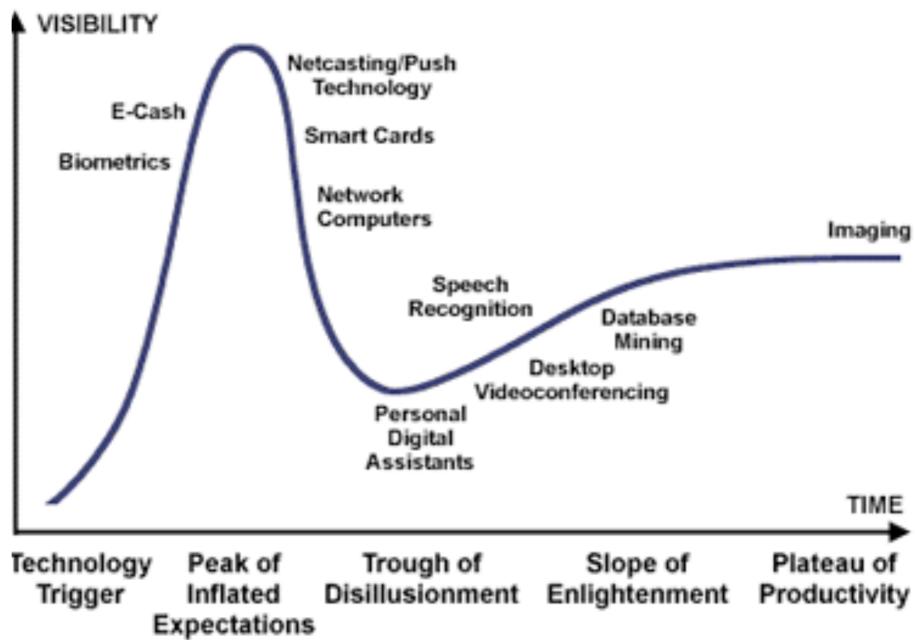




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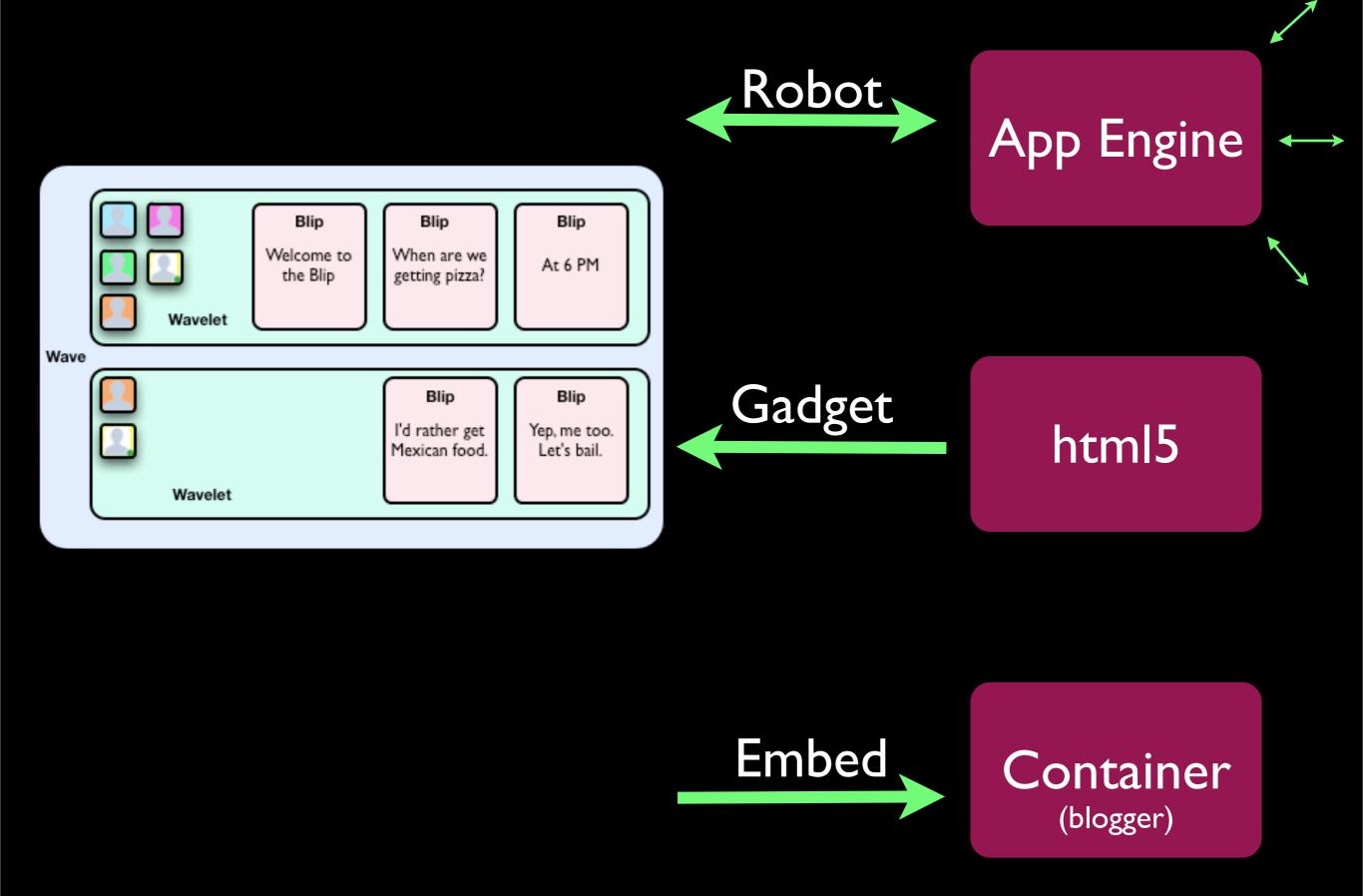
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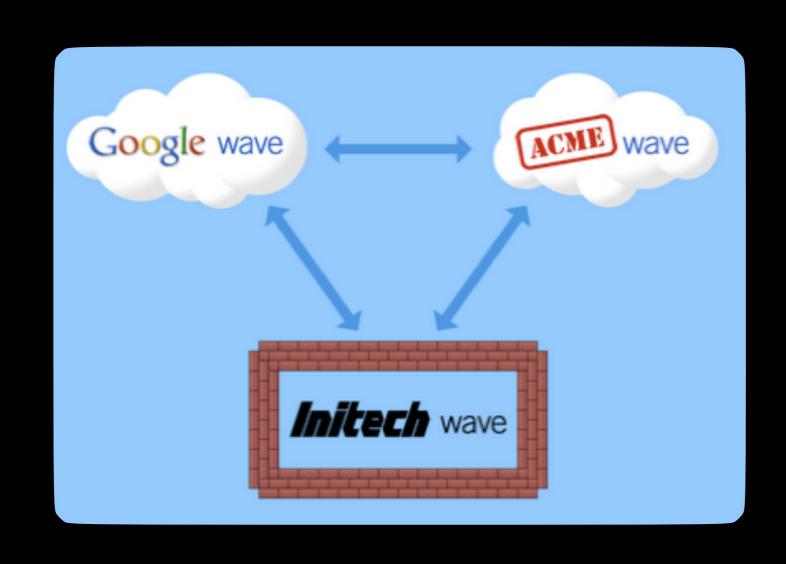
Hype Cycle of Emerging Technology



wave

Source: Gartner Group





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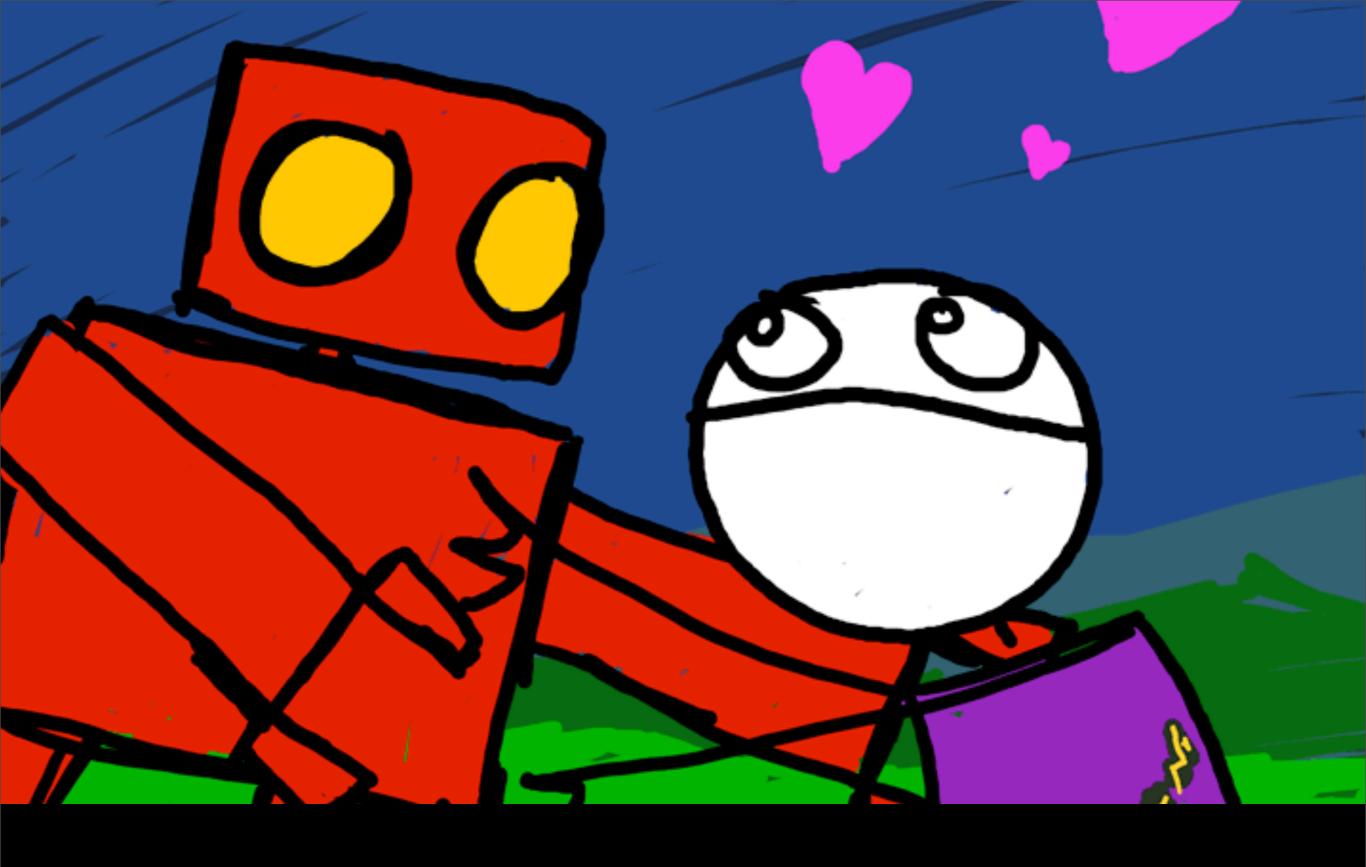


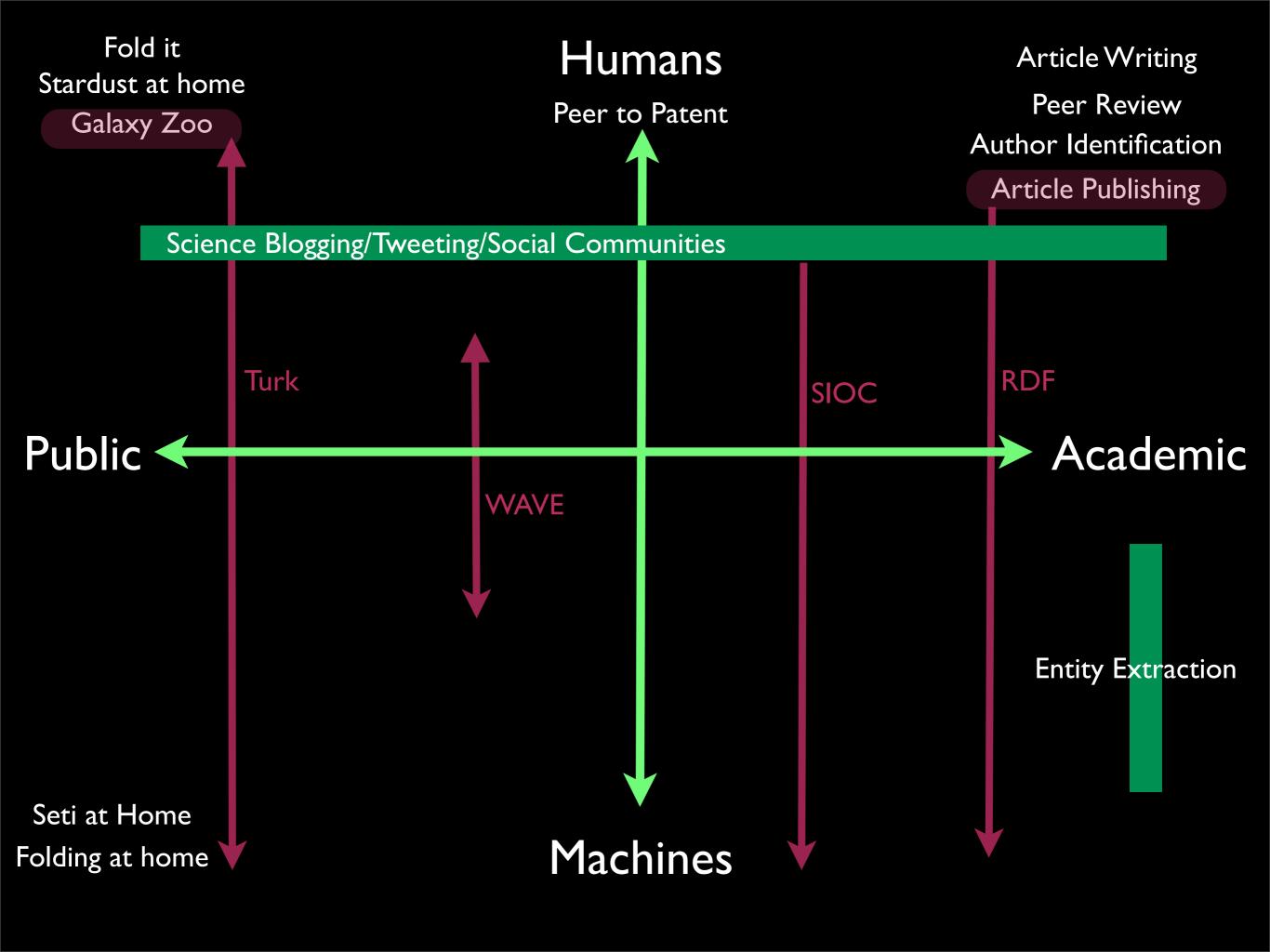
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GOD SAVE THE KING????

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from the first term is based from the cold. These direct colors for





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- http://github.com/cameronneylon/ChemSpidey/ tree/master
- http://github.com/lanMulvany/janey-robot/tree/ master



Visualisation

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Eigenfactor.org

Notice anything different?

We've been working on the interface design, read more about it on the blog.

San Francisco Crimespotting is an interactive map of crimes in San Francisco and a tool for understanding crime in cities.

If you hear sirens in your neighborhood, you should know why. Crimespotting makes this possible with interactive maps and RSS feeds of crimes in areas that you care about.

We've found ourselves frustrated by the proprietary systems and long disclaimers that ultimately limit information available to the public. As citizens we have a right to public information. A clear understanding of our environment is essential to an informed citizenry.

Instead of simply knowing where a crime took place, we would like to investigate questions like: Is there more crime this week than last week? More this month than last?

A note about map symbols

The names used here are based on Oakland's categorization of its crime statistics on the <u>CrimeWatch</u> website. We have additionally grouped them into violent crimes (red), property crimes (green), and "quality of life" crimes (blue).



Greater Manchester Congestion Charge

This is a map showing data from an online survey of people's reaction to the proposed Greater Manchester congestion charge

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London Tube Map

A map of the London Underground with geographically correct station positions taken from wikimedia.

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Dan Vickers' Output Area Classification (OAC)

Output Area Classification for England, Scotland and Wales

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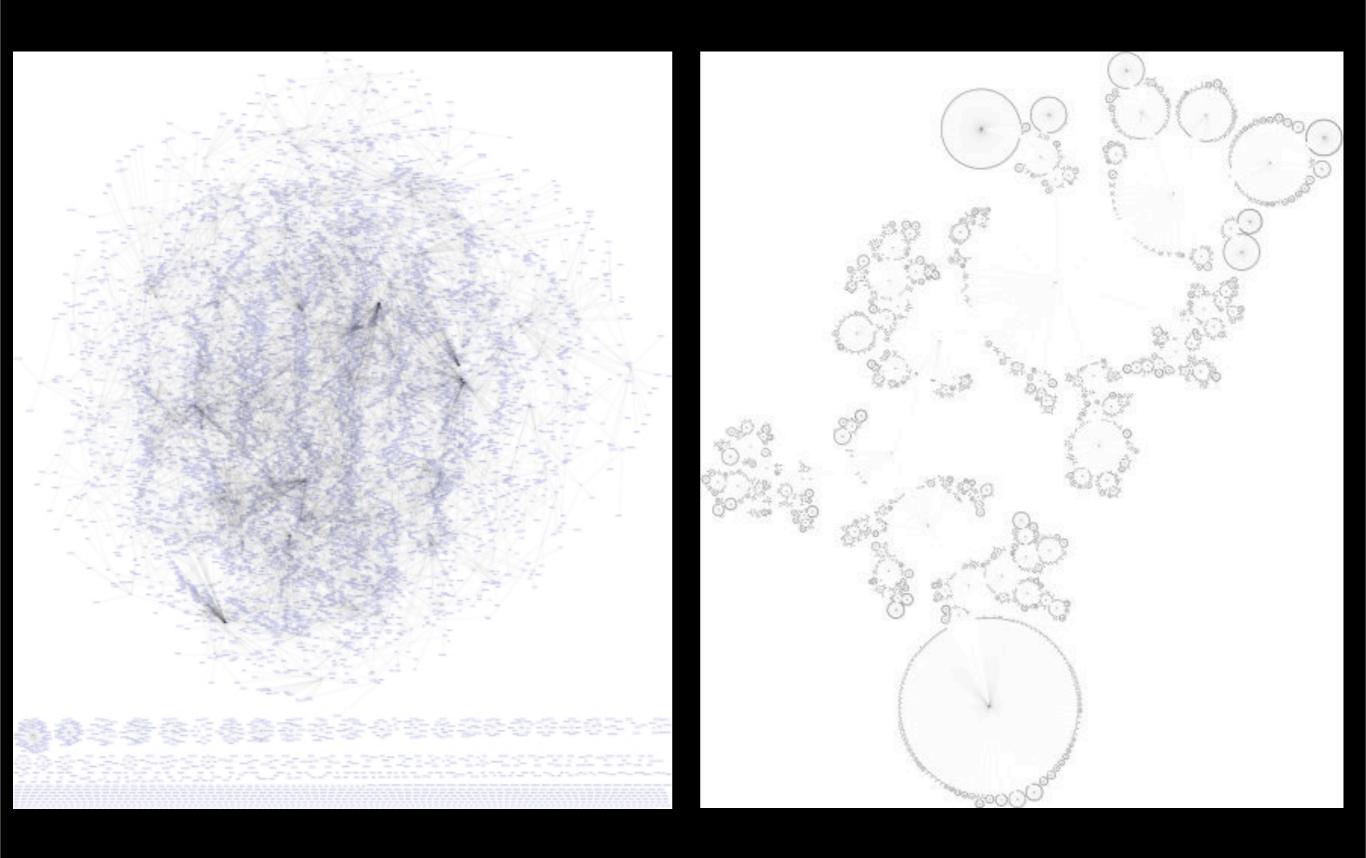


BBC Look East: Anti-social Behaviour

Mapping anti-social behaviour in the eastern counties in conjunction with BBC Look East.

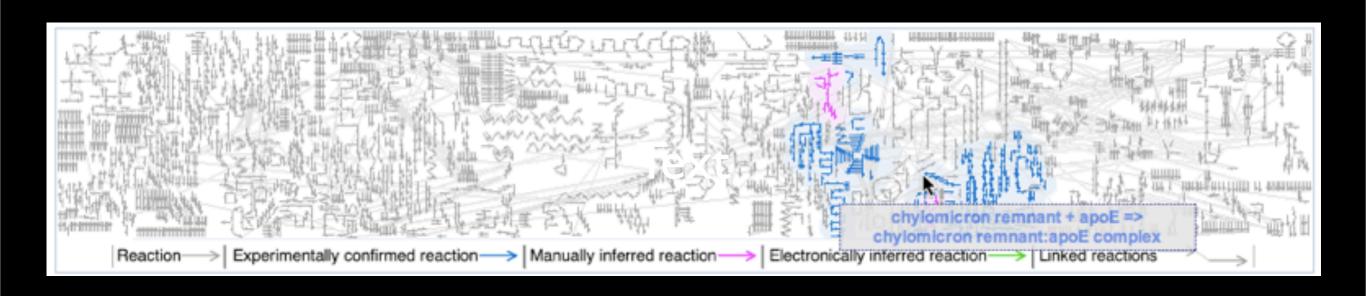
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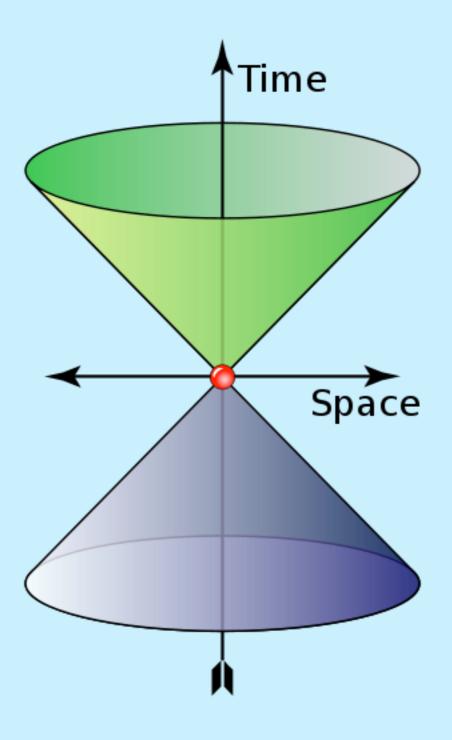


http://iphylo.blogspot.com/2009/08/mammal-tree-from-wikipedia.html

biological pathways



http://www.reactome.org/



The Future

- Publishers will continue to exist but will become communication companies
- They must learn to treat the web as a network, not a distribution channel
- Journals should be more like databases, and vice versa
- Publishing and broadcasting are merging (or colliding?); to some extent, he same goes for publishing and software
- The disruptive forces include new economics, lower barriers to entry, and a complex competitive environment



- Mobile devices as sensors e.g. noisetube.net
- Rich web applications building on HTML 5 will be a real competitor to the desktop
- The problem of scientific identity will be solved
- We will have a scientific recommendation engine that works
- Frameworks for programming genetic code, much like we now program computer code, will be available
- Computers will do much of the heavy lifting of science
- http://www.nature.com/nature/focus/arts/futures





sci foo

http://www.nature.com/scifoo/index.html

http://blogs.nature.com/wp/nascent/

http://www.connotea.org/user/lanMulvany/tag/active-ss



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Extra image Acknowledgements

- http://www.flickr.com/people/matthewfield/ Matthew Field, Lots Of People
- http://www.flickr.com/people/garthimage/ Garth Burgess, Southampton Docks
- http://13c4.wordpress.com/ Pamela Bumstead, 50 reasons not to
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- http://www.flickr.com/people/sirstick/ Alexander Hauser, new mail
- http://commons.wikimedia.org/wiki/User:CJ The Thinker
- Gavin Bell, helpful discussions about OpenID

