

manuscript "revolution"



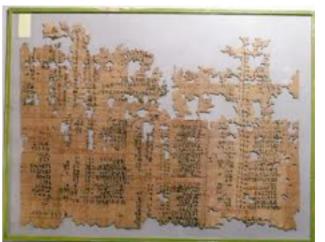
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the authority of the text and a "missing revolution"?

history of information February 5, 2015







Carl Djerassi, 91, a Creator of the Birth Control Pill, Dies

By ROBERT D. McFADDEN JAN. 31, 2015



Carl Djerassi in 2013. He was often called the father of the pill, but was one of many scientists who pioneered the development. Boris Roessler/European Pressphoto Agency

Email

f Share



Carl Djerassi, an eminent chemist who 63 years ago synthesized a hormone that changed the world by creating the key ingredient for the oral contraceptive known as "the pill," died on Friday at his home in San Francisco. He was 91.

His son, Dale, said the cause was complications of liver and bone cancer.

Dr. Djerassi (pronounced jer-AH-see) arrived in America as World War II engulfed Europe, a 16-year-old Austrian Jewish refugee who, with his mother, lost their last \$20 to a swindling New York cabdriver. He wrote to Eleanor Roosevelt, asking for assistance, and obtained a college scholarship. It was a little help that made a big difference.



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in the news

"At first, the team deemed it a breakthrough for fertility, not birth control."



in the news

BLETCHLEY PARK: Alan Turing Banbury sheets being used as roof insulation in Hut 6 at Bletchley Park

By jessica.duncan | Posted: February 03, 2015





it was ever thus

"a wealth of good manuscripts is still lying hid, ... concealed by neglect"

Erasmus, Adages I 506

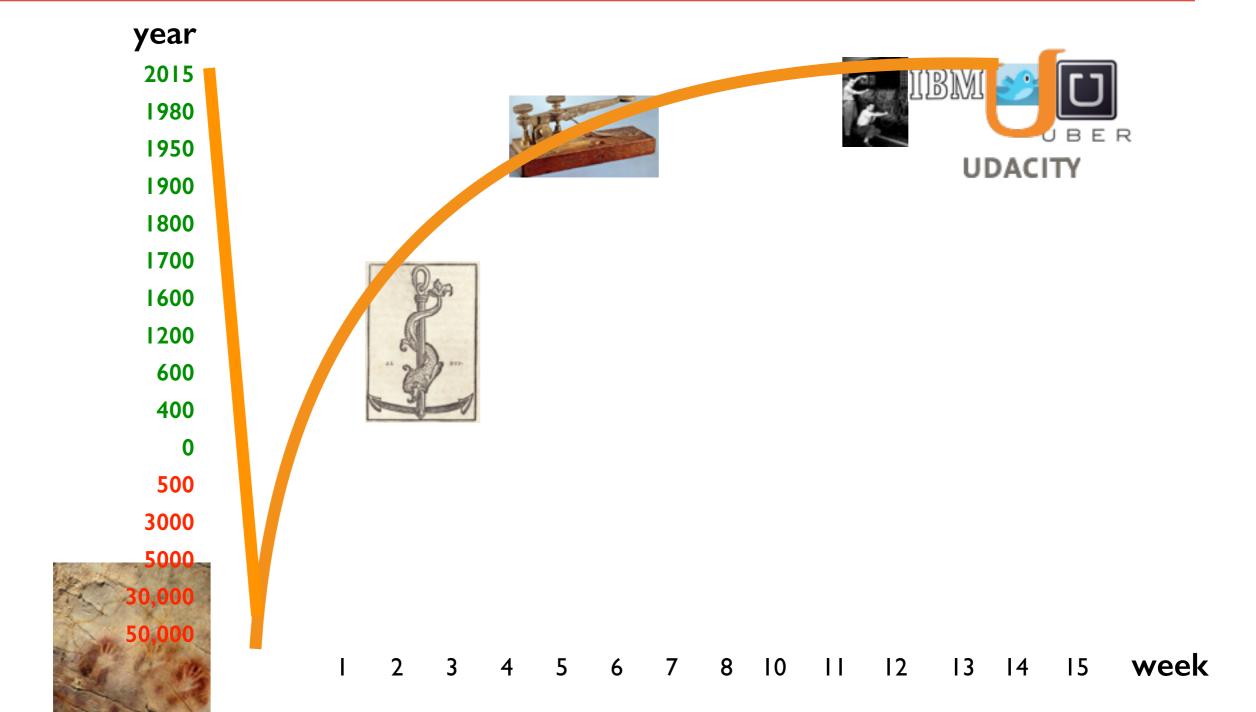
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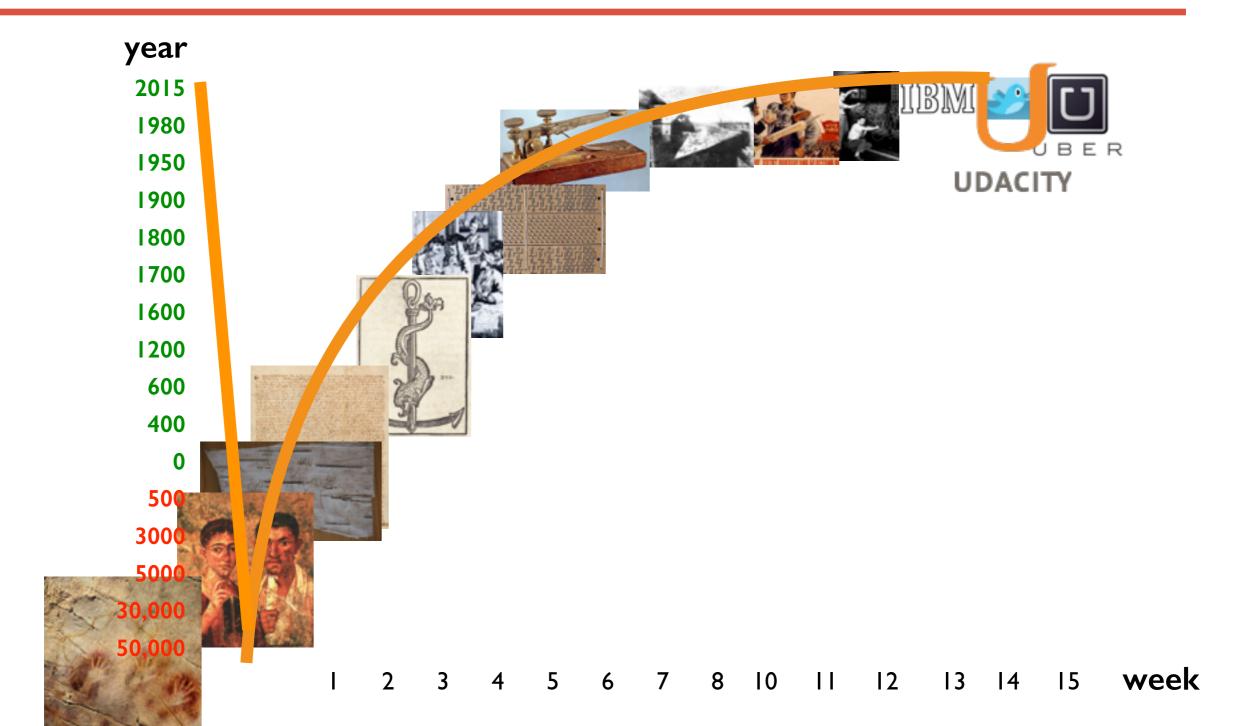
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all you need to know

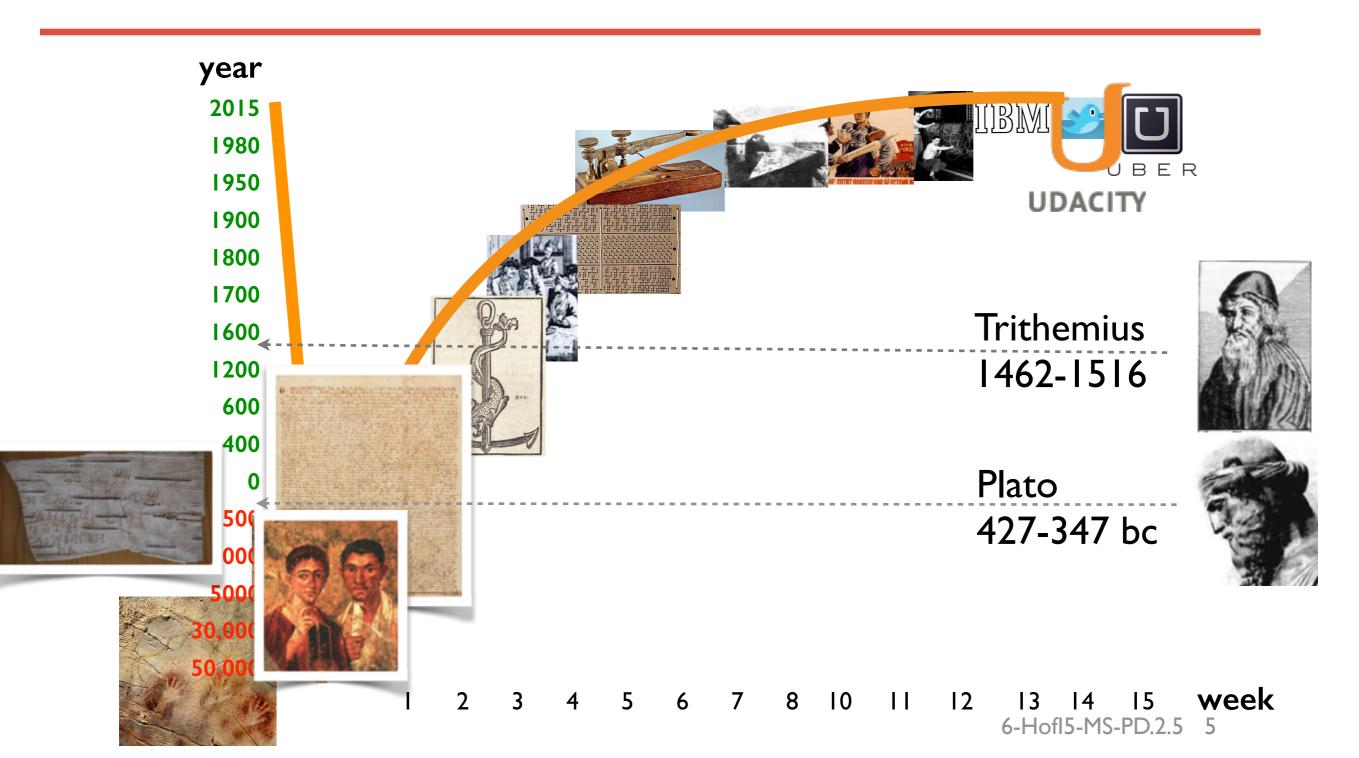


all you need to know



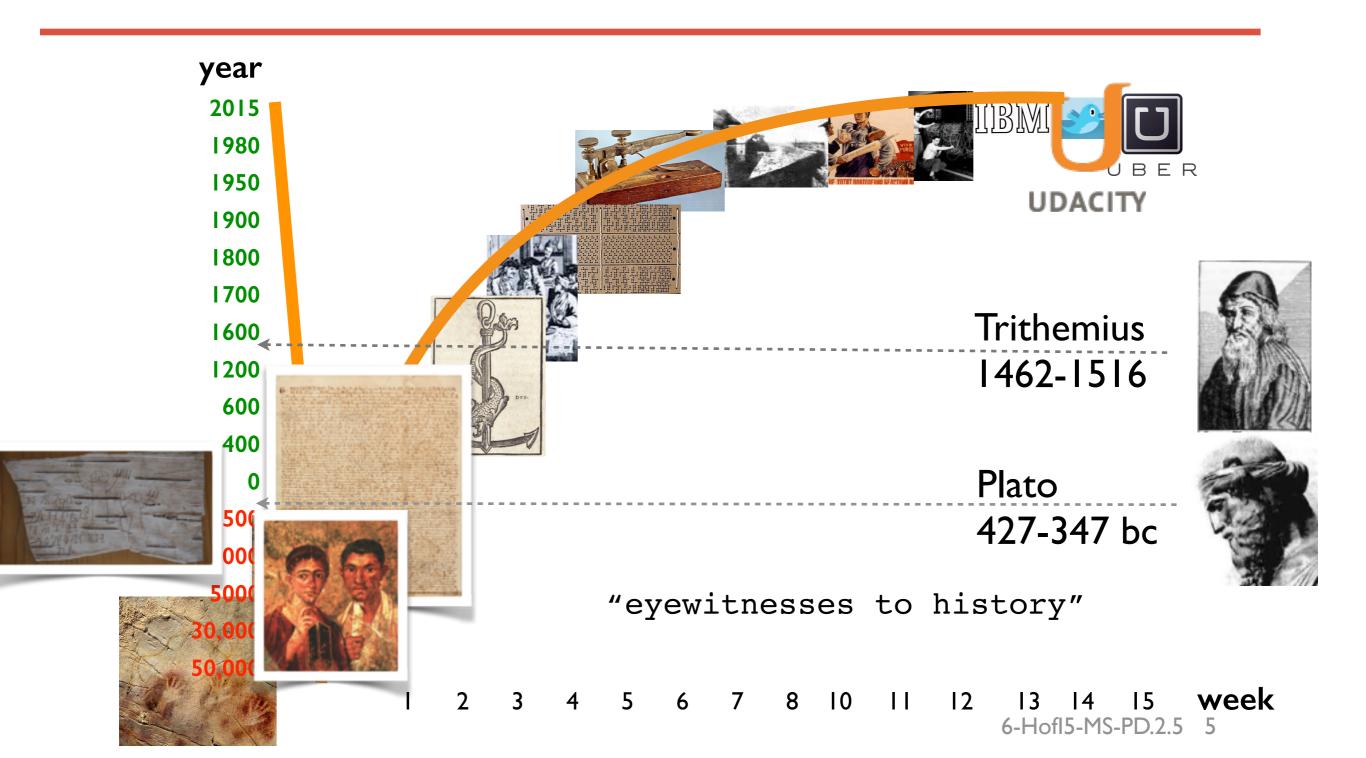


we know better





we know better



"By Plato's time the written word had created a new environment that had begun to detribalize man.

Previously the greeks ... had memorized the poets."

new technologies

how to think about determinism

what happened?

who/what was involved?

what did (or did not) come before?

what did (or did not) follow?

what did (or did not) contribute?

what happened elsewhere?

what's likely to be underestimated?

what was necessary, what sufficient?





overview

unintended consequences

authority

technologies

eyewitnesses





overview

unintended consequences

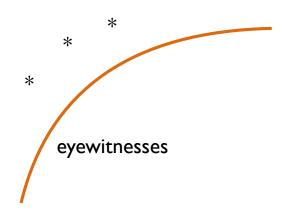
authority

technologies

eyewitnesses







Plato's perspective



what "new technology"?-- writing

cast of characters

Socrates

Phaedrus

Lysias

Thamus

Theuth

Thebes



Socrates' nightmare

By Maryanne Wolf

"Similarly poised between two modes of communication, one oral and one written, Socrates argued against the acquisition of literacy. His arguments are as prescient today as they were futile then."

standard view





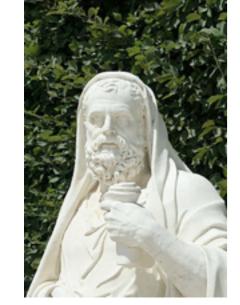
READING IN A DIGITAL WORLD Socrates' nightmare

By Maryanne Wolf

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standard view

Socrates didn't like books



Socrates' nightmare

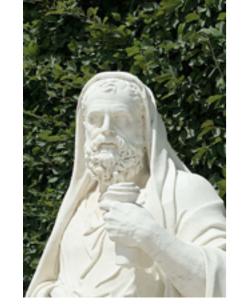
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standard view

Socrates didn't like books

"I am a lover of learning ... Men lead hungry animals by waving a branch or some vegetables before their noses, and it looks as if you will lead me all over Attica and anywhere else you please ... by waving the leaves of a speech [book] in front of me"



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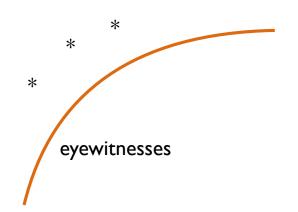
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"Plato ...had such a love of books that he bought three books ... at the price of 10,000 denarii. Aristotle ... acquired a few books for three Attic talents which amounts to 72,000 nummii."

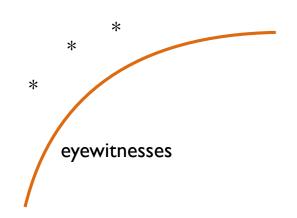


what good is writing?



Theuth: "An accomplishment ... which will improve both the wisdom and the memory of the Egyptians ...

Thamus: "The discoverer of an art is not the best judge of the good or harm which will accrue to those who practice it.



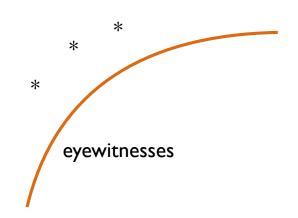
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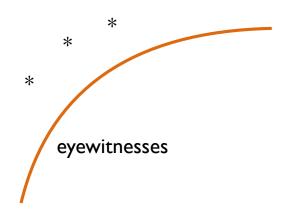
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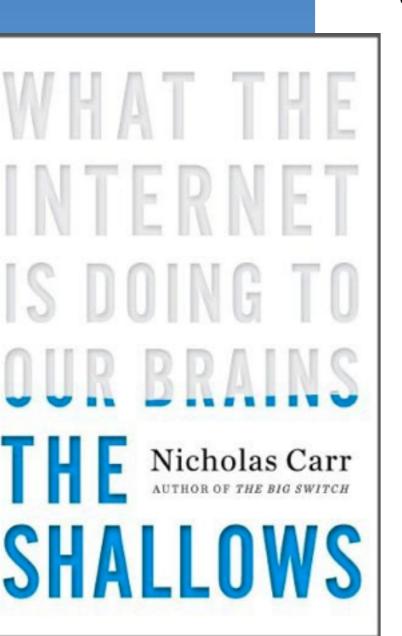
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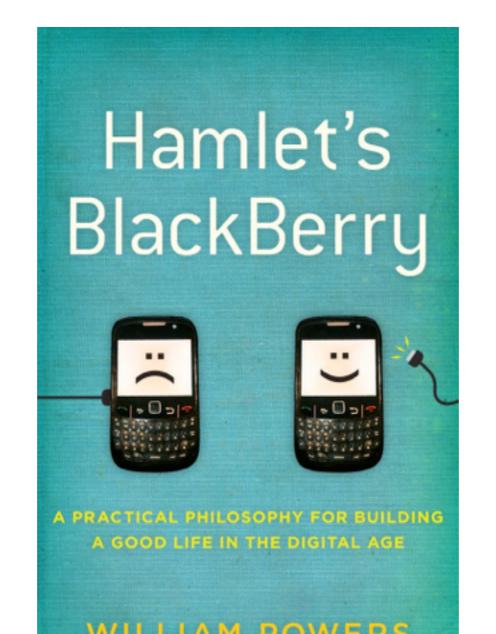
... Those who acquire it will cease to exercise their memory and become forgetful; they will rely on writing to bring things to their remembrance by external signs instead of on their own internal resources."

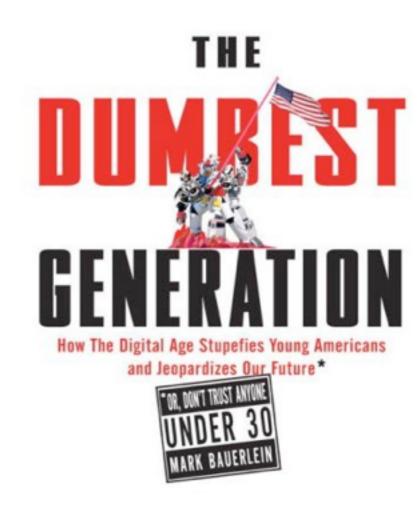


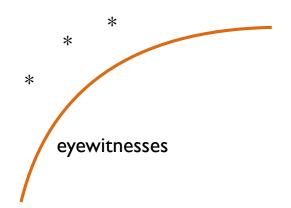
Thamus updated?

generational revolution once more









Nicholas Carr

SHALLOWS

Thamus updated?

generational revolution once more We have outsourced our brains to

Google Peter Bradshaw

The more dependent we become on search engines, the less we can remember as we sleepwalk into an age of bewilderment



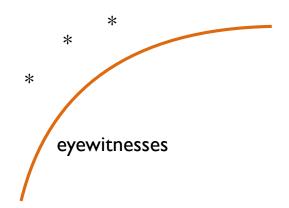
Like many people, I'm prone to taking out my smartphone at any and every opportunity. Photograph: Nicholas Kamm/AFP/Getty Images

Wednesday 4 February 2015 14.23 GMT



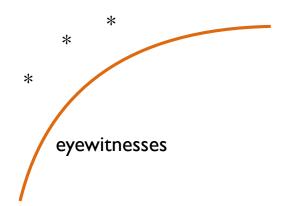
THE

and Jeopardizes Our Future*





Phaedrus





Phaedrus

memory





Phaedrus

memory

speeches





Phaedrus

memory

speeches

rhetoric





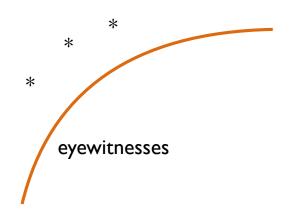
Phaedrus

memory

speeches

rhetoric

sophists





Phaedrus

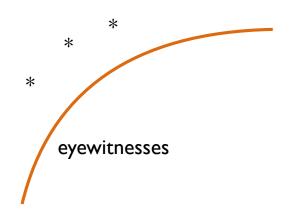
memory

speeches

rhetoric

sophists

writing





Phaedrus

memory

speeches

rhetoric

sophists

writing

wisdom





Phaedrus

memory

speeches

rhetoric

sophists

writing

wisdom

truth [and authority]





Phaedrus

memory

speeches

rhetoric

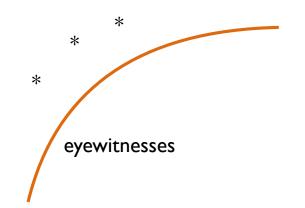
sophists

writing

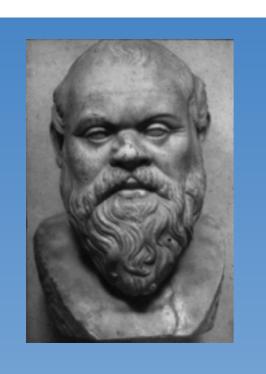
wisdom

truth [and authority]

dialectic

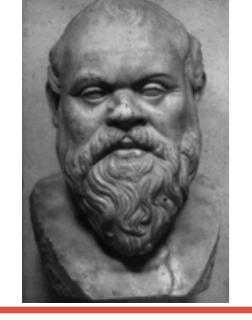


writing vs wisdom



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

"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."



dialectic & truth

"Writing involves a similar disadvantage to painting ... if you ask [words] what they mean ... they simply return the same answer over and over ... writing cannot distinguish between suitable and unsuitable readers ...

"when a man employs the art of dialectic, and, fastening upon a suitable soul, plants and sows in it truths accompanied by knowledge ... such truths can defend themselves ..."

"Written/graven on the soul of the hearer"









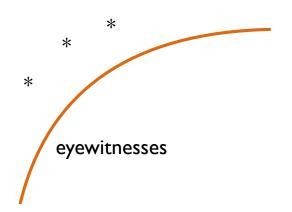






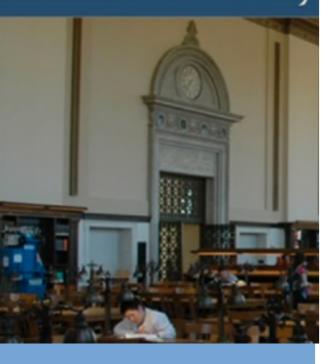
"But though books are easily procured, yet, even in this age of information, there are thousands in the lower classes that cannot read. Besides, it is a well-known truth, that the same precepts inculcated by a living instructor, adorned by a proper oratory, enforced by a serious and authoritative manner,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

— Vicesimus Knox, Essays Moral and Literary, 1778

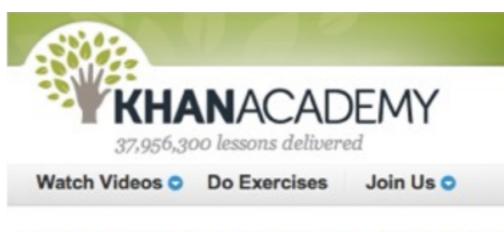


dialectics?

webcast.berkeley



coming up 4/21: social implications "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 <u>open source project</u>—allowing the Khan Academy to become the free classroom for the World

UDACITY

We believe university-level education can be both high quality and low cost eachers to hundreds of thousands of students all over the world.



1

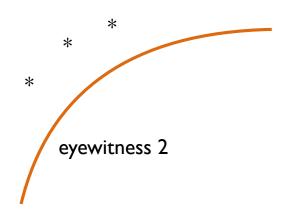
overview

unintended consequences

authority

technologies

eyewitnesses 2



the set up



Trithemius (1462-1516)

native of Trittenheim (B) Abbot of St Martin's, Sponheim (A),1483-1505







Quant consecut at mongchis beryrum feriptin, Quan butunce bute under fit feribere. Now debert a kriptions coffee the maintain type graphian. VIII. De urbegraphia er mode ferdendi, IX. Quid agradum feribendi imperio. X. Quides materias monachi debesor feri Quales material monachi debesat feribere. An diebus feftie lieux trasferibendie librie Vacare !

De déscrimine scriptorum est apulculorum nominabut. XIII. Deinstevender feripeeribus er etw reands. Paramfit commendabilis feriptorum multitude! Decaffalia er munitialiferren babonia

XVI. Exbertational fludium of announfordendorum librarym.

EPISTOLA

IOHANNIS TRITHEMII ABBATIS SPANHE-MENSIS AD DOMINYM GERLACYM ABBATEM



ENEE ABILI & smannfines pairi Domine Corlais de Braidach Ab-beit Teitionfi er diest fants Benedicht, france tehenne de Testembens von atm dibat in Spaniem, combine ordina falseem dy carindom. Cameraper de annals capitule Erfardia solobrais famal reservences de maiofiase diainerum fergiurerum veria innium trailerumen de per sarum filindarem angram enligimem quendam glaridam fueje diceremus : perije ". 4 mr enm muda i ariturii infantie, ve ndi eliquia firiccem, que taet ad 4...

SIMI VIRI, REVERENDIQUE IN CHRI fto parris, domini Iohlmin de Trictenhem Abbacis Span hemenfis, Löber de ecclefiafficis fcripcoribus



lement fanche Romane ecclefie querus
leato Petro(vi quaboldam placet) ordinatus episcopus, natione Romanus, vir fan
chus & deo dilectus, morvem quocy decore
ornatus, cuius vita & passio in feripeuris ec
clefialticin habentar, sedit in pontificara
nouem annis & detem diebus, In existem
profide Christi relegatus animo côstanti,
Obiti anno Traiani Carfaris tertio, domini adicetes moterito, Hicheanissmus mar
tye nonnalias fide & eruditione plenas fertur in persona Romane
ecclefia feriposis e epistolas, De quabus extis percipus
Ad ecclesiam Corinthiorum Epistola via.
Ad facobsi quoqi apostolam Epistola via.
Ad facobsi quoqi apostolam Epistola via.
Here aute duo vleima volumina inter apocryphs cooputantur, ve pa
teta, dista seda va verima volumina inter apocryphs cooputantur, ve pa
teta, dista seda seda passio da da reper, seda pocryphr.

Tonysius Ariopagita Atheniensia, philosophus integnis,
mus (ve quabus dam placet) Atheniensia episcopus ordina
tus est, vir eximise sancturatias & incomparabilis doctrimer, Hunc post decessum apostoloris, beatus Clemens Romane vebu episcopus că Rustico prefbytero & Eleutherio discono ad fidicandă gentus verbă dei miste în Fescan, alioin cius locă ordinato
episcopu. Scripsit autem graco sermone multa praclara opuscula,
De quabus apud lutinos tantum inueni subiecta.

De cerlesti hierarchia

De deuluis nominibus

Lib. I. Sacerdori quadem nsi.

De diuini nominibus

Lib. I. Nuncian vut dei post.

De ecclefiaftica hierarchia. De diuinis nominibus Demystica theologia

lb., val. Omne dată opcimă &. lb.l. Sacerdooi quidem nii. lb.l. Nunciam vir dei poît. lb.l. Teinitm superfishtant.



the standard view?

Trithemius didn't like print



XVI. Exbertational fludium of announfordendorum librarium.

EPISTOLA

XIV. Virun fit commendabilis friquerum multitude! Decastalis or municipality was belonded

IOHANNIS TRITHEMII ABBATIS SPANHE-MENSIS AD DOMINVM GERLACYM ABBATEM TVITIENSIS CANOBIL



ENERABILI & amanifime patri Domine Corlare de Freisbach Ab. There Televen S. or dises fantle Benedicte, france laborate de Testandom, con atm dibat in Spaniem, combine ordina falacem & caritation. Cameraper de consilicapciale Erfardas relebrais famil reservences de maiofiate disinarum feigiurarum varia innium trattaremus de per parum filindarem andram religionem moradem giorielam feefe decremo i perife , à me ann mada caritatic infantie, se mis aliquid feròcume que tast ad a-

SIMI VIRI, REVERENDIQUE IN CHRI fto parris, domini loblinit de Trictenhem Abbacis Span hemendis, Liber de ecclesiaticis scriptoenhus



Lement functar Romanar ecclefar quartus a beato Petros (vt quabufdam placet) ordinarus epifcopus, natione Romanus, vir functus & dec dilectus, morum quo-q decore ornatus, cuias vira & paffio in feripruria ecclefafficia habentur, fedit in pounficarus nouem annis & decrem diebus, In exilium profide Christi refegatus amimo contanti, objetanno Traiani Carfaris tertio, domina afte cirefimotertio. Hichestifimus maria alte cirefimotertio. Hichestifimus mar

ni adecetelimoterrio, Hichearifimos mae

ni alt cétefimoterito. Hicheanifimos mar
tyr nonnullas fide & cruditione plenas fertur in persona Romane
ecclefia feriphife epiftolas, De quibus extât privopus
Ad ecclefiam Corinthiorum Epiftola via.
Ad facobă quoqi apostolum Epiftola via.
Ad facobă quoqi apostolum Epiftola via.
Pratera innerarii vite fase Ibri decem. Cum in vibe Roma.
Item disputationis Petri Ibri vius.
Hec aute duo vleima volumina inter apocrypha coputantur, ve pa
ter, st. dift. Sêcla Romana. Ferunt eius & alix epif, led apocryphir.

Iony fius Ariopagita Athenicula, philosophis integnis,
per bestum Paulum apostolum conuerias ad fidem, primust vi quabuldam placet) Athenicula epifcopos or dina
tus eft, vir eximize fanctitatis & incomparabila doctriniz. Hunc post decessum apostoloră, beatus Clemens Romane viba epifcopus că Rustico perflytero & Eleutherio diaconoad fidcandă genhus verbă dei miste în Felciam, alioin cius locă ordinato
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De ceclefii hierarchia lab. via. Omne dată opeimă &,
De ceclefii hierarchia, lab.t. Sacerdorț quidem niti.

De ecclefiaftica hierarchia. Demystica theologia

lb.vnä. Orme datű optimű &.
lb.t. Sacerdoof quidem nfi.
lb.t. Nunciam vir dei poft,
lb.t. Teinitm superfabilint.



the standard view?

Trithemius didn't like print

"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 books."



XVI. Exbertational fludium of announfordendorum librarium.

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IOHANNIS TRITHEMII ABBATIS SPANHE-MENSIS AD DOMINVM GERLACYM ABBATEM TVITIENSIS CANOBIL



ENER ABILI & amassilims patri Domine Cerlain de Breitlach Ab. bati Tentren Sardinis fantis Benesiciti, frater Ishamur de Testembem Asnine Albert to Spendern, etmalera ordina falarem de caritation. Cameraper de constituepentale Erfandas selebraire famal reserventes de maioficte de inorum fripiarorum varia innium trathorum et per sarum filindarem unfram religionem quindem glaridem fuefa decrema i perifo à me sum muita saritatio inflancia, ve mbi aliquid feròresem que cuer al d-

SIMI VIRI, REVERENDIQUE IN CHRI fto parris, domini loblinin de Trictonhem Abbacis Span hemenfis, Liber de ecclesiaficis scriptoenbus



Lemens fan de Romane ecclefie quertus abeato Petro (vi quibufdam placei) or di-natus epsicopus, natione Romanus, vir fan dus & deo dilectus, morum quo-q decore ornatus, cuias vita & pallio in feripeuris ecclefiafricis habentur, fedit in pontificaru nouem annis & decem diebus, In exiliarus profide Christi rafer any amino collega. profide Christi relegatus animo côstanti, Obije anno Traiani Cerfaris terrio, domi-

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1483: 48 books in monastery library



XVI. Exbertational fludium of announfordendorum librarum.

Farum for commendability ferry to wen multitude! Decafalis or mushicable over belonde

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SIMI VIRI, REVERENDIQUE IN CHRI fto parris, domini loblinin de Trictonhem Abbacis Span hemenfis, Liber de ecclesiaficis scriptoenbus



Lemens fan de Romans ecclefie querus abeato Petro (vi quibofdam places) or disnatus epsicopus, natione Romanus, vie fan clus & deo dilectus, moreum quora decore ornatus, cuias vita & pafilo in feripeuris ecclefiafricis habentur, fedit in pontificaru nouem annis & decem diebus, In exilium profide Christi refer any animo colo periodicaru profide Christi refer any animo colo periodicaru. profide Christi relegatus animo côstanti, Obije anno Traiani Cerfaris terrio, domi-

ni aŭt cetelimotertio, Hicheatifiimos mar

ni alt citefimoterito. Hicbeatifimos mar
tyr nonnullas fide & cruditione plenas fertur in persona Romane
ecclefia feriphife epiftolas, De quibus extit pravopus
Ad ecclefiam Corinthiorum Epiftola vas.
Ad facobi quoqi apostolum Epiftola vas.
Ad facobi quoqi apostolum Epiftola vas.
Praterea itinerarii vita fase Ibri decem. Cum in vrbe Roma.
Item disputationis Petri Ibre vrus.
Hec aute duo vleima volumina inter apocrypha coputantur, ve pa
ter, st. dift. Sēcla Romana. Ferunt eius & alize epif, led apocrypha.

Iony fius Ariopagita Athenicufa, philosophin intignis,
per bescum Paulum apostolum conversa ad fidem, primust ve quibus dam placet). Athenicufa epifcopus or dina
tus eft, vir eximize fanchitatis & incomparabila doctrinar. Hunc post decessium apostoloris, beatus Clemens Romane vrbu epifcopus cu Rustico peri bytero & Eleutherio diacono ad fidicandi genisus verbii dei misti in Festiam, alioin cius locil ordinato
epifcopo. Scriphi autem gracto fermone multa practara opuscula,
De coclesistica hierarchia.

Ib. vas. Omne datii opeimii &,
De ecclesistica hierarchia.

De ecclefiaffica hierarchia, Demystica theologia

lb.vni. Omne datű optimű &.
lb.t. Sacerdoof quidem nfi.
lb.t. Nunciam vir dei poft,
lb.t. Teinitm superfabilint.



the standard view?

Trithemius didn't like print

"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 books."

1483: 48 books in monastery library

1505: 2,000



XVI. Exbertational fludium of announfordendorum librarym.

Param for commendabilis ferry torum multitude! Decaffalia er munitialbroren balonde

EPISTOLA

IOHANNIS TRITHEMII ABBATIS SPANHE-MENSIS AD DOMINVM GERLACYM ABBATEM TVITIENSIS CANOBIL



ENER ABILI & amancilius patri Domine Corlate de Ireitante Abbasi Trassen, or dissi fantis Benedicte, frater tohunner de Trassendom paator Albert in Spendern, numbers or dessi falseres de caritation. Case no. er de annale capitale Erfardas selebrais famil reserventes de maiofiate de narum forginearum varia innium trallaremen de per sarum filindarem aufram enligimem quindem glorisfam fuefe descrepas : persis ; à me sum mada caritain infancie, ve mbi eliquid feròcuem; que eser ad a.

fimi VIRI, REVERENDIQUE IN CHRI fto parris, domini lohinin de Trictonium Abbasis Span humenfis, Liber de ecclesiafticis feriptochus



Lemens fan (Le Romane ecclefie quartus à beato Petro) vi quiboldam placet) or dinatus epoleopus, natione Romanus, vir fan (hus & deo dilectus, morum quo-q decore ornatus, cuins vita & palio in feripeuris ecclefiafticis habenter, fedit in ponuficaru nouem annis & decem diebus. In exclusion profile Cheilit referentes mora effe cheilit profide Christi relegatus animo côstanti, Obije anno Traiani Cefaris terrio, domi-

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lb.vnf. Omne datű optimű &.
lb.L. Szerdoot quidem nfi,
lb.L. Nunciam vir dei polt.
lb.L. Trinitm suprfishtmt.



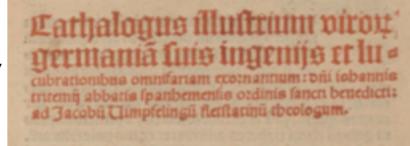
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IMI VIRI, REVERENDIQUE IN CHRI fto parris, domini loh linit de Trictenhem Abbacis Span hemenfis, Liber de ecclefiafticis feriptoeshus



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tye nonnulliss fide & eruditione plenss fertur in persona Romana ecclesia scriptifie epistolas, De quobus exast precopus Ad ecclesiam Corinthiorum Epistola vna.
Ad lacobi quog apostolum Epistola vna.
Ad lacobi quog apostolum Epistola vna.
Libri decem, Cum in vebe Roma.
Licen des soutanionis Porti.

liber vitus.

Here desputations Petri Here auté duo vínima volumina inter apocrypha coputantur, ve pa ter, 15, dift. Se cla Romana, Ferunt elus & aliz epër, led apocryphr, Ionyfius Ariopagita Athenienis, philosophus intignis, per beacum Paulum apost olum conversas ad tidem, primus(vt quibusidam placet) Athensensis epikopos ordina tus est, vir eximize sanchitats & incomparabilis doctri-nar, Hunc post decessium apostolorii, beatus Clemens Romane ve-bis episcopus că Rustico pees bytero & Eleustierio diacono ad fidi-candă gentus verbă dei mist ia Fesciam, alioin cius locă ordinate o. Scripfit autem graco fermone multa practara opufcula, un apud latinos tantum inueni fubiecta.

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lib. vnd, Omne dată optimă &.
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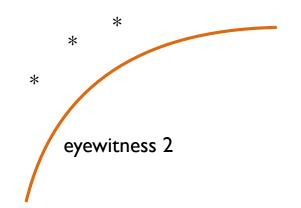
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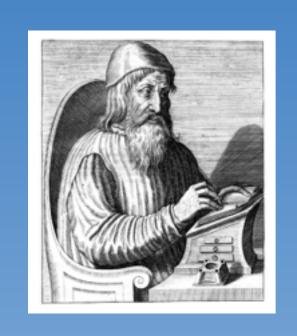
1505: 2,000



Catalogus Illustrium Virorum Germaniae, 1495 "probably the first printed bibliography on secular subjects."



opposite views?



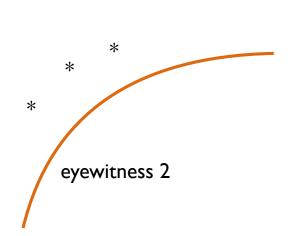
reading between the lines

contemplation, manual labor, preaching

VS

scribal practice - learning through writing

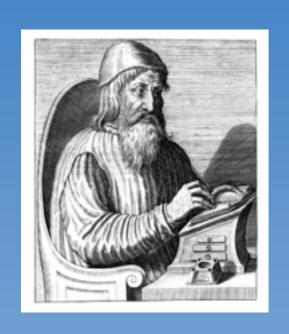
"The dedicated and sincere scribe ... will not receive less than the preacher"





Socrates vs Trithemius?

opposite views?



reading between the lines

contemplation, manual labor, preaching

VS

scribal practice - learning through writing

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







external battles

from monastery to 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







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[but

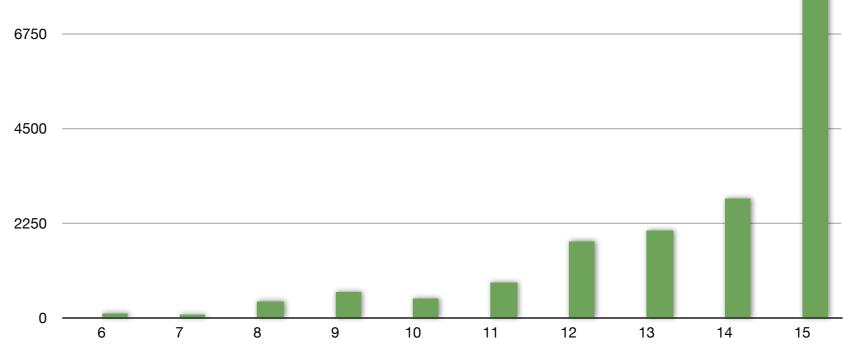
"We owe to the holdings amassed in ... monasteries most of what has survived of the writings in Latin and Greek"]



rising demand, but ...







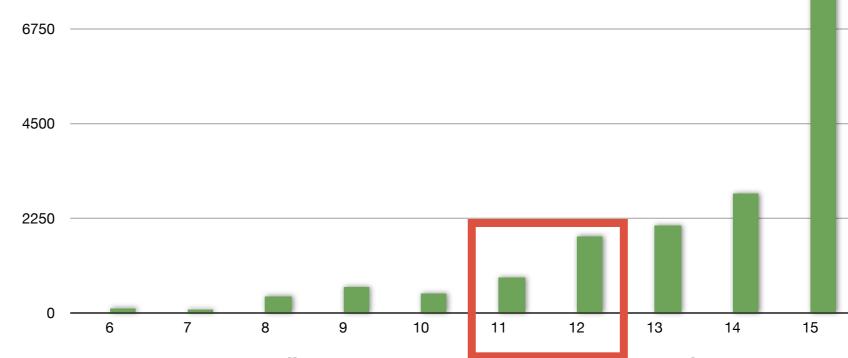
Buringh & van Zanden, "Charting the 'Rise of the West': Manuscripts and Printed Books in Europe" Journal of Economic History 2009



rising demand, but ...



Manuscript Production in Europe, 6th-15th century



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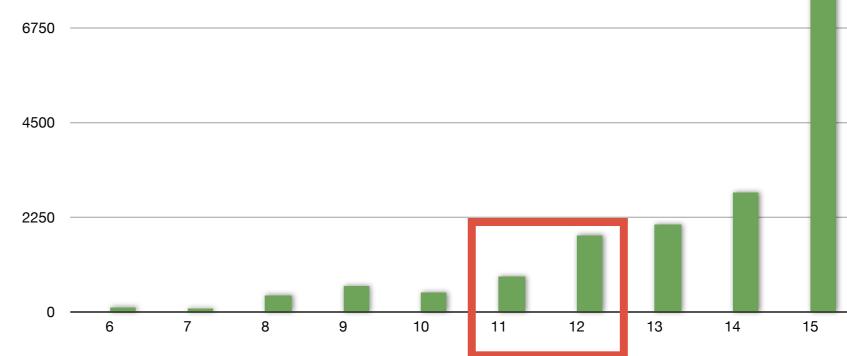
Monks "are so detested that it is considered bad luck if one crosses your path"

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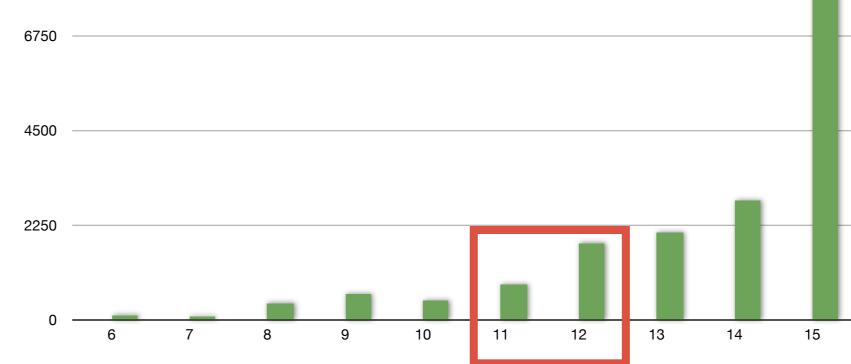
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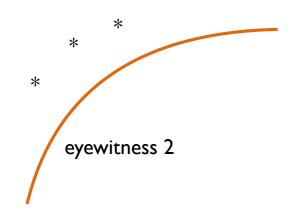
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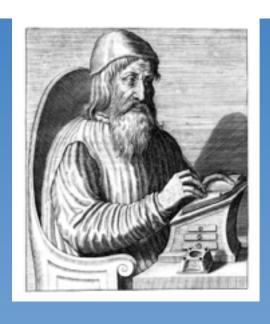
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"By 1200 most scribes were professionals instead of being monks"

— Michael Clanchy, "Parchment and Paper," 2008

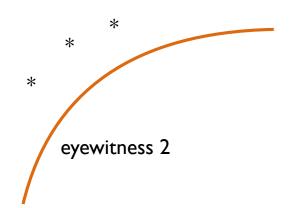


other concerns

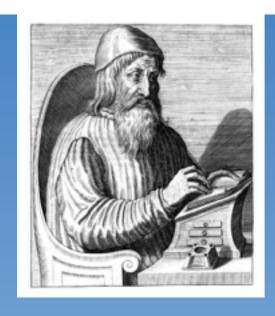


a reasonable lament?

"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."



other concerns



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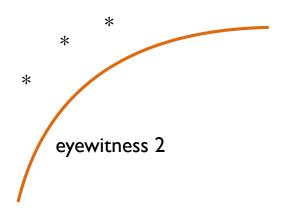
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Hofl5-MS-PD.2.5 23

Fire at a Brooklyn Warehouse Puts Private Lives on Display



how long?

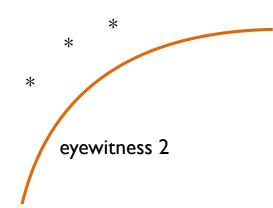
Happy Anniversary



Magna Carta June 15,1215

magna carta?





"No freeman shall be taken, imprisoned, disseised, outlawed, banished, or in any way destroyed, nor will We proceed against or prosecute him, except by the lawful judgment of his peers or by the law of the land. ... To no one will We sell, to no one will We deny or delay, right or justice."

how long?

Happy Anniversary



Magna Carta
June 15,1215

magna carta?



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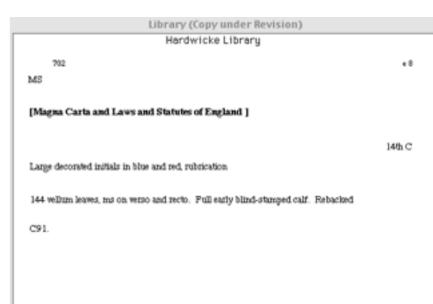
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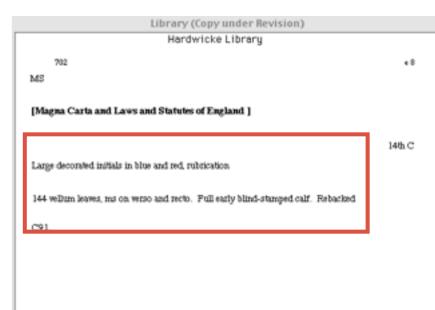


magna carta?



Magna Carta June 15,1215

or magna curta?





overview

unintended consequences

authority

technologies

eyewitnesses



overview

unintended consequences

authority

technologies

eyewitnesses









Bullae and tokens

Early cunieform material matters

not just Havelock's alphabet?

stone

clay

wood

wax

parchment/vellum

papyrus

palm

bamboo

silk

paper

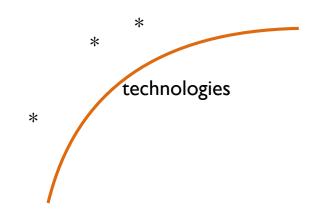
ink











ink (and bark)

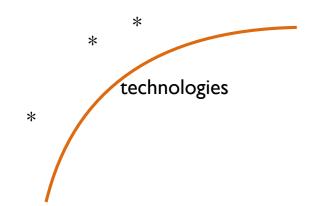


Vindolanda (Hadrian's Wall) 1-2 cent. CE



let's have a party

Claudia Severa to her Lepidina greetings. On 11 September, sister, for the day of the celebration of my birthday, I give you a warm invitation to make sure that you come to us, to make the day more enjoyable for me by your arrival, if you are present (?). Give my greetings to your Cerialis. My Aelius and my little son send him (?) their greetings. I shall expect you, sister. Farewell, my dearest soul, as I hope to prosper, and hail. To Sulpicia Lepidina, wife of Cerialis, from Severa."



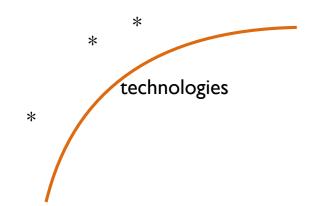
material changes



geographical determinism?

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



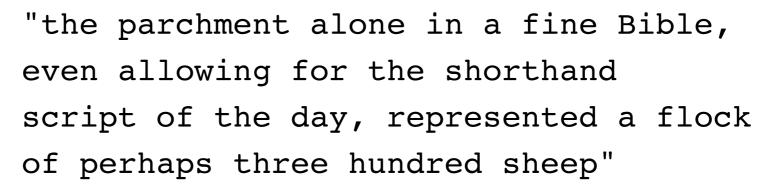


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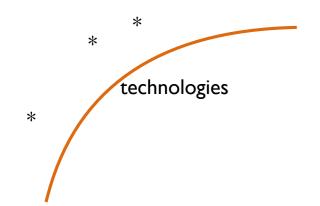


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-- John North, God's Clockmaker, 2005



material changes



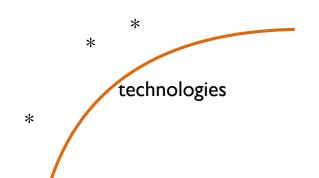
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"the parchment alone in a fine Bible, even allowing for the shorthand script of the day, represented a flock of perhaps three hundred sheep"

paper

-- John North, God's Clockmaker, 2005



technological leaders?



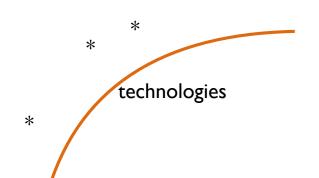
Ts'ai Lun 62-121

paper

China, 200 bce
Korea, 3d century ce
India, 5th century
Japan, early 7th century
Islam, 8th century
Jews, 10th century

Byzantium, 9th century

-along the "Silk Road"



technological leaders?



Ts'ai Lun 62-121

paper

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-along the "Silk Road"

w. Europe:

Spain, 1056 [?]

Italy, 1255

France, 1348

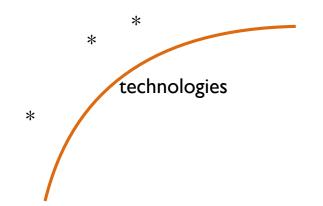
Germany, 1390

Switzerland, 1411

Britain, 1494

Russia, 1690

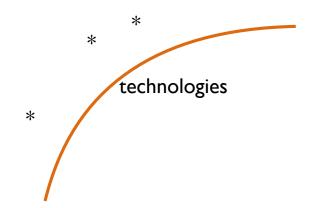
USA, 1690/I



"dark ages"

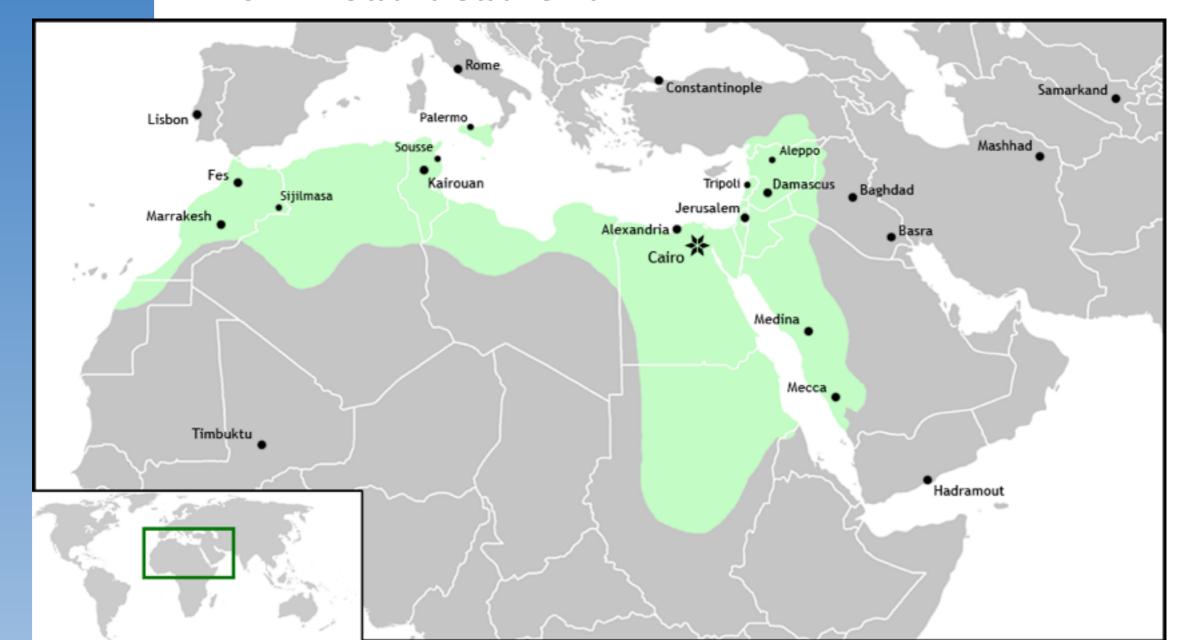
silk road dead end

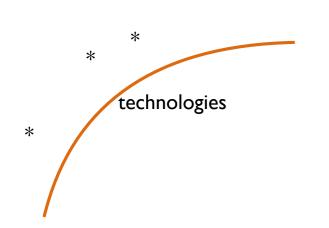




"dark ages"

silk road dead end

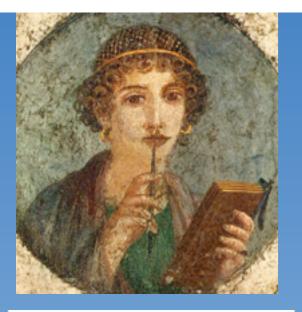


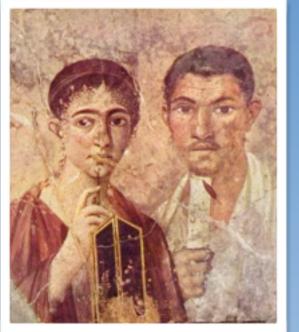






missing "revolution"?





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

"Homerus ... Vergilius ... Cicero ... Titus Livy ... in membranus...quam brevis immensum cepit membrana"

—Martial (c38-103), Epigrams

"the pugillares"

--Knox





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





formal changes

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Korea, 3d century

India, 5th century

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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, 9th (butterfly)

13th (thread binding)

Korea, ?12th century (sutra binding)

Japan 18th century





formal changes

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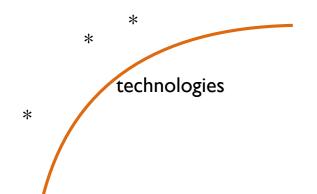
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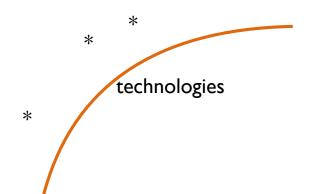
Japan 18th century

in reverse along the "Silk Road"?





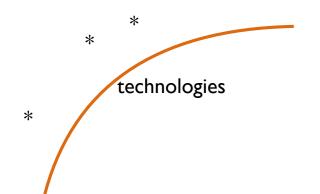








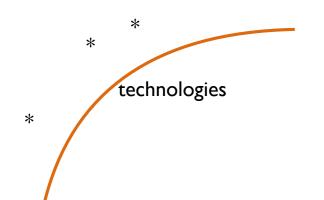
order of importance?





order of importance?

pagination





order of importance?

pagination

marginalia



* technologies *

codex - superior technology?



order of importance?

pagination

marginalia

footnotes

* technologies *

codex - superior technology?



order of importance?

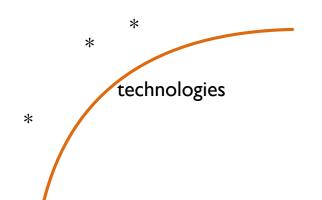
pagination

marginalia

footnotes

indexes







order of importance?

pagination

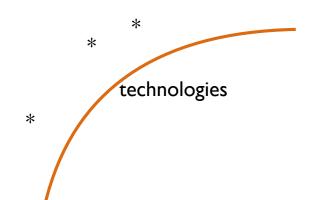
marginalia

footnotes

indexes

one handed







order of importance?

pagination

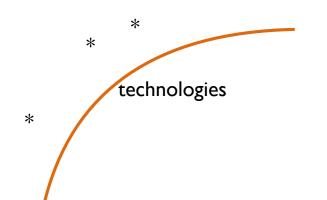
marginalia

footnotes

indexes

one handed

two-sided





order of importance?

pagination

marginalia

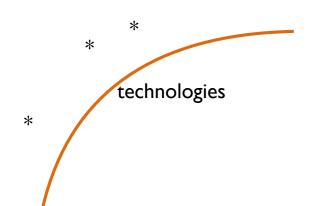
footnotes

indexes

one handed

two-sided

random access





order of importance?

pagination

marginalia

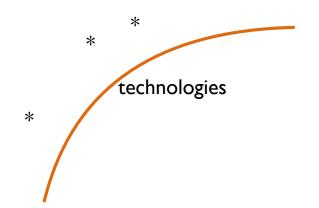
footnotes

indexes

one handed

two-sided

random access



trivializing the past?





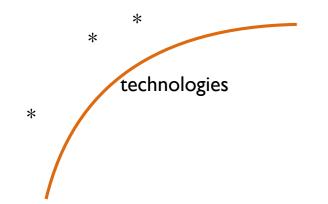
Edwin Smith
Papyrus
c. 1600 ce
NY Academy of Medicine

handy pages divisions

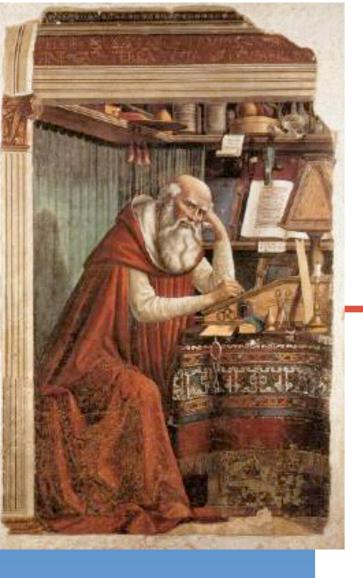
(incipits, explicits, colophons, sillyboi)



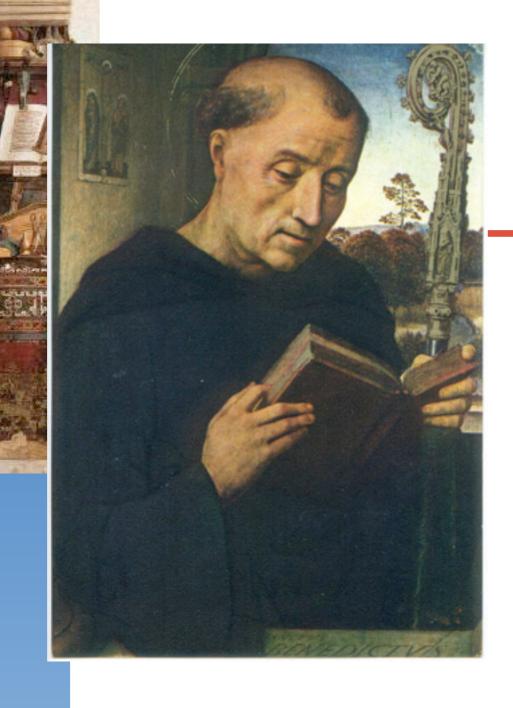




technological triumph?



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."

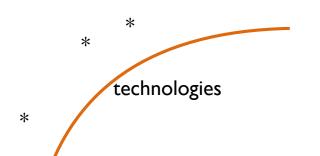
-Guglielmo Cavallo, "Du Volumen au Codex," 1997

"[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

"[A Jew] took an oath 'on his roll' ... whereas a Christian swore on the book of the Gospel."

-Michael Clanchy, From Memory to Written Record,"1993



what does this say of ...?

"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 ..."

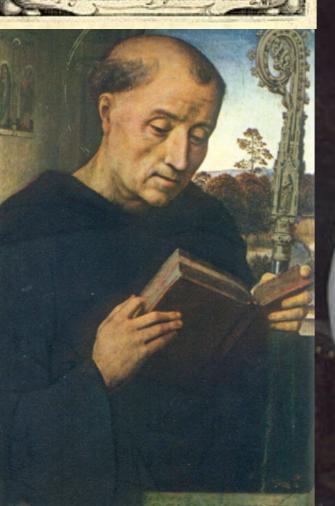


- Frederick Kilgour, The Evolution of the Book, 1998



critical advantage?

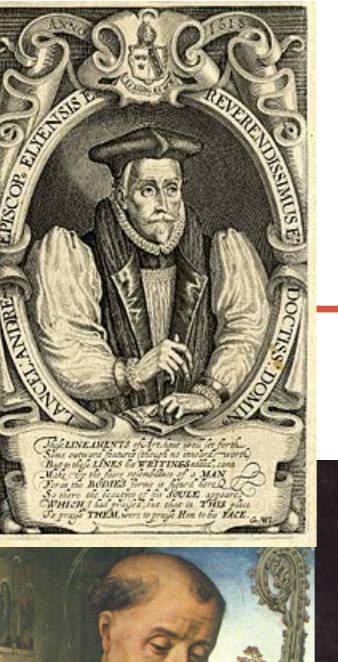
knowing your place?















meanwhile ...

to the manor born

Earl's Court Manor Roll, 1554—enrolled, roll call



"Why medieval England ... kept its records predominantly in rolls remains a mystery."

—Clanchy, From Memory to Written Record, 1993



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eyewitnesses



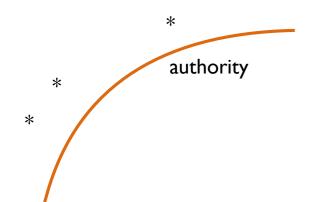
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written receipts

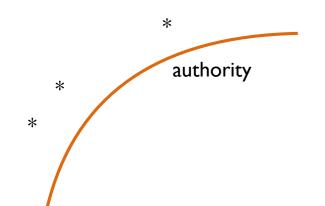


"The oldest writings to survive to our time were inscribed five thousand years ago by temple bureaucrats recording economic transactions ... crops, animals, manufactured goods"

-- 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

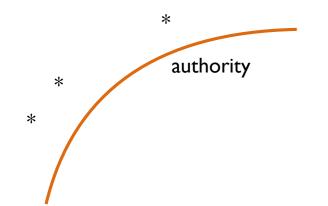


sounding like Socrates?

Hadith & Isnäd

"documenting the authenticity of all transmission of knowledge ... truth does not reside in documents, however authentic, ancient, or well-preserved, but in authentic human beings ... Documents alone, without a line of persons possessed of both knowledge and righteousness ... are useless ... a book ... of no use without ... certification of master"

—Graham, "Traditionalism in Islam," 1993



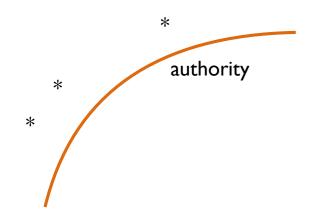
truthiness

documentary problems

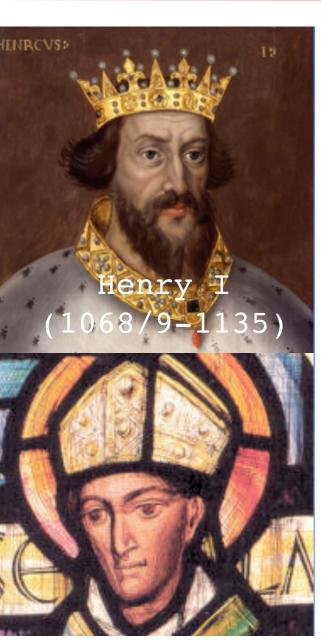
"If you ask [documents] what they mean ... they simply return the same answer over and over again ..."

"Truth is not enough for you; you think it matters who the speaker is and where he comes from. ... "

--Phaedrus



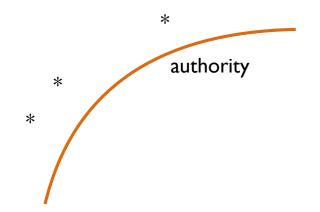
what/who to trust?



St Anselm (1033-1109)

Henry I vs Anselm

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

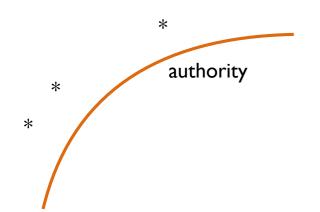


trustworthy?

donations of Constantine (c. 750-800)



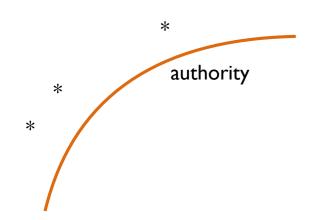
forgery recognized by Nicholas of Cusa, 1565



medieval contracts

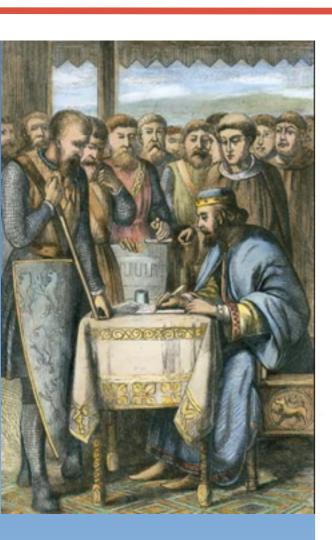
medieval contracts





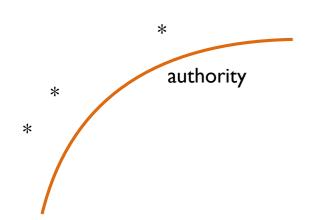


medieval contracts



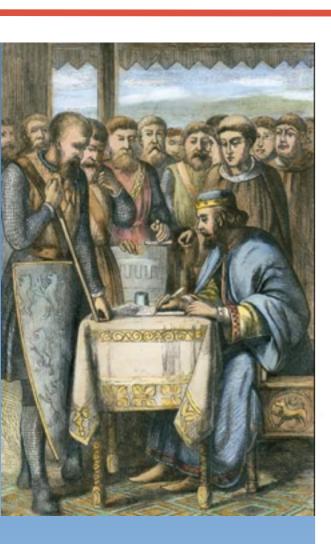
medieval contracts







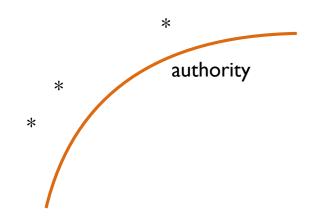
medieval contracts



medieval contracts





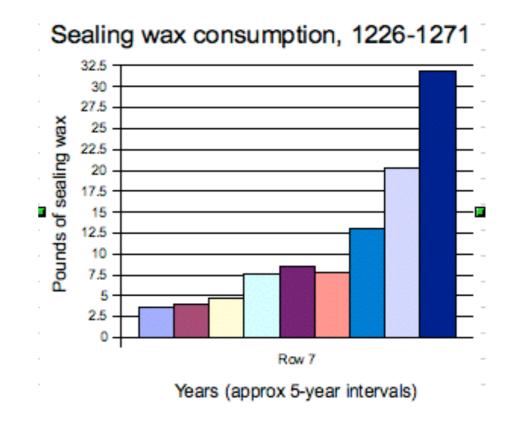


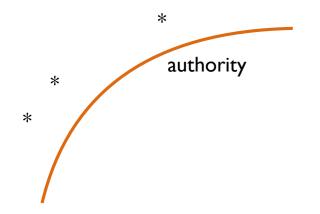
sealing the deal

icon/index/symbol



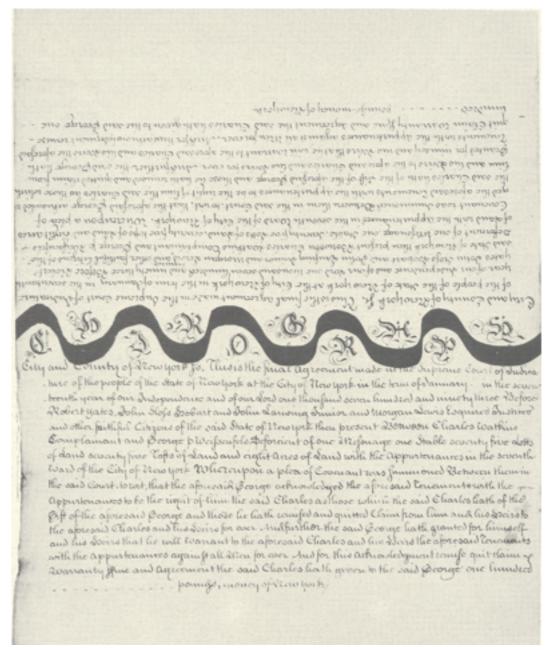


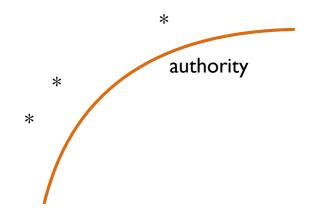




not just mediaeval

chirograph

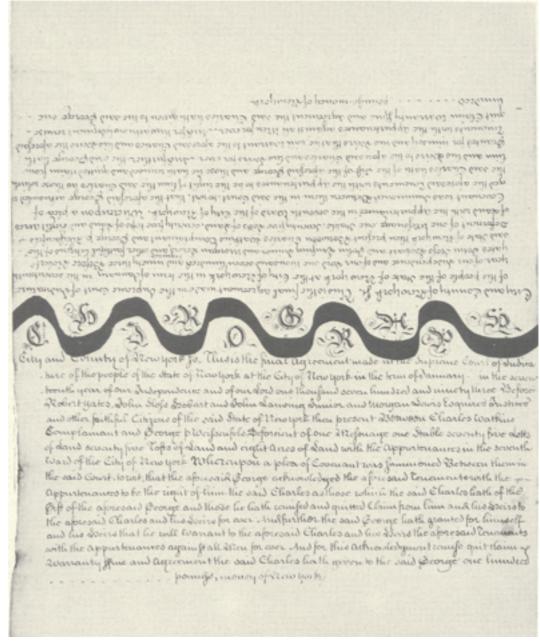


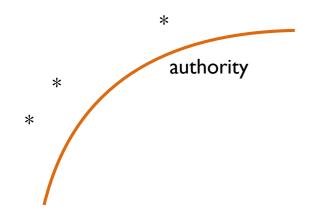


not just mediaeval

"Fine and Recovery: Conveyance of property, 7th Ward NYC, 1793

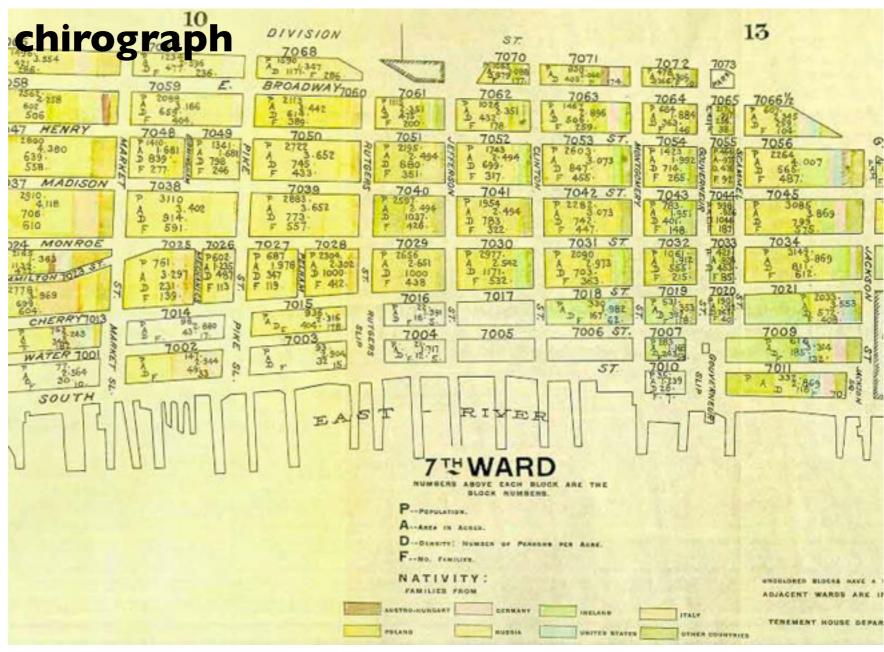
chirograph

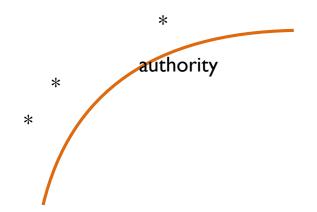




not just mediaeval

"Fine and Recovery: Conveyance of property, 7th Ward NYC, 1793





documenting ownership

Buri Buri land grant 1827-1872

Title:

[Diseño del Rancho Buri Buri : San Mateo Co., Calif.]

Description:

4362 B84On verso: Deposited ... November 30th, 1860. From: U.S. District Court. California, Northern District. Land Case 101 ND, page 481; land case map D-231 (Bancroft Library). José de la Cruz Sanchez, clmt. Penand-ink and watercolor. Relief shown by shading.

Creator/Contributor:

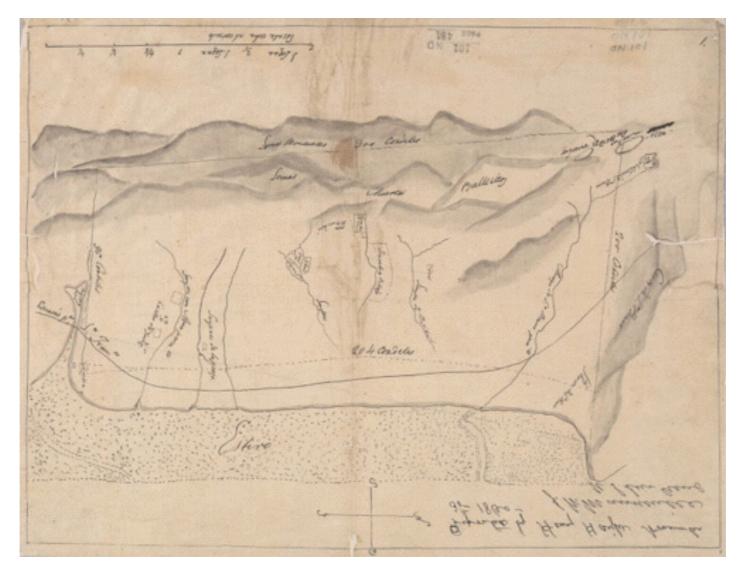
United States. District Court (California: Northern District). Land case. 101, Related Name Indexing Term

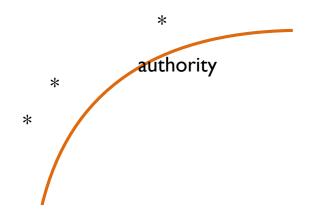
Date:

1860

Contributing Institution:

UC Berkeley, Bancroft Library





documenting ownership

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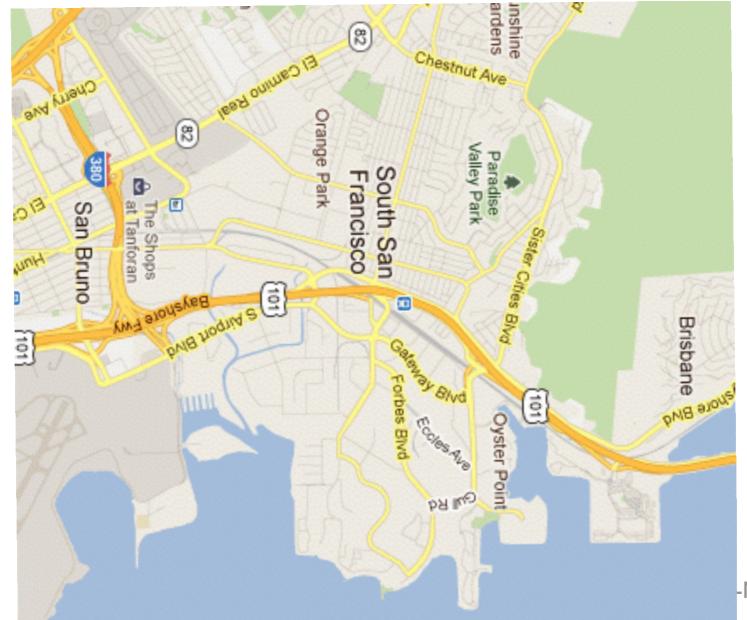
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overview

unintended consequences

authority

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eyewitnesses



Discovered as a possibility, television ...

(v)... had unforeseen consequences



overview

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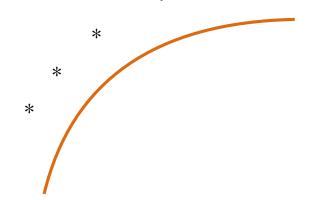
unintended consequences

quo warranto? — the true forgery?

"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."

-Clanchy, From Memory to Written Record

unintended consequences



science of diplomatics



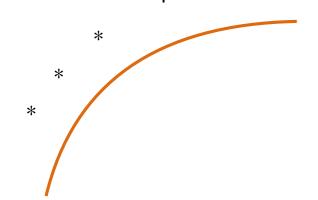
Jean Mabillon (1632-1707)

De Re Diplomatica, 1681

"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

unintended consequences



from authority to ...

a guide to forgery

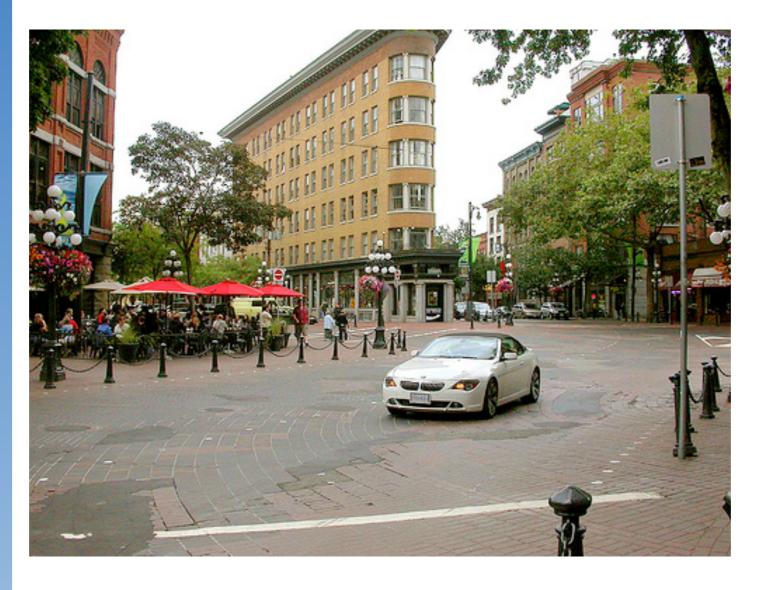
Mabillon "had exposed the fabricated charters of the Carmelite Father Andrew, in a model memorandum which later fell into the forger's hand, and was taken by him to heart with such good effect that he was able with a subsequent fabrication to have his revenge by planting one of his forgeries ... on Mabillon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

-David Knowles

"At first, the team deemed it a breakthrough for fertility, not birth control."

goodheart's law

moral hazard



"At first, the team deemed it a breakthrough for fertility, not birth control."



goodheart's law

moral hazard





"this will kill that"?

manuscript after print

accounting

music

note taking

personal communication

"subversive forms"









a real "revolution" at last?



and so to Gutenberg

WEEK 4

10 Feb: Print "Revolution"

Required Readings

Erasmus, Desiderius. 2001 [1506], The Adages of Erasmus. William Barker (ed.). Toronto: University of Toronto Press.

Read: "Festina Lente" (Adage III.1) pp. 132-153.

Source: Will be scanned and posted to bCourses.

"How Luther Went Viral", Economist, 2011, Dec 17.

Source: economist.com [hyperlink ≥]

Additional Materials

Listen to Economist discussion at the same link.

Johann Froben's dove and serpents



FRO



assignment



The print "revolution" is said to have transformed scholarship, science, religion, and politics almost instantaneously. Choose one and argue whether the argument in "Festina Lente," Erasmus's early discussion of printing and the great printer Aldus Manutius, backs the claim of transformation and whether Erasmus thereby manages to dismiss the concerns of Socrates or Trithemius?



assignment



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