An Introduction to Double-Entry Book Keeping

Or Here's one I made up earlier

Luca Pacioli Venice 1494



Summa de arithmetica.
Geometrica,
proportioni et
proportionalita

What went before?

- 1. Roman Numerals
 - M, D, C, X, V, I

- 2. The Abacus
 - Frame abacus
 - Checked cloth = 'Exchequer'

What were the limitations?

- 1. Largest Numeral is M=1,000
- 2. No zero or symbol for nothing or an empty abacus column
- 3. Can't do multiplication or division
- 4. Complex calculations cannot be done on a piece of paper
- 5. Each stage of calculation destroys the stage before, therefore it is not possible to check a result without starting again.

Example

Consider 1999 and 2008

1. Roman style

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MCMXCIX= 1000+(1000-100)+(100-10)+(10-1)
MMVIII=1000+1000+5+(3x1)
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2. Algorithm

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1999 = (1x1000) + (9x100) + (9x10) + (9x1)2008 = (2x1000) + (0x100) + (0x10) + (8x1)
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Mediaeval Accounts

a. Receipts

Arrears

Rents

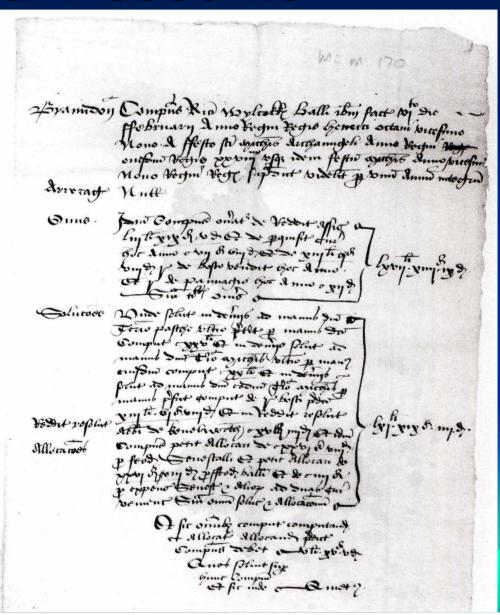
Other Receipts

Total of all receipts

b. Expenses

Necessary expenses
Foreign receipts &livery
Total of expenses

Balance =a-b



16th&17th Century Algorithm

- 1. Robert Record , *Grounde of Artes (1540)*
- 2. Hugh Oldcastle, Manor and Forme how to kepe a perfect reconynge.... (1553)
- 3. John Dee, The Elements of Geometry.....of Euclid of Megara (1570)
- 4. Richard Dafforne, *The Merchants Mirrour......Debtor and Creditor* (1635)

Why Double-Entry?

Every financial transaction is recorded in at least two accounts

Example

Business A sells an item to Business B who pay for the item by cheque

 Business A would credit the amount to "sales"and debit the account called"Bank"

 Business B would debit the account called "purchases" and credit the account called "Bank"

The Elements of Accounts

- Assets
- Liability
- Equity
- Revenue
- Expense

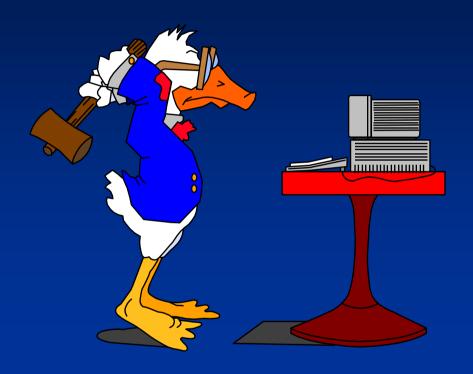
The Accounting Equation

Double-entry Book-keeping is governed by the <u>accounting equation</u>

4 Stage Process

- 1. The Daybook /Journal/books of first entry
- 2. General/ Nominal Ledger (unadjusted trial balance)
- 3. Financial Statements
 - -the balance sheet
 - -profit and loss statement
 - -Statement of retained earnings
 - -cash-flow statement
- 4. Audited and Approved Accounts

That's all Folks!



Any Questions?