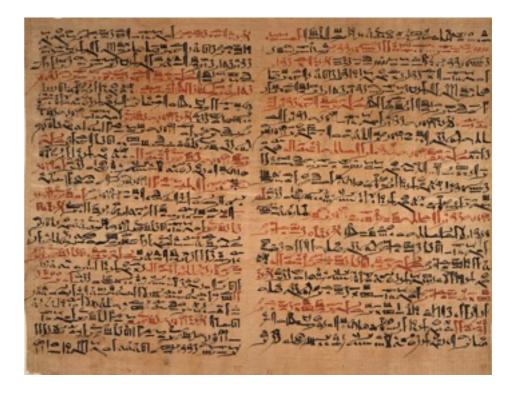
manuscript culture



back to the books

history of information February 3, 2011







aob



2011 Codex Bookfair at the Pauley Ballroom, UC Berkeley Campus

2011 BOOKFAIR PUBLIC HOURS

Sunday, Feb. 6 12:00 - 4:00

Monday, Feb. 7 12:30 - 6:30

Tuesday, Feb. 8 12:30 - 6:30

Wednesday, Feb. 9 12:30 - 4:30

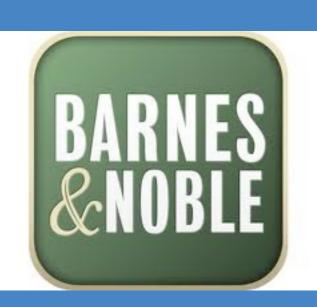
http://codexfoundation.org/

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The New Hork Times

Technology

An Apple E-Book Rule Tightens

By CLAIRE CAIN MILLER Published: February 1, 2011

When you see people flipping through e-books on iPads or iPhones, there is a good chance they bought the books through <u>Amazon.com</u>, not <u>Apple</u>.

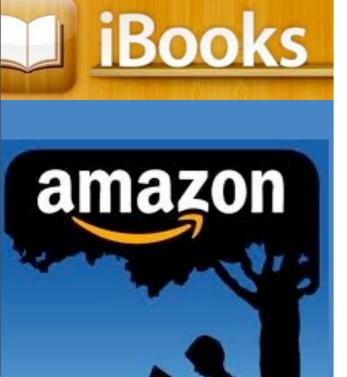
Now, Apple wants to change that.

Apple confirmed Tuesday that it would require app developers that sell e-books outside of their <u>iPad</u> and <u>iPhone</u> apps — through a Web site, for example — to also sell the books inside those apps. And purchases that originate in the app must be made through Apple, which keeps a 30 percent cut.

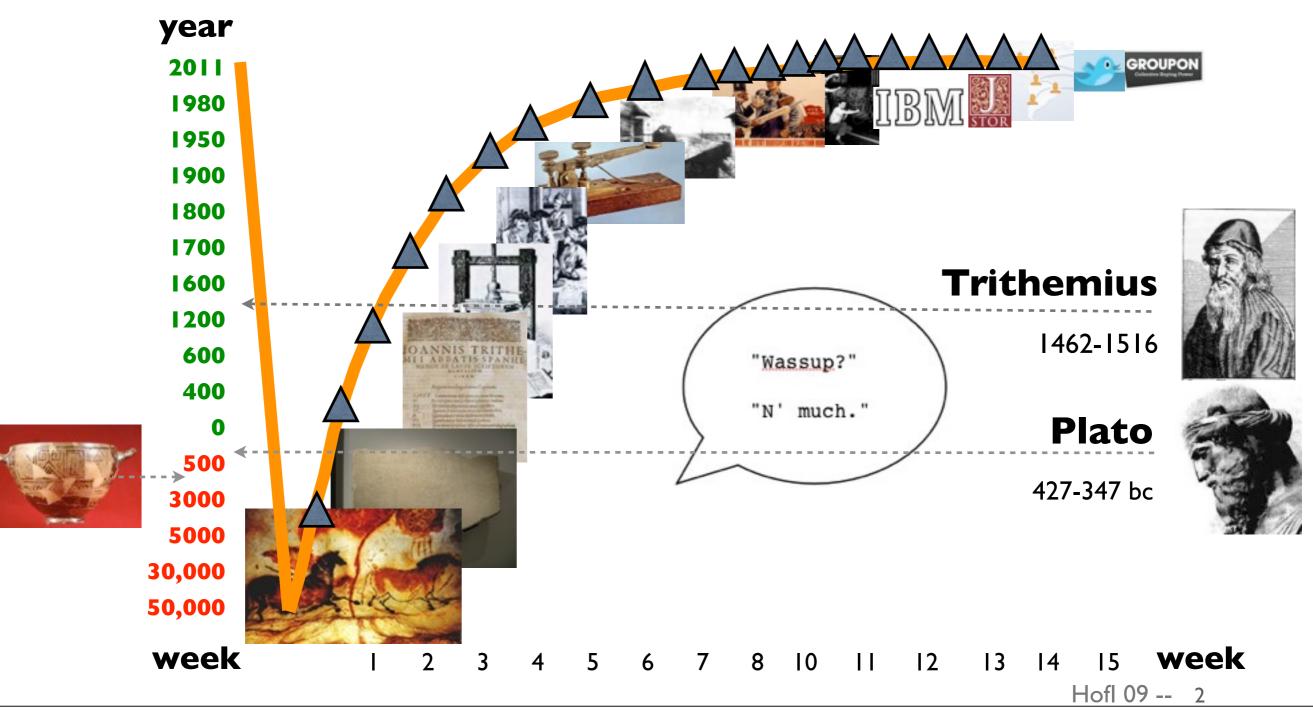
Apple said it was newly enforcing an existing rule, one that will force Amazon, <u>Sony</u>, <u>Google</u> and other e-book sellers to change the way their apps work.

"We are now requiring that if an app offers customers the ability to purchase books outside of the app, that the same option is also available to customers from within the app," Trudy Muller, an Apple spokeswoman, said in a statement.

Hofl I I -- Manuscript Culture 3



bookends?



Thursday, February 3, 2011

overview

on determinism (again)

eyewitnesses (and reading)

what were they talking about?

technologies of the book

manuscript culture

the authority of the book

unintended consequences



how determined?



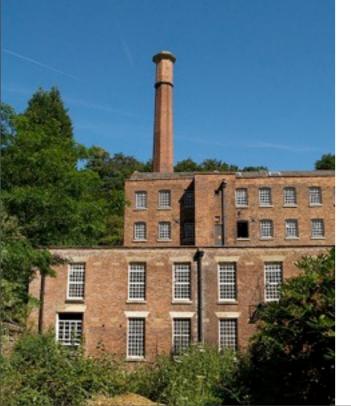
necessary vs sufficient

"Is industrial technology the necessary and sufficient condition for capitalism?"

-- Heilbroner



- the handmill* produces feudalism?
- couldn't have feudalism without handmill?
- with handmill superseded, feudalism was in trouble?



[* try writing/alphabet/book/print/telegraph]

Hofl II -- Manuscript Culture 6

determining questions

what happened?

"simple" to "complex"

what did (or didn't) come before?

oral

what did (or didn't) follow?

rise of "society," end of oral culture

what contributed?

writing, alphabets

what happened elsewhere?

what's underestimated?

Hofl II -- Manuscript Culture 7

overview

on determinism

eyewitnesses

what were they talking about

technologies of the book

manuscript culture

the authority of the book

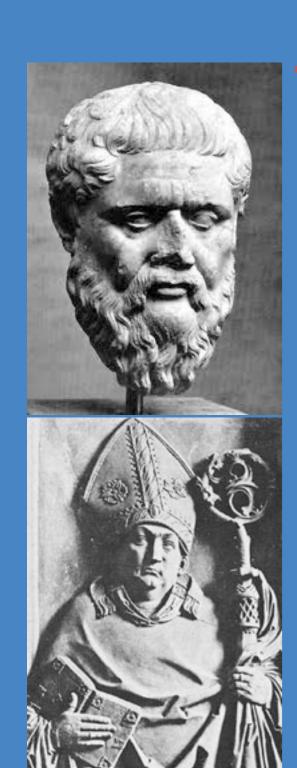
unintended consequences

eyewitnesses

Plato,

Phaedrus, ?360bc

Johannes Trithemius, In Praise of Scribes, 1492



Thursday, February 3, 2011

an old idea

"Those who acquire [writing] will cease to exercise their memory and become forgetful; they will rely on writing to bring things to their remembrance by external signs instead of on their own internal resources."

Plato, Phaedrus, c. 370 bc

coming up:

manuscript culture

eyewitnesses

standard view

Socarates didn't like books Trithemius didn't like print

your thoughts?

3 Feb: Manuscript Culture

Required reading:

NOTE: we are now going back to "primary texts," texts that discuss the changes we are interested in as they happened. As you read these texts, one almost 2500 years old, the other more than 500 years old, ask yourself whether these have anything to tell us about information in the modern world. Be prepared to discuss your reactions in class. (The Trithemius is a "parallel text" with Latin facing English. Only those fluent in Latin need read the Latin pages.)

overview

on determinism (again)

eyewitnesses (and reading)

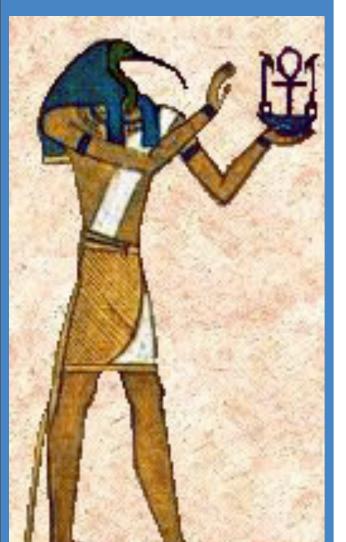
what were they talking about?

Socrates

technologies of the book

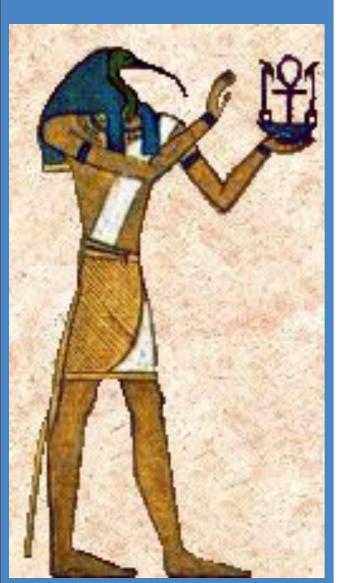
manuscript culture

the authority of the book



"The discoverer is not the best judge"

Phaedrus what's the setup?

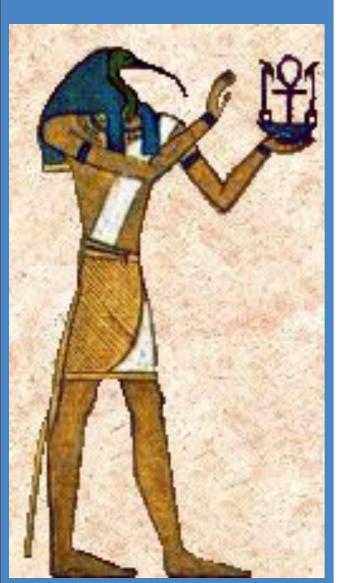


"The discoverer is not the best judge"

Phaedrus

what's the setup?

Socrates

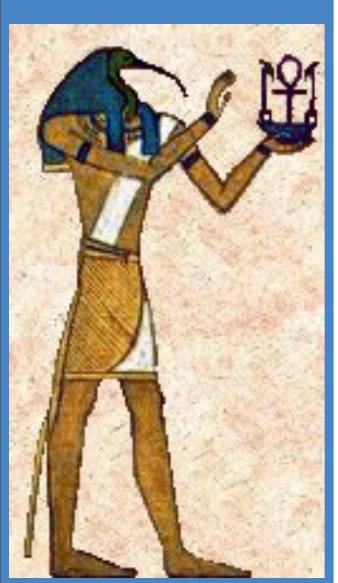


"The discoverer is not the best judge"

Phaedrus

what's the setup?

Socrates Phaedrus

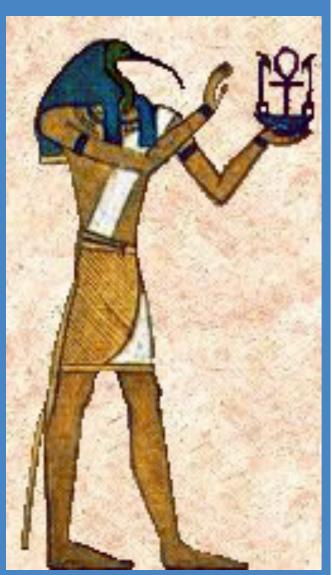


"The discoverer is not the best judge"

Phaedrus

what's the setup?

Socrates **Phaedrus** Lysias



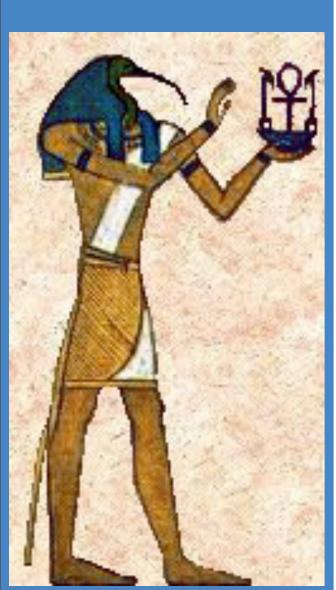
"The discoverer is not the best judge"

Phaedrus

what's the setup?

Socrates Phaedrus Lysias

The Egyptian story?



"The discoverer is not the best judge"

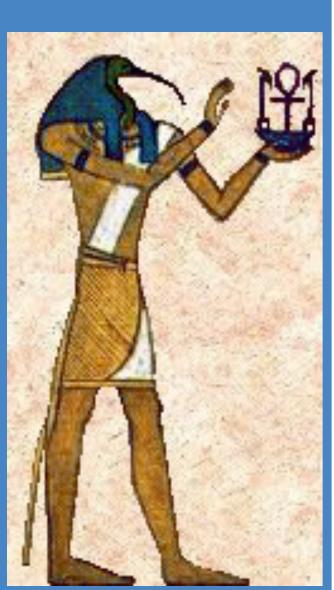
Phaedrus

what's the setup?

Socrates
Phaedrus
Lysias

The Egyptian story?

Thamus



"The discoverer is not the best judge"

Phaedrus

what's the setup?

Socrates Phaedrus Lysias

The Egyptian story?

Thamus Thebes



"The discoverer is not the best judge"

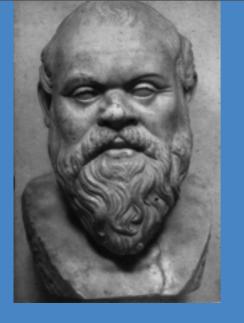
Phaedrus

what's the setup?

Socrates
Phaedrus
Lysias

The Egyptian story?

Thamus
Thebes
Theuth



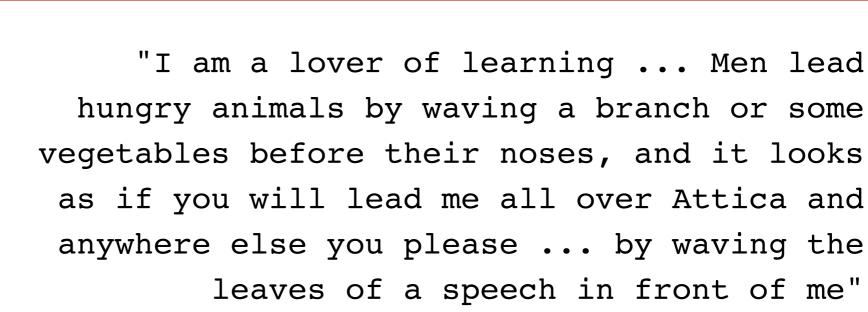
memory and forgetfulness

"Those who acquire [writing] will cease to exercise their memory and become forgetful; they will rely on writing to bring things to their remembrance by external signs instead of on their own internal resources."

Socarates didn't like books Trithemius didn't like print

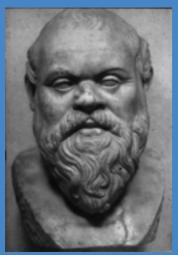
--Socrates

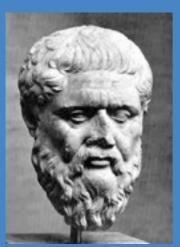
the standard view?

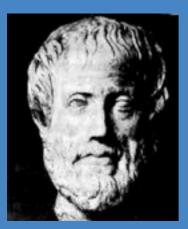


"Plato ...had such a love of books that he bought three books ... at the price of 10,000 denarii. Aristotle ... acquired a few books for three Attic talents which amounts to 72,000 nummii."

-- ... Celebrated Libraries
Hofl II -- Manuscript Culture 14







Thursday, February 3, 2011

Phaedrus

Phaedrus

speeches

Phaedrus

speeches

reciting

Phaedrus

speeches

reciting

writing

Phaedrus

speeches

reciting

writing

truth

Phaedrus

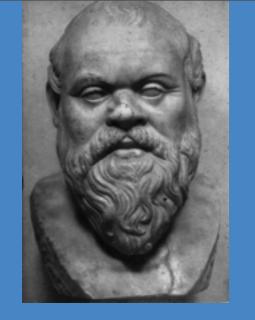
speeches

reciting

writing

truth

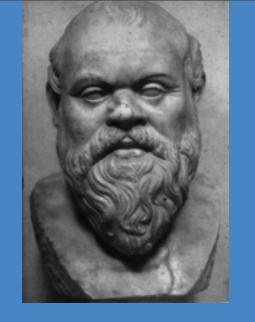
dialectic



truth

"for wisdom, your pupils will have the reputation for it without the reality; they will receive a quantity of information without proper instruction, and in consequence be thought very knowledgeable when they are for the most part quite ignorant."

"Writing circulates equally among those who understand the subject and those who have no business with it."



truth

"for wisdom, your pupils will have the reputation for it without the reality; they will receive a quantity of information without proper instruction, and in consequence be thought very knowledgeable when they are for the most part quite ignorant."

coming up:

"Writing circulates equally among those who understand the subject and those who have no business with it."



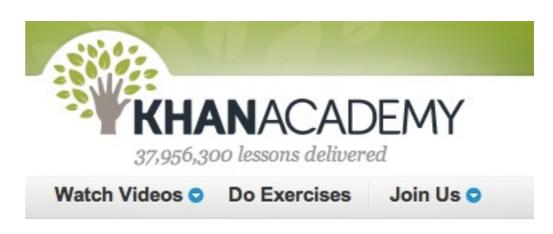
remember?

"But though books are easily procured, yet, even in this age of information, there are thousands in the lower classes that cannot read. Besides, it is a well-known truth, that the same precepts inculcated by a living instructor, adorned by a proper oratory, enforced by a serious and authoritative manner, produce a powerful effect, not to be experienced in solitary retirement." Vicesimus Knox, Essays Moral and Literary, 1778



living instructor?

"The people's University of the Air will have a greater student body than all of our universities put together." -- RCA, 1932



The Khan Academy is a not-for-profit 501(c)(3) with the mission of providing a world-class education to anyone, anywhere.

We are complementing Salman's ever-growing library with user-paced exercises-developed as an open source project-allowing the Khan Academy to become the free classroom for the World.

coming up: social implications

overview

on determinism (again)

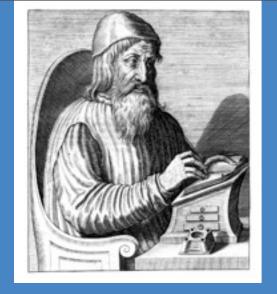
eyewitnesses (and reading)

what were they talking about? Trithemius

technologies of the book

manuscript culture

the authority of the book



Socarates didn't like books
Trithemius didn't like print

enduring

"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."

enduring concerns?

Behind the News with Doug Henwood - January 29, 2011 at 10:00am

Bhaskar Sunkara

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Behind the News with Doug Henwood, for January 29, 2011 - 10:00am



Thursday, February 3, 2011

enduring concerns?

Behind the News with Doug Henwood - January 29, 2011 at 10:00am

Bhaskar Sunkara

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Behind the News with Doug Henwood, for January 29, 2011 - 10:00am



Thursday, February 3, 2011

Hofl II -- Manuscript Culture 21

Socarates didn't like books
Trithemius didn't like print

bibliomane



Trithemius

Abbot of St Martin's, Sponheim, 1483-1505 1483: 48 books in the library

1505: 2,000 books

"It is my greatest pleasure to own and to know all books I ever saw or which I knew to have appeared in print ... To my regret ... money was always lacking ... for the satisfaction of my passion for book." --Trithemius



ENEE ABILI & amantifimo patri Domino Cerlaio de Ireitanh Abhate Testions), ordinal familis Semalicity, france inhumer de Testionhom, con-cation, Abhat in Spandem, claudem ordinal falacem fr castiatem. Cammu-per de annah capitale. Erfordia ociche ata famil convicente de mainfeat de

SIMI VIRI, REVERENDIQUE IN CHRI fto patris, domini loh linit de Trittenhem Abbatis Span hemenfis, Liber de ecclesiasticis scriptoribus



Lemens fanctæ Romanæ ecclefiæ quartus abeato Petro(vt quibufdam placet)ordi-natus epifcopus, natione Romanus, vir fan chas & deo dilectus, morum quo-qi decore crisis del discriss, moram quo que decore ornatus, cuins vita & paffio in feripturis ec clefiafricis habentur, fedit in pontificaru nouem annis & decem diebus, în exilium profide Christi relegatus animo costanti, Obit anno Traiani Casaris tertio, domini aut cetelimo tertio, Hicbeatisfimus mar

ni ašt cetelimo tertio, Hicheatillimus mar
tyr nonnullas fide & eruditione plenas fertur in persona Romana
ecclesia scriptiste epistolas, De quibus extăt pracipua
Ad ecclesiam Corinthioram Epistolavia.
Ad Iacobū quoqu apostolam Epistolavia.
Ad Iacobū quoqu apostolam Epistolavia.
Item disputationis Petri liber vinas.
Inny set duo vleima volumina inter apocrypha coputantur, vt pa
tet, it, dist. Seda Romana. Ferunt eius & alia epis, sed apocrypha.

Jonysius Ariopagita Athenienis, philosophus infignis,
per beatum Paulum apostolam conuersas ad fidem, primus (vt quibus dam places) Athenienis episcopus ordina
rus est, vir eximiz sanchitatis & incomparabilis doctrinas. Hune post decessium apostoloris, beatus Clemena Romana vtbis episcopus où Rustico presbytero & Eleustherio diacono ad fidcandi genibus verba dei misti in Feiciana, alioin cius loca ordinato
episcopo. Scripsit autem graco sermone multa practara opuscula,
De quibus apud latinos tantum inueni sabiecta.
De cerletti hierarchia
lib, vinii, Omne datii optimii &,
De ecclesiistica hierarchia.
Lib, i. Sacerdotii quidem nist.

De ecclefiaffica hierarchia, De diuinis nominibus Demystica theologia

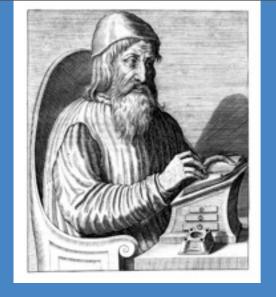
lib.v.nű. Omne datű optimű &.
lib.t. Szerrdotő quidem nfi.
lib.t. Nunc iam vir dei polt.
lib.t. Teinitzs fuperfabitant.

Trithemius & the press

De Laude Scriptorum

Trithemius "proved particularly deft at exploiting the printing press. his book... published in Mainz by Peter von Friedberg, his favourite printer, and ... set the work not in Gothic type normally used in Germany, but in an innovative and attractive Roman font".

Grafton & Williams, Christianity and the Transformation of the Book, 2006.



reading between the lines

internal battles

contemplation, manual labor, preaching

VS

scribal practice

"The dedicated and sincere scribe ... will not receive less than the preacher"

book collecting

"There are some who reproach lovers of books for having ... too many"

Monks "are so detested that it is considered bad luck if one crosses your path"

Erasmus,
In Praise of Folly,
1511

"brothers, concentrate now all your fervor on the sacred books, for the salvation of your souls and the order"

external battles



humanism & the university

"In the 700 years between the Fall of Rome and the 12th century, it was the monasteries which enjoyed an almost complete monopoly of book production and so of book culture.... from the end of the 12th century a profound transformation took place ... reflected in the founding of the universities and the development of learning".

Febvre & Martin, The Coming of the Book, 1984

survival





survival





overview

on determinism (again)

eyewitnesses (and reading)

what were they talking about

technologies of the book

manuscript culture

the authority of the book

unintended consequences







technologies



He who saw the deep ...
...set all his labours on a tablet of stone

See the tablet-box of cedar,
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 ...

stone clay wood wax parchment/vellum papyrus paper palm silk ink pens

```
"Homerus ...

Vergilius ...

Cicero ... Titus

Livy ... in

membranus...quam

brevis immensum

cepit membrana"
```

missing revolution?

--Martial (c38-103) Epigrams

rolled to flat

"the revolution between the second and fourth centuries that changed the very structure of the book by substituting the codex for the roll"

--Roger Chartier, Forms and Meaning, 1995

"Gutenberg did not so much start an information revolution as introduce a second technology for the creation of the familiar codex."

--Jessica Brantley,

"The Prehistory of the Book," 2007

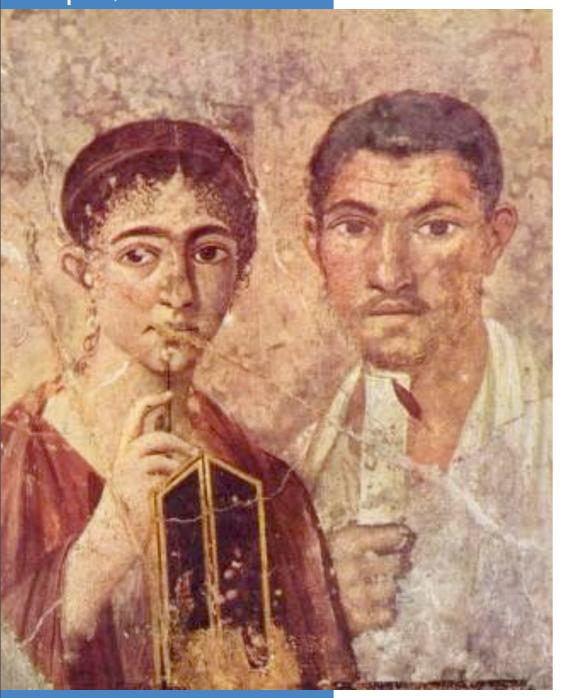
evolutionary force?

"The need for readily available information, which had been steadily rising, was accelerated by the advent of Christianity ..."

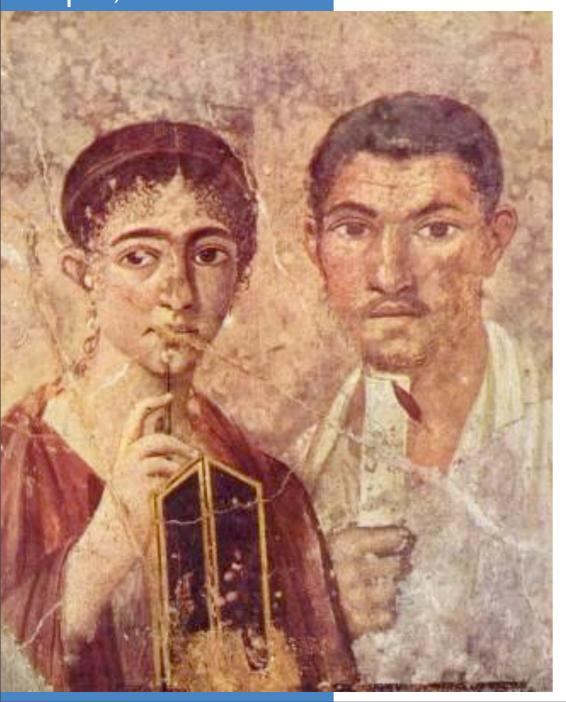
"The need to find information more rapidly than is possible in a papyrus-roll-form book initiated the development of the Greco-Roman codex in the second century ..."

Frederick Kilgour, The **Evolution** of the Book, 1998

Pompeii, c 79 ce

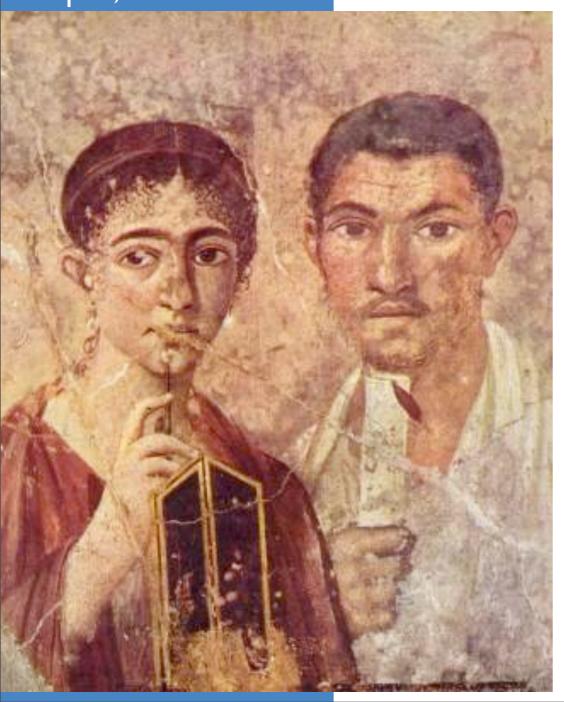


Pompeii, c 79 ce



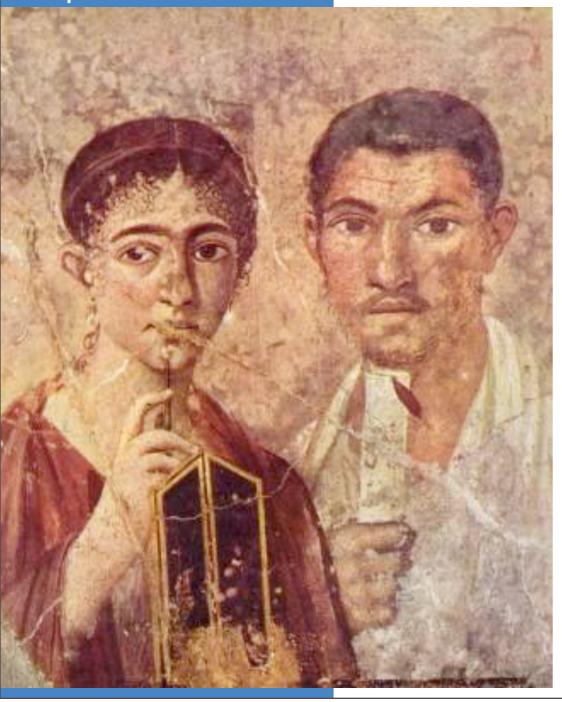
random access

Pompeii, c 79 ce



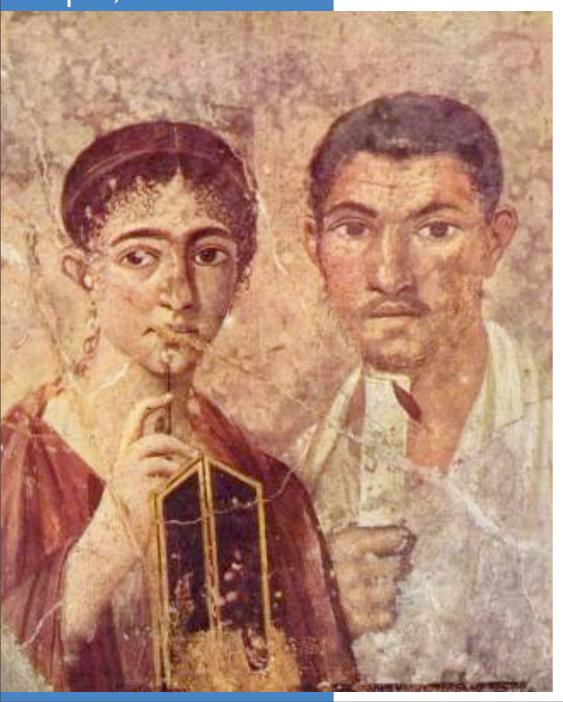
random access one handed

Pompeii, c 79 ce



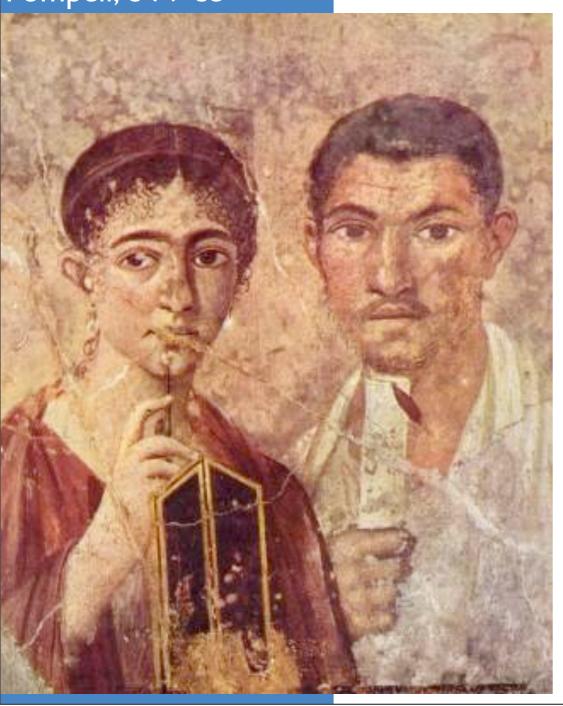
random access
one handed
two-sided

Pompeii, c 79 ce



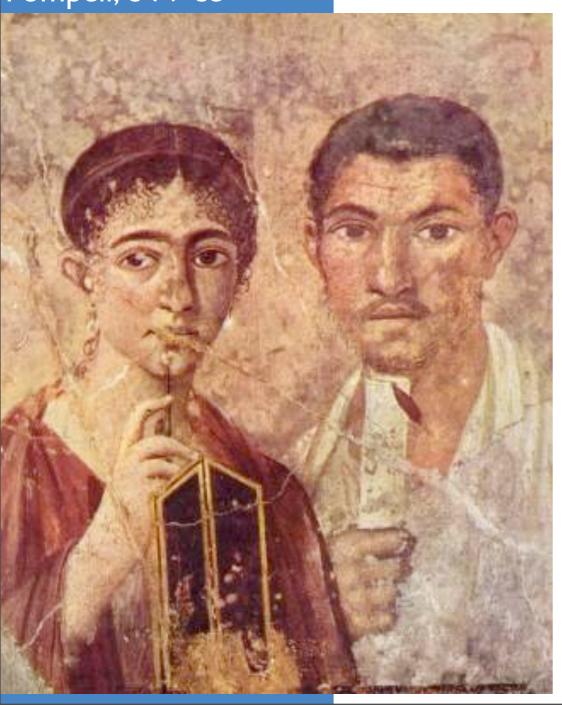
random access
one handed
two-sided
pagination

Pompeii, c 79 ce



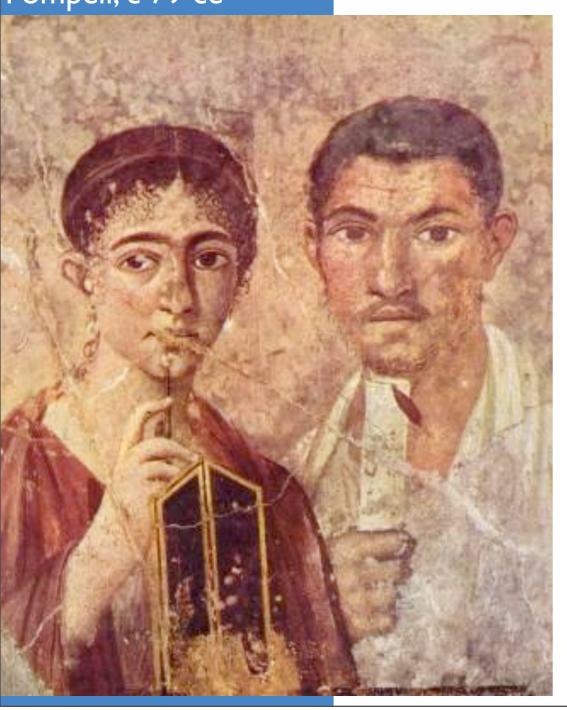
random access
one handed
two-sided
pagination
marginalia

Pompeii, c 79 ce



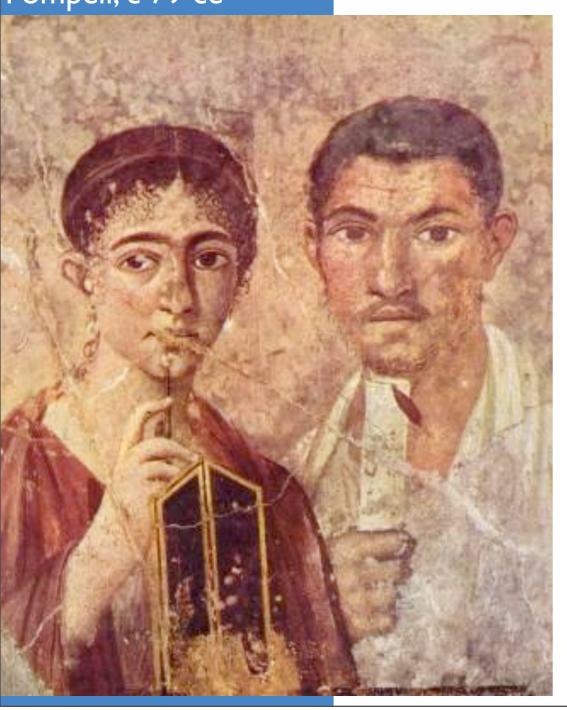
random access
one handed
two-sided
pagination
marginalia
footnotes

Pompeii, c 79 ce



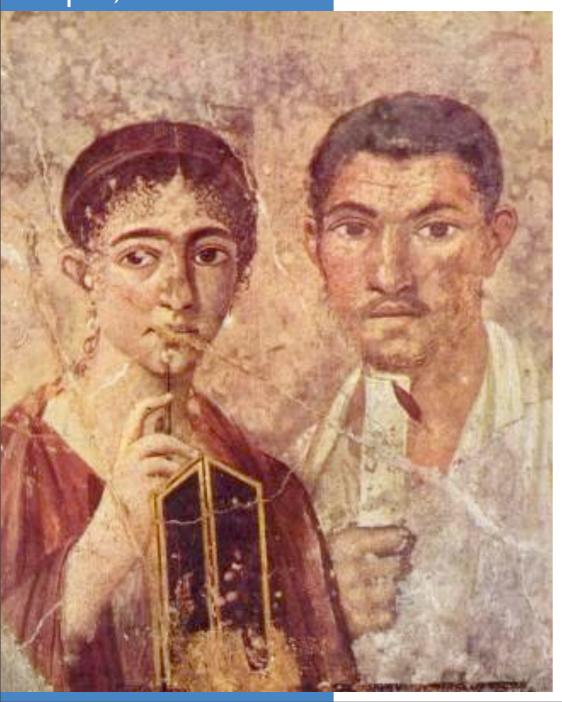
random access
one handed
two-sided
pagination
marginalia
footnotes
indexes

Pompeii, c 79 ce



random access
one handed
two-sided
pagination
marginalia
footnotes
indexes

Pompeii, c 79 ce

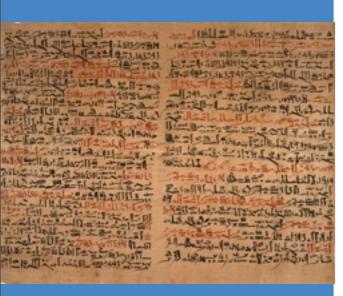




random access
one handed
two-sided
pagination
marginalia
footnotes
indexes



underestimated?



Edwin Smith Papyrus c. 1600 bce NY Academy of Medicine

handy
pages
collection
divisions
(incipits, explicits, colophons, sillyboi)

pages? doesn't crack?



material changes

geographical determinism?

parchment at Pergamum
papyrus at Alexandria
palm in India
(pattachitra)
silk in China

"the parchment alone in a fine Bible, even allowing for the shorthand script of the day, represented a flock of perhaps three hundred sheep"

John North, God's Clockmaker, 2005

evolutionary doubts

"No evidence whatever to indicate whether the change of material influenced the change of form, or vice versa... papyrus roll, the papyrus codex, the parchment roll, and the parchment codex... all perfectly adequate and acceptable forms of book."

--Colin Roberts & T.C. Skeat,

The Birth of the Codex, 1983

material changes



Ts'ai Lun 62-121

papyrus/parchment to paper

China, 200 bce

Korea, 3d century

India, 5th century

Japan, early 7th century

Islam, 8th century

Jews, 10th century

Byzantium, 9th century

Western Europe, II century

formal changes

scroll to codex

Christians, 2d century

Islam, 8-9th century

Jews, 8-9th century

China, 13th century, (thread binding)

Korea, ?12th century (sutra binding)

Japan 18th century

formal changes

parchment to paper

China, 200 bce

Korea, 3d century

India, 5th century

Japan, early 7th century

Islam, 8th century

Jews, 10th century

Byzantium, 9th century

Western Europe, 11 century

scroll to codex

Christians, 2d century

Islam, 8-9th century

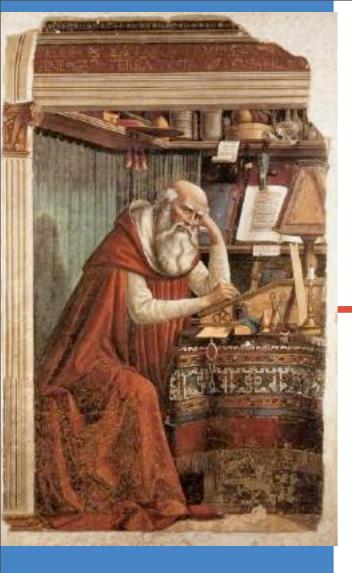
Jews, 8-9th century

China, 13th century, (thread binding)

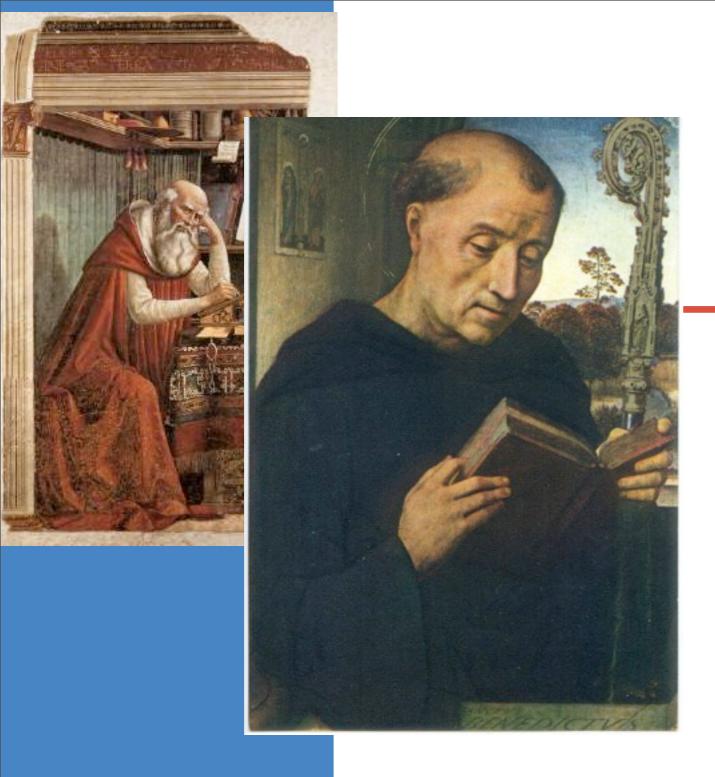
Korea, ?12th century (sutra binding)

Japan 18th century

technological triumph?



technological triumph?



technological triumph?







caveat lector

"In late antiquity, all authority was founded on Scripture...and the highest authority, the authority of the church, was represented by the codex."

--Cavallo, "Du Volumen au Codex," 1997

"[P]agans ... continued to regard it as a culturally inferior form. In contrast, the great majority of Christian texts were already in the form of codices."

--Peter Stallybrass, "Books and Scrolls," 2002

"the ordinary believer could easily stumble in this thicket of discordant editions"

--Resnick, "Codex in Early Jewish and Christian Communities,"

wassup?



changing readership

"The late medieval book differs more from its early medieval predecessors than it does from the printed book. ... "The expectation of readers was changed, and this was reflected in changes in the physical appearance of books. A writer organized his work for publication, and if he did not ... then a scribe would .. The production of books became more sophisticated"

--Parkes, "Influence of the Concepts " 1976 Hoff II -- Manuscript Culture 39

pre-prints

still with the manuscript

gloss

running heads

subdivisions: books, chapters

analytical tables of contents

chapter headings

cross references

alphabetical order

page numbers

indexes

overview

on determinism (again)

eyewitnesses (and reading)

what were they talking about

technologies of the book

manuscript culture

the authority of the book

unintended consequences

down to business

```
"The oldest writings to survive to our time were
     inscribed five thousand years ago by temple
  bureaucrats recording economic transactions ...
              crops, animals, manufactured goods"
          -- Lerner, The Story of Libraries, 1998
         "In the twelfth century... magnates used
  documents occasionally ... In the thirteenth ..
 laymen began to convey property to each other by
    charter; in the latter half ... this practice
extended below the gentry class to some peasants.
  -- Clanchy, From Memory to Written Record, 1993
                              Hofl I I -- Manuscript Culture 42
```

an information age?



preparing the ground

Domesday

cadastras

dates

names

spelling

written evidence

centralization

overview

on determinism (again)

eyewitnesses (and reading)

what were they talking about

technologies of the book

manuscript culture

the authority of the book

unintended consequences

Hofl I I -- Manuscript Culture 44

a linear model?

reversible trends

"Up to the eleventh century, western

Europe could have returned to an
essentially oral civilization. But by

1100 the die was cast."

--Stock, Implications of Literacy, 1983

the return of the roll

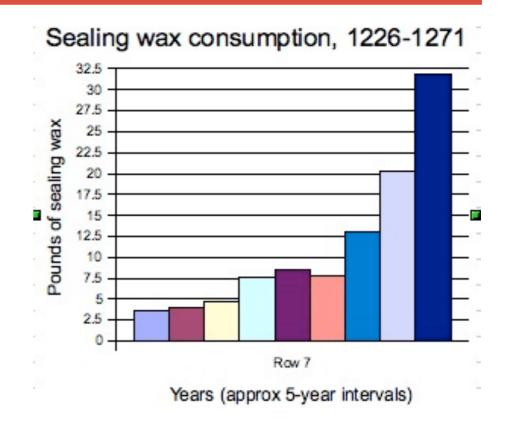
"the reason why medieval England ... kept its records predominantly in rolls remains a mystery."

--Clanchy

material backing







"If you ask [documents] what they mean ... they simply return the same answer over and over again ..."

Socrates

trouble looming

"[B]y the mark of a single impress the mouths of the pontiffs may be opened."

-- Theobald of Canterbury

"We don't accept the evidence of monks against bishops, why should we accept that of a sheepskin?"

overview

on determinism (again)

eyewitnesses (and reading)

what were they talking about

technologies of the book

manuscript culture

the authority of the book

unintended consequences

Hofl I I -- Manuscript Culture 48



unintended consequences

quo warrento

"No document coming from such centres of proved fabrication as Westminster, Evesham, Winchester cathedral, Chertsey and Malmesbury should be accepted at its face value without close examination.

"Ancient monasteries like Chertsey had traditionally forged charters. Now that the king was keeping copies ... abbots ensured that their forged documents were reinforced by inspection in the Chancery and enrollment among the royal records. The Chancery rolls, which were intended to prevent fraud, thus became a means of making forgeries official."

--Clancy, From Memory to Written Record



science of diplomatics



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"the Reformation era ... bringing to light thousands of documents .. hitherto inaccessible and unknown. ... France pioneered in this new historical research ... Mabillon .... Montfaucon."

-- James Thompson,

"The Age of Mabillon," 1942
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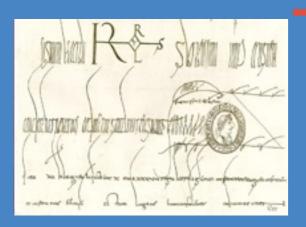
science of diplomatics

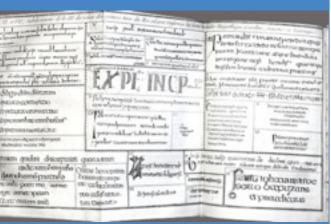


"the Reformation era ... bringing to light thousands of documents .. hitherto inaccessible and unknown. ... France pioneered in this new historical research ... Mabillon Montfaucon." -- James Thompson, "The Age of Mabillon," 1942



beyond the page







"Mabillon frankly admitted that the authenticity of a charter could not be proved by any metaphysical or a priori argument; a decision could be reached only after the expert had examined a whole series of different indications -- the material used, the seal, the signature, the grammar and orthography, the modes of address, the plausibility of the dating, the intrinsic consistency of the whole document."

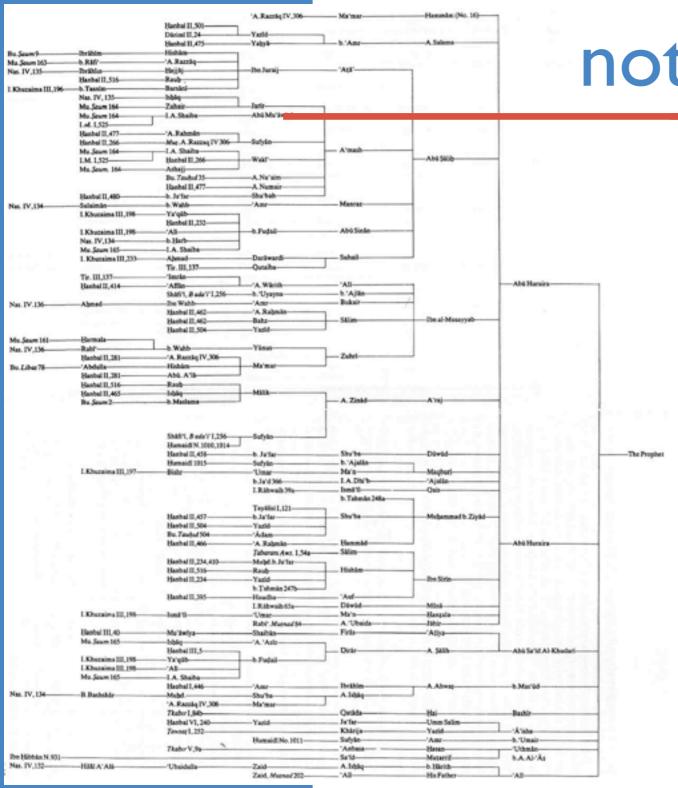
> David Knowles, "Jean Mabillon," 1963 Hofl | | -- Manuscript Culture 5|

a guide to forgery

Mabillon "had exposed the fabricated charters of the Carmelite Father Andrew, in a model memorandum which later fell into the forger's hand, and was taken by him to heart with such good effect that he was able with a subsequent fabrication to have his revenge by planting one of his forgeries

... on Mabillon himself"

--David Knowles



not by books alone

the chain of custody

isnad or chain of transmission



"some of the advantages which manuscript publication gave over print in other periods--immediate appearance, relative freedom from censorship"

--Henry Woudhuysen, Sir Philip Sydney, 1966

"this will kill that"?





manuscript after print

single documents

accounting

scribal publishing

note taking

personal communication

music

"subersive forms" (Love)

Hofl I I -- Manuscript Culture 54



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Hofl II -- Manuscript Culture 54

overview

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print beyond manuscript

Week 4 8 Feb: Print culture

and so to Gutenberg

Required reading:

- Elizabeth Eisenstein, 'The Emergence of Print Culture in the West, 'Journal of Communication, Winter(1980): 99-106.
- [SPCK], The History of Printing, London: SPCK, 1855, read pp 3-43

Additional material:

- Watch: Fry, Stephen. 2008. Stephen Fry and the Gutenberg Press from the series The Machine that Made Us. BBC
- Watch: Burke, James. 1985. A Matter of Fact: Printing Transforms Knowledge. From the series The Day the Universe Changed. BBC

assignment

Eisenstein argues that "The impact of printing, experienced first by literate groups in early modern Europe, changed the character of the Italian Renaissance and ought to be considered among the causes of both the Protestant Reformation and the rise of modern science."

- -Does Eisenstein strike you here as a technological determinist?
- -Are you convinced by Eisenstein's argument?
- What evidence does she give to support her argument?
- Does anything in *The History of Printing* challenge it?
- -How does what you learned at the Bancroft support or challenge Eisenstein's argument?

Hofl II -- Manuscript Culture 57