unnoticed revolutions?

time and money

History of information
Tuesday
Feb 25, 2014

Anno Regni A N N Æ

R E G I N Æ
Magna Britannia, Francia, & Hibernia,
DUODECIMO.

At the Parliament Summoned to be Held at Westminfler, the Twelfth Day of November, Anno Dom. 1713. In the Twelfth Year of the Reign of our Sovereign Lady ANNE, by the Grace of God, of Great Britain, France, and Ireland, Queen, Desender of the Faith, &c.

And by feveral Writs of Prorogation Begun and Holden on the Sixteenth Day of Friendy, 1713. Being the First Session of this present Parliament.



LONDON,

Printed by John Baskett, Printer to the Queens most Excellent Majesty, And by the Assigns of Thomas Newcomb, and Henry Hills, deceased. 1714.

	£ 10
1827 auonat £ KJ	1527 Carried up 484 1 11
Juit. Bitty Earner _ 1	21 har hatte white
4 Children's books 106.	total dischertibration to
5 Placed in The 3 fi Center 300 .	Solved of in the tighterinate 1 :
h Thackongies account 69 19	24 Pauli (Farries) 15.
- Lewis for a Shout 11.	Brown (worked Info) 2 12.
8: Males for Charities 416	Rubil # / rigg (CAL) 2 10.
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	mil me man e
Whater act of 1826 42	
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Howele Ljames - 16 6.	9 Truger friend society 5
Herry 17 1. Howard 3 17.	I dank all h I d
thery - 12.	Cath a way you con the
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Advice to a young Tradesman, written by an old One. To my Friend A. B.

As you have defired it of me, I write the following Hints, which have been of Service to me, and may, if observed, he so to you.

EMEMBER that TIME is Money. He that can earn Ten Shillings a Day by his Labour, and goes abroad, or fits idle one Half of that Day, tho' he spends but Six-pence during his Diversion or Idleness, ought not to reckon that the only Expence; he has really spent, or rather thrown away Five Shillings besides.

History of information Tuesday Feb 25, 2014

what day?

All a Tiwitter?

tuesday: Originally cognate with or formed similarly to Old Frisian tīesdei, ... the genitive of the Germanic base of the name of (the god) Tiw

mardi dienstag terça-feira मगलवार 星期二 火曜日 יום שלישי

History of information Tuesday Feb 25, 2014

feverish dates?

pure and simple?

```
purification Anglo-Norman
feverer , feverrer ,
feveryer, feverzere ,
feverell , februer ,
februare, februarie , etc., ...
means of purification,
expiatory offerings, of
uncertain origin
```

février [ventôse]

Februar

feverio

Phalguna 6

18 Bing-Yin

Adar I 25

Rabi I ath-Thani 24

Esfand 6



History of information Tuesday Feb 25, 2014

happy 5 times a year?

4712 - Chinese

New Year: Jan 31 (horse)

1392 - Persian

New Year: March 20 (04:03:13 am)

5774 - Jewish

New Year: September 25

1435 - Islamic

New Year: October 24

when are we?







chnology Quarterly: Q1 2012 +

he quantified self

Counting every moment

chnology and health: Measuring your everyday activities can help improve your quality file, according to aficionados of "self-tracking"

ar 3rd 2012 | From the print edition

HE idea of measuring things to chart rogress towards a goal is commonplace in rge organisations. Governments tot up ade figures, hospital waiting times and cam results; companies measure their mover, profits and inventory. But the use metrics by individuals is rather less idespread, with the notable exceptions of exple who are trying to lose weight or approve their fitness. Most people do not utinely record their moods, sleeping atterns or activity levels, track how much cohol or caffeine they drink or chart how



"My pulse, as yours, doth temperately keep time" —Hamlet

running on time

the quantified self



reading

Fisherites:

Gabriel Freeman

Elise Tam Cooc

Neither/both

George Mulcaire

Ciara Crowley

Thompsonites

Helen Oliver

Vandana Pai

overview

why

fighting time

technologies of time

time control

reading response

accounting

balancing

please watch your word count

putting the other "Rs" in their place

"The Scientific Revolution outshines
everything since the rise of Christianity and
reduces the Renaissance and Reformation to the
rank of mere episodes, mere internal
displacements within the system of medieval
Christianity."

— Herbert Butterfield, The Origins of Modern Science, 1300-1800, 1948

key machines

fighting time technologies of time time control

"It is commonplace that the years between 1300 and 1650 saw within the intellectual culture of Western Europe important changes in the apprehension of time."

E.P.Thompson



"The clock, not the steam engine, is the key machine of the modern industrial age ... even today no other machine is ubiquitous."

—Lewis Mumford, Technics & Civilization, 1934

putting the other "Rs" in their place

"The Scientific Revolution outshines
everything since the rise of Christianity and
reduces the Renaissance and Reformation to the
rank of mere episodes, mere internal
displacements within the system of medieval
Christianity."

— Herbert Butterfield, The Origins of Modern Science, 1300-1800, 1948

accounting for time

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1827 Recent # # A J 837 Carried of 404 1 11

Lat. 1. Billy Earner - 1 ...
4 Children's books 106.
5 Placed in The 5/1 Cate 308.
- It hackeozie's account 69 19
- dearis for a Shoot - 1 1.
8 Malea for Charities 4 16
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Stables of Prince (and 21/6)
Modykourse tolk 22 16.
Stables of Prince (and 21/6)
Modykourse tolk 22 16.
Stables of Prince (and 21/6)
Modykourse tolk 22 16.
Modykourse tolk 23 17.
Modern for type f
```

"Then, between ... 1275 and 1325 ... Europe's first mechanical clock and canon ... marine charts, perspective painting ... and double-entry bookkeeping ... decades unmatched in their radical changes in perception until the era of Einstein ... In the past seven centuries bookkeeping has done more to change the perceptions of more bright minds than any single innovation in philosophy or science."

—Alfred Crosby, The Measure of Reality, 1997

time and money

"Time is money"

Advice to a young Tradesman, written by an old One. To my Friend A. B.

As you have defired it of me, I write the following Hints, which have been of Service to me, and may, if observed, he so to you.

Shillings a Day by his Labour, and goes abroad, or fits idle one Half of that Day, tho' he spends but Six-pence during his Diversion or Idleness, ought not to reckon that the only Expence; he has really spent, or rather thrown away Five Shillings besides.

INSTRUCTOR:

Young Man's Best Companion.

Spelling, Reading, Writing, and Arithmetick, in an easier Way than any yet published; and how to qualify any Person for Business, without the Help of a Master.

#instructions to write Variety of Hands, with Copies both in Profe and Verse. How to write Letters on Bafiness or Friendship. Forms of Indentures, Bonds, Bills of Receipts, Wills, Leases, Releases, &c.

Alfo Merchants Accompts, and a fhort and easy Method of Shop and Book-keeping; with a Defeription of the several American Colonies.

Together with the Carpenter's Plain and Exact Rule: Shew ing how to measure Carpenters, Joseph Sonogers, Bricklayers, Planferers, Planhers, Majons, Glahers, and Painters Work. How! undertake each Work, and at what Price; the Rates of each Commodity, and the common Wages of Journeymen; with Gunter's Line, and Coggeful's Description of the Sliding Rule.

Likewife the PRACTICAL GAUGER made Easy; the Ar:
of Dialling, and how to even and fix any Dial; with Instructions for
Dying, Colouring, and making Colours.

To which is added,

The Poor PLANTERS PHYSICIAN.

With Instructions for Marking on Linnen; how to Pickle and Preferee; to make divers Sorts of Wine; and many encellers Plaisters, and Medicines, necessary in all Families.

And alfo

Prudent Advice to young Tradefmen and Dealers.

The whole better adapted to these American Colonies, then?

any other Book of the like Kind.

By GEORGE FISHER, Accompant.

The Ninth Edition Revised and Correlted.

D. Hall, at the New-Printing-Office, in Market-Street, 1748.



"Hear it not, Duncan, for it is a knell That summons thee to Heaven or to Hell"

—Macbeth

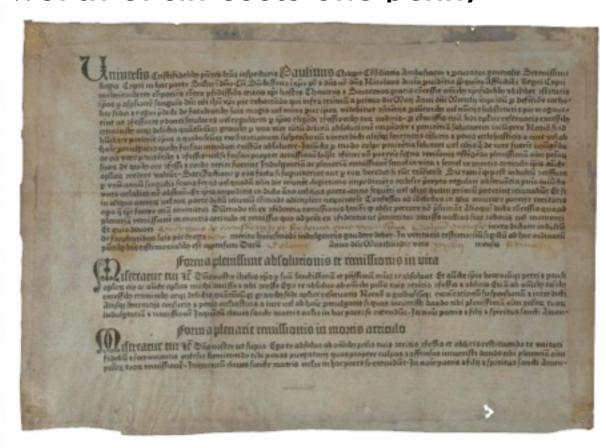
a western indulgence



Pope Clement V 1260-1314

time, money, and eternity

I 309: An indulgence to pardon a year's worth of sin costs one penny







"'Merchant's time' which Jacques Le Goff ... opposed to the time of the medieval church." --Thompson

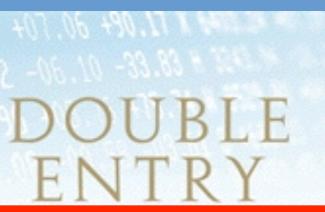
accounting shift

"ceci tuera cela"

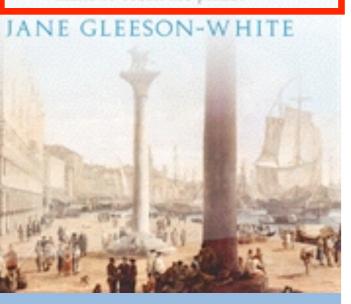
"The Palace of the Bourse [stock exchange] ... The architecture of a building should be adapted to its function. As for the function ... it fills that to perfection: it is a stock exchange in France just as it would have been a temple in Greece ... on days of high religious solemnity, the theory of stockbrokers and jobbers can be majestically expounded"

—Victor Hugo, Notre Dame de Paris, 1831

real determinism?



How the merchants of Venice shaped the modern world and how their invention could make or break the planet



Max Weber (1864-1920) 'Protestant ethic'

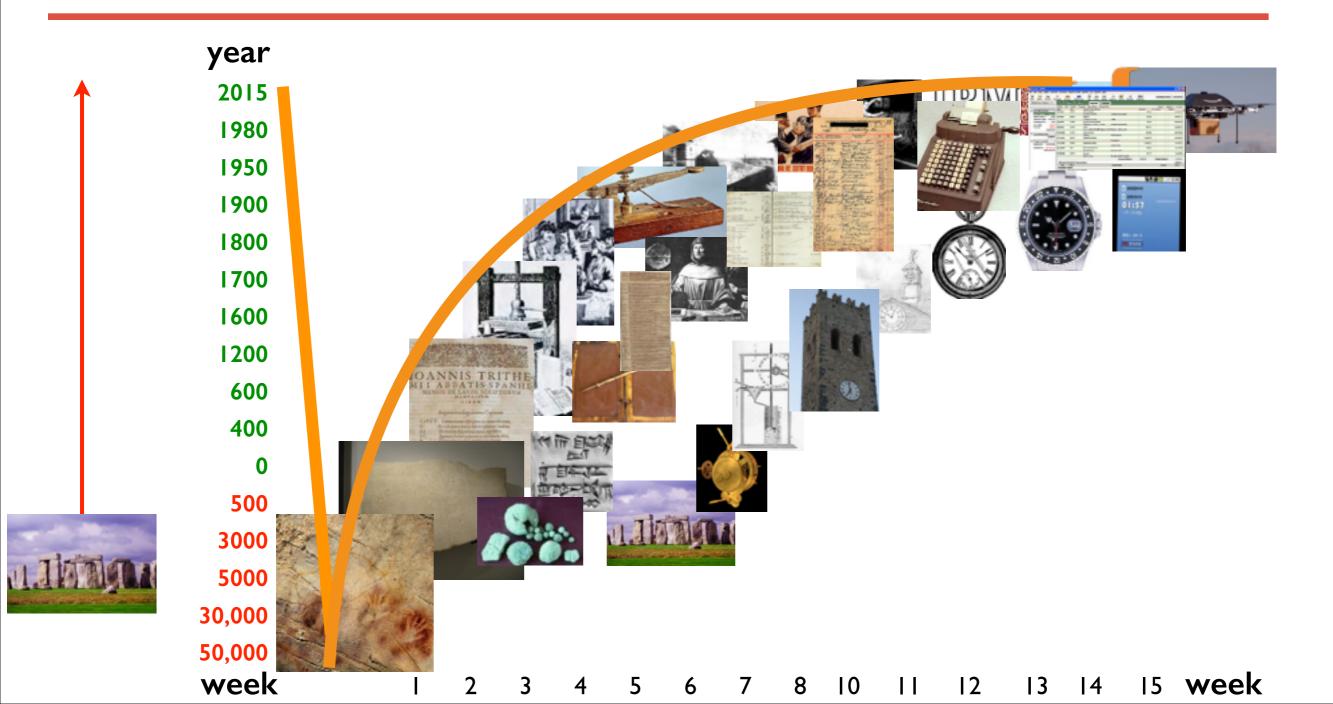
rational capitalist accounting

'desacralization' (cp Darnton)

Werner Sombart (1863-1941)

"abstraction of profit [leads to] economic calculation ... systemic organization ... depersonalization."

getting there



overview

fighting time
technologies of time
time control
reading response
accounting
balancing

8th century bce: 10 month calendar

713 bce:

153 bce:

2 months added

beginning of the year moved

from March to January

Roman rules

fighting time technologies of time time control reading response accounting balancing

why Julius Caesar (100 - 44 bce)

Julian Calendar

fixing the troublesome equinox

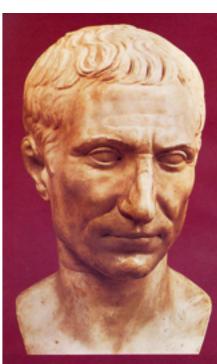
46 bce: 445 days

45 bce: 365

Augustus (63 bce - 14 ce)

8 bce: a further course correction

Augustan Calendar







d 1576



Gregory XII 1502-1585

"Of all the days i' the year, I came to't that day that our last king Hamlet overcame Fortinbras."

further uncertainties

the year dot:

Dionysius Exiguus (c 470-544 ce)

day one

January I (Julian Calendar)

March 25 (Ascension, Council of Tours, 567)

the equal hour

14th century

java.lang.Object java.util.Calendar java.util.GregorianCalendar

the struggle for Easter

extends Calendar

public class GregorianCalendar

1582: Gregorian Calendar (leap years, centurial years)

the big leap

Thursday October 4 to Friday October 15 11-HofI14-TSM-PD 17



John Wallis 1616-1703

QUARTER DAYS
Lady Day 25 March
Midsummer 24 June
Michaelmas 29 Sept
Christmas 25 Dec

old time religion

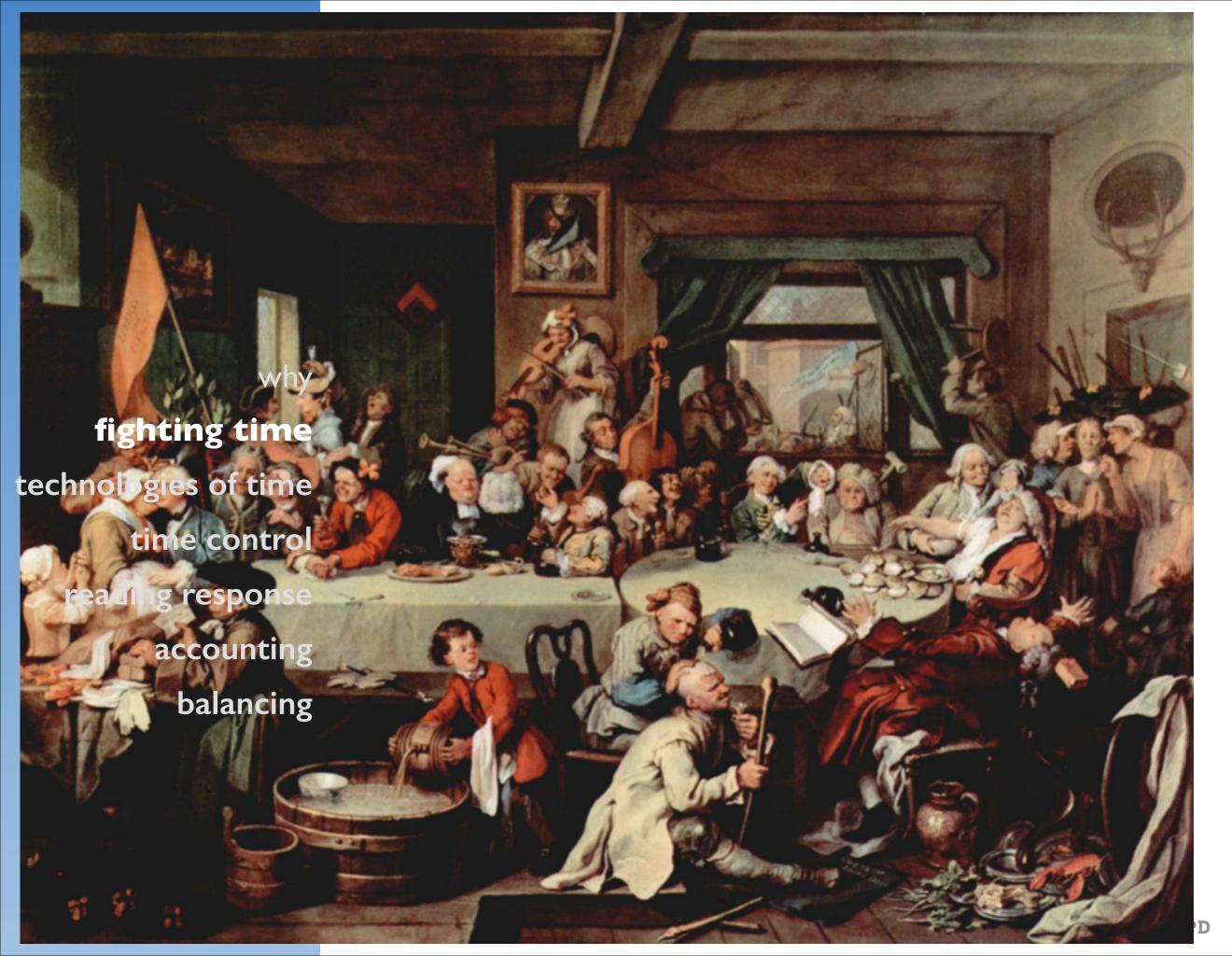
Orthodox & Protestant resistance

"latent Popish interest"

--John Wallis, **FRS**, Savilian Professor of Geometry, Oxford

popular superstition

The Landlord calls for Rent before 'tis due,
King's Tax, and Windows, Poor, and Parson too;
With Numbers more, our Grandsires never knew.
Domestick Servants all will have their Pay,
And force their Masters e're the Quarter Day.



présent Traité n'est pas dénoncé un an à l'avance, il continuera à être obligatoire d'année en année, jusqu'à ce que l'une des deux Hautes Parties contractantes ait annoncé à l'autre, mais un an à l'avance, son intention d'en faire cesser les effets.

En foi de quoi, les Plénipotentiaires respectifs ont signé le présent Traité et y ont apposé le cachet de leurs armes.

Fait à Saint-Pétersbourg le 14 (2) juin de l'an de grâce 1857.

(L. S.) Signé Morny.

(L. S.) Signé GORTCHACOW.

(L. S.) Signé Brock.



History of copyright law

From Wikipedia, the free encyclopedia

The history of copyright law starts with early privileges and monopolies granted to printers of books. The British Statute of Anne 1709, full title "An Act for the Encouragement of Learning, by vesting the Copies of Printed Books in the Authors or purchasers of such Copies, during the Times therein mentioned", was the first copyright statute. Initially copyright law only applied to the copying of books. Over time other uses such as translations and derivative works were made subject to copyright and copyright now covers a wide range of works, including maps, performances, paintings, photographs, sound recordings, motion pictures and computer programs.

oblique dates

"We talked much of Nostradamus his prophecy of these times, and the burning of the City of London, some of whose verses are put into Booker's Almanac this year My Lady Carteret herself did tell us how abundance of pieces of burnt paper were cast by the wind ...she took one up ... wheron there remained no more nor less than these words: "Time is, it is done"

--Pepys, February 3, 1666/7

The Statute of Anne, 1710 (1/6)

(transcription below image)

This is the first copyright act in the world, the British Statute of Anne, from 1710. This facsimile is taken from British Library, 8 Anne c. 19. Several monographs on copyright date this text to 1709. However, 1710 is the correct date, see John Feather, *The Book Trade in Politics: The Making of the Copyright Act of 1710*, "Publishing History", 19(8), 1980, p. 39 (note 3). Transcription from fraktur is available below the image. Words in roman type in the original are formatted here as *Italics*.



fighting time technologies of time time control reading response accounting balancing

decimalization

French revolution

year I again (1793)

10 days a week

10 months a year

New Year September

an urban revolution?

Vendémiaire, Brumiare, Frimiare, Nivôse, Pluviôse, Ventose,

Germinal, Floréal, Prairial, Messidor, Thermidor, Fructidor

and again?

fighting time
technologies of time
time control
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balancing

Swatch .beat

What is a Swatch .beat?

We have devided up the day into 1000 ".beats". So, one Swatch ".Beat" is equivalent to 1 Minute 26.4 Seconds.

When did Internet Time start?

The BMT Meridian was inaugurated on October 23rd, 1998, in the presence of Nicholas Negroponte, founder and director of the media laboratory at the Massachusetts Institute of Technology.

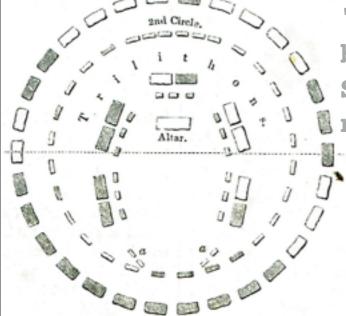
Where is the Internet Time meridian?

Biel Meantime (BMT) is the universal reference for internet time. A day in internet time begins at midnight BMT (@OOO Swatch .Beats) (Central European Wintertime).

The Meridian is marked for all to see on the facade of the Swatch International headquarters on Jakob-Staempfli Street, Biel, Switzerland.

overview

fighting time
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time control
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"Most of what has been written about Stonehenge is nonsense"

R.J.C. Atkinson

c. 5000 bce

'World's oldest calendar' discovered in Scottish field



the long then

why

c. 3100 bce

fighting time

technologies of

Whan that Aprill with his shoures soote

The droghte of March hath Perced to the roote,

And bathed every veyne in swich licour

Of which vertu engendred is the flour;

Whan Zephirus eek with his sweete breeth

Inspired hath in every holt and heeth

The tendre croppes, and the yonge sonne

Hath in the ram his halve cours yronne,

And smale foweles maken melodye,

That slepen al the nyght with open ye

(so priketh hem nature in hir corages);

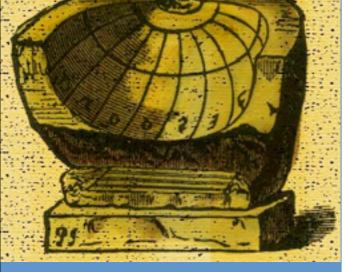
Thanne longen folk to goon on pilgrimages...



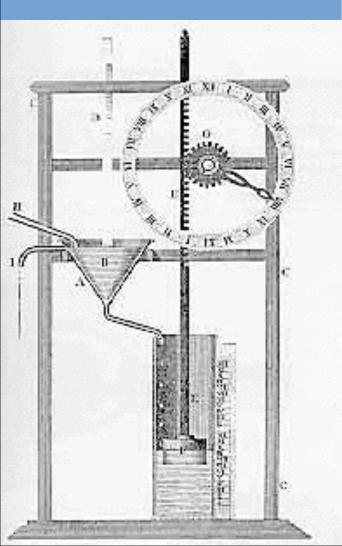




antikythera c 200 bce







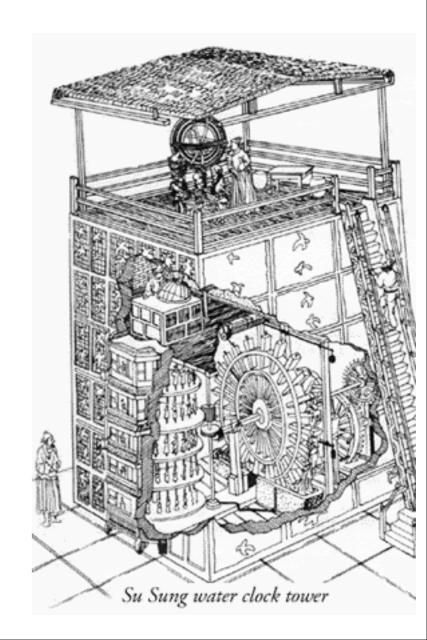
clock time

3500 bce: sundials

1400 bce: Egyptian water clocks

700 ce: hourglasses

1086: Su Sung's water tower



"Wel sikerer was his crowyng in his logge Than is a clokke, or an abbey orlogge"

higher tech

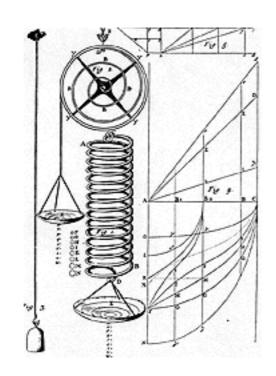


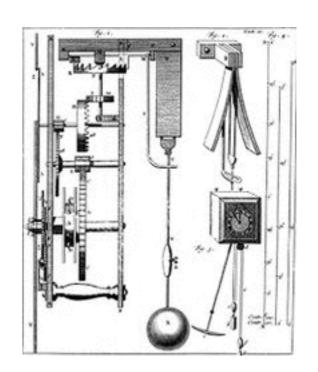
Richard of Wallingford 1292-1336

I 300: mechanical clocks Richard of Wallingford

1656: Huygens pendulum clock

1660: Hooke & the spring watch





looking ahead

automata

The Antiquity Chap. VI. of Clock-work:

modum dentata, quæ una motione coassa, socks, and some other Automata, might
versando faciunt effectus, varietatesque motionum: in quibus moventur Sigilla, vertionum: in quibus moventur Sigilla, vertuntur Metæ, calculi aut Tona projiciuntur, bolivion) might be revived there. But

computus

84 Sciligeri Poetices in 2 Vol. interfol. 85 Cluverii computus chronologicus, interfol.

feedback mechanisms

"feedback control dates at least from the waterclock of Ktesibios of Alexandria [3d C BC] no new feedback system [until the] thermostatic furnace."

-Beniger, Control through Communication

Mechanick Dyalling:

TEACHING

Any Man, though of an Ordinary Capacity and unlearned in the Mathematicks, to draw a True

SUN-DYAL

On any

Given Plane,

However scituated: Only with the help of a straight RULER and a pair of COMPASSES; And without any Arithmetical Calculation.

By Joseph Moxon, Hydrographer to the Kings most Excellent Majesty.

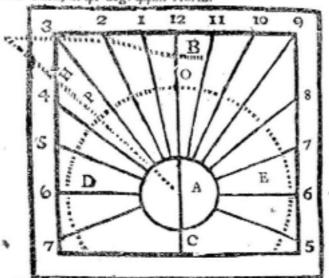
LONDON.

Printed for Joseph Moxon on Ludgate-bill, at the Sign of Atlas. M DC LXVIII

computus

244 The Young Man's Best Campanion.

But to proceed to Dialing, the following Figure represents an Horizontal Dial, described for the Latitude of New-York, at 41 deg. 44m. North.



rieft, Draw the Meridian or 12 o'Clock Line BAC' and cross the same with the Line DE, at right Angles in the Point A, which must be the Center of your Dial, and the Line DE, is the 6 o'Clock Line; then take with your Compasses 60 Degrees from a Line of Chords, and with that Extent, setting one Foot in the Center at A, with the other describe the Circle DOE, which done, take from the same Line of Chords, all the Hour Arches in the sollowing Table; and placing one Foot of your Compasses in O, (where the Circle crosses the Meridian) with the other set off the Hour Arches both Ways upon the Circle DOE.

Latitude 41 Degrees 44m, North.

-	Ho Fore- noon.	After- noon.	Arches D. M.
ï	11	1	9 46
١	10	2	20 22
1	9	3	32 44 48 4
1	7	5	67 22

1668: Joseph Moxon, Mechanick Dyalling

I748: George Fisher,

American Instructor

"the Art of

Dialling, and
how to erect and

fix any Dial"



limits of the log

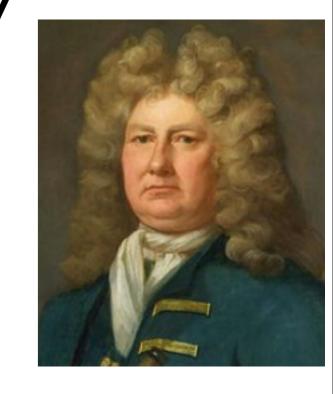
why

time, space, and naval supremacy

starvation, piracy, wrecks

1707: Sir Cloudesley Shovell's fleet

1,315 sailors; one survivor



And by feveral Writs of Prorogation Begun and Holden on the Sixteenth Day of February, 1713. Being the First Session of this present Parliament.

Anno Regni

R E G I N Æ Magna Britannia, Francia, & Hibernia,

DUODECIMO.

At the Farliament Summoned to be Held at Westminfler, the Twelfth Day of November, Anno Dom.

1713. In the Twelfth Year of the Reign of our Sovereign Lady A N N E, by the Grace of God, of Great Britain, France, and Ireland, Queen,

Defender of the Faith, &c.



LONDON,

Printed by John Baskett, Printer to the Queens most Excellent Mayely, And by the Assigns of Thomas Newcomb, and Henry Hills, deceased. 1714. 1714: Longitude Act

£20,000 - to fix longitude to half a degree



various contenders

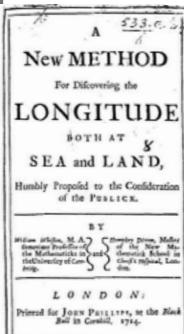
fighting time time control

time, space, and whelping dogs

Galileo, Newton, Huygens, Halley and the heavens technologies Wren's observatory

> nutters galore VS





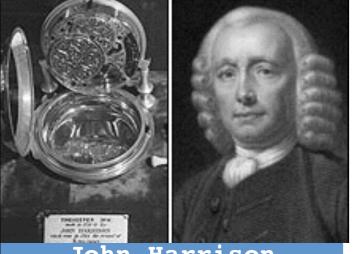
THE Longitude and Latitude Found by the INCLINATORY

DIPPING NEEDLE

THE Longitude Discover'd;

By the Author of the DELUGE, and Bottomicis TUB;

Skill'd in the Globe and Spheres, he gravely flands, And with his Compass measures Seas and Lands; Down on the Bridal-Bed, a Maid fie lay, A Maid file rofe at the approaching Day; Another Night his lumpifle Love flee try'd, But fill for rose, a Virgin, and a Bride; Her Scaking Eyes were full of the Difgrace, And her ves'd Thoughts abbrer'd the cold Embrace; Much Pains it coft, to right the injur'd Daner, A whole Night's Vigue, to repair his Shame.



John Harrison 1693-1776

RS plays defense



Harrison vs Men of Science

HI - Lisbon Trial, 1736

awarded prize, 1773

PROCEEDINGS,

IN ORDER TO THE

DISCOVERY

LONGITUDE:

RIGHT HONOURABLE ******

MEMBER OF PARLIAMENT.

Printed by T. and J. W. PASHAM, in Black-Frian, and Sold by the Booksellers, in London and Westminster. M.DCC.LEHR.

C C O U N T NARRATIVE PRINCIPLES REMARKS

PROCEEDINGS

The DISCOVERY of

Longitude at Sea;

Mr. JOHN HARRISON'S TIME-KEEPER;

Subfequent to those published in the Year

Printed for the AUTHOR, and Sold by Mr. SANDEY, in Fleet-Street.

MDCCLXV.

MR. HARRISON'S TIME-KEEPER,

PLATES OF THE SAME.

JOHN NOURIE, AND MESS. MOUNT AND PAGE.

PAMPHLET

Lately published by the

Rev. Mr. MASKELYNE,

Under the Authoratety of the

BOARD OF LONGITUDE.

By JOHN HARRISON.

LONDON: Printed for W. SANDBY in Fleetstreet. MDCCLXVII. (PRICE SIXPENCE,)

SUCH MECHANISM AS WILL AFFORD A NICE, OR TRUE

MENSURATION OF TIME;

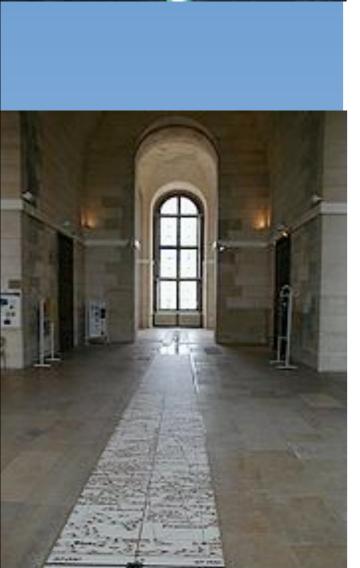
TOCKTHER WITH SOME ACCOUNT

ATTEMPTS for the DISCOVERY OF THE

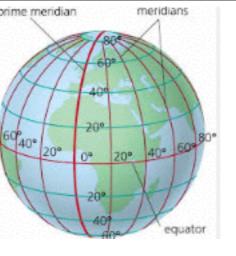
LONGITUDE BY THE MOON:

AN ACCOUNT









going global

c1850: telegraph time

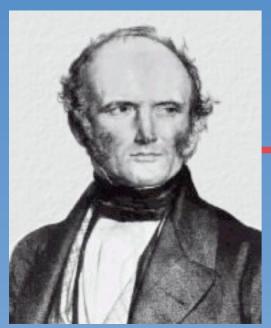
1852: Greenwich mean time

1883: US standard time

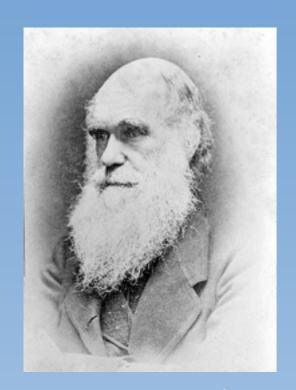
1884: Meridian Conference, DC

1911: France: Cassini Meridian

1966: Uniform Time Act



Charles Lyell 1797-1875



Charles Darwin 1809-1882

deep time

geological time

Lyell: "time, time, time"

4712 - Chinese

New Year: Jan 31 (horse)

1392 - Persian

r: March 20 (04:03:13 am)

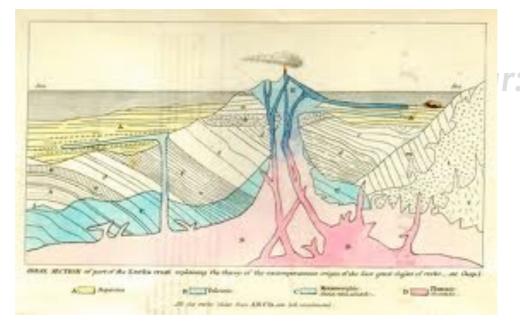
5774 - Jewish

New Year: September 25

1435 - Islamic

New Year: October 24

Darwin: "I really think my books come half out of Lyell's brain."



overview

fighting time technologies of time time control reading response accounting balancing

time control

fighting time technologies of time time control reading response accounting balancing

bell tolling

1335: Amiens start of work, lunch, end of the day controlled by bell rung by the city -decree of Phillip VI

1664: "that as many as might live within the sound might be thereby induced to a timely going to rest in the evening, and early arising in the morning to the labours and duties of their several callings"

fields to factories work patterns

fighting time technologies of time time control reading response accounting balancing

"The work pattern was one of alternate bouts of intense labour and idleness, wherever men were in control of their working lives. (The pattern persists among some self-employed, and perhaps also among students.)

"the industrial revolution demanded a greater synchronization of labour"

--Thompson



Laurence Sterne 1713-1768

THE

Clockmakers Outcry

AGAINST THE

AUTHOR

OF

The LIFE and OPINIONS of TRISTRAM SHANDY.

Dedicated to the

Most Humble of Christian Prelates.

Tu es Sacerdos secundum ordinem Melchisedech?

Art thou a Priest according to the Order of Mel-

invasive clocks

Pray dear, quoth my mother, have you not forgot to wind up the clock? Good G--! cried my father...Did ever woman, since the creation of the world, interrupt a man with such a silly question?

-Laurence Sterne, Tristram Shandy, 1759

"No modest lady dares to mention a word about winding up a clock ... Nay, the common expression of street-walkers is, "Sir, will you have your clock wound up"

-The Clockmaker's Outcry against the Author, 1760

factory discipline

Wedgwood's Etruria

"clocking in"; tell-tale clocks

fighting time
technologies of time
time control
reading response
accounting
balancing





battles ahead fields to factories

fighting time technologies of time time control reading response accounting balancing

Coming up ip

"a vigorous and licensed popular culture had evolved, which the propagandists of discipline regarded with dismay"

"fight, not against time, but about it"





time

fighting time technologies of time time control reading response accounting balancing

"Machines were the Pemberton force .. Machines for opening letters and sealing them, automatic typewriters, dictation phonographs, pneumatic chutes. But none of the other machines was so tyrannical as the time-clock ... She knew that the machines were supposed to save work. But she was aware that the girls worked just as hard and long and hopelessly after their introduction as before."

—Sinclair Lewis, The Job, 1917





chnology Quarterly: Q1 2012 +

he quantified self

Counting every moment

chnology and health: Measuring your everyday activities can help improve your quality life, according to aficionados of "self-tracking"

ar 3rd 2012 | From the print edition

HE idea of measuring things to chart regress towards a goal is commonplace in rge organisations. Governments tot up ade figures, hospital waiting times and cam results; companies measure their mover, profits and inventory. But the use important metrics by individuals is rather less idespread, with the notable exceptions of exple who are trying to lose weight or approve their fitness. Most people do not utinely record their moods, sleeping atterns or activity levels, track how much cohol or caffeine they drink or chart how



"My pulse, as yours, doth temperately keep time" —Hamlet

running on time

the quantified self



"The Nonequivalence of High School Equivalents" Stephen V. Cameron & James J. Heckman 1991

schools "a spectacle of order and regularity ... they are become more tractable" -- Thompson

time, money, & education

why fighting time technologies of time time control discussion accounting balancing

"They who have the art To manage books, and things, and make them work Gently on infant minds as does the sun Upon the flower - the tutors of our youth, The Guides, the Wardens of our faculties, And Stewards of our labour, watchful men And skilful in the usury of time, Sages, who in their prescience would controul All accidents, and to the very road Which they have fashion'd would confine us down, Like engines."

overview

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reading response

fighting time technologies of time time control reading response accounting balancing

Fisherites: — 34%

Gabriel Freeman

Elise Tam Cooc

Neither/both — 17%

George Mulcaire

Ciara Crowley

Thompsonites — 49%

Helen Oliver

Vandana Pai

"I wasted time, and now doth time waste me;
For now hath time made me his numbering clock:
My thoughts are minutes; and with sights they jar
Their watches unto mine eyes"

— Richard II

Gabriel

As with most things, the technology of time is a double-edged sword. This is a tool, and when used by one who understands it can be used for his/her own gain at another's expense. When used properly by a society, great things can come of it, just as Thompson admits himself: "Their great co-operative societies would never have arisen to such immense and fruitful development but for the calculating induced by the use of machinery" (75, Thompson). However, when one class of people understand the technology and another does not, corruption and manipulation soon follow-whether with children: "'there is considerable use in their [children] being, somehow or other, constantly employed at least twelve hours a day, whether they earn a living or not; for by these means, we hope that the rising generation will be so habituated to constant employment that it would at length prove agreeable and entertaining to them " (84, Thompson) or with laborers: "'in reality there were no regular hours (...) instead of being instruments for the measurement of time, they were used as cloaks for cheatery and oppression'" (86, Thompson). Any man that uses these tools correctly may lead to his own success, such as in Fisher's example by proving his reliability with debts. Those who understand and implement properly hold power over those who do not.

"I wasted time, and now doth time waste me;
For now hath time made me his numbering clock:
My thoughts are minutes; and with sights they jar
Their watches unto mine eyes"

— Richard II

Elise

Thompson wrote, "One recurrent form of revolt within Western industrial capitalism, whether bohemian or beatnik, has often taken the form of flouting the urgency of respectable time-values" (Thompson, 95). The word "flouting" makes it seem like people had a choice and decided against taking time seriously. As Fisher said, "Waste neither time nor money, but make the best use of both" (Fisher, 377). It is up to the person to decide what they want to do with their time, and ultimately they control their time, not the other way around. Today's society is different from past societies, and people's dealings with time are inevitably different. Modern society is concerned with convenience, which leads to more "free time" that sometimes people don't know how to use. If people only learned self-discipline over time as Fisher suggested, then they can have greater control over their lives than time does. They just simply have to learn self-control.

George

Thompson's argument takes a wider perspective and reveals the effects of time-discipline on the employees themselves: taking them from a selfdirected system of task-oriented labor into a system rigidly controlled by their employers. It is true that workers' acceptance of time technology enabled them to "fight, not against time, but about it" and win the right to regular, limited working hours (85-86). However, with this right came the idea that workers' time was not their own but belonged to their employers (61). ... The implications for modern society are not clear. It may be that the rise of self-employed workers with internet businesses will let more people become like Fisher's tradesman, becoming rich (and thus more in charge of their destinies) with the aid of time-discipline. But self-employment could also allow the relaxation of time-discipline and the return of task-oriented perception of time. Time will tell.

Ciara

When Thompson speaks of employers' necessity to measure their employees' work by the time worked rather than by the completion of tasks, he states, "not the task but the value of time reduced to money is dominant" (61). Fisher begins his "Advice to a Young Tradesman," however, by stating, "Remember that Time is Money" (375). By inciting his reader to recall (continuing in this strain throughout the article), Fisher seems to have accepted the condition of which Thompson speaks and—as the genre of his work is not an essay like Thompson's but rather an instructional bookproposes the ways in which a person should act to retain his wealth in light of this condition. We continue today to organize much of our lives according to the "time-discipline" both Thompson and Fisher recognize (Thompson 90). I find interesting Thompson's notion that the strict "Puritan valuation of time" might "begin to decompose as the pressures of poverty relax," for it implies that our adherence to structured time may not increase linearly and indefinitely, but rather may fall into patterns according to a society's needs (95).

Vandana

Modern perception of time is a function of the growth of industrialism. Labor was previously "task-oriented," more leisurely and at a gradual, less demanding pace (Thompson, 60). However, especially during the 17 century, there was a rapid change from the perception of time passed, to time spent (Thompson, 61). Fisher, writing from this era, agrees that "time is money," demonstrating Thompson's point how time became internalized by people and pervasive in society (Fisher, 375). Thompson attributes this to the rising need for "synchronization of labor" in factories, which in turn placed greater value on discipline and organization (70). Even today, time dictates our weekly schedules and daily tasks. Employers must use their time efficiently and more importantly, spend it wisely. Thompson makes note that time ultimately "[impinged] upon social and domestic life," eventually even becoming "habituated" in schools (83-84). This is obvious today with the "clear demarcation between work and life"—a distinction that hardly existed prior to Industrialization (Thompson, 93). Our relationship with time today goes unnoticed because we have become conditioned to observe it in all aspects of our lives.

Helen

Thompson presents a deep analysis of the complicated relationship of people and time. He argues that technology, in driving growth and change of a culture, also changes how people's lives are structured. Technological development leads to "radical restructuring of mans social nature and working habits" [91] such as the dramatic changes of Industrial Revolution. ... Fisher's argument addresses the same technologies and developments, but presents them as a tool for readers to control their lives. By treating technological changes as external, Fisher attempts to abstract sociological problems from economic concepts, a folly Thompson warns against. Claiming that "the way to wealth... is as plain as the way to market" and dependent on "industry and frugality" [377] is an over-simplification. Fisher presents advice for conforming to disciplined industrial capitalism, and fails to address the complex sociological stresses of transition.

noteworthy?

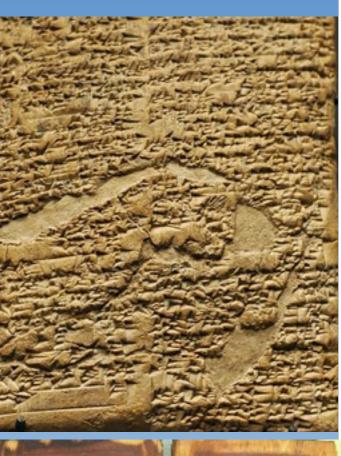
fighting time technologies of time time control reading response accounting balancing

overview

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accounting



Sumerian tablets

record keeping

the code of Hammurabi

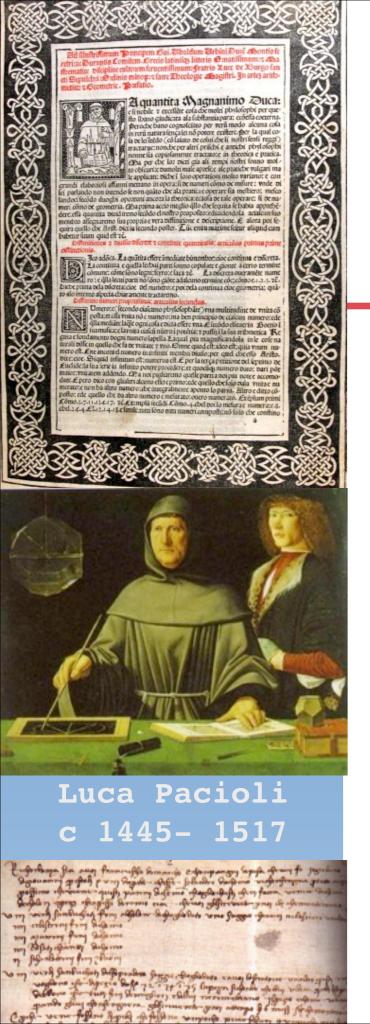
"if a man has given on deposit without elders or contract ...[if] they contest it, there shall be no claim"

--Hammurabi, Babylon c 1700 bce



Rome

adversaria, codex accepti et dispensi, liber rationum



the Italian method

"The inventor of Accounting ..."

1494: Luca Pacioli Summa de Arithmetica
[cp Gutenberg et al ...]

more reliable history

1211: proto double entry, Florence "Arabic" numerals, via al-Khwarizmi

c 1340: double entry in Genoa

1366: The Merchant of Prato (Francesco di Marco Datini)



Maurice of Nassau 1567-1625

Jean-Baptiste Colbert 1619-1683

a popular literacy?

from princes and courts

Prince Maurice of Nassau

Colbert, "Information master" for Louis XIV

to plebians and the gallows

—Peter Linbaugh, The London Hanged, 1993

Anna Karenina vs War & Peace



Old Tradesman 1706-1790

why

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popular item

James aThe American sorters INSTRUCTOR:
Young Man's Best Companion.

Spelling, Reading, Writing, and Arithmetick, in an easier Way than any yet published; and how to qualify any Person for Business, without the Help of a Master.

Instructions to write Variety of Hands, with Copies both in Profe and Verse. How to write Letters on Bufiness or Friendship. Forms of Indentures, Bonds, Bills Receipts, Wills, Leases, Releases, &c.

Also Merchants Accompts, and a short and easy Method of Shop and Book-keeping; with a Description of the several American Colonies.

Together with the Carpenter's Plain and Exact Rule: Shewing how to measure Carpenters, Joyners, Sowyers, Bricklayers, Plan flerers, Plumbers, Masons, Glafiers, and Painters Work. How! undertake each Work, and at what Price ; the Rates of each Conmodity, and the common Wages of Journeymen; with Gunter's Line, and Coggesbal's Description of the Sliding-Rule.

Likewise the PRACTICAL GAUGER made Easy; the Ar: of Dialling, and how to erect and fix any Dial ; with Instructions for Dying . Colouring , and making Colours.

. To which is added.

The Poor Planters Physician.

With Instructions for Marking on Linnen; how to Pickle and Preferve; to make divers Sorts of Wine; and many excellens Plaisters, and Medicines, necessary in all Families.

Prudent Advice to young Tradesmen and Dealers.

The whole better adapted to these American Colonies, than any other. Book of the like Kind,

By GEORGE FISHER, Accompant.

The Ninth Edition Revised and Corrected.

PHILADELPHIA: Printed by B. FRANKLIN and M-PD D. HALL, at the New-Print pe-Office. in Market-Street man

Young Man's

COMPANION

Or a very ufeful Manual for

CONTAINING

Plain and full Directions for Spelling, and Reading English and Latine, and the Englishing the Lacrin Bible without a Teacher; with cafe Rules Writing and Arithmetick. Likewife the Plotting and Measuring of Land, Globes, Stee-ples, Walter Barrels, Timber, Stone, Boards, Glass, Gret

also some secrets in November of Glazing; and Glazing; also some secrets in November of Geography, and Colouring of Globes; with a biap of England; and a Brief History of the King, increof; Remarques on the late Great Froft, and Onther Prodigious Accidents. All foreign Coin reducts ced to English Money, with the Comodities of feveral Countries : Of the Weather, Aftrology, Palmiffry and Geometry: Receipts in Physick and Chyrurgery, of Husbandry and Ordering of Bees: Of Weights, Numbers, Purchase of Annuitics, Leafes, orc.

Account of Time, Days and Months, under their various decominations: Hard Words in Law and Chyrur-

ith alithe Fairs, Highways and Roads in England, and, many more pleful things; together with an Alphabetical Table for the ready finding any Matter

The second Edition, with very large Additions. By William Mathet.

O N D O N, Printed for Thomas Howkins, in George-Tard in Lombard Street. 1685.

In the British Edition of this Book, there were many Thing: of little or no Use in these Pares of the World : In this Edition those Things are emitted, and in their Room many other Matters inferted, more immediately ufeful to as Americans. And many Errors in the Arithmetical Fort are here carefully corrected.

VALE & FRUERE.

eternal truths?

successive adaptation

William Mather, Young Man's Companion (24 editions by 1775)

George Fisher The Instructor, 7 editions to 1744 (or Mrs Slack?)

The American Instructor, 9th edition, 1748 (16 editions by 1800)

"Not only published by Franklin and Hall,

but ... largely rewritten by Franklin."

-Linglebach, "Franklin's American Instructor" 1952

enduring advice

why

fighting time

technologies of time

time control

reading response

accounting

balancing

Advice to a young Tradesman, written by an old One. To my Friend A. B.

As you have defired it of me, I write the following Hints, which have been of Service to me, and may, if observed, he so to you.

EMEMBER that TIME is Money. He that can earn Ten Shillings a Day by hie Labour, and goes abroad, or fits idle one Half of that Day, tho' he spends but Six-pence during his Diversion or Idleness, ought not to reckon that the only Expence; he has really spent, or rather thrown away Five Shillings besides.

Beware of thinking all your own that you posses, and of living accordingly. 'Tis a Mistake that many People who have Credit fall into. To prevent this, keep an exact Account for some Time of both your Expences and your Incomes. If you take the Pains at first to mention Particulars, it will have this good Effect: you will discover how wonderfully small trifling Expences mount up to large Sums, and will discorn what might have been, and may for the future faved, without occasioning any great Inconvenience.

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"spelling
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... how to
qualify any
person for
business ...
write letters
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Merchants
Accompts ...
the several
American
Colonies"
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the next thing

"The next Qualification to fit a Man for Business, after Arithmetick, is the Art of Book-Keeping or Merchants Accompts, after the Italian Manner, by Way of Double Entry." Waste-Book (Memorial)

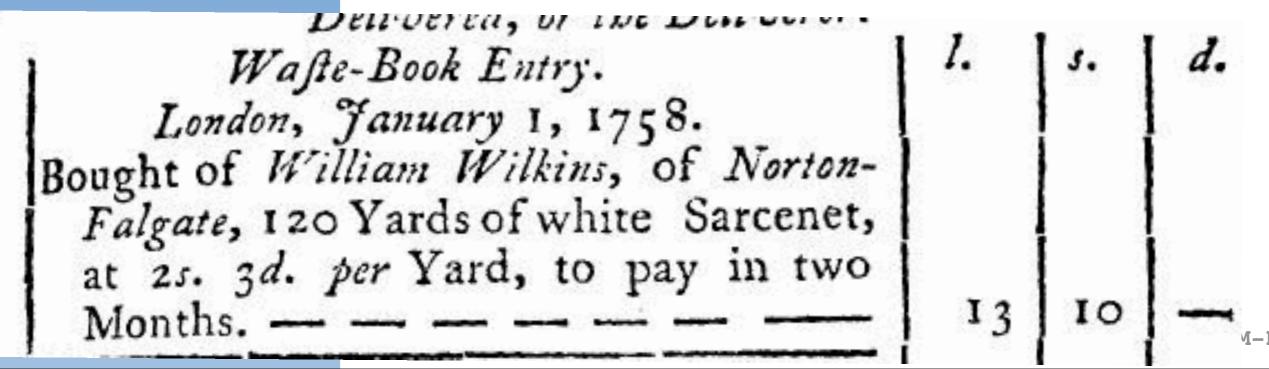
Journal

Leidger

waste-book

fighting time technologies of time time control reading response

"In this Book must be daily written whatever occurs in the way of Trade; as Buying, Selling, Receiving, Delivering, Bargaining, Shipping, &c. without Omission."



journal

fighting time technologies of time time control reading response accounting balancing

"Into this Book every Thing is posted out of the Waste-Book, but in other Terms, in a better Stile, and in a fairer Hand, without any Alteration of Cyphers or Figures; and every Parcel, one after another, promiscuously set without Intermission, to make the Book, or several Entires of it, of more Credit and Validity, in case of any Law Dispute, or any other Controversy."

ledger

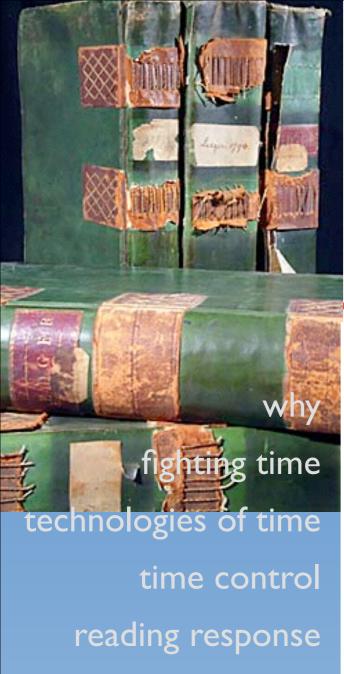
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From the Journal or Day-Book ... all Matters of Things are posted to the Ledger, which by the Spaniards are called El Libro Grande.

... The Left-hand Side of this book is the Debtor, and the Right the Creditor

The short Lines ruled against the Journal Entries are ...Posting Lines, and the Figure on Top of the Lines denotes the Folio of the Leidger where the Debtor is entered.

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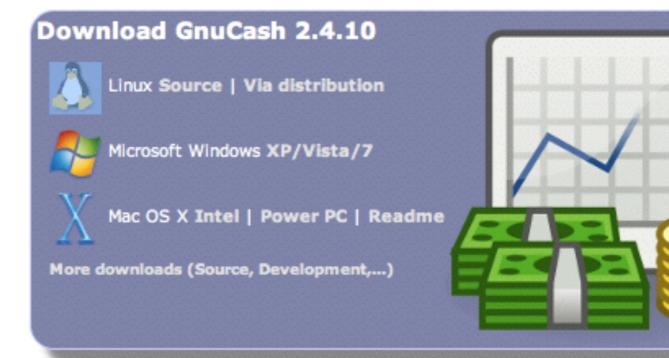


the books & the bottom line

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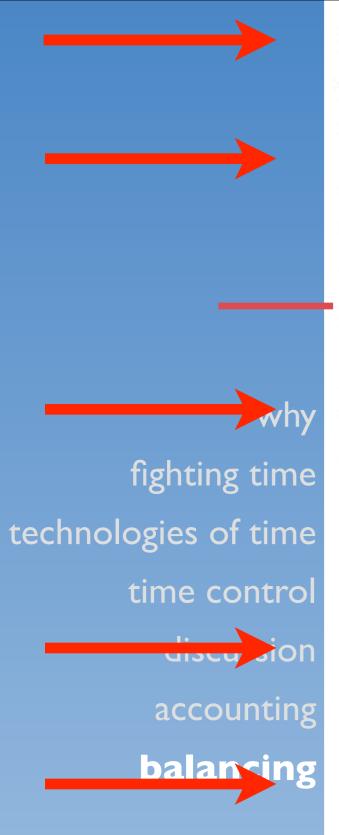
what it all comes to

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I have examined the Books and accounts of the Company and the above Balance Sheet is in my opinion a full and fair balance sheet containing the particulars required by the regulations of the Company and is properly drawn up so as to exhibit a true and correct view of the Company's affairs as shewn by the books of the Company. I certify that all my requirements as Anditor have been complied with.

Jewry House, 27 & 28 Old Jewry, London, E.C. 4th December, 1905. RICHARD H. NERWEY Chartered Accountant.



assets = liabilities + equity

Balance in the Leidger.

The Rules for Balancing are these, viz.

1st, Even your Accompt of Cash, and bear the Nett Ritto balance Dr.

adly, Cast up all your Goods bought, and those sol what kind soever, in each Accompt of Goods; and see whether all Goods bought, be sold or not; and if any remainsfold, value them as they cost you, or according to the present Market Price, ready Money; and bear the Ne Rest to balance Dr.

also how much they were sold for, and bear the Nett Ga or Loss to the Accompt of Profit and Loss.

lie, and bear the Nett Rest of every Dr. and Cr. to Balan

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Nett Rest to Stock or Capital, as an Advance to your Stock or Capital.

7thly, Even your Stock, and bear the Nett Rest to ba-

Then cast up the Dr. and Cr. Sides of your Balance; and if they come out both alike, then are your Accompts well kept; otherwise you must find out your Error by pricking over your Books again, to see whether you have entered every Dr. and Cr. in the Leidger as you ought.

Note, By pricking over the Book is meant, an Examining rotry Article of the Journal, against the Leidger, and marking it thus,—or thus +; and upon the second Examination thus ‡; and upon a third Examination thus ||; or any other Mark.

cast up"



Bankrupt? No, say EU language police, it's 'debt adjusted', as Brussels tries to remove the stigma of going bust

- . Man behind the plan said the word 'bankrupt' carries a potent stigma
- Tory MP Brooks Newmark condemned the 'flawed, madcap scheme'
- He said: 'This shows just how intellectually bankrupt sorry debt adjusted
 the European Union has become'

By GLEN OWEN

PUBLISHED: 20:06 EST, 15 February 2014 | UPDATED: 09:41 EST, 20 February 2014

"if they come out alike"

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balancing

assets = liabilities + equity

Was it an error by US Fed in not saving Lehman Brothers from going bankrupt?



READ MORE ON » Wall Street | US Federal reserve | US Fed | Timothy F. Geithner | riders | Peter Eavis | open

By: Peter Eavis

Six weeks after Lehman Brothers filed for bankruptcy in September 2008, Ben S.
Bernanke, then chairman of the Federal Reserve, gave his central bank colleagues an imitation of the people who were already criticizing the government's decision to let the Wall Street bank collapse.

"What in the heck were you guys doing letting Lehman fail?" he said, according to



The transcripts of the 2008 Fed meetings that were published Friday provide one of the fullest pictures yet of the thinking of top government officials on Lehman's implosion.



Detroit bankruptcy plan proposes slashing pension benefits up to 34%

By Chris Isidore and Melanie Hicken @CNNMoney February 21, 2014: 3:25 PM ET

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out of balance



Stockton eligible for bankruptcy protection: judge

BY JONATHAN WEBER

SACRAMENTO, California Mon Apr 1, 2013 5:53pm EDT









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Record Japan trade deficit highlights risk of economic stumble

BY TETSUSHI KAJIMOTO AND STANLEY WHITE

TOKYO/WAKAYAMA, JAPAN Thu Feb 20, 2014 1:31am EST

balancing

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unbalanced

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US Trade Deficit in Manufactures Surges in Fourth Quarter

Industry group MAPI points out there was a three-month net loss of 40,000 to 100,000 manufacturing jobs.

IW Staff Feb. 21, 2014



After a relatively flat first three quarters in 2013, the U.S. trade deficit in manufactures surged 9% in the fourth quarter, according to an analysis from the Manufacturers Alliance for Productivity and Innovation (MAPI).

In the new out Emport Purce. Dh. D. MADI annion advisor for intermediated to the



Robert Harley ascent to power, 1711 fall from grace 1714

balancing nations

Treaty of Utrecht, 1713

War of the Spanish Succession

the commercial treaty

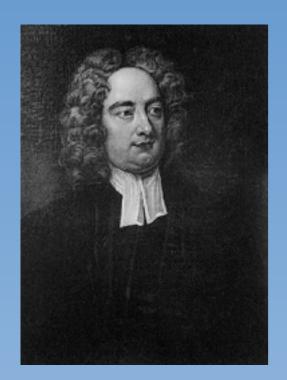
free trade with France; control of the assiento

the balance of trade

mercantilism and national interest



Daniel Defoe 1660-1731



Paul Methuen 1672-1757

trade problems

rousing the wool interest

Mercator (Daniel Defoe)

VS

British Merchant (Paul Methuen)

search for statistics



OR,

Commerce Preserv'd.

IN THREE VOLUMES.

By Mr. CHARLES KING,

Chamber-keeper to the Treasury, and late of London Merchant.

LONDON:

Charles Davenant

An Essay upon the Probable Methods of Making a People Gainers in the Ballance of Trade 1699

VS

To fum up all, if we pay to Fra	nce yearly,
For their Wines For their Brandies For their Linen For their Paper For their Silks	450000 70000 600000 30000 500000
And they take from us in Lead, Tin, Leather, Allum, Copperas, Coals, Horn-Plates, &c. and Plantation-Goods, to the Value of	200000
Great Britain loses by the Balance of that Trade yearly	1450000

Paul Methuen

"The Symptoms of a Bankrupt Nation are easily discerned"

balancing acts



David Hume 1711-1776

"apprehension of the wrong balance of trade, appears of such a nature, that it discovers itself wherever one is out of humour with the ministry, or is in low spirits."

David Hume, "Of the Balance of Trade," 1752

"Though all that hath been said in relation to Book-Keeping ... may seem a little abstruse to the altogether Unlearned therein, yet there is no such mighty Difficulty to instruct them as they may imagine."

-Fisher

enduring and

why

fighting time

technologies of time

time control

discussion

accounting

balancing

accounting rules

assets = liabilities + equity

Micawber rule

"Annual income twenty pounds, annual expenditure nineteen pounds nineteen and six, result happiness. Annual income twenty pounds, annual expenditure twenty pounds ought and six, result misery."

still advice for a young man or woman?

the bottom line?

true of time and money?

fighting time technologies of time time control discussion accounting balancing



coming up

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