Mediation: the story of just one number

Copernicus of Kraków New eyes, new worlds, new words

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Kraków | Saturday 23rd November, 2019

"Words are the signs of ideas"

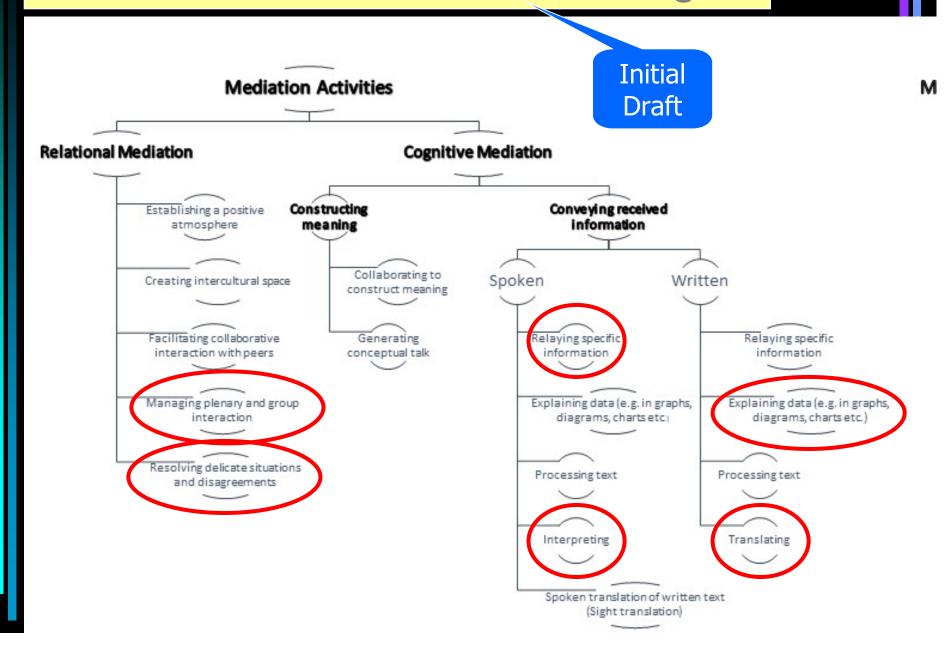
"The great consolation in life is to say what one thinks."

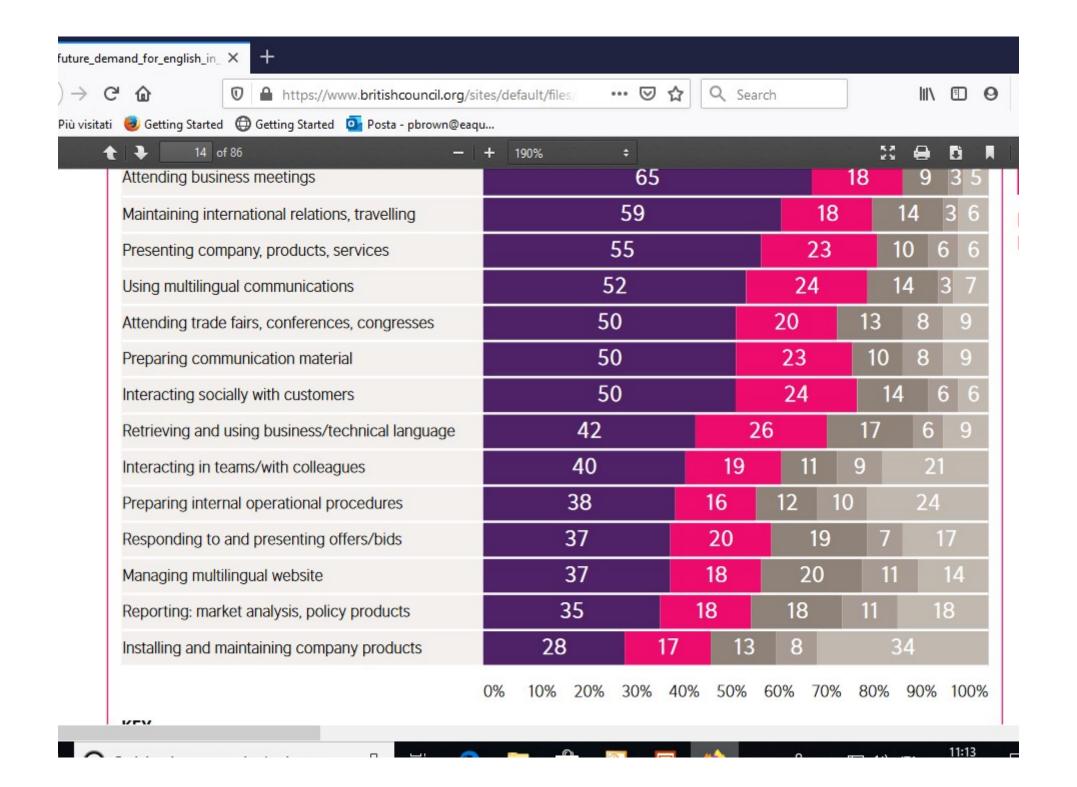
Voltaire (1765)

"Language is the light of reason."

Dr. Johnson (1709-1784)

CEFR Mediation – activities & strategies:



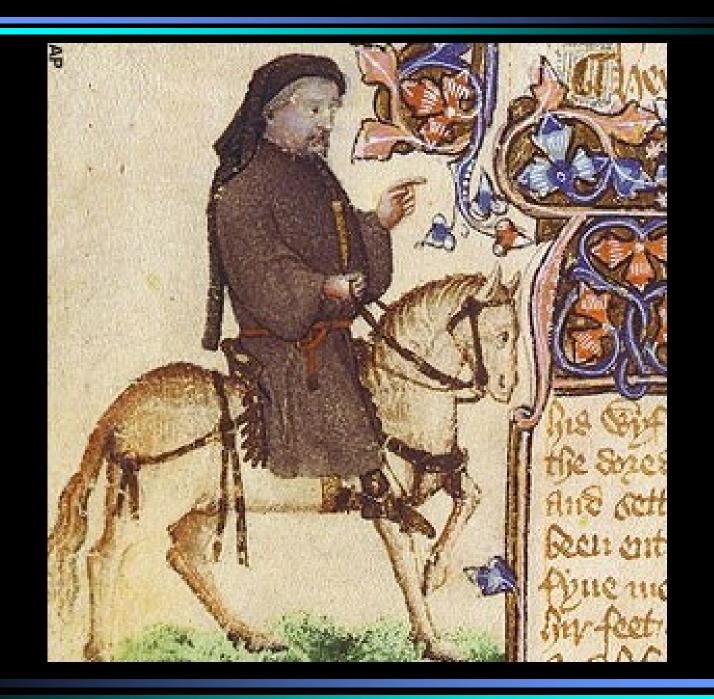






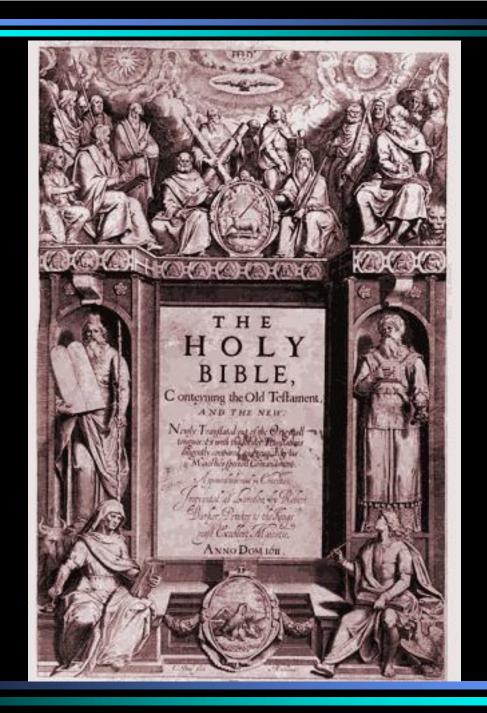
Petrarch 1304 - 1374





Shakespeare – forensic reconstruction





Polyphiloprogenitive ... (T.S. Eliot)

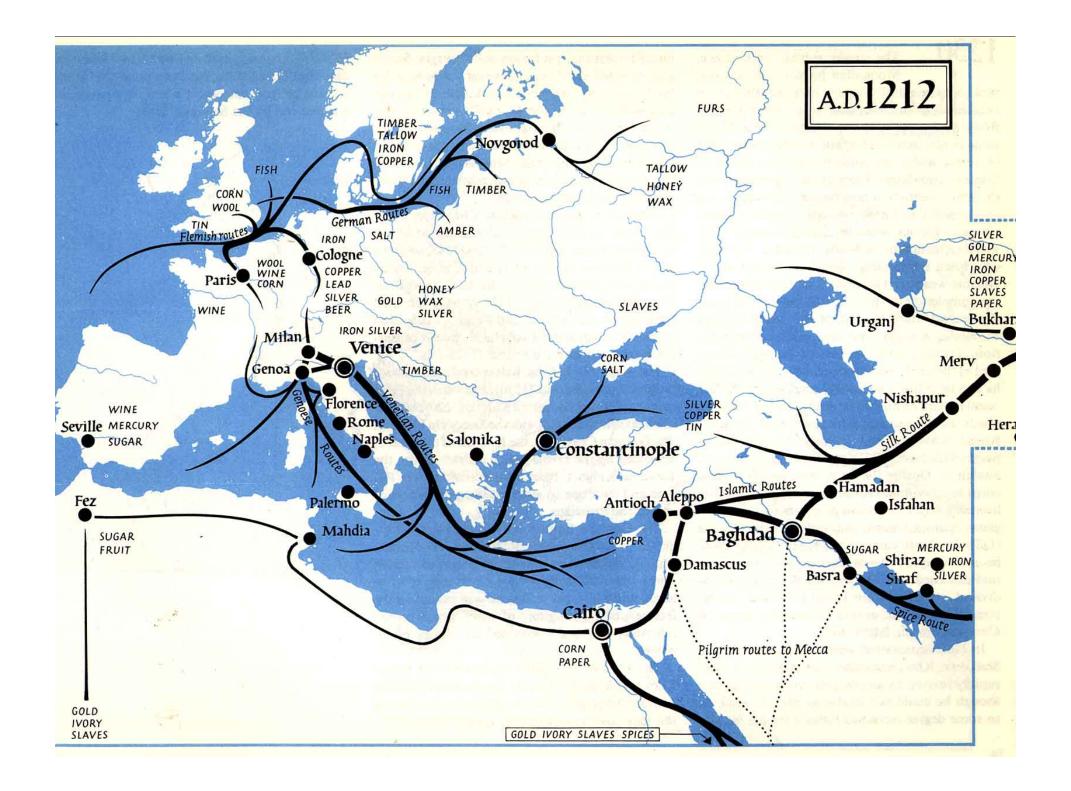
"Lost in Translation..."

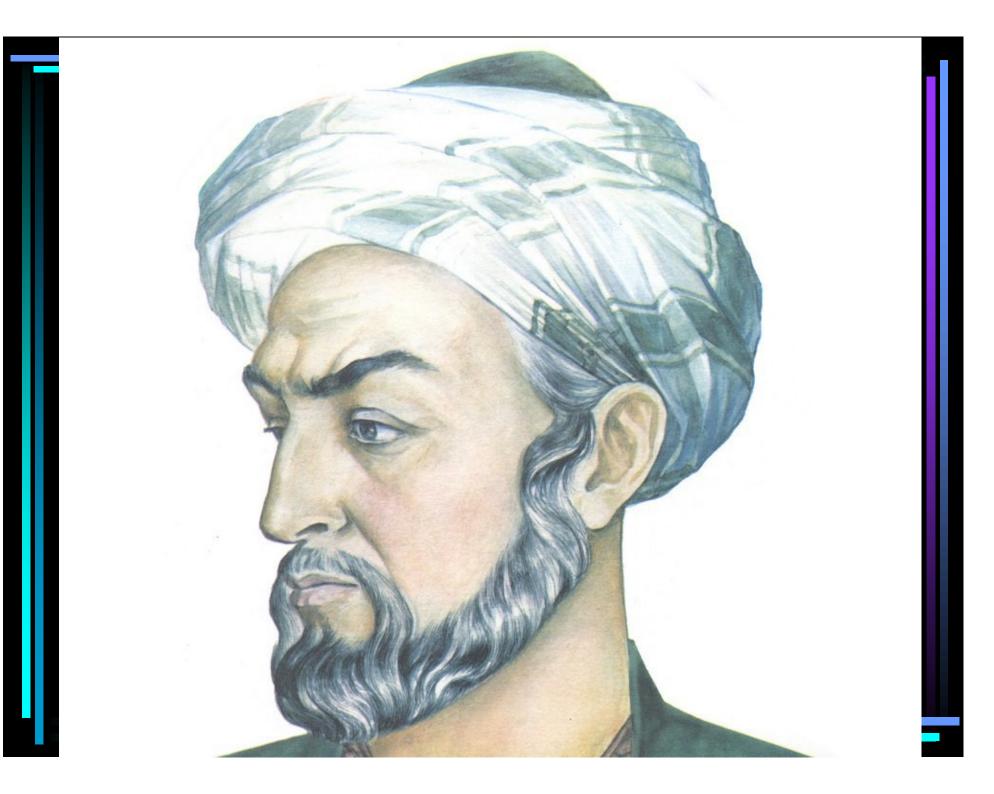
In the beginning was the Word
In principio era il Verbo
(from logos...)

The Via Francigena

The Pilgrim's path from England to Rome

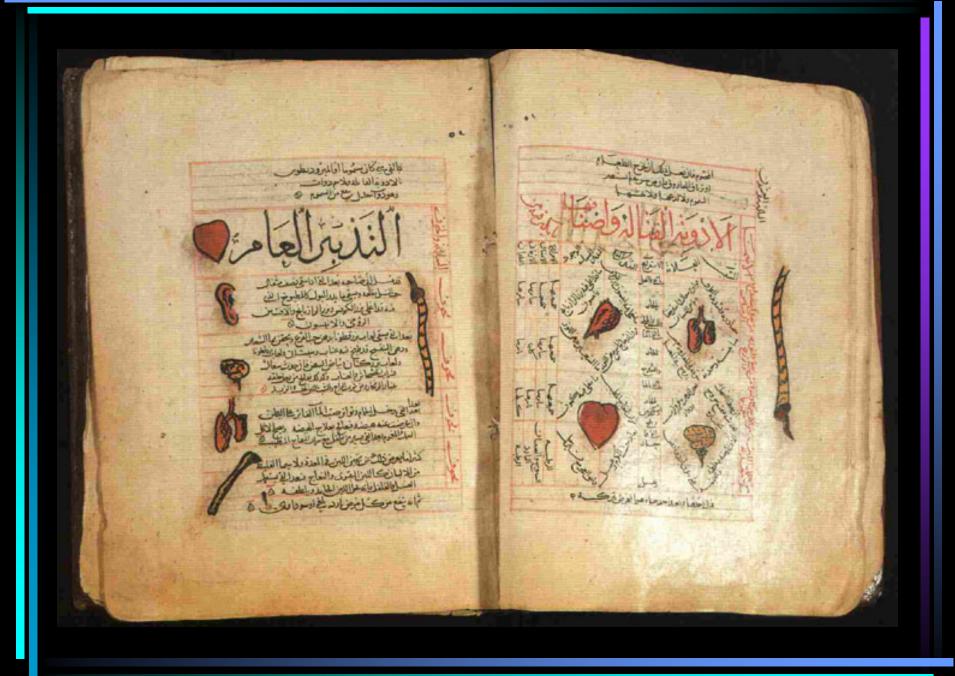


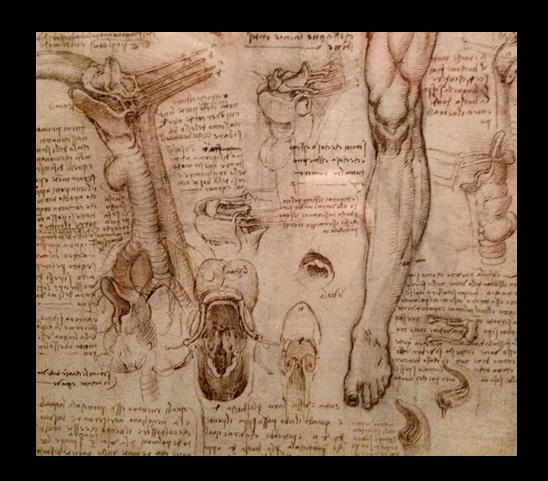




Arabic numerals e.g. 1599 – and etymologies

- Algebra
- Arithmetic
- Alchemy, chemistry
- Algorithm
- Adobe, admiral, albatross, alcohol, alcove, alkali, apricot, arsenal, artichoke, assassin, aubergine, average, azimuth, azure ...



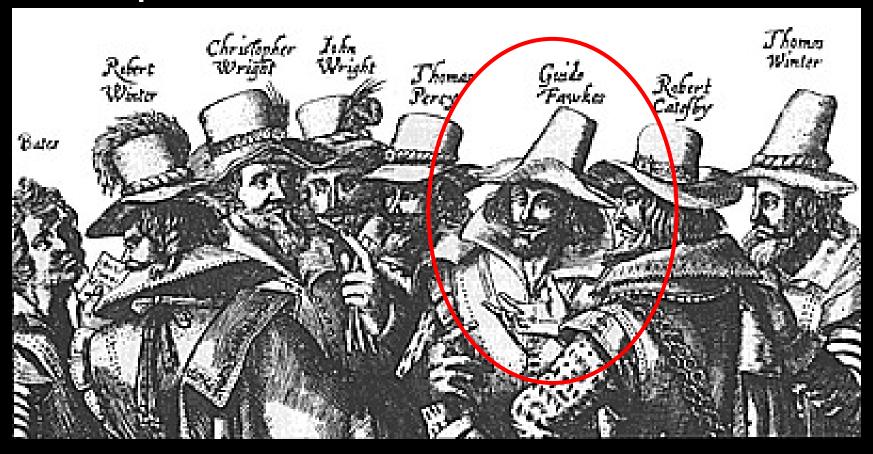


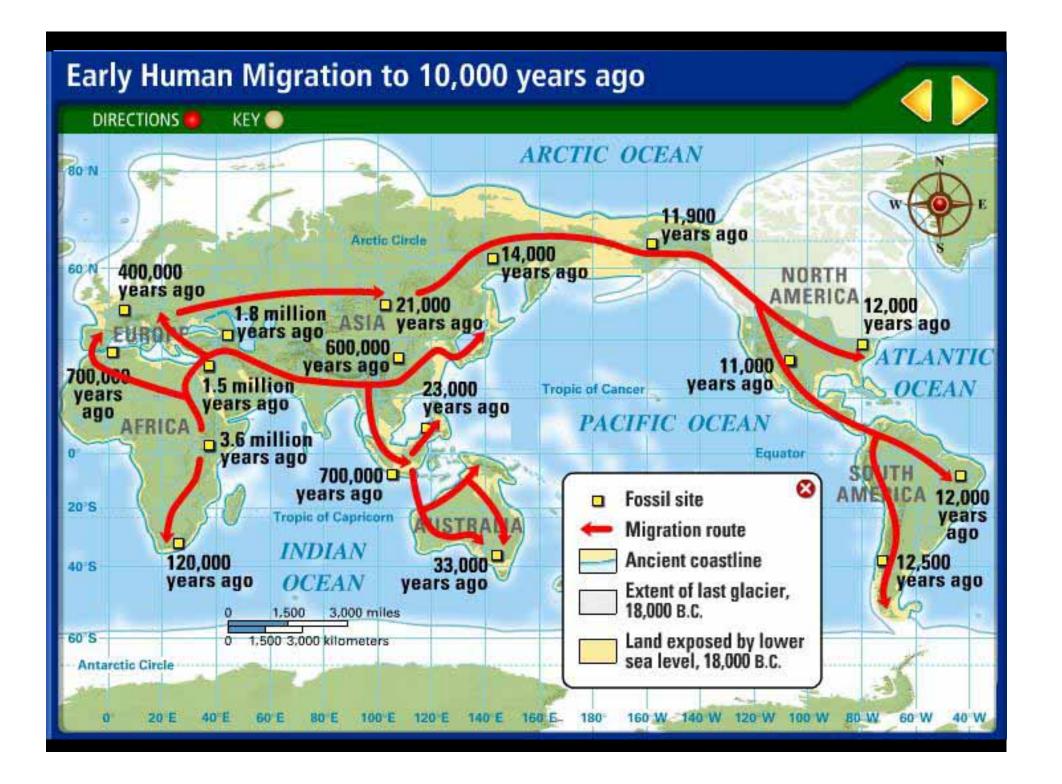
"Art is never finished, only abandoned."

"Sempre la pratica dev'essere edificata sopra la buona teorica."

Leonardo da Vinci

Gunpowder Plot – 5 November 1605







Similary 3 spirals in the pineapple, which are adjacent numbers in the fibonacci series 5 8 13







future illustration computer collage signWireless construction tech system connection pc development internet cloud text industry network design digital product we belecommunication innovation innovation background engineering industrial software medical symbol concept icon words modern word

O dreamstime.com

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COBUILD

KEY WORDS IN SCIENCE & TECHNOLOGY

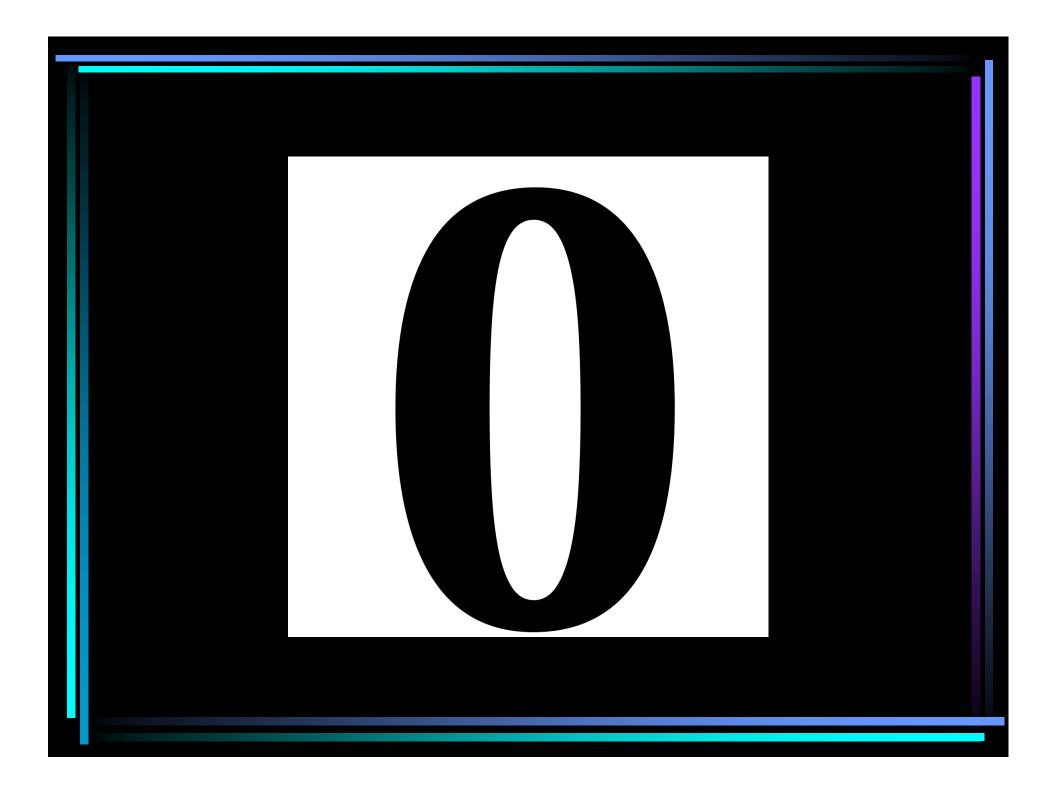
Helping learners with real English

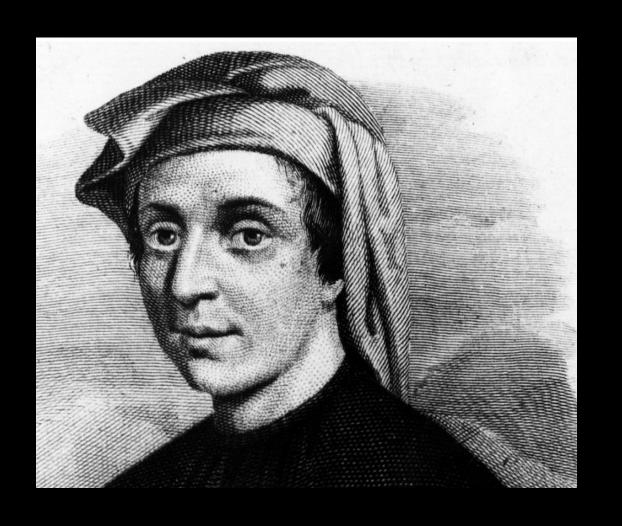




THE CORULD SERIES ASSETHE BANK OF ENGLISH

Bill Mascull





Art & Architecture

- 1, 2, 3, 5, 8, 13, 21, 34, 55, ...
- Fibonacci sequence called Fibonacci numbers
- Leonardo Bonacci "the most talented Western mathematician of the Middle Ages" c 1175 – c 1250 (cf Dante b 1265)
- Renaissance concept (Fibonacci from Pisa)
- The sequence was already well-known in India -Virahanka (between a.d. 600 and 800)

1202 - Liber Abaci ("The Book of Calculation") is a historic book on arithmetic by Leonardo of Pisa, posthumously known as Fibonacci.





1202 - Liber Abaci ("The Book of Calculation")

- «Novem figure indorum he sunt 9 8 7 6 5 4 3 2 1. Cum his itaque novem figuris, et cum hoc signo 0, quod arabice zephirum appellatur, scribitur quilibet numerus, ut inferius demonstratur.»
- Leonardo Fibonacci, Liber abaci, beginning of Chapter I (2nd edition)

1202 - Liber Abaci ("The Book of Calculation")

- "The nine Indian figures are:
- 987654321
- With these nine figures, and with the sign <u>0</u> which the Arabs call *zephir* any number whatsoever is written.
- Leonardo Fibonacci, Liber abaci, beginning of Chapter I (2nd edition)

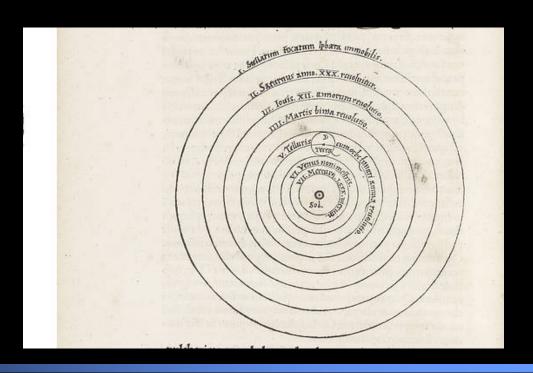
0123456789 $PNV\Gamma0371$ I II III IV V VI VII VIII IX X ০১২৩৪৫৬৭৮৯ ഠഫന്മത്രിന്നുവെന്ത് oolege buck

- **zero** (cf.)
- Sanskrit श्रून्य (śūnya),
- Arabic صفر (sefr),
- Hebrew אפס (éfes),
- Greek μηδέν 'miden'
 [to be understood as nothing, null]

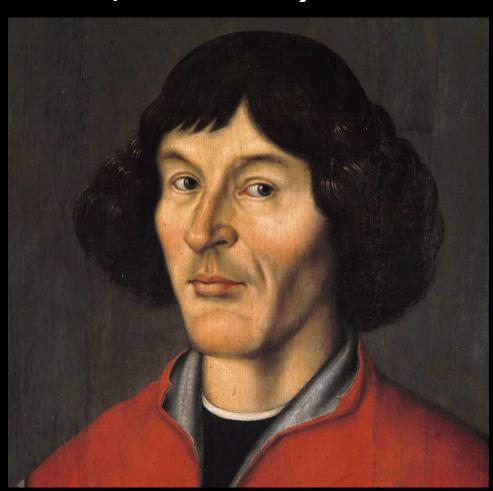
- The word zero came into the English language via French zéro from Italian zero, Italian contraction of Venetian zevero form of Italian zefiro via safira or sifr.
- In pre-Islamic time the word sifr (Arabic صفر) had the meaning "empty".
- Sifr evolved to mean zero when it was used to translate śūnya (Sanskrit: शून्य) from India.
- The first known English use of zero was in 1598.
- The Italian mathematician Fibonacci (c. 1170–1250), who grew up in North Africa and is credited with introducing the decimal system to Europe, used the term *zephyrum*.
- This became *zefiro* in Italian, and was then contracted to *zero* in Venetian. The Italian word *zefiro* was already in existence (meaning "west wind" from Latin and Greek *zephyrus*)...

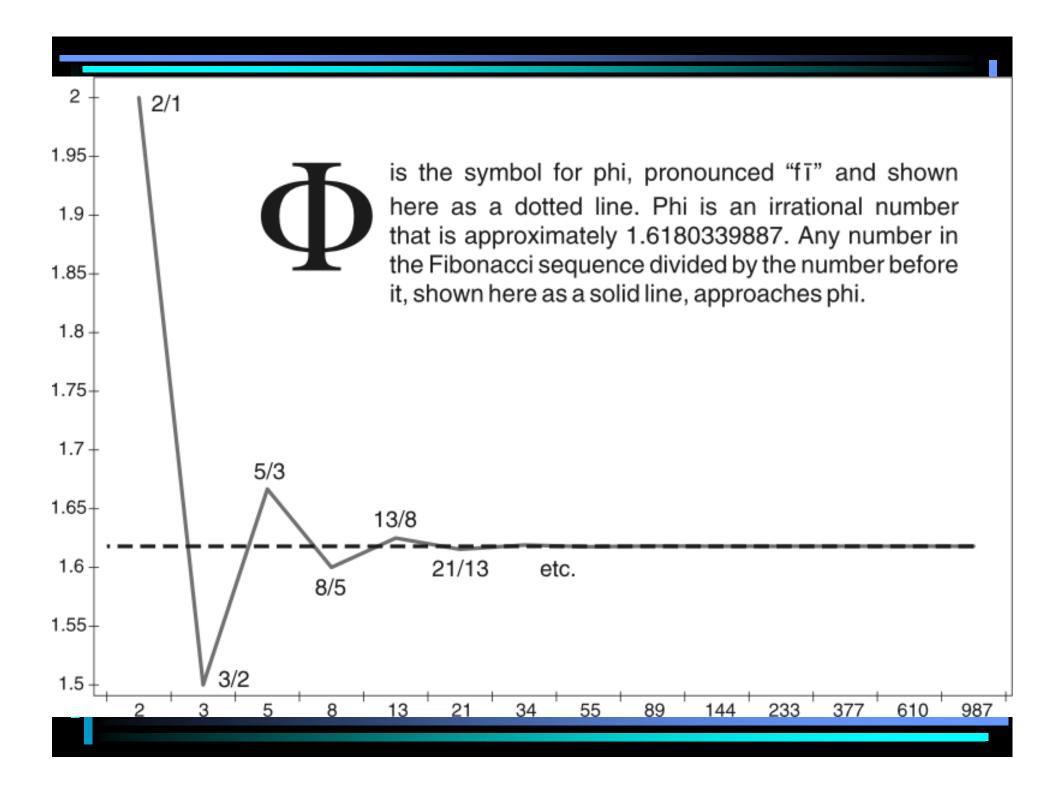
De revolutionibus orbium coelestium (On the Revolutions of the Celestial Spheres), published just before his death in 1543 ...

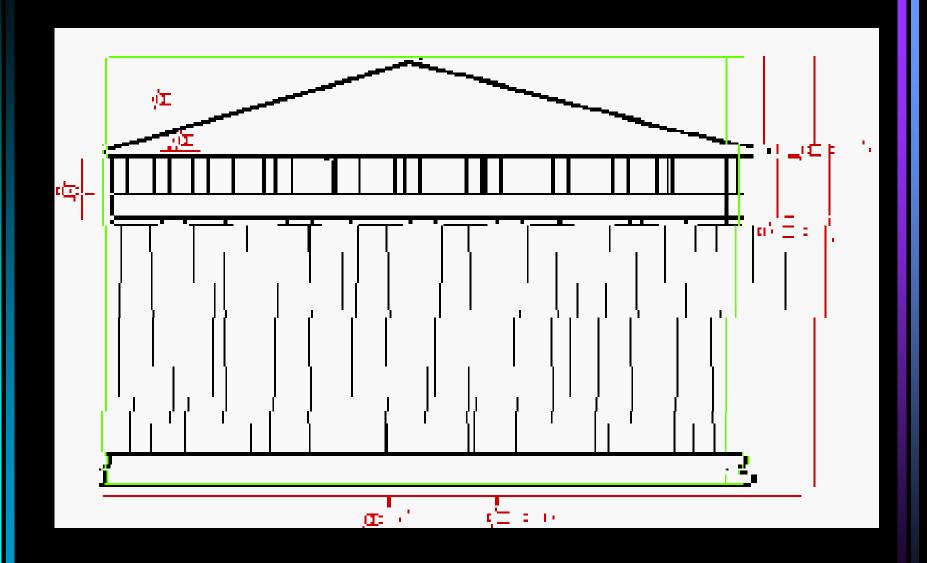




Copernicus - "Torun portrait" (anonymous, c. 1580)





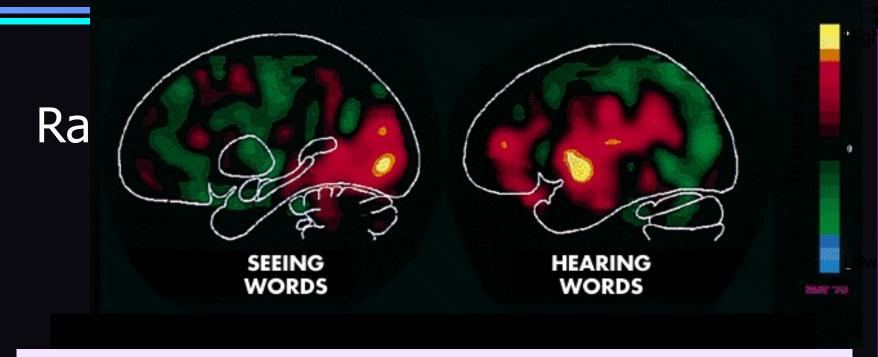


Neologisms? – becoming everyday language

- barbecue
- tattoo zero saga cruise
- shampoo
- cravat
- penguin
- bistro
- mosquito

- Native Cuban Polynesian Arabic Icelandic
- Dutch
- Hindi
- Croatian
- Welsh
- Russian
- Spanish

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Above: the result of experiments where people were confronted with simple reading (left picture) or simple listening (right picture) tasks. Amount of activity in different areas of the brain is shown by color shades. High activity is yellow, low activity is blue. Other colors mark a range of intermediate degrees of activity (see legend to the top right).

We can clearly see that different language activities are handled in different areas of the human brain.

What will happen if we present two tasks simultaneously?

M E Raichle M.D. Washington U School of Medicine St. Louis

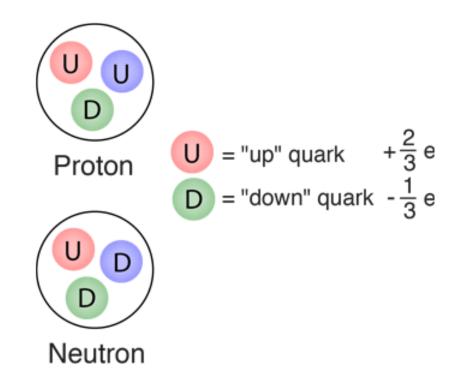


Via del Pane Trieste



Three quarks for Muster Mark!
Sure he has not got much of a bark
And sure any he has it's all beside the mark.

James Joyce Finnegan's Wake mediated by Murray Gell Mann



Eaquals Kraków | 21-23 November, 2019

Language is culture – telling a big truth

- "Language must shows a man Speak that I may see thee" Ben Jonson
- The original meaning of Theatre
- 'Darkness at Noon' > 'Midnight's Children'
- "The historian speaks of what has happened, the poet of what can happen" Aristotle – Poetics

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As pine trees

Hold the wind's imprint

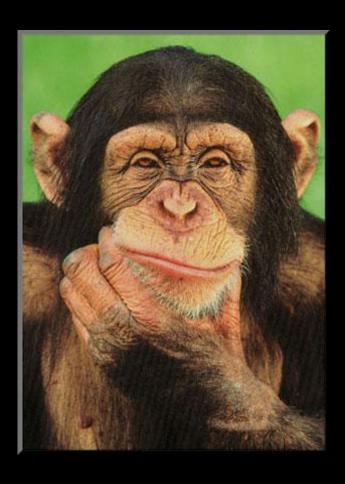
After the wind is gone, is no longer there

So words

Retain a man's imprint

After the man is gone, is no longer there.

George Seferis (Greek Poet – 1966).



Any questions?





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40° Anniversary AGM
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