

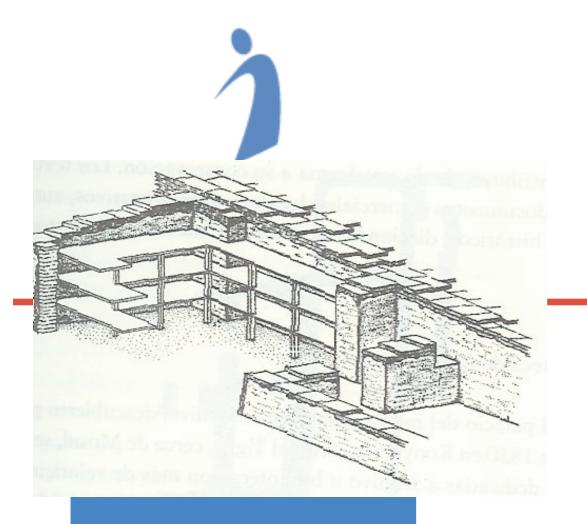
# a new line?

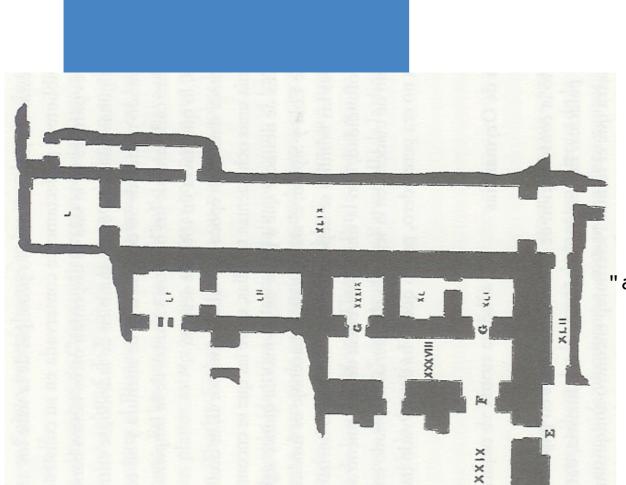
## "to organize the world's

information"

store order access







# storing

## Mesopotamia

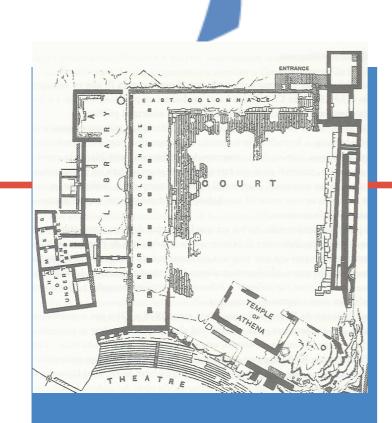
Ebla (Syria) c 2250 bce

Babylon (Iraq) 15,000 tablets

**Nineveh** (Iraq) c. 650 bce *Gilgamesh* 

Shin-equi-unninni

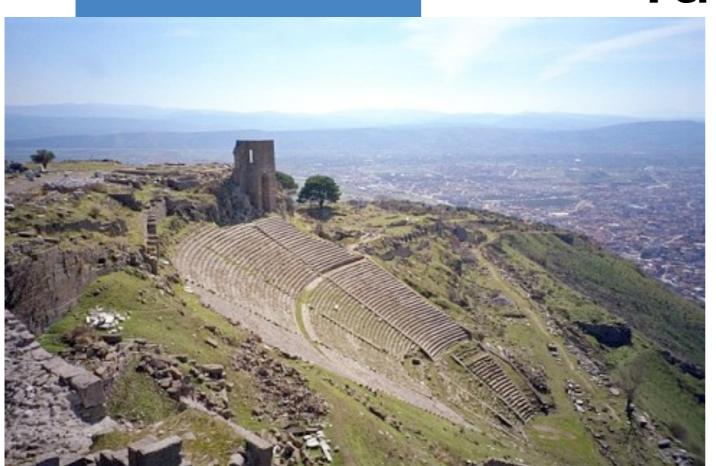
"and then he carved his story on a stone"



# storing: Mediterranean

**Lyceum** (Aristotle)

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



# storing:Alexandria(s)

## libraries

royal library, Mouseion, "daughter", Serapion Caesarion

## **Ptolomies**

I (367/6-283/2 bce) II (308-246 bce)

# 490,000 "main" 42,000 "daughter"





# sorting

## Zenodotus

alphabetical ordering

# Callimachus

categories

## **Aristophanes & Aristarchus**

scholarly versions editorial commentary

# **Dionysius the Thracian**

Greek grammar

# volumen to codex



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# 1

# monastic libraries

### intensive to extensive

"[F]rom the fourth hour until about the sixth let them apply themselves to reading. After the sixth hour, having left the table, let them rest on their beds in perfect silence; or if anyone may perhaps want to read, let him read to himself in such a way as not to disturb anyone else."

Rule of St Benedict, Chapter 48.

# reading

# Humbert de Romanis (194-1257)

## **Dominican libraries:**

dry, well ventilated, ample shelving, subject categories, catalogue, titles on spines; up to date, selling old and duplicates to buy new; regular hours; 'reference' book chained, others portable; loans recorded

## **Dominican reading:**

the search for truth Hofl Store &c - 9



# reading

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the search for truth Hofl Store &c - 9



# organizing (again)

# alphabetized

Elementarium Doctrinae Erudimentum, 1053

topical indexes Deusdedit's *Canons*, 1083-87

# thematic classification

Gilbert of Poitiers's Psalms, c. 1150

running headlines, chapter titles, cross references, citations, "chapter & verse", authoritative texts (*Correctoria*) Hofl Store &c - 10

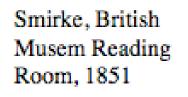
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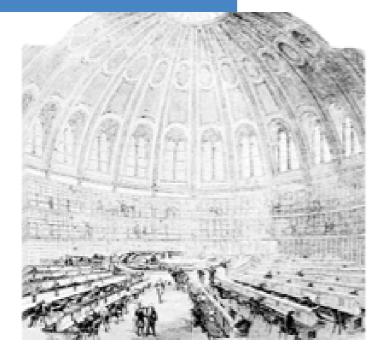
# **Alexandrian phantasies**

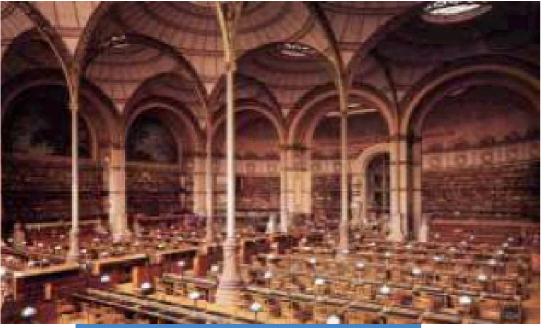
"These Libraries in a few years, will be full and compleat, being furnished, not only with all the valuable and usefull Old Books in any Art of Science, but also with all the valuable New Books, so soon as every they are heard of or seen in the World" An Overture for Founding and Maintaining of Bibliothecks in Every Paroch Throughout this Kingdom, James Kirkwood, 1699

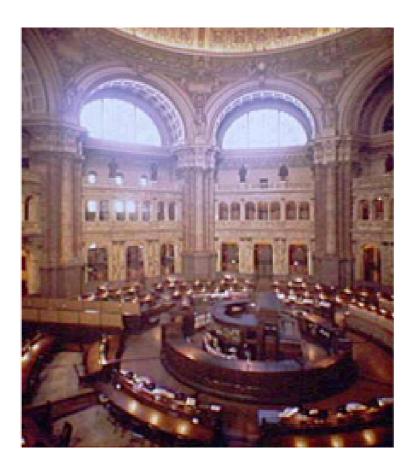


# collecting or selecting









Pelz/Casey Reading Room, LOC, ca 1898

Labrouste, Bibliothèque Nationale 1868 Asplund, Stockholm City Library, 1928 Shong room. Ab [Valla]

VALLA (Laurentius).

Laurentii Valle Elegantiarum libri sex, deq; reciprocatiõe libellus, cū Antonij Mancinelli lima suis locis apposita. Et cum Iodoci Badij Ascensij epitomatis singulis capitibus antepositis, & subinde non contemnendis explanationibus. Adnotationes eiusdem in Antonium Raudensem. Apologus seu actus scenic9 in Pogiū florentinum. ff.(4) + cexxvi + (12).

4°. [Mathias Schürer: Strassburg, 1512.]

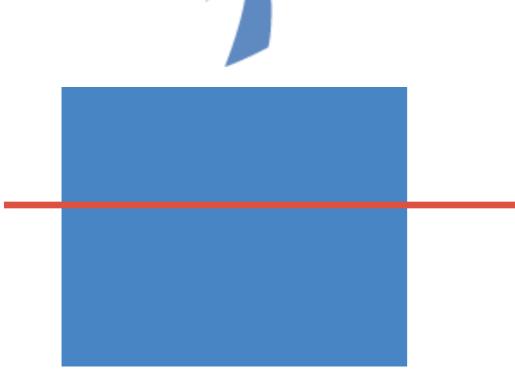
Imperfect: wanting five signatures (A-E) from the end of the volume, containing the In Antonium Raudensem and In Poggium.

EDWARD OLEBUR Efe



# Gibbon (1737-1794) & playing cards

## Melvil Dewey (1851-1931) 000-099 General Works 100-199 Philosophy 200-299 Religion ...



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 BLOR, LL.D. Dublin.

# film of the book

## Notes & Queries, 1854, 1855

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 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  $1\frac{1}{2}$  broad, it is perfectly

# 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





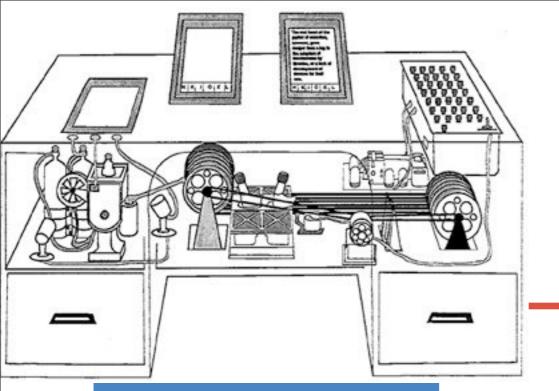
# memex

### revision course

Two centuries ago Leibnitz invented a calculating machine which embodied most of the essential features of recent keyboard devices ... Babbage, even with remarkably generous support for his time, could not produce his great arithmetical machine ...progress in photography is not going to stop .... dry photography ... is already here ... a scheme for facsimile transmission ...microphotography ... compression ... advanced arithmetical machines .... will select their own data and manipulate it

## 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

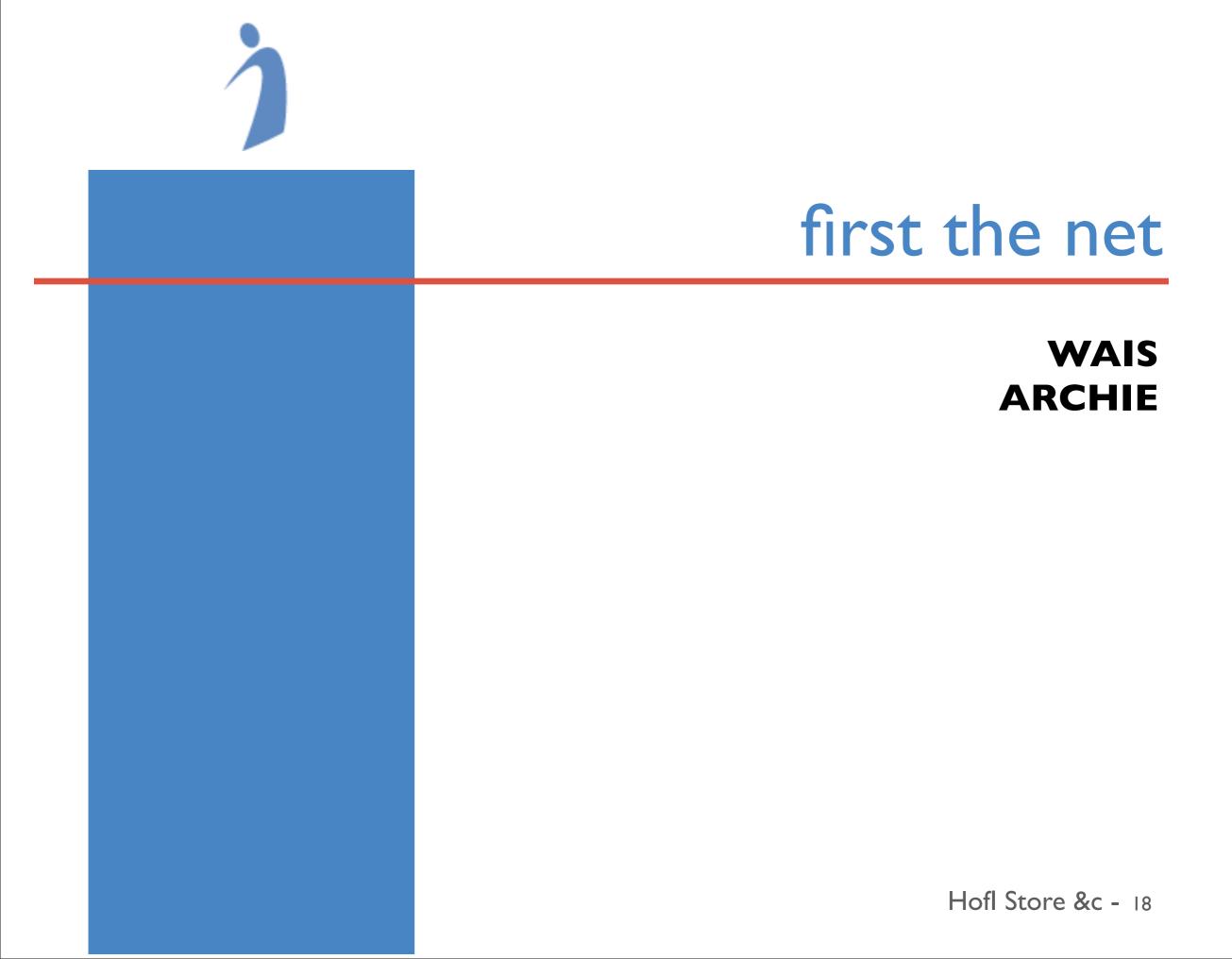


# global memex

"an America where every child can stretch a hand across a keyboard and reach every book ever written, every painting ever painted, every symphony ever composed". Bill Clinton, 1966

"A young generation of entrepreneurs asked what if we could take all the information in a library and put it on a little chip the size of a fingernail? We did that and changed the world forever". John Kerry, 2004

> "universal access to all knowledge". Brewster Kahle



# then the web

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

> Alta Vista Yahoo



## **beyond** hierarchy

"to organize the world's information"

## beyond organization

"making the incredible breadth of information that librarians so lovingly organize searchable online".

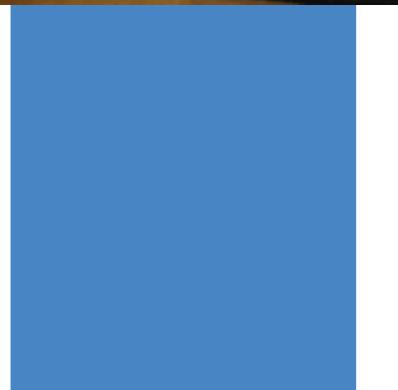
6.5 billion searches August 2006
 \$2.9 billion, 3d quarter, 2006

### beyond search

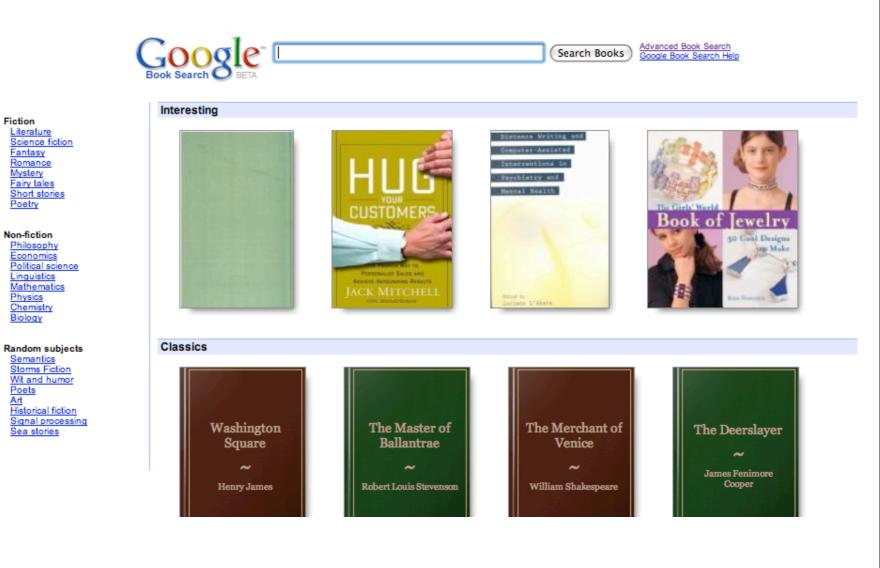
"the database of intention". --John Batelle







# releasing information



# beyond google?

## web 2.0

### Web 1.0

- DoubleClick -->
  - Ofoto --
  - Akamai -
  - mp3.com --
- Britannica Online -->
- personal websites ---:
  - evite --
- domain name speculation
  - page views
  - screen scraping
    - publishing -
- content management systems -->
  - directories (taxonomy)
    - stickiness --

#### Web 2.0

- Google AdSense
- --> Flickr
- --> BitTorrent
- --> Napster
- --> Wikipedia
- --> blogging
- --> upcoming.org and EVDB
- --> search engine optimization
- --> cost per click
- --> web services
- --> participation
  - > wikis
- --> tagging ("folksonomy")
- --> syndication

# beyond the page?



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# democracy?

the promise of using technology to bring *more* culture to the masses had been drowned out by FOO Campers' collective cry for a democratized media

... Everybody was simultaneously broadcasting themselves but nobody was listening.

...democratizaton ... is undermining truth, souring civic discourse, and belittleing expertise, experience, and talent ... threatening the very nature of our cultural institutions

... today ... there is an even more threatening Big Brother lurking in the shadows: the search engine