



storage & search

up in the clouds

History of Information

April 15, 2010



For solo artist to earn US monthly min. wage \$1,960

Service	Unit	Price	Streams/Downloads	Streams/Downloads
Self-pressed CD	\$19.98	143	143	143
CD album	\$19.98	155	155	155
retail album CD (high end royalty deal)	\$19.98	1,161	1,161	1,161
album download (iTunes)	\$19.98	1,225	1,225	1,225
MP3 download	\$19.98	1,392	1,392	1,392
MP3 download (via iTunes)	\$19.98	2,044	2,044	2,044
retail album CD (low end royalty deal)	\$19.98	3,871	3,871	3,871
amazon iTunes track download	\$19.98	12,289	12,289	12,289
Stream	\$0.0023	849,817	849,817	849,817



aob - ip

on behalf
of the artist?
informationisbeautiful.net



aob - ip

Court to hear suit over "Tea Party" name



Jane Sutton

MIAMI

Wed Apr 14, 2010 2:37pm EDT

Related News

[Republican Steele addresses spending flap](#)

Sat, Apr 10 2010

[Republican Steele addresses spending flap](#)

Sat, Apr 10 2010

[Republican firebrand Palin takes on Obama on energy](#)

Fri, Apr 9 2010

[Lawmaker Stupak will not seek re-election](#)

Fri, Apr 9 2010

[UPDATE 2-U.S. lawmaker Stupak will not seek re-election](#)

Fri, Apr 9 2010

(Reuters) - A U.S. judge has agreed to referee a dispute among Florida political activists over who can use the phrase "Tea Party" in their name.

ODDLY ENOUGH

A trial has been scheduled to begin on December 6 in U.S. District Court in West Palm Beach, Florida, in a lawsuit that questions whether anyone has a trademark or intellectual property right to the "Tea Party" name.



where we left off

LYCOS

1988, WAIS


altavista™

1990, Archie

1992, Veronica (Gopher)



1994, Lycos

Ask Jeeves®



1995, Alta Vista, Yahoo

1996, Inktomi

1997, Ask Jeeves



where we are going





looking back or forward?

perennial issues?





looking back or forward?

perennial issues?

too little or too much information?





looking back or forward?

perennial issues?

too little or too much information?

information wants to be free?





looking back or forward?

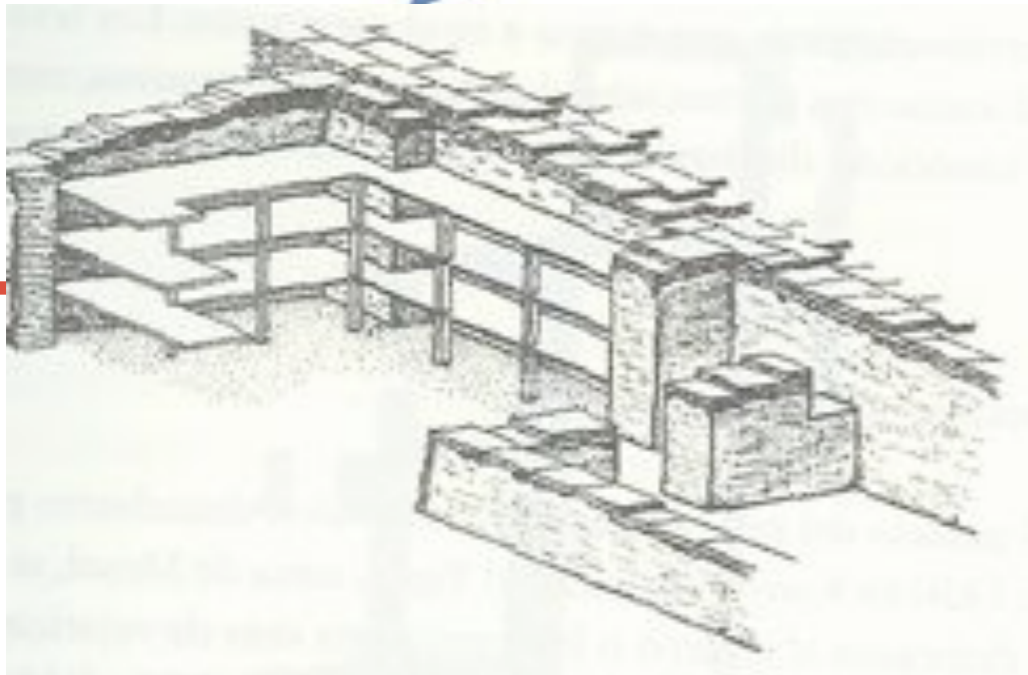
perennial issues?

too little or too much information?

information wants to be free?

information wants to be constrained?





stored writings

Ebla (Syria) c 2250 bce

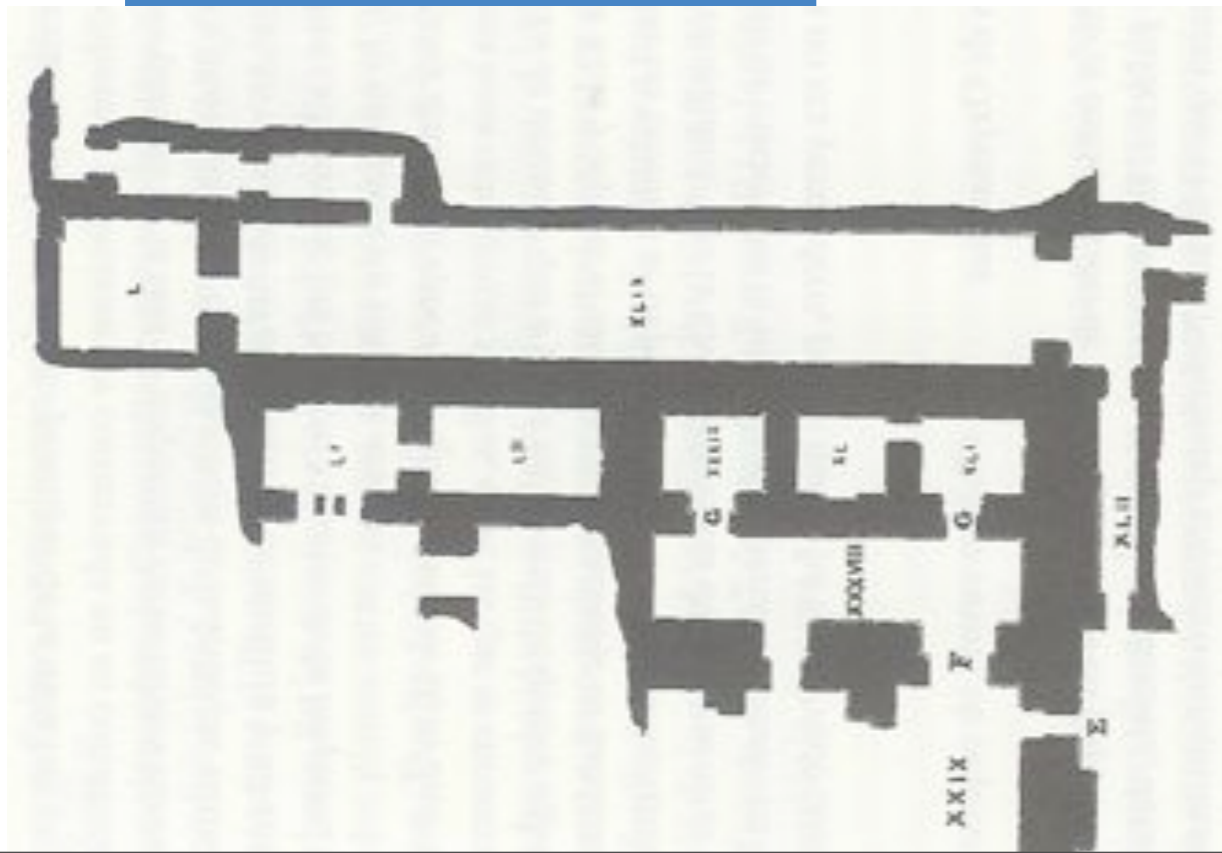
Babylon (Iraq) 15,000 tablets

Nineveh (Iraq) c. 650 bce

what was stored?

Ebla: accounts, lists, etc.

Nineveh: *Gilgamesh*





pressed in clay?

He came a far road, was weary,

found peace,

information &

and set all his labours on tablets

of stone

supports

...

material

See the tablet box of cedar,

institutional

Release its clasp of bronze

Lift the lid of its secret

Pick up the tablet of lapis lazuli

and read out

the travails of Gilgamesh,

all that he went through

--Gilgamesh, 3000 bce

[trans Andrew George]



new technologies

Lyceum [Greece]
(Aristotle)

Pergamum
[Turkey]
(c 197 bce)
200,000 scrolls
parchment

Alexandria
430,000 volumes
papyrus





to print & paper

overload?
972-83: *Tripitaka*,
5,048 volumes





frailty

memory to written record

questions of durability

1145, Roger of **Sicily** ordered all charters on paper to be copied to parchment then destroyed

1248, paper accepted for use by the notaries of Languedoc (**France**)

"The written word on parchment will last a thousand years. The printed word is on paper. How long will it last? The most you can expect of a book of paper to survive is two hundred years. Only time will tell."

abundance & order

Alexandrian strategies

Zenodotus

alphabetical ordering

Callimachus

subject categories

Aristophanes & Aristarchus

scholarly versions
editorial commentary

in print

Conrad Gessner

Bibliotheca Universalis [Latin, Greek, Hebrew]





free & constrained



(1) Numb. 1.
**PHILOSOPHICAL
TRANSACTIONS.**

Munday, March 6. 1667.

The Contents.

An Introduction to this Treatise. An Account of the Improvement of Optick Glasses at Rome. Of the Observation made in England, of a Spot in one of the Belts of the Planet Jupiter. Of the motion of the late Comet predicted. The Heads of many New Observations and Experiments, in order to an Experimental History of Cold; together with some Thermometrical Discourses and Experiments. A Relation of a very odd Monstrous Calf. Of a peculiar Lead-Ore in Germany, very useful for Essays. Of an Hungarian Bolus, of the same effect with the Bolus Armenus. Of the New American Whale-fishing about the Bermudas. A Narrative concerning the success of the Pendulum-watches at Sea for the Longitudes; and the Grant of a Patent thereupon. A Catalogue of the Philosophical Books published by Monsieur de Fermat, Counsellour at Tholouse, lately dead.





free & constrained



Numb. 364.
Beginning the Thirty first Volume.
**PHILOSOPHICAL
TRANSACTIONS.**
For the Months of January, Feb. March and April. 1722.

The CONTENTS.

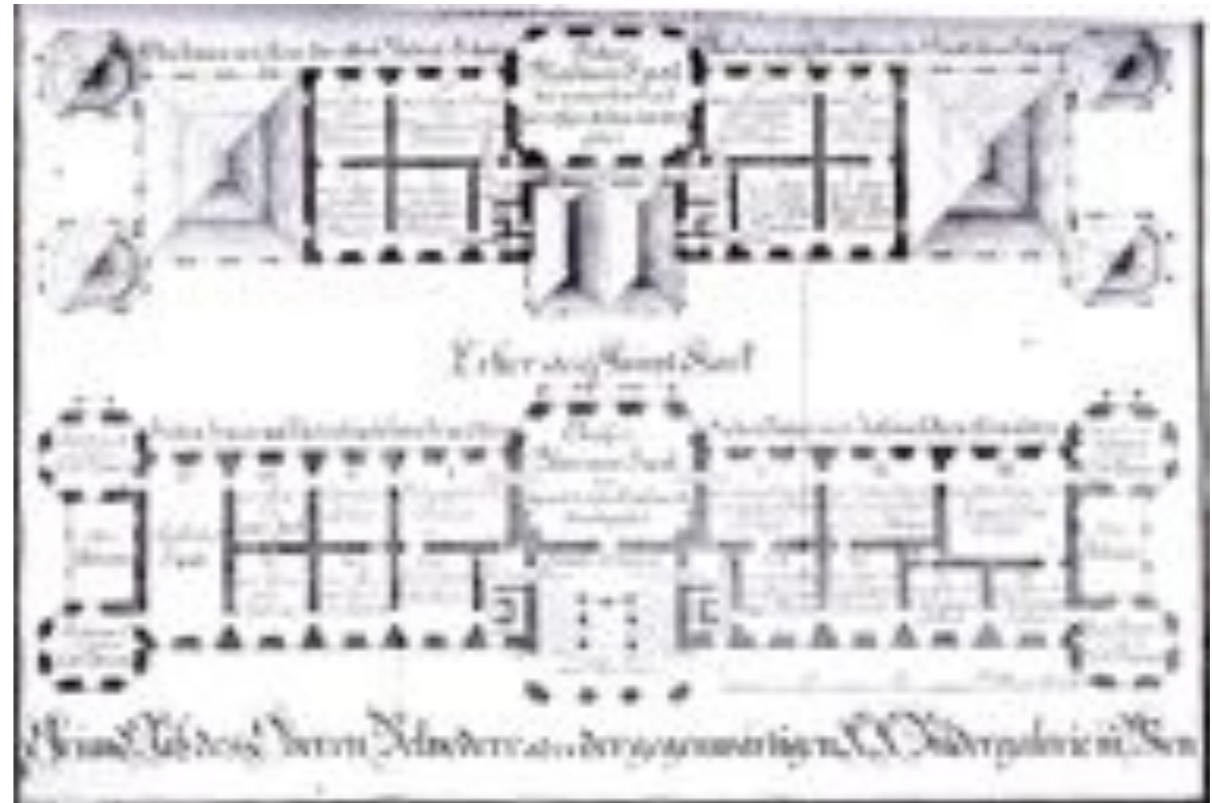
- I. *Some Remarks on a late Essay of Mr. Cassini, wherein he proposes to find, by Observation, the Parallax and Magnitude of Sirius.* By Edmund Halley, L. L. D. Astron. Reg. Geom. Prof. Savil. & R. S. S.
- II. *An Account of the External Maxilla, and other Salivary Glands: Also of the Infections of all the Lymphaticks (as well above as below the Subclavian) into the Pituit; which Glands and Infections have not hitherto been mentioned, or not truly described by any Authors.* By Richard Hale, M. D. Reg. Soc. & Col. Med. Lond. Soc.
- III. *De Peste Constantinopoli grassante. Auctore auctore V. Cl. Emanuele Timococ. M. D. Hoc scriptum ab Auctore Clarissimo, qui Constantinopoli per multos annos Medicinam fecerat, Excellentissimo Abbate Britannico, Roberto Sutton, Eq. Aurato, traditum, ejusdem Equitis permissa, cum Societate Regia communicavit idem R. Hale, M. D.*
- IV. *An Account of a Luminous Appearance in the Air, seen at Dublin on January the 12th, 1722.* By Philip Percival, Esq; Brother to the Right Honourable the Lord Percival, F. R. S. and communicated by his Lordship to the Royal Society.

V. 07





serendipity & organization





encircling

Smirke, British
Museum Reading
Room, 1851



Pelz/Casey Reading Room,
LOC, ca 1898



Labrouste, Bibliothèque
Nationale 1868



Asplund, Stockholm City
Library, 1928



Edward Gibbon
1737-1794

more organization





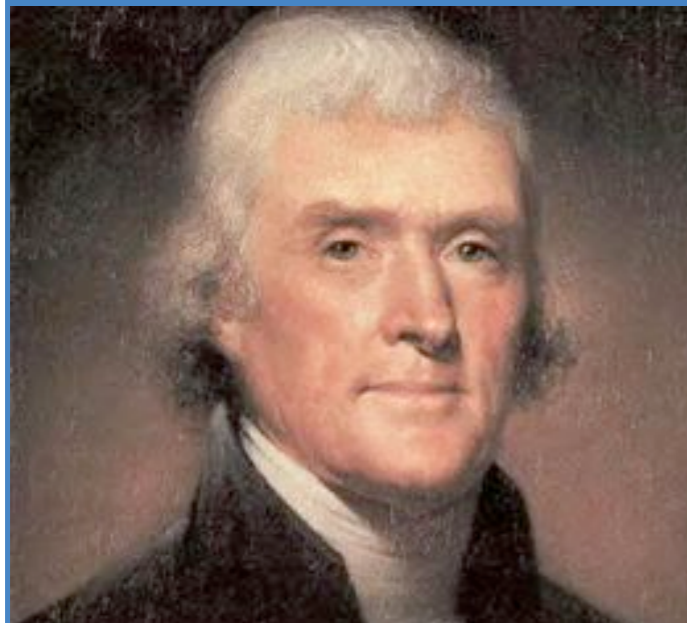
Melvil Dewey
1851-1931

ordering

Dewey Decimal

Library of Congress

Thomas Jefferson -- Denis Diderot -- Francis Bacon



Thomas Jefferson
1743-1826





recording & secrecy

6

[**Rep. No. 753.**]

ment, irrespective of the time of day or night, or state of the weather. This single point establishes its superiority to all other modes of telegraphic communication now known.

Third. The whole apparatus will occupy but *little space*, (scarcely six cubic feet, probably not more than four ;) and it may therefore be placed, without inconvenience, in any house.

Fourth. The record of intelligence is made in a permanent manner, and in such a form that it can be at once bound up in volumes convenient for reference, if desired.

Fifth. Communications are secret to all but the persons for whom they are intended.

These are the chief advantages of the electro-magnetic telegraph over other kinds of telegraphs, and which must give it the preference, provided the expense and other circumstances are reasonably favorable.

The newness of the whole plan makes it not so easy to estimate the expense, but an approach to a correct estimate can be made.



"The camera hound"

photography

film of the book

Notes & Queries, 1854, 1855

Photography applied to Catalogues of Books.— May not photography be usefully applied to the making of catalogues of large libraries? It would seem no difficult matter to obtain any number of photographs, of any required size, of the title-page of any book. Suppose the plan adopted, that five photographs of each were taken; they may be arranged in five catalogues, as follows:—Era, subject, country, author, title. These being arranged alphabetically, would form five catalogues of a library probably sufficient to meet the wants of all. Any number of additional divisions may be added. By adopting a fixed breadth—say three inches—for the photographs, to be pasted in double columns in folio, interchanges may take place of those unerring slips, and thus librarians aid each other. I throw out this crude idea, in the hope that photographers and librarians may combine to carry it out. ALBERT BLON, LL.D.

Dublin.

Photographic Copies of Ancient Manuscripts.— Might not photography be well employed in making facsimiles of valuable, rare, and especially of unique ancient manuscripts? If copies of such manuscripts could be multiplied at a moderate price, there are many proprietors of libraries who would be glad to enrich them by what, for all purposes of reference, would answer equally well with the originals. A.

[This subject, which has already been touched upon in our columns, has not yet received the attention it deserves. We have now before us a photographic copy of a folio page of a MS. of the fourteenth or fifteenth century, on which are inscribed a number of charters; and, although the copy is reduced so as to be but about 2 inches high and 1½ broad, it is perfectly



19th century public sphere

the penny press

&

the "paper of record"
"all the news that's fit to print"





organizing

An act concerning...

1. public archive
2. state printer
3. pilots for SF
4. comptroller
5. treasurer
6. sec. of state
8. translator
11. AG
14. Supreme Court
30. incorporation of cities
36. commissioner of deeds
41. notaries
49. lawful fences
48. incorporation of towns
53. weights & measures
55. limited partners
59. recorder's office
64. officers of health
67. surveyors
69. librarian
72. register of wills
89. marks & brands
90. reporter
93. conveyances
95. common law
117. incorp. of colleges
123. assayer

Statutes of California, 1849-50



old problem new technology



Vannevar Bush (1890-1974)

"There is a growing mountain of research. But there is increased evidence that we are being bogged down today as specialization extends. ... A record if it is to be useful to science, must be continuously extended, it must be stored, and above all it must be consulted"
--As we may think, 1945

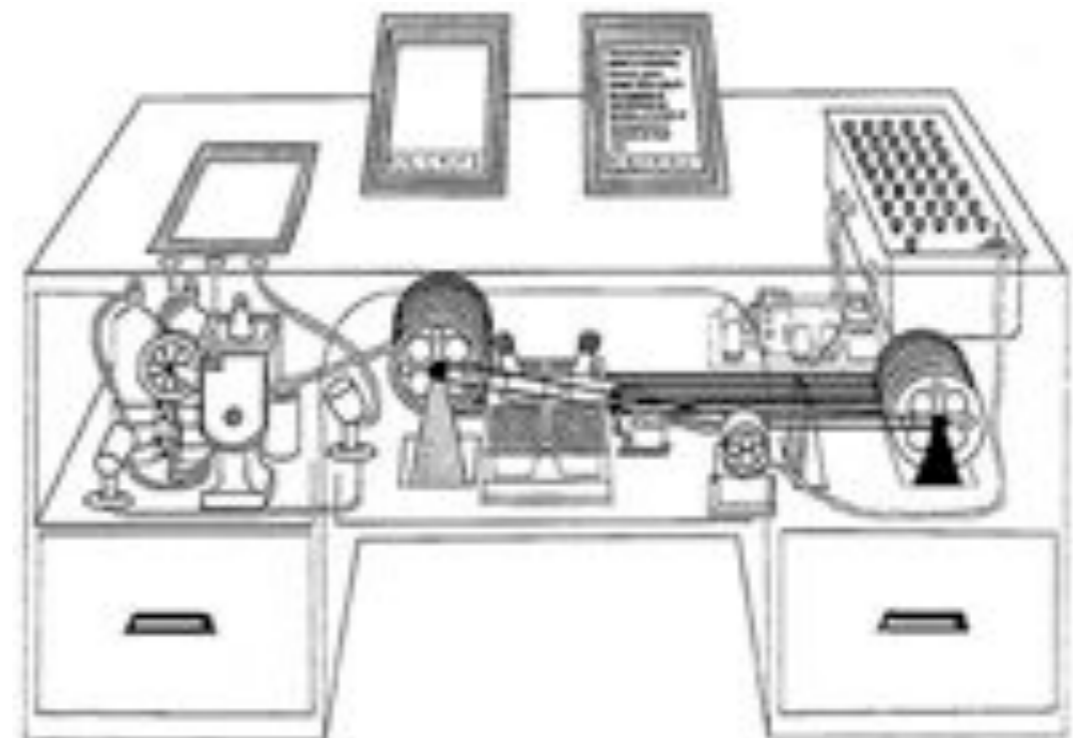




memex

looking ahead

A memex is a device in which an individual stores all his books, records and communications ... mechanized ... associative indexing ... his trails do not fade





& the vocoder

Hi, Robot

The history of the vocoder, cryptography's top-secret funk machine.

By Sam Anderson Published Apr 4, 2010

1 Comment | Add Yours





ordering "the record"

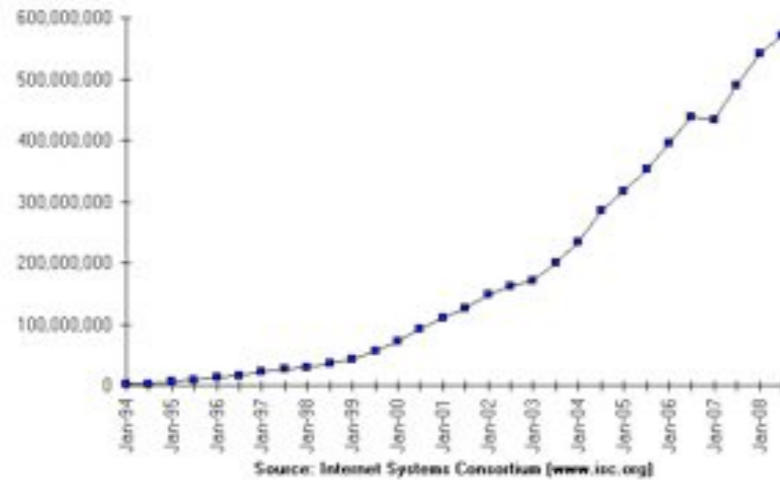
"Our ineptitude in getting at the record is largely caused by the artificiality of systems of indexing

"The applications of science have built man a well-supplied house, and are teaching him to live healthily therein. ... They may yet allow him truly to encompass
the great record."



solving or creating problems?

Internet Domain Survey Host Count



1993, NCSA Mosaic
Mark Andressen

CERN releases W3 technology

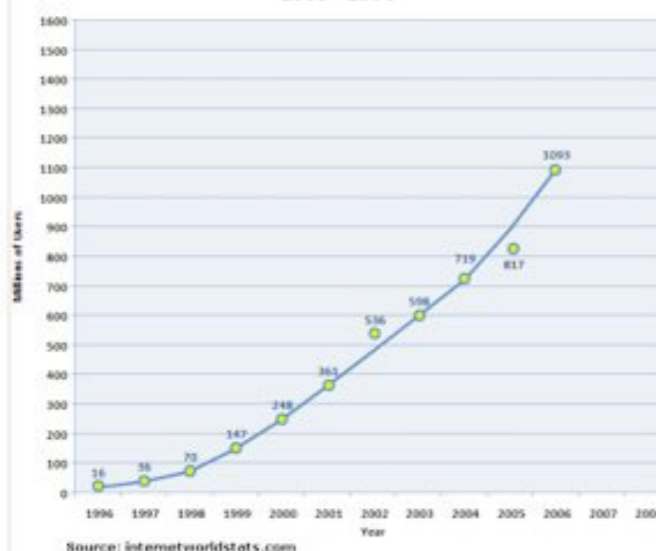
1994, 200+ HTTP servers; traffic up x
1,000

1994, Netscape

1995, Internet Explorer

2009, Google Chrome

Internet Usage Growth
1995 - 2006





old problem, new tools?

"the web is a
global library
produced by
millions of
people"

--Yochai Benkler

"the Internet
... is a library"
--Frances
Cairncross

1988, WAIS

1990, Archie

1992, Veronica (Gopher)

1994, Lycos

1995, Alta Vista, Yahoo

1996, Inktomi

1997, Ask Jeeves



real change?

YAHOO!

Google™



real change?

YAHOO!

yet another hierarchical officious oracle

Google™



changing ideas of organization?

"to organize the world's information"





whose organization?

"Up until now most search engine development has gone on at companies with little publication of technical details. This causes search engine technology to remain largely a black art and to be advertising oriented (see Appendix A). .. we have a strong goal to push more development and understanding into the academic realm."



appendix a

For example, in our prototype search engine one of the top results for cellular phone is "The Effect of Cellular Phone Use Upon Driver Attention", a study which explains in great detail the distractions and risk associated with conversing on a cell phone while driving. This search result came up first because of its high importance as judged by the PageRank algorithm, an approximation of citation importance on the web [Page, 98]. **It is clear that a search engine which was taking money for showing cellular phone ads would have difficulty justifying the page that our system returned to its paying advertisers.** For this type of reason and historical experience with other media [Bagdikian 83], **we expect that advertising funded search engines will be inherently biased towards the advertisers and away from the needs of the consumers.**

AT&T™ Official Site

Free AT&T Cell Phones Online Now. Share Minutes with Family & Save!

Show map of all.com locations near Berkeley, CA

Cellular Phone Company

Smartphones On Sale Now. Free shipping with online orders!

Free Cell Phones & Plans

Free Phones with a 2 Year Plan. Authorized Dealer of All Carriers!

Sponsored Links

Sponsored Links

Sprint™ Official Site

Unlimited Calls in San Francisco & Nationwide. Simply Everything.

www.Sprint.com 5739 Christie Avenue Powell St. Plaza

NET100 Official Site

Buy a Cell Phone w/ No Contracts, No Monthly Bills or Credit Checks.

NET10.com

A Phone for Ins. Agents

File Claims Instantly & Securely. Close Cases Faster For Only \$149.

www.Touch-Pro2.com

Buy Cell Phones

The Leading Site for Phones & Plans AT&T, Verizon, Sprint, T-Mobile

www.Wirefly.com

TracFone® Official Site

No Contracts. 2K Minutes for Life! Samsung T301 Slider - Free Shipping

TracFone.com

AT&T Cell Phone Deal

Get Up To 2 Free Phones From AT&T With Plan. Buy Online + Free S&H!

www.ATTOnlineOffers.com

Cheap Cell Phones

100,000 Stores. Deals. Reviews. Cheap Cell Phones & More!

shopping.yahoo.com

We Buy Used Cell Phones

Cash for Used/Broken Electronics Get a Quote Now! Easy & Eco-Friendly

www.BuyMyTronics.com

Showing results for cellular phone. Search instead for ceullular phone

Mobile phone - Wikipedia, the free encyclopedia

Jump to: Android cellular technology (10) In a cellular system, a signal between a base station (cell site) and a terminal (phone) only need be strong ...

History - Uses - Handsets - Privacy

en.wikipedia.org/wiki/Mobile_phone - Cached - Similar

Cell Phones for free with Cell Phone Plans from AT&T, Sprint, T...

Save \$100's over buying in stores or direct from carriers. Same cell phones, same service plans, much lower prices. Full carrier store support after ...

www.klstatalk.com/ - Cached - Similar

Shopping results for cellular phone



LG KS300 Cell phone 15 MB - shared - No

★★★★☆ (583) \$120 new 208 stores



Sony Ericsson W225 walkman Cell phone 118

★★★★★ (184) \$365 new 72 stores



Nokia 5320 XpressMusic Cell phone 5 MB -

★★★★☆ (386) \$88 new 77 stores



LG Cookie KP500 Cell phone 48 MB - shared - No

★★★★☆ (924) \$80 new 250 stores



Motorola RAZR V3 Cell phone 5 MB - Not specified -

★★★★☆ (4332) \$80 new 129 stores

News results for cellular phone



mind your own business?

search?

advertising?

precedents

`"We lose money on our circulation by itself considered but
with 20,000 subscribers we can command such Advertising and
such prices for it as will render our enterprise a
remunerating one."`



Horace Greeley
1811 - 1872



new solutions, new problems?

goodhart again?

DRILLING DOWN

Kicking Cash to Nefarious Clickers

By ALEX MCELIN

Published: April 11, 2010

The click fraud rate in the first quarter of 2010 was one of the highest on record, according to [Click Forensics](#), a firm that analyzes traffic on behalf of advertisers and ad networks. The rate was even higher than the previous quarter's, which was unusual since the holiday shopping period, with its high ad rates, is usually the peak season for click fraud.

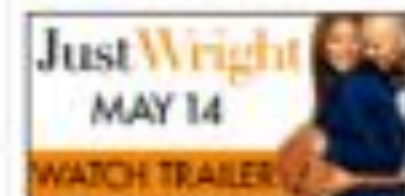
17.4%
Click fraud rate
in Q1 2010

15.3%
Click fraud rate
in Q4 2009

Web sites practice click fraud by showing ads, soliciting fraudulent clicks on those ads, receiving payments from advertisers for the clicks, and then kicking some money back to the clickers. Paul Pellman, the chief executive of Click Forensics, attributed the rising fraud rate to the emergence of sophisticated, widely distributed schemes wherein millions of hijacked personal computers, harnessed together into "botnets," are used to fraudulently click on ads across thousands of Web sites.

Each computer is used only a few times and each ad is clicked infrequently, so the scheme is hard to detect. "The clicks are coming from many millions of LP. addresses," Mr. Pellman said. "It's low frequency from that standpoint, and also low frequency on each site, so it can look like valid traffic."

- SIGN IN TO RECOMMEND
- TWITTER
- E-MAIL
- SEND TO PHONE
- PRINT
- REPRINTS
- SHARE





favoritism?

whose interest

Using site speed in web search ranking

Friday, April 09, 2010 at 11:00 AM

Webmaster Level: All

You may have heard that here at Google we're obsessed with speed, in [our products](#) and [on the web](#). As part of that effort, today we're including a new signal in our search ranking algorithms: site speed. Site speed reflects how quickly a website responds to web requests.

Speeding up websites is important — not just to site owners, but to all internet users. Faster sites create happy users and we've seen in our [internal studies](#) that when a site responds slowly, visitors spend less time there. But faster sites don't just improve user experience; recent data shows that improving site speed also [reduces operating costs](#). Like us, our users place a lot of value in speed — that's why we've decided to take site speed into account in our search rankings. We use a variety of sources to determine the speed of a site relative to other sites.

If you are a site owner, webmaster or a web author, here are some free tools that you can use to evaluate the speed of your site:

- [Page Speed](#), an open source Firefox/Firebug add-on that evaluates the performance of web pages and gives suggestions for improvement.
- [YSlow](#), a free tool from Yahoo! that suggests ways to improve website speed.
- [WebPageTest](#) shows a waterfall view of your pages' load performance plus an optimization checklist.
- In [Webmaster Tools](#), Labs > Site Performance shows the speed of your website as experienced by users around the world as in the chart below. We've also blogged about [site performance](#).



rank or ranking?

Bringing a Smarter Search to Twitter, With Fees

By TODD WOODY
Published: April 11, 2010

SAN FRANCISCO — Bill Gross, the serial entrepreneur who pioneered search advertising, is unveiling a venture on Monday that aims to make money by allowing people using [Twitter](#) to bid on key words to give their posts top ranking.

 [Enlarge This Image](#)



J. Emily Flores for The New York Times

"Finding the thoughtful tweets amid all the noise is unbelievably hard," Bill Gross says.

Called TweetUp, the service will also organize the posts according to their popularity as measured by how often readers repost them and click on links they contain.


Mr. Gross said he had signed deals with other outside Twitter services like Seesmic, TwitterFeed and Twidroid to display TweetUp's rankings. A TweetUp search bar will appear on Web sites like [Answers.com](#) and [BusinessInsider.com](#). TweetUp will split revenue evenly with each partner, he said.

The goal is to cut through the clutter of thousands of irrelevant posts on topics of interest and keep the useful ones from disappearing into a torrent of messages.

SIGN IN TO RECOMMEND

 TWITTER

 E-MAIL

 SEND TO PHONE

 PRINT

 REPRINTS

 SHARE

CYRUS
JULY 9

Related

Tensions Rise for Twitter and App Developers



and who is searching for what?

and should we worry?

"You have zero privacy.... Get over it!"

Scott McNealy, Sun Microsystems

"If you have something you don't want
anyone to know, maybe you shouldn't be
doing it in the first place."

Eric Schmidt, Google





paranoia or trustanoia

"shock"

"scary"

"benefits outweigh"

"I will pay attention"

"less worrying than facebook"

"google is throwing away its money"

"how difficult it was to escape the
grasp of Google"



some thoughts

Robert Ang

Jody Leung

Kasey Chiu, Anne Sokolich

Holly Fine

Apin Sicoravit

Marco Santo Danesi

Daniel Wang

Justin Riddle



Robert Ang

Google

Web [Show options...](#)

[Benediction - Wikipedia, the free encyclopedia](#)

A **benediction** (Latin: bene, well + dicere, to speak) is a short invocation for divine help, blessing and guidance, usually at the end of worship service. ...

[Judaism - Christianity - References in popular culture - See also](#)
[en.wikipedia.org/wiki/Benediction](#) - [Cached](#) - [Similar](#)

[Benediction - Item - World of Warcraft](#)

Benediction - Item - World of Warcraft. Sign in[Feedback]Language ▼ ... Balance of Light and Shadow Call **Benediction** Anathema Drape of **Benediction** Gilded ...
[www.wowhead.com/?item=18608](#) - [Cached](#) - [Similar](#)

[Benediction - Item - World of Warcraft](#)

Benediction - Item - World of Warcraft ... Balance of Light and Shadow Call **Benediction** Anathema Drape of **Benediction** Gilded Trousers of **Benediction** ...
[www.wowhead.com/?item=18608](#), - [Cached](#)

[Show more results from www.wowhead.com](#)

[BENEDICTION on MySpace Music - Free Streaming MP3s, Pictures ...](#)

MySpace Music profile for **BENEDICTION**. Download **BENEDICTION** Death Metal / Thr Punk music singles, watch music videos, listen to free streaming mp3s, ...
[www.myspace.com/benedictionuk](#) - 5 hours ago - [Cached](#) - [Similar](#)

[Benedictions and Blessings](#)

Artful ways to say goodbye: Blessings and **Benedictions**.
[Benedictions - Aarabic Benediction - Irish Blessings](#)

Google

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A **benediction** (Latin: bene, well + dicere, to speak) is a short invocation for divine help, blessing and guidance, usually at the end of worship service. ...

[Judaism - Christianity - References in popular culture - See also](#)
[en.wikipedia.org/wiki/Benediction](#) - [Cached](#) - [Similar](#)

[Benediction \(band\) - Wikipedia, the free encyclopedia](#)

Benediction is a British death metal band from Birmingham, England. They were formed in February 1989. Contents: 1 Biography, 2 Members ...
[en.wikipedia.org/wiki/Benediction_\(band\)](#) - [Cached](#) - [Similar](#)

[Show more results from en.wikipedia.org](#)

[Benedictions and Blessings](#)

Artful ways to say goodbye: Blessings and **Benedictions**.
[Benedictions - Aarabic Benediction - Irish Blessings](#)
[www.wilsonmar.com/benedic.htm](#) - [Cached](#) - [Similar](#)

[Benediction - Definition and More from the Free Merriam-Webster ...](#)

Benediction - Definition and More from the Free Merriam-Webster ...
Etymology: Middle English benediccion, from Late Latin **benediction-**, benedictio, from benedicere to bless, from Latin, to speak well of, from bene well ...
[www.merriam-webster.com/dictionary/benediction](#) - [Cached](#) - [Similar](#)

[CATHOLIC ENCYCLOPEDIA: Benediction of the Blessed Sacrament](#)

Description of the basics of this popular devotion. **Benediction** is unusual in that it is a devotional practice partly governed by liturgical law.
[www.newadvent.org - Catholic Encyclopedia - B](#) - [Cached](#) - [Similar](#)

[BENEDICTION on MySpace Music - Free Streaming MP3s, Pictures ...](#)



Ambiguous Terms

Search Term:	Configurations:	Google Search Results:	Bing Search Results:
Perseverance	Logged in to personal Gmail account	Definitions, quotes, synonyms News Results: NHL Hockey	Definitions, posters
	Turned off cookies	Definitions, quotes, theatre company	Definitions, quotes
Balance	Logged in to father's account	Quotes, definitions	Definitions, quotes
	Logged in to personal Gmail account	Definitions, finance program, yoga	Selling online shoes, definitions, games
	Turned off cookies	Disorders, software	Balance bar, definitions
Social Media	Logged in to father's account	Images of balance scale, disorders	New Balance shoe shopping, environment
	Logged in to personal Gmail account	How to use social media, business, blog posts, books (<i>The Social Media Bible</i>)	Youtube, marketing, advertising
	Turned off cookies	Youtube, social media graphic diagrams	Business strategies, marketing
	Logged in to father's account	Youtube, social media graphic diagrams	Business strategies, marketing

Jody Leung

Specific Terms

Search Term:	Configurations:	Google Search Results:	Bing Search Results:
Soccer	Logged in to personal Gmail account	ESPN, FIFA, News results: college soccer scores, Youtube	Nike shopping, ESPN, MLS, Listings for soccer near Las Vegas
	Turned off cookies	Selling jerseys, ESPN, image of soccer balls	ESPN, MLS, selling jerseys
	Logged in to father's account	FOX, ESPN	Nike soccer
Marathons	Logged in to personal Gmail account	Running directory, race directory, Boston Marathon	Oil company, Electric motors, marathon running
	Turned off cookies	Running directory, race directory, Boston Marathon	Travel Expedia, oil company, running
	Logged in to father's account	Marine corps marathon, run a marathon	Travel, Paypal
Giants	Logged in to personal Gmail account	MLB scores, Twitter posts, SF Giants, New York Giants	Giant food, bicycles, SF Giants, Tickets
	Turned off cookies	MLB scores, SF Giants, New York Giants	Giant food, bicycles, SF Giants, Tickets
	Logged in to father's account	MLB scores, SF Giants, New York Giants	Giant food, bicycles

Student Related Terms

Search Term:	Configurations:	Google Search Results:	Bing Search Results:
Law School	Logged in to personal Gmail account	Online law school, LSAT, Harvard Law School	Wikipedia, online law school
	Turned off cookies	Twitter, Georgetown Law School, Yale Law School	Online law schools
	Logged in to father's account	Stanford Law School, Westlaw	Online law schools

[Menstrual cycle - Wikipedia, the free encyclopedia](#)
"At what age does a girl get her first period?" from Menstruation and the ... "What is a typical menstrual period like?". U.S. Department of Health and ...
[Terminology - Phases - Fertile window - Effect on other systems](#)
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Holly Fine

Summary: ¶



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Apin Sicoravit

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coming up

April 20 readings to follow

Week 14

20 Apr: Books, newspapers & the future of publications

22 Apr: Social implications of the internet I

Required reading:

- Marshall, Alfred. 1920. "Industrial Organization, Continued. The Concentration of Industries in Particular Localities," book IV chapter X (section iv.x.1-15), in *Principles of Economics*. London, Macmillan & Co.
- Cairncross, Frances . 2001. Preface and "Trendspotter's Guide to New Communications" pp ix - xvii in *The Death of Distance: How the Communications Revolution is Changing our Lives*. Boston: Harvard Business School Press. Available from Google Books



April 22

assignment

In the readings, Marshall gives several reasons why industries tended to 'localize' while Cairncross seems to suggest that, with the 'death of distance,' 'fate of location,' and 'increased mobility,' localization will be no more. Are there any arguments in Marshall that Cairncross has overlooked and that might yet prolong localization? If you think there are, discuss why you think Marshall is right. If you think there are not, suggest how Cairncross might account, for example, for Marshall's arguments about invention and skill (Marshall, §3 and beyond).