

# information work

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## **History of information**

# information work

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**History of information**

**Thursday**

**jeudi**

**quarta-feira**

**Guru vāsara** गुरुवासरः

星期四 / 禮拜四 / 週四

# information work

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## History of information Thursday

**Etymology:** Originally cognate with or formed similarly to Old Frisian *thunresdei*, Middle Dutch *donresdach*, *donderdach* (Dutch *donderdag*), Old High German *donarestag* (Middle High German *donerstac*, *donrestac*, German *Donnerstag*) < the genitive of the Germanic base of THUNDER *n.* (used as the name of a god: see note) + the Germanic base of DAY *n.*, originally after post-classical Latin *dies Iovis* day of (the planet) Jupiter (2nd or 3rd cent.; frequently from c1115 in British sources; compare Hellenistic Greek *Διὸς ἡμέρα*, probably after Latin); subsequently (in *β.* forms) reinforced by early Scandinavian (compare Old Icelandic *þórsdagr*, Old Swedish *þorsdagher* (Swedish *torsdag*), Danish *torsdag*), itself probably after forms in West Germanic languages.

# information work

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**17 February**

**février**

**feverio**

二月

**Phalugra 5** [Indian]

**Rabi-I 21** [Islam]

**Adar-I 19**[Jewish]

**3 esfand** [Persian]

# information work

## 17 February

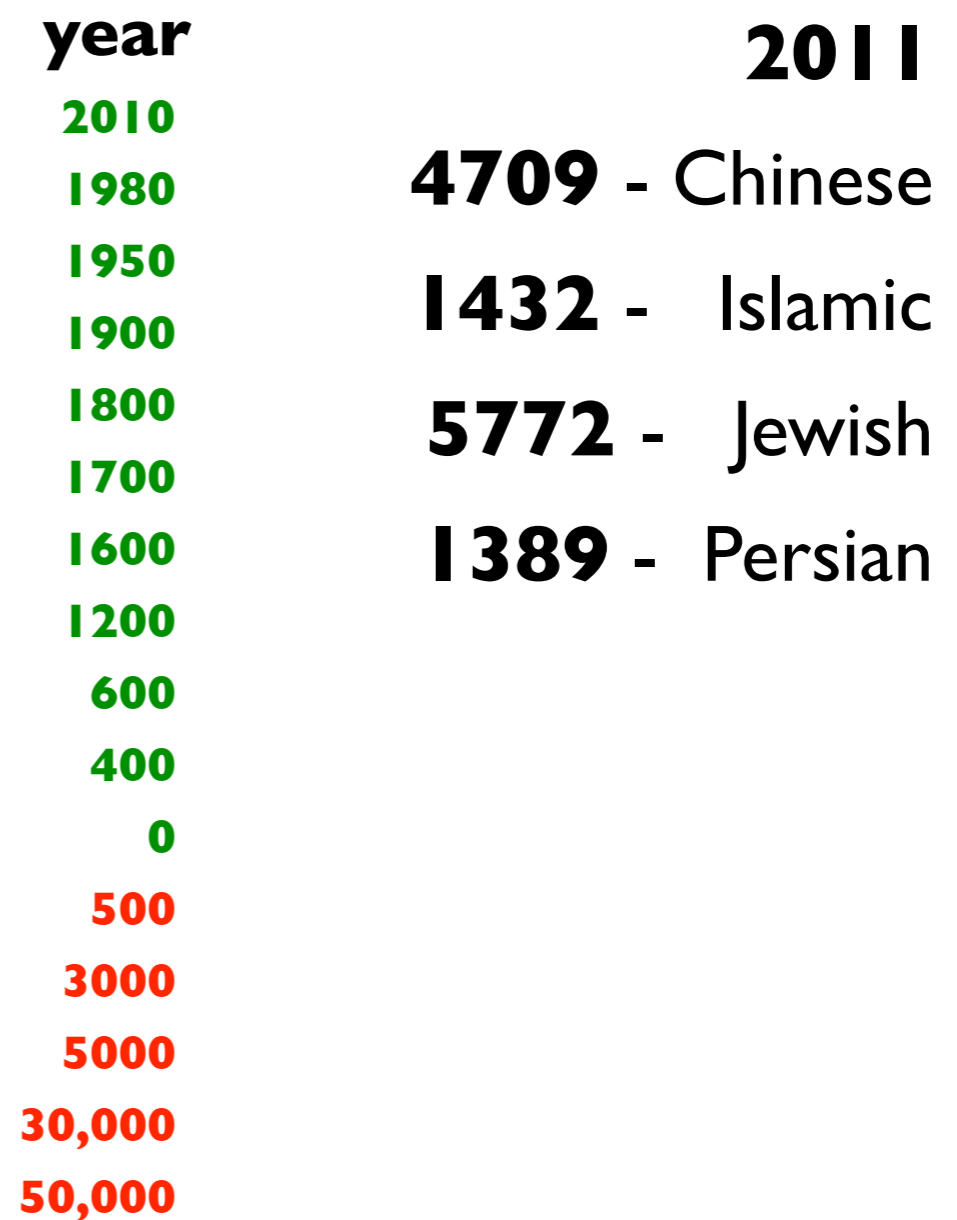
**Etymology:** < Anglo-Norman *feverer*, *feverrer*, *feveryer*, *feverzere*, *feverell*, *februer*, *februare*, *februarie*, etc., Anglo-Norman and Old French *fevrier*, *feverier*, Old French (northern) *feuriel* (1119; Middle French *fevrier*, French *février*) and its etymon classical Latin *Februarius*, in post-classical Latin also *Febrarius* (frequent in inscriptions), use as noun (short for *mēsis Februarius* month of February) of masculine of *Februarius* of February < *februa* (plural; also *februm*, *februum*, singular) means of purification, expiatory offerings, of uncertain origin (see below) + *-arius*-ARY suffix; the Roman festival of purification was held on the 15th of this month. Compare Old Occitan *febrier* (late 12th cent.), Catalan *febrer* (late 13th cent.), Spanish *febrero* (end of the 11th cent.), Portuguese *fevereiro* (13th cent. as *febreyro*; earlier †*feuerarias* (10th cent.)), Italian  *febbraio* (c1288); Middle Dutch *febrier* (Dutch *februari*), German *Februar* (15th cent.), Swedish *februari* (17th cent. as *februarius*).

On the development of the ancient Roman calendar see note at [SEPTEMBER 7](#).

Ancient authors considered classical Latin *februa* to be of Sabine origin; some modern scholars accept this view. An alternative view derives the Latin word from the same Indo-European base as ancient Greek *θεῖον* sulphur (used in purification) (see [THIO-](#) *comb. form*).

# where we are

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# in the beginning

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# in the beginning

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**when did the US become a country?**



# in the beginning

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10 or 15 May 1776--Second Continental Congress instructed the colonies to write new state constitutions

# in the beginning

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[See C.Larson, "The Declaration of Independence" 76 Wash. L. Rev (2001)]

# in the news

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## Obama budget has \$556 billion, six-year transport plan

**THE DAILY CALLER**

HOME POLITICS US ENTERTAINMENT CRIME WORLD SPORTS BUSINESS TECH

### Americans deserve the truth about the U.S. budget crisis

### Deficit Forecast -Questioned By Some - Buttressed Support For Health Overhaul

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TOPICS: [POLITICS](#), [HEALTH REFORM](#), [MEDICARE](#), [HEALTH COSTS](#)

MAR 23, 2010

The Congressional Budget Office report that found the health legislation would cut the deficit by \$140 billion over 10 years boosted Democratic momentum and pulled fiscally conservative moderates behind the bill, the [Financial Times](#) reports. The legislation would cost \$940 billion over that period, but various new taxes, spending cuts and savings would more than cover the cost. In the second decade, the CBO estimates, it would reduce the deficit by more than \$1 trillion.

# in the news

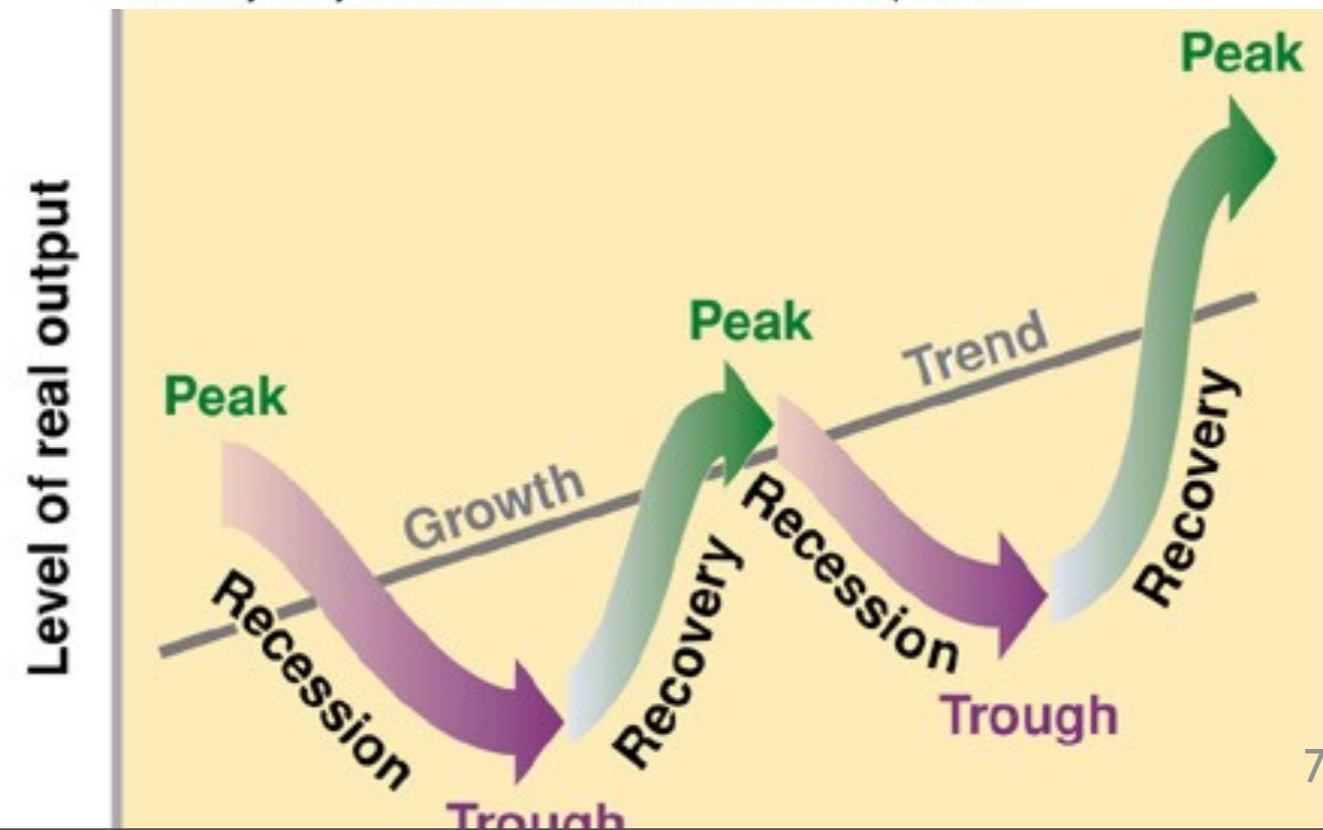
## Comment

### Business cycle is turning, for sure

Ritesh Jain | Wednesday, February 9, 2011

[Comments](#) | [Post a comment](#) | [Share this article](#) | [Print](#) | [Email](#)

The writing is on the wall. We have been led into the fallacious belief that all is well on the economic front and that the economy has left behind the scars of the sub-prime crisis, dubbed by many as the worst crisis since the Great Depression.



# in the news

## Comment

### Business cycle is turning, for sure

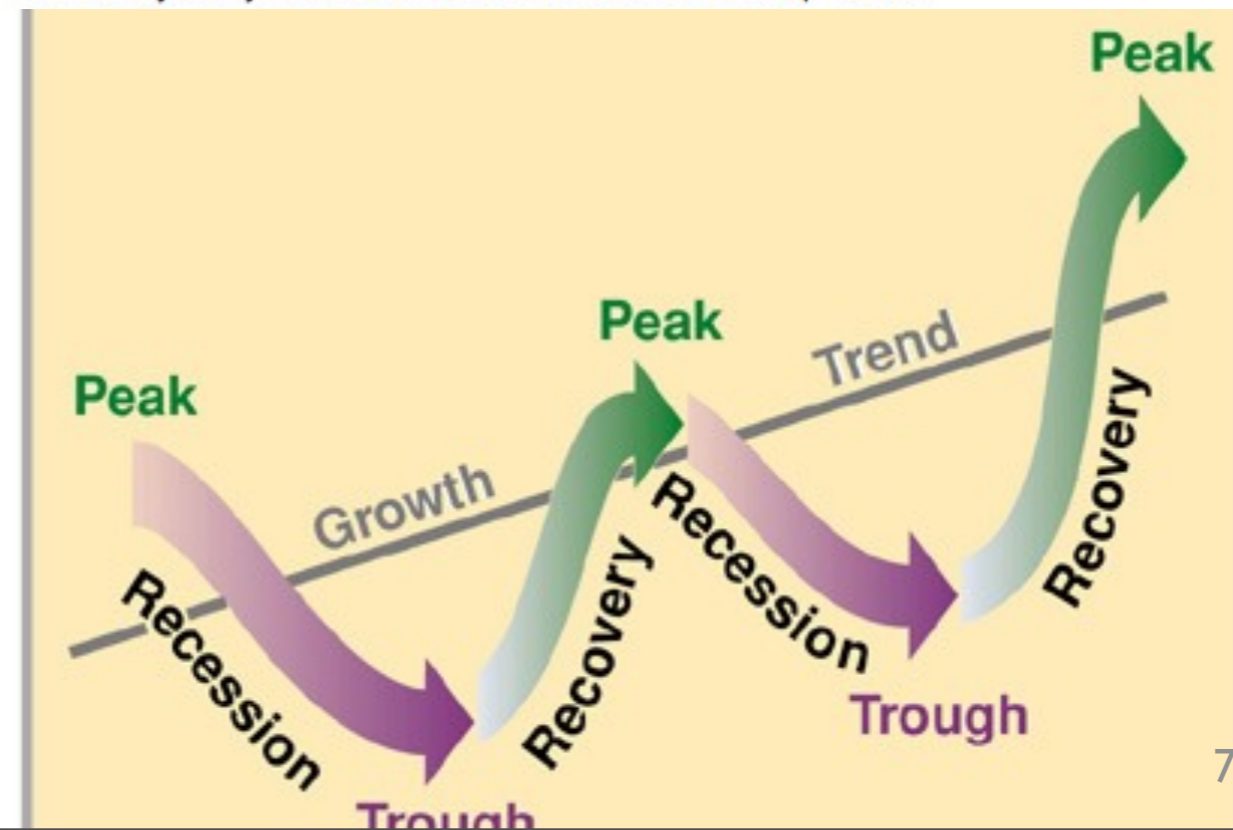
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Level of real output



# so let's talk time and money

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*enmeshed in the past*

**overview**

**concepts of time**

**technology of time**

**time control**

**accounting**

**balancing**

**balance of trade**

# time

---

"shift[ing]  
labour  
discipline and  
the ... the  
inward  
apprehension  
of time"

E.P Thompson

"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

# and time again

---

"... The clock time of the industrial age is being gradually replaced by what I conceptualized as *timeless time*: the kind of time that occurs when in a given context, such as the network society, there is systemic perturbation in the sequential order of the social practices performed in this context ... the attempt to annihilate time."

--Manuel Castells,  
*Rise of Network Society*, 2009, xli-xlii.

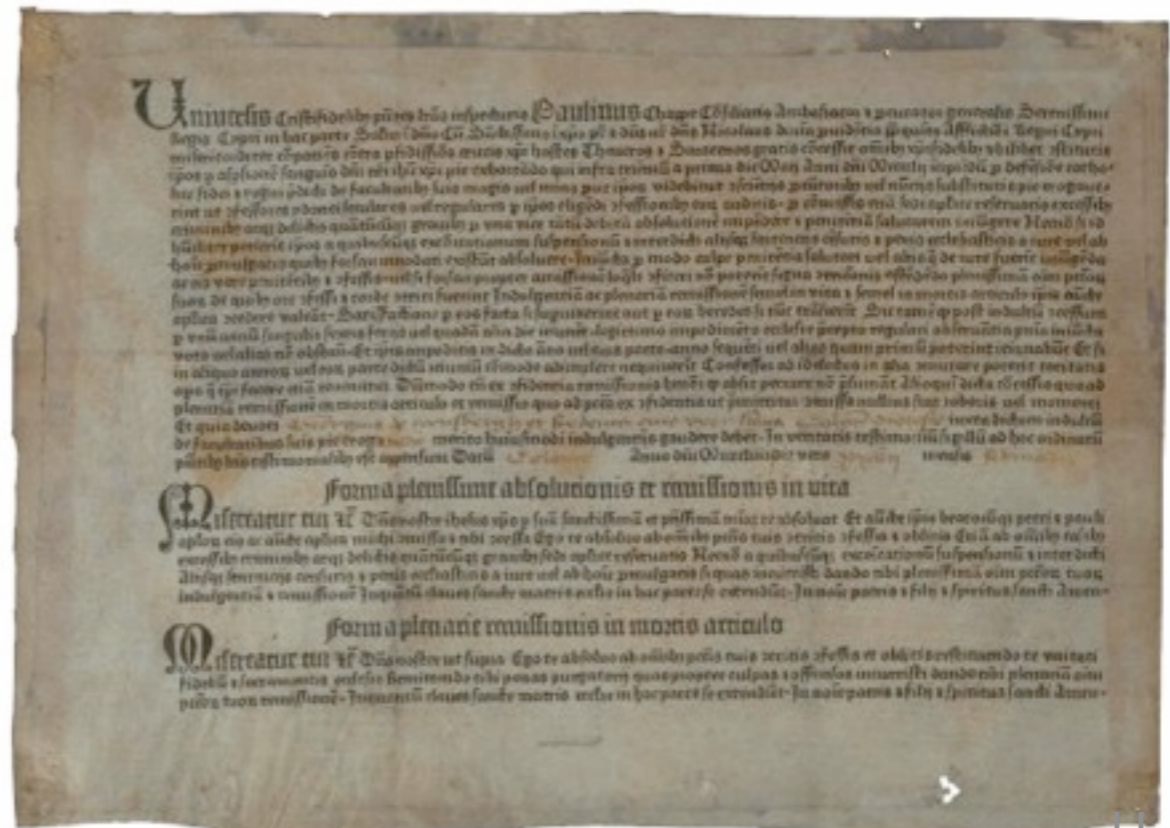
# cost of eternity

## time off for good behavior

**1309:** An indulgence to pardon a year's worth of sin costs one penny



Pope Clement V  
1260–1314





# accounting for time

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"Fear it Macbeth, 'tis a bell  
That summons thee to Heaven or to Hell."

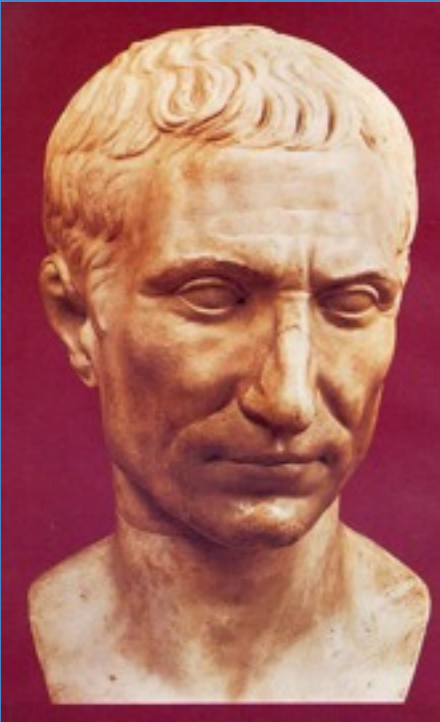
"The bell would also remind men of their  
passing, and of resurrection and judgement."

--Thompson

the final reckoning, the day of account  
how we spend, save, waste time

# dividing the year

---



**8th century bce:** 10 month calendar

**713 bce:** 2 months added

**153 bce:** beginning of the year moved  
from March to January

**Julius Caesar** (100 - 44 bce)  
Julian Calendar

**troublesome equinox**

**46 bce:** 445 days

**45 bce:** 365-1/4

**Augustus** (63 bce - 14 ce)

InfoWork 13

# marking the years

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## **the year dot:**

Dionysius Exiguus (c 470-544 ce)

## **still not quite sure**

"The 1118st year AD, the 21st year of Pope Alexander III, the 27th regnal year of King Henry II of the English, the 11th regnal year of King Henry the son of the king, the 18th year that time has passed since the translation of Bishop Gilbert Foliot from Hereford to London, when this inquest was made by Ralf de Diceto, dean of London, in the first year of his deanship."

InfoWork 14



Luigi Lilio  
d 1576



Gregory XII  
1502-1585

# further uncertainties

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## **New Year**

January 1 (Julian Calendar)  
March 25 (Council of Tours, 567)

## **the struggle for Easter**

## **1582: Gregorian Calendar**

leap years, centurial years

cutting time

Thursday October 4 to Friday October 15



Luigi Lilio  
d 1576



Gregory XII  
1502-1585

[Learn to determine the next month in Java](#)

Get an instance of the `Calendar` class.

```
Calendar cal = GregorianCalendar.getInstance();
```

# further uncertainties

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Si, à l'expiration des six années, le 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-Petersbourg, le 14 (2) juin de l'an de grâce 1857.

(L. S.) *Signé* MORNY.

(L. S.) *Signé* GORTCHACOW.

(L. S.) *Signé* BROCK.

# old time religion

## Orthodox & Protestants resist change

dating problems:  
*day of the year*

le 14(2) juin ... 1857

*years*

Statute of

Anne

1709/10

The Statute of Anne, [short title Copyright Act 1709](#) 8 Anne c.19; [long 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 in the [Kingdom of Great](#)

## 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*.

Franco-Russian  
Treaty of Commerce  
1857

# anglo-american course correction

---

**1752**

Wednesday September 2

Thursday September 14

"give us back our eleven days"

**1792 revolution**

year I again

Vendémiaire, Brumaire, Frimaire, Nivôse, Pluviôse,  
Ventose, Germinal, Floréal, Prairial, Messidor, Thermidor,

# dividing the day

---

## **the holy hours**

"seven times  
a day I praise Thee"  
Psalms 119: 64

## **Benedictine rule**

matins, prime, tierce, sext  
none, vespers, compline





# dividing the day

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## **accordian hours**

"are there not twelve  
hours in the day?"  
John 6.6.

## **equal hours**

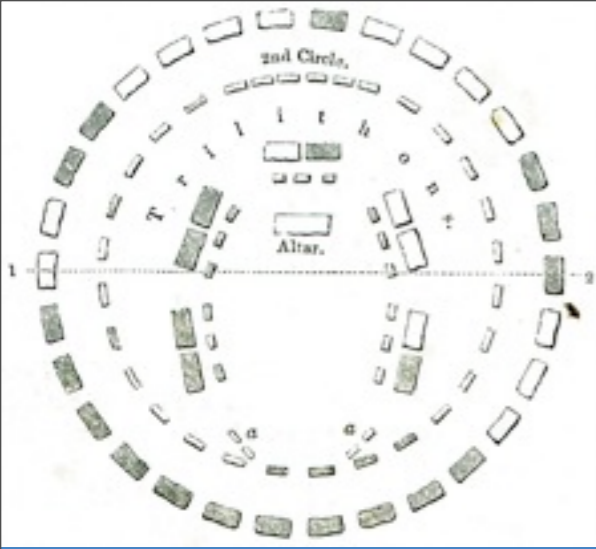
1330 (Germany)

1370 (England)

# overview

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**concepts of time**  
**technology of time**  
**time control**  
**accounting**  
**balancing**  
**balance of trade**



# the long then

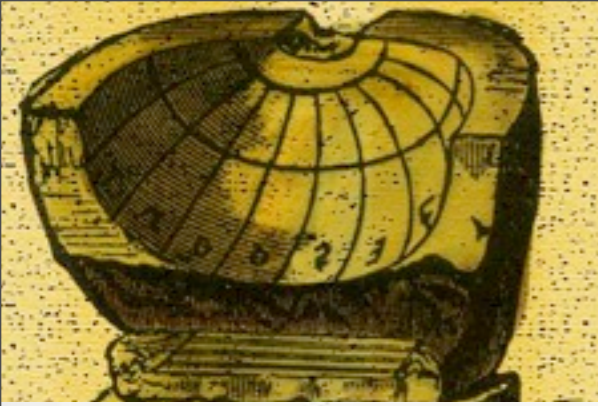
"Most of what has been written about Stonehenge is nonsense"

R.J.C. Atkinson

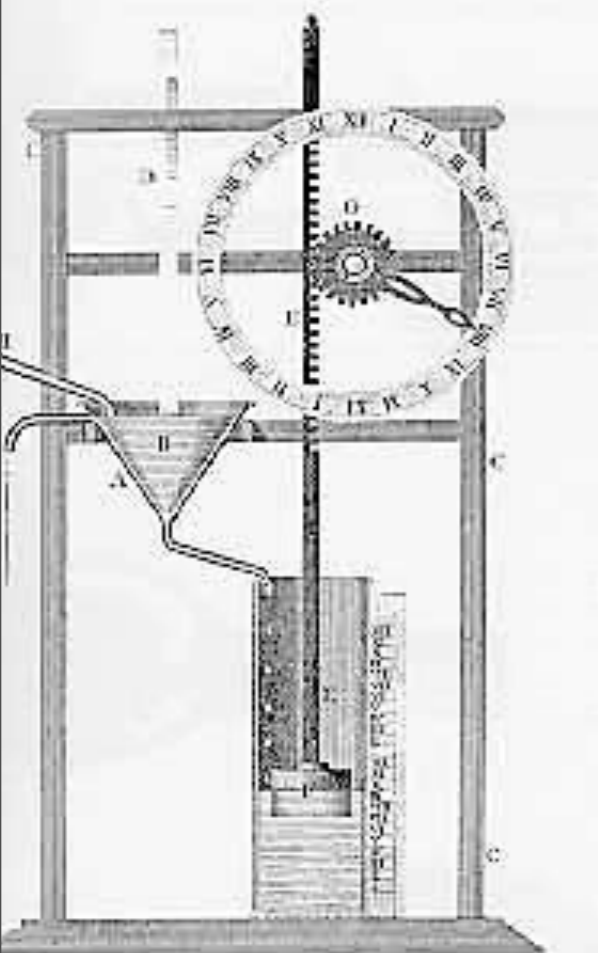
**c. 3100 bce**



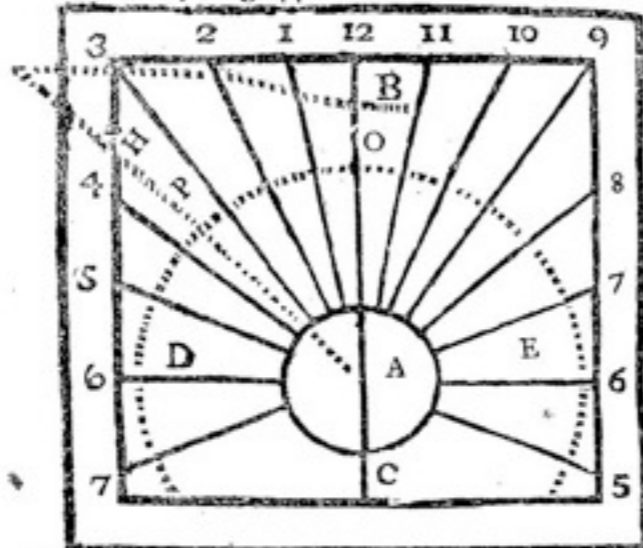
**antikythera c 200 bce**



# clock time



244 *The Young Man's Best Companion.*  
 But to proceed to Dialing, the following Figure represents an Horizontal Dial, described for the Latitude of New-York, at 41 deg. 44m. North.



First, 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 following 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.

Hours.		Hour.
Fere-noon.	After-noon.	Arches D. M.
11	1	9 46
10	2	20 22
9	3	32 44
8	4	48 4
7	5	67 22

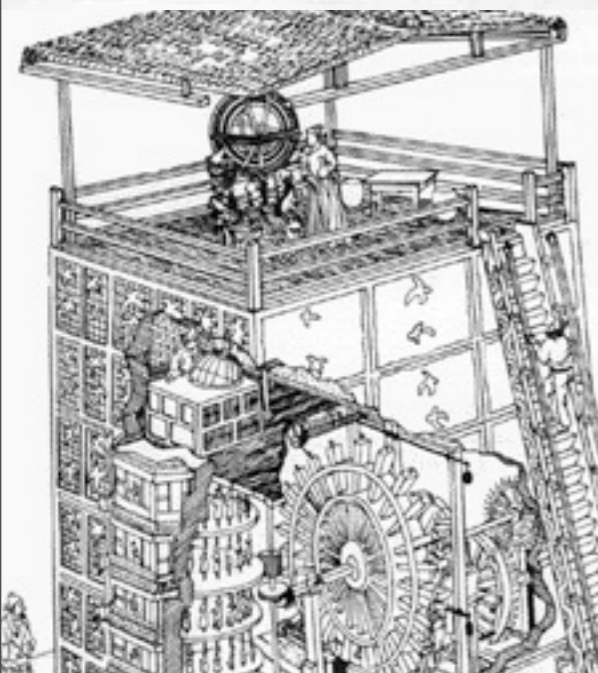
**3500 bce:** sundials

**1400 bce:** Egyptian water clocks

**700 ce:** hourglasses

**1086:** Su Sung's water tower

**1668:** Joseph Moxon,  
*Mechanick Dyalling*



"From the 14th century onwards church clocks and public clocks were erected in the cities and large market towns ...the sundial remained in use"



Richard of Wallingford  
1292–1336

# automata

**1300:** mechanical clocks  
Richard of Wallingford  
celestial instruments &  
St Albans' clock

**1656:** Huygens pendulum clock

**1660:** Hooke & the spring watch

86

*The Antiquity* Chap. VI.

*modum dentata, quæ una motione coacta, versando faciunt effectus, varietatesque motionum: in quibus moventur Sigilla, vertuntur Metæ, calculi aut Tona projiciuntur,*

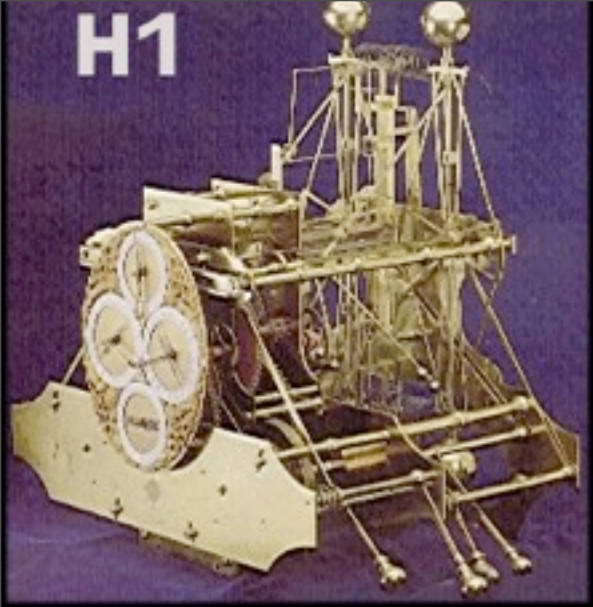
Chap. VI. of Clock-work

Clocks, and some other Automata, might have their beginning there; or that Clock-work (which had long been buried in oblivion) might be revived there. But

87

Derham, *The Artificial Clock Maker*, 1693

H1



# going global

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**1730-61:** Harrison's nautical clock

**c1850:** telegraph time

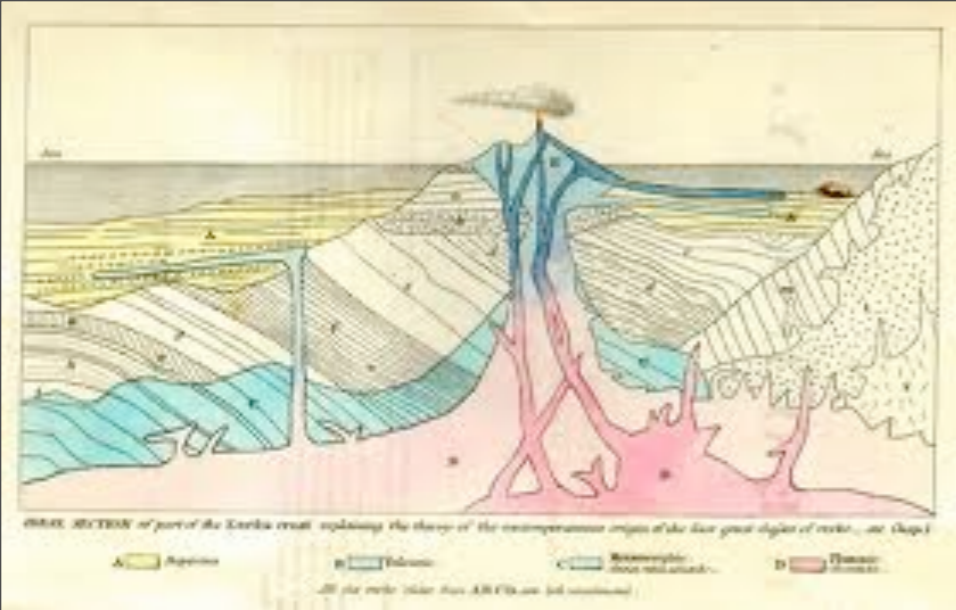
**1852:** Greenwich mean time

**1883:** US standard time

**1884:** Meridian Conference, DC

**1911:** France: Cassini Meridian





times

## **mundane time**

"looking upon her Watch, I accidentally discovered the Figure of a Coronet on the back Part of it."

--Addison, *Spectator* 8, March 1711

## **absolute time**

"Absolute, true, and mathematical time, of itself, and from its own nature, flows equably without relation to anything external."

Isaac Newton, *Principia Mathematica*, 1687

## **geological time**

Lyell, Darwin

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# overview

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**concepts of time**  
**technology of time**  
**time control**  
**accounting**  
**balancing**  
**balance of trade**



# time control

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## **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"



Laurence Sterne,  
1713–1768

## the wind up

---

*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*

# work patterns

---

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.)

Monday is Sundayes brother;  
Tuesday is such another;  
Wednesday you must go to Church and Pray;  
Thursday is half-holiday

# fields to factories

---

## **task orienting to time orienting**

"the industrial revolution demanded a greater  
synchronization of labour"

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

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

"fight, not against time, but about it"

# factory discipline

---

## **Wedgwood's Etruria** clocking in



**Coming up**  
*advertising*

# battles ahead

## making out & speeding up



# overview

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**concepts of time**  
**technology of time**  
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# accounting time



Geoffrey Chaucer  
1340–1400



## work and leisure

How longe tyme wol ye rekene and caste  
Youre somme, and your bookes, and your thynges?  
The devel have part on all swich rekenynge

Geoffrey Chaucer, *The Shipman's Tale*

"What can there great and noble be  
expected from him whose attention is  
ever fixed upon balancing his books,  
and watching over his expenses?"

Joseph Addison, *Spectator*



Coming up  
advertising

popular item

mysterious

Mr Fisher and

Mrs Slack

*James O R,*  
**INSTRUCTOR:**

*James O R,*  
*Young Man's Best Companion.*

CONTAINING,

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 Prose and Verse. How to write Letters on Business or Friendship. Forms of Indentures, Bonds, Bills of 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, Joiners, Sawyers, Bricklayers, Plasterers, Plumbers, Masons, Glasiers, and Painters Work*. How to undertake each Work, and at what Price; the Rates of each Commodity, and the common Wages of Journeymen; with *Gunter's Line*, and *Coggeshal's Description of the Sliding-Rule*.

Likewise the **PRACTICAL GAUGER** made Easy; the Art 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 Preserve*; to make divers Sorts of *Wine*; and many *excellens Plaisters, and Medicines*, necessary in all *Families*.

And also

*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**, Accomptant.

*The Ninth Edition Revised and Corrected.*

**PHILADELPHIA**: Printed by B. FRANKLIN and D. HALL, at the New-Printing-Office, in *Market-Street*, 1748.

# made in America

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*In the British Edition of this Book, there were many Things of little or no Use in these Parts of the World : In this Edition those Things are omitted, and in their Room many other Matters inserted, more immediately useful to us Americans. And many Errors in the Arithmetical Part are here carefully corrected.*

VALE & FRUERE.

# opportunity costs

---

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

Remember that CREDIT is money ...

Remember that Money is of a prolific  
generating Nature...

# tucked in the back

---

*Advice to a young Tradesman, written by an old One.*

To my Friend *A. B.*

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

# quick history of information

---

The Use of Great and Small Letters; how to divide them into Vowels and Consonants; what Diphthongs are, their their Numbers, and how pronounced and written.

Of Letters Great and Small, and when to be used.

To hold the Pen.

How to make a Pen.

Copies in Prose, and Clinging, in Alphabetical Order.

Familiar Letters on several Occasions, and on divers Subjects.

A Letter from a Son to his Father.

The Answer.

A Letter from a Young Man to his Uncle.

The Uncle's Answer.

Of ARITHMETICK.

ADDITION.

How to prove ADDITION.

SUBTRACTION.

MULTIPLICATION.

# 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

# determinism

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## **Max Weber (1864-1920)**

"a rationalistic capitalistic establishment ... one with capital accounting, that is, an establishment which determines its income yielding power by calculation according to the methods of modern bookkeeping and the striking of a balance"

## **Werner Sombart (1863-1941)**

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

# spreading the numbers

---

"In the past seven centuries bookkeeping has done more to shape the perceptions of more bright minds than any single innovation in philosophy or science. While a few people pondered the words of René Descartes and Immanuel Kant, millions of others of yeasty and industrious inclination wrote entries in neat books and then rationalized the world to fit their books."

Alfred Crosby, *The Measure of Reality*



# accounting

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## **Sumerian tablets** record keeping

"if a man has given on deposit without elders  
or contract ...[if] they contest it, there  
shall be no claim"  
--Hammurabi  
1700 bce

**Roman**  
adversaria, codex accepti et dispensi, liber rationum

## **merchant accounting**



# the Italian method

**1494:** Luca Pacioli *Summa de Arithmetica*

"The inventor of Accounting ... for more than ten thousand years ... no one ... had attempted to keep business records by double entry.... Luca Pacioli changed all that"  
[cp Gutenberg ...]



Luca Pacioli  
c 1445– 1517

**1211:** proto double entry, Florence

**c 1340:** double entry in Genoa

**1366:** The Merchant of Prato  
(Francesco di Marco Datini) "Arabic" numerals

# accounting for ...

---

## **profit . . .**

"the Pleasure that accrues to a Person by seeing what he gains by each Species of Goods .. and his whole Profit by a Year's trade"

## **. . . and control**

"to know the true State of his Affairs and Circumstances; so that he may, according to Discretion, retrench or enlarge his Expences, &c. as he shall think fit."

still going



## Find balance Quicken Deluxe 2011

### Features and Benefits

What's New for 2011

System Requirements

Help and Support

See How it Works 

## Set goals and save

### Key features and benefits:

- Shows ALL your accounts in one place
- Categorizes your expenses — see where your money's going
- Guides you through setup — get up and running fast
- Shows you where to save — create customized plans for retirement, large purchases, and reducing debt

# waste-book

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

*Delivered, of the ...*


## *Waste-Book Entry.*

*London, January 1, 1758.*

*Bought of William Wilkins, of Norton-Falgate, 120 Yards of white Sarcenet, at 2s. 3d. per Yard, to pay in two Months. — — — — —*

<i>l.</i>	<i>s.</i>	<i>d.</i>
13	10	—


# updating

Checking 


Opening Balance on 11/06/2010: \$13,304.98

Due	Pay To / Receive From	Amount
11/6/2010	Student Loans	-270.50

Closing Balance: \$13,034.38

**Quicken** 

2/16/11	Number	Payee		Spend	Receive
		Category	Memo		

Record Clear New NewAccounts07 Cash 

# journal

---

"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."

5/23/06	WITHD	Good Earth Groceries	27.36	Deposit	1,669.04
		Groceries	4456 PURCHASE	Open Split	
5/23/06	[FT	Sun State Credit Cards	250.00		1,419.04
		[Sun State]			
5/24/06	1209	Water Company	32.15		1,386.89
		Utilities:Water			
5/27/06	[FT	Phone Company	47.62		1,339.27
		Utilities:Telephone			

# journal

"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."



## Keeping a Day Book.

**BOTH** merchants and mechanics are greatly indebted to their books of accounts, for information and success in the several branches of their business, by regular and correct entries. The transaction of every day should be correctly noted. The time when you plough, sow, plant, mow, pull flax, cut fuel, gather corn, potatoes, &c. and the quantity and quality of manure laid on each field, should be carefully noticed. You will then know the season when labor must be done the next year, in those fields, and the kinds and proportions of manure required to dress them. Farmers should weigh all their pork, beef, butter and cheese; and measure all their grain, corn, potatoes, &c. and indeed, every article they lay up for winter; and also the time when they kill their creatures and the food on which they were fatted. This will shew the quantity they consume, what, and how much of each article, and how much they may have to dispose of. Days on which they hire laborers; the labor performed on those days, and the price paid for that labor, should be entered. This will shew what time and labor must be performed the next year, the price of it, and the money which may be wanted to carry on the business of the farm. Every farmer should mark the day on which his cows, mares, &c. associate with the males of their several kinds; he will then be able to provide proper room, &c. for the reception of their young and to attend to their keeping in due season, and which ought to be a little better than common, at those periods.

For want of this attention, multitudes of calves, lambs, pigs, &c. are annually lost. The ages of lambs, calves, colts, &c. should be carefully noted, and the weight of them when killed; as this will point out those ewes, cows, &c. which are best for breeders; which is a very material branch of knowledge, in regard to the growth and value of a stock of cattle. In short, the Farmer should note the business of every day, how and where he past it, and what the weather was; and he should not forget, that so much of the goodness of his crops depends upon early and seasonable cultivation, that he had better give any price for labor than be belated; more depends on this than farmers in general seem to be sensible of. Flax, sowed early, will have a better coat, and more seed than when sowed late. Barley sowed early will not be liable to blast and mildew; and indian corn planted and hoed in good season, will not be so liable to suffer from drought, and from frosts, and will be fuller and heavier, than when planted late, poorly ploughed, and indifferently hoed. Grass land on which manure is spread early, will yield a much better crop, than if spread late, and *one* load of grass, cut when ripe, and before it withers and turns white in the field, will be of more value than *two* loads of the same kind, cut after it is ripe, dried away and weatherbeaten: it has lost its juices in this state, which is all that is valuable. Our summers are so short, that every possible advantage should be taken for early cultivation: for negligence and inattention in the spring, will certainly be followed by cold and hunger of the following winter.

# ledger

---

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

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

Waste-Book.

London, Feb. 2d. 1758.

Sold Thomas Townsend, viz.

246 lb. of Virginia Cut Tobacco, at 14d. per lb.	}	14 07 —	l.	s.	d.
460 Ells of Dowlas, at 3s. per Ell		69 — —			
		83 07			

Feb. 2.

Journal.

6 Thomas Townsend, Debtor to Sundries, viz.

1 To Tobacco, for 246 lb. at 14d. per lb.	}	14 07 —	l.	s.	d.
1 To Dowlas, for 460 Ells, at 3s. per Ell.		69 — —			
		83 07			

Waste-Book.

Ditto 24th.

Bought of Leonard Legg, 4 Pipes of Canary, at 28l. per Pipe. To pay in 6 Months.

112

Ditto 24th.

Journal.

1 Canary Wine, Debtor to Leonard Legg, for 4 Pipes, at 28l. per Pipe.	}	112	l.	s.	d.
2 To pay in 6 Months.					

112

# cross referencing

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.

# double-entry

---

**well, duh ...**

"This Art of *Italian* Book-keeping, is called *Book-keeping by double Entry*, because there must be two Entries; the first being a Charging of a Person, Money, or Goods; and the second a Discharging of a Person, Money or Goods.

John Schmidt-Surlehn

D

174	February 12 To Goods for 119 dozens	3	215 12
175	May 25 To do for 116 dozens	157	190 6
176	Sept 7 To Staffs for 20 Bundles	256	64
177	Decem 16 To do for 30 Bundles	.	06 6
			<u>100 6</u>
175	April 29 To Goods for 58 dozens	269	135 10 4
176	May 15 To Staffs for 20 Bundles	275	53 8 4
176	July 12 To do for 15 dozens of Linings	255	206 6
			<u>395 4 8</u>
176	July 3 To Goods for 60 dozens	296	112 3
177	Sept 13 To Staffs for 22 Bundles	298	58 4
177	Sept 31 To Goods for 110 dozens	299	166 15
177	April 25 To Goods for 102 dozens	302	264 8
177	October 22 To W. Madden some Alts. advised by him to pay them	157	15 15 8
			<u>283 3 8</u>

W & J Cox & Nottingham

179	Decem 31 To Goods	173	3
179	Aug 21 To W. Madden for off in Ltd to London	154	100
179	Septem 29 To Cash	169	65
179	Decem 31 To Abatements for direct received	164	4 13
			<u>175 13</u>
179	Novem 31 To Cash paid them	223	107 11
179	Decem 31 To do for 77.00 direct	256	9 3 6
175	July 29 To Cash paid them	272	145
176	Aug 31 To do	.	12 14
176	Aug 31 To do	.	33 7
176	Oct 31 To do	.	36 16
176	Decem 31 To do	.	27 5
			<u>271 6 6</u>
176	Aug 31 To Cash paid them	272	46 10
176	Sept 31 To do	.	144 7
176	Decem 31 To do	.	22 5
	To Abatements for Direct received	247	17 14 10
			<u>230 16 10</u>
177	May 31 To Cash paid them	272	80 6
177	July 31 To do	.	140 11
	To London of off in Ingh & London	244	78 13
177	Aug 31 To Cash paid them	272	13 11
177	Decem 31 To do	.	103 9 4
	To Abatements for Direct received	307	48 18 5
			<u>466 8 9</u>

£224.14.0

Contra

174	October 15 By London for 2 Bills on London & direct £12.0	754	215 12
174	Decem 14 By Staffs for off in Harman to London and by from Baltimore	157	185
174	Decem 31 By Abatements for direct received (see entries & draw this Bill & return of off in)	164	5 6
			<u>190 6</u>
175	Novem 30 By Cash of Reid Ingh & London & 30 night	223	00 3 3
175	Decem 31 By Abatements for off in Ltd	149	3 16 9
175	March 31 By Sundries & off in John Mayer London for 10 & 6 to direct £5.16 7 7 1/2	272	00 6
			<u>100 6</u>
175	Aug 31 By Cash of off in Harman & London	272	150
175	Decem 30 By do	.	26 12
	To Abatements for off in Ltd	276	11 6 7
175	May 31 By Sundries of off in London for 13 & 6 to direct £12.8	244	207 6
			<u>305 4 8</u>
175	October 14 By Sundries of off in B. A. Godefrucht to & 6 to direct £11.5 11 3/4	154	7 12 3
175	March 31 By Sundries of off in C. P. Wagners London & 6 to direct £13.10 11 3/4	154	2 13 10
175	April 30 By Cash of off in Harman & do	272	11 9
			<u>224 14 0</u>
177	Oct 22 By Sundries of 2 Bills on London & 6 to direct £15.17	203	283 3 8

CONTRA

179	Decem 31 By Staffs for 294 11 Silks bought this year	151	120 7 5
179	Decem 31 By London 12.11.10 & 4 7/2 dit. Silk piece	1125	46 5 7
			<u>175 13</u>
179	Decem 31 By Staffs for 58 # Silks	256	164 12 6
175	Decem 30 By do for 134.12 &	285	106 9
			<u>271 6 6</u>
179	Decem 31 By Staffs for 101.11.4 Silks bought	249	230 16 10
179	Decem 31 By Staffs for 191 # Silks bought	305	466 8 9

# overview

---

**concepts of time**  
**technology of time**  
**time control**  
**accounting**  
**balancing**  
**balance of trade**

## wine account

27

	Wine Cr			Wine Dr	
39	10 pipes to Smith	400	18	vineyards	100
			26	transport	100
			52	bottlers	100
			5	balance to profit & loss	100
		400			400

## John Smith account

39

	Smith Cr			Smith Dr	
17	cash, May 1	40	27	10 pipes of wine	400
	bill June 1	200			
	by Tom Jones	160			
		400			400

# P & L 1814

27	Wine	5,909		13	House expenses	229
	Merchandize	102		14	House account	951
		6,011		15	Resident's salary	2,840
	to balance	1,030		38	Sundries	4,021
		7,041				7,041
		<b>18</b>	<b>15</b>			
28	Wine	15,209			from balance	1,030
				13	House expenses	400
					House account	
				15	Resident's salary	3,331
				38	Sundries	5,313
				1	to Partners	5,135
		15,209				15,209



# overview

---

**concepts of time**  
**technology of time**  
**time control**  
**accounting**  
**balancing**  
**balance of trade**

**U.S. Census Bureau**  
**U.S. Bureau of Economic Analysis**  
***NEWS***

U.S. Department of Commerce • Washington, DC 20230

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**FOR IMMEDIATE RELEASE**  
**8:30 A.M. EST FRIDAY, FEBRUARY 11, 2011**

For information on goods contact:

**U.S. Census Bureau:**

*Matthew Przybocki* 301-763-3148

*Maria Iseman* 301-763-2311

For information on services contact:

**U.S. Bureau of Economic Analysis:**

*Technical: Edward Dozier* 202-606-9559

*Media: Ralph Stewart* 202-606-2649

CB11-26, BEA11-04, FT-900 (10-12)

**U.S. INTERNATIONAL TRADE IN GOODS AND SERVICES**  
**December 2010**

# Exhibit 1. U.S. International Trade in Goods and Services

In millions of dollars. Details may not equal totals due to seasonal adjustment and rounding. (R) - Revised.

Period	Balance			Exports			Imports		
	Total	Goods (1)	Services	Total	Goods (1)	Services	Total	Goods (1)	Services
<b>2008</b>									
Jan.- Dec.	-698,802	-834,652	135,850	1,839,012	1,304,896	534,116	2,537,814	2,139,548	398,266
January	-59,923	-71,272	11,349	150,104	106,407	43,697	210,028	177,679	32,348
February	-62,655	-73,607	10,952	152,699	109,064	43,635	215,354	182,670	32,684
March	-58,898	-70,721	11,823	152,450	108,037	44,413	211,348	178,758	32,590
April	-62,973	-74,861	11,888	156,784	112,140	44,645	219,757	187,001	32,756
May	-61,175	-73,926	12,750	158,771	112,928	45,843	219,947	186,854	33,092
June	-61,295	-73,879	12,584	163,550	117,569	45,981	224,845	191,448	33,397
July	-66,401	-78,694	12,294	165,679	119,674	46,005	232,079	198,368	33,712
August	-61,449	-72,548	11,099	162,892	117,204	45,689	224,342	189,751	34,590
September	-59,770	-71,055	11,285	152,892	108,214	44,678	212,662	179,269	33,393
October	-59,442	-69,980	10,537	150,160	105,752	44,408	209,603	175,731	33,871
November	-43,804	-53,173	9,369	141,121	98,551	42,570	184,924	151,723	33,201
December	-41,016	-50,937	9,921	131,910	89,358	42,552	172,925	140,295	32,631
<b>2009</b>									
Jan.- Dec.	-374,908	-506,944	132,036	1,570,797	1,068,499	502,298	1,945,705	1,575,443	370,262
January	-36,067	-45,912	9,845	125,461	84,285	41,176	161,528	130,197	31,331
February	-26,362	-36,684	10,322	126,923	85,925	40,998	153,286	122,610	30,676
March	-28,009	-38,601	10,592	125,994	84,834	41,160	154,002	123,435	30,568
April	-28,445	-39,366	10,920	124,119	82,685	41,435	152,565	122,050	30,514
May	-24,855	-35,900	11,044	125,841	84,757	41,084	150,696	120,656	30,040
June	-27,139	-38,241	11,102	127,869	86,580	41,290	155,009	124,821	30,188
July	-33,086	-43,746	10,660	129,616	88,233	41,384	162,702	131,979	30,724
August	-31,072	-42,105	11,033	130,350	88,611	41,739	161,421	130,716	30,705
September	-35,164	-46,268	11,104	134,180	92,014	42,165	169,343	138,282	31,061
October	-32,302	-43,976	11,674	138,094	95,217	42,877	170,396	139,193	31,203
November	-35,273	-47,063	11,790	138,997	95,729	43,268	174,270	142,792	31,478
December	-37,132	-49,082	11,950	143,353	99,631	43,723	180,485	148,713	31,772
<b>2010</b>									
Jan.- Dec.	-497,824	-646,541	148,717	1,831,835	1,289,059	542,776	2,329,659	1,935,599	394,059
January (R)	-34,698	-47,110	12,412	144,685	100,555	44,130	179,383	147,665	31,718
February (R)	-39,770	-51,525	11,756	144,540	100,328	44,212	184,310	151,854	32,456
March (R)	-39,557	-52,260	12,703	150,208	105,275	44,933	189,765	157,535	32,230
April (R)	-40,620	-52,598	11,979	147,948	104,298	43,649	188,567	156,897	31,671
May (R)	-42,045	-54,480	12,435	152,188	107,294	44,894	194,233	161,774	32,459
June (R)	-49,988	-62,066	12,078	150,242	105,089	45,153	200,230	167,155	33,075

Author: 123jump.com Staff

123jump.com

Last Update: 6:34 AM ET February 15 2011

# U.S. trade gap widens to 3-month high

Recommend

48 recommendations. Sign Up to see what your friends recommend.

By Annalyn Censky, staff reporter February 11, 2011: 9:49 AM ET

NEW YORK (CNNMoney) -- The U.S. trade gap widened to a three-month high in December, driven largely by rising commodities prices.

The trade balance, which measures the difference between the nation's imports and exports, grew to a \$40.6 billion deficit in December, up from \$38.3 billion in November, the Commerce Department said Friday.

## The Untold Story of the U.S. Trade Deficit: Rising Exports

By JOSEPH LAZZARO

Posted 11:00 AM 02/16/11 | Energy, Columns, Economy, General Electric, Boeing, Deere & Co

Comments Text Size A A A

Print | Email | Facebook | Twitter | LinkedIn | RSS

The U.S. trade deficit grew to \$497.8 billion in 2010, but that number is actually somewhat deceptive. In fact, the nation's manufacturing sector posted significant continued export gains last year. These were obscured, however, by two longstanding problems: America's imported oil bill and its large trade deficit with China.



AFP/Getty Images

# China trade balance surplus narrows in January imports accelerates

Article

Share 0 retweet 0 Buzz up! Share

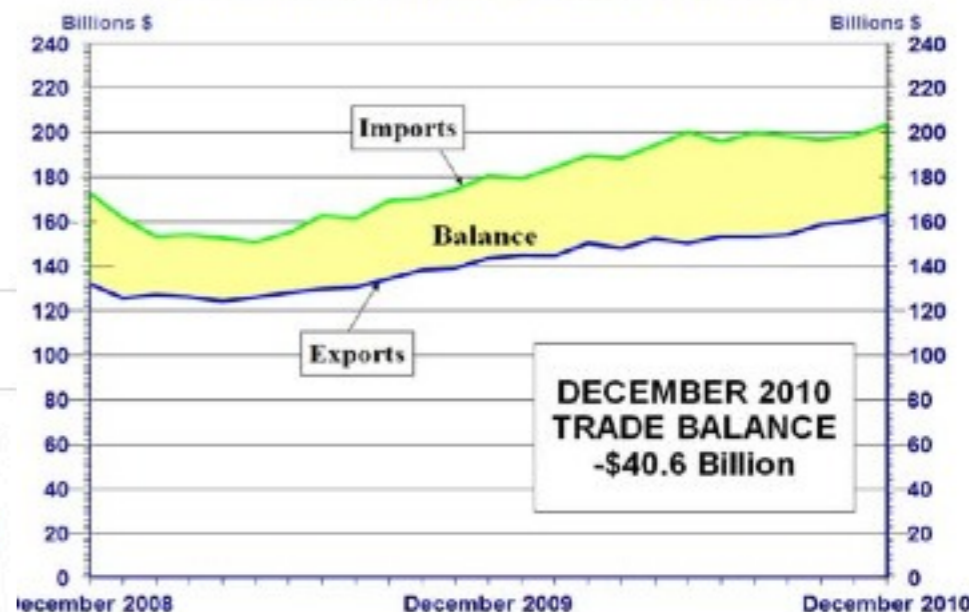
Rate this

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February 14, 2011 12:21 AM EST

China's economy issued today its report, showing that the trade balance surplus narrowed during the month. Imports growth accelerated more than expected for the four consecutive months, came as a negatively impact on

U.S. International Trade in Goods and Services



footer

# balancing nations

---

## **Treaty of Utrecht, 1713**

War of the Spanish Succession

## **the commercial treaty**

free trade with France

## **the balance of trade**

mercantilism and national interest



# trade problems

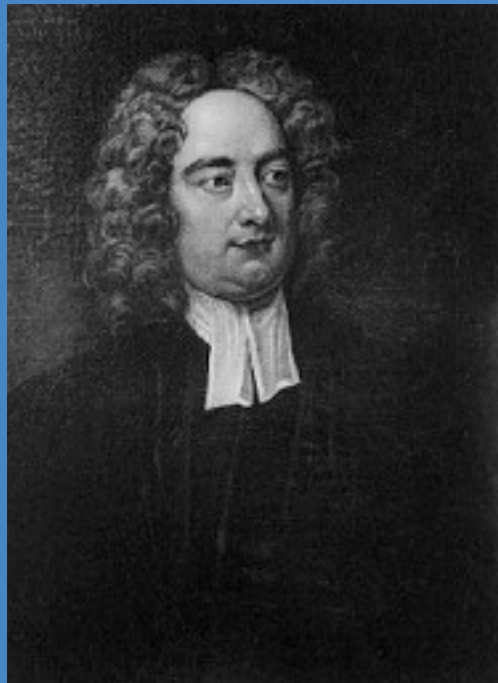
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## **rousing the wool interest**

*Mercator* (Daniel Defoe)

vs

*British Merchant* (Paul Methuen)



Paul Methuen  
1672-1757

# search for statistics

THE *mu* *xi* *xi* *xi* *xi*  
**BRITISH**  
**MERCHANT;**  
OR,  
**Commerce Preserv'd.**  
  
**IN THREE VOLUMES.**  
  
By Mr. CHARLES KING,  
*Chamber-keeper to the Treasury, and late of*  
*London Merchant.*  
  
LONDON:

To sum up all, if we pay to <i>France</i> yearly,	
	L.
For their Wines	450000
For their Brandies	70000
For their Linen	600000
For their Paper	30000
For their Silks	500000
	—————
	1650000
And they take from us in } Lead, Tin, Leather, Allum, } Copperas, Coals, Horn-Plates, } &c. and Plantation-Goods, to } the Value of	200000
	—————
<i>Great Britain</i> loses by the } Balance of that Trade yearly }	1450000
	—————

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

VS

Paul Methuen

# balancing acts

---

"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



David Hume  
1711–1776



# unbalanced?



The screenshot shows the website 'The New American' with a navigation menu including HOME, U.S. NEWS, WORLD NEWS, ECONOMY, SCI/TECH, HISTORY, REVIEWS, and CULTURE. Below the menu are sub-sections: Commentary, Economics, Markets, and Sectors. The main article is titled 'Perot Vindicated as NAFTA Causes Mass Outsourcing of Jobs' and is written by Kelly Holt, dated Monday, 14 February 2011 17:18. The article includes social media sharing buttons for Tweet (3), Like (255), and Buzz (0). A portrait of Ross Perot is shown next to the text, which discusses his 1992 presidential campaign warning about NAFTA causing mass outsourcing of American jobs. The text states that NAFTA went into effect on January 1, 1994, and that the resulting loss of American jobs has been significant. A link to 'Print' and 'E-mail' is also visible.

## The New American

HOME | U.S. NEWS | WORLD NEWS | **ECONOMY** | SCI/TECH | HISTORY | REVIEWS | CULTURE |

Commentary | Economics | Markets | Sectors

### Perot Vindicated as NAFTA Causes Mass Outsourcing of Jobs

| Print | E-mail

WRITTEN BY KELLY HOLT  
MONDAY, 14 FEBRUARY 2011 17:18

[Tweet](#) 3 [Like](#) 255 [Buzz](#) 0



During his 1992 presidential campaign, Texan Ross Perot was maligned for his warning that the North American Free Trade Agreement (NAFTA) would cause many American jobs to be outsourced. But it turns out he was right about that “giant sucking sound.” NAFTA went into effect January 1, 1994, and the resultant suction of American jobs to points south – and ultimately west – has seemed almost audible.

According to the [analysis](#) of Global Economic Intersection (GEI), the goods balance of trade for the U.S. with Mexico has been negative and growing since the adoption of NAFTA. GEI, an economics-based website, focuses on the effects of economics on finance, investing, social interactions, politics, and public policy, and also features analysis of economic indicators.

# where we've been

---

**concepts of time**  
**technology of time**  
**time control**  
**accounting**  
**balancing**  
**balance of trade**

# next week

---

## **22 Feb: Reference books and the organization of knowledge**

### Required reading:

- McArthur, Tom. 1986. *Worlds of Reference*. Cambridge: Cambridge University Press. Ch 13, "Reference and Revolution" and 14, "Thematic Lexicography," pp. 128-138 in the reader.
- d'Alembert, Jean Le Rond. 1751. [Preliminary Discourse](#) to the Encyclopedia of Diderot, Selections from Part I. (Entire text can be found [here](#).)
- Book of [plates](#) from Diderot's Encyclopedie at [archive.org](#). Slide hand icon at bottom to browse.

## **24 Feb: The Rise of Literacy and Standard Languages**

### Required reading:

- McArthur, Ch's.12, "The Legislative Urge" and 15, "Alphabetic Lexicography," pp. 121-127, 139-143 in reader.
- Johnson, Samuel. 1755. ["Preface" to the Dictionary](#) (selections; full text [here](#)).
- Johnson, Samuel. 1785 (1755). [A Dictionary of the English Language](#). Slide hand icon at the bottom and page forward/back until you come to the definition of *dictionary*.)