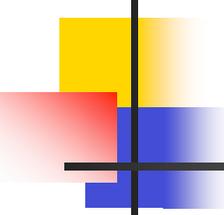


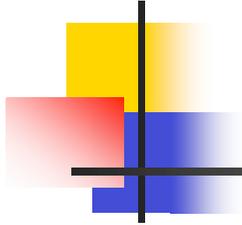
Thoughts are physical objects?



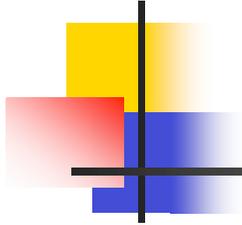


The brain as the thinking machine

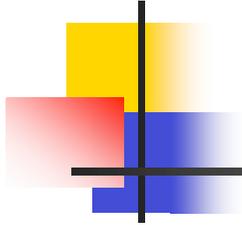
We can imagine our brain as a “thinking machine” to organize ideas, sensations, perceptions, affects and to put order into them.



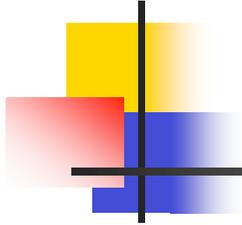
- If we consider the definition of entropy as a “measure of disorder” it could seem that we are indeed machines specialized at operating in opposition to “natural laws”...



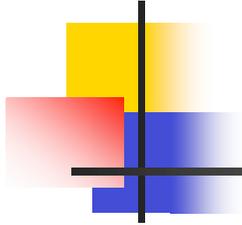
...entropy tends to increase and it is maximum at equilibrium: because of an intriguing form of disobedience, not strictly human, against of "natural laws"...



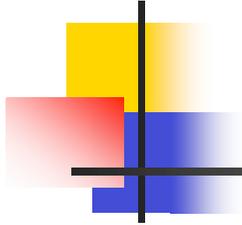
- ... life (apparently acting in the opposite direction) is the phenomenon of passage from simple atoms to complex animals.



- The concept of chaos that Newton would have certainly disdainfully excluded from his description of nature and from his absolute model, comes back to us effectively thanks to the recursive method he invented to find the zeros of a function.

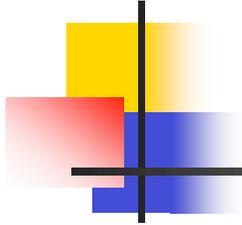


- We can approach the value of the variable where the function is zero in successive iterations, if the function shows a sufficient regularity.



- At the very heart of the formal beauty of classical physics and Newtonian mechanics hides the mathematical treachery of the recursive method, the fractals and finally the (deterministic) chaos.

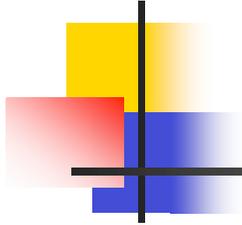




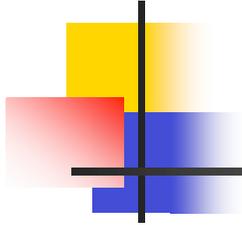
- We could say that the more life becomes self-conscious and capable to defend itself, the more it is able to approach self-knowledge.....

????

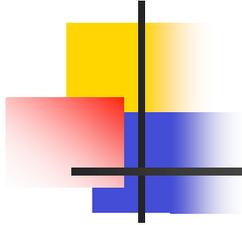
not so sure... !



- In this sense it is possible that the development of our model of the physical world has followed the “internal models” of those who contributed to it, often unknown to themselves...

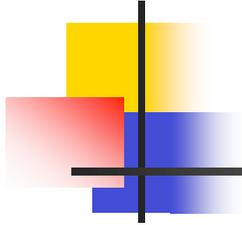


- ...so it is perhaps not a mere chance that one of the father of classical physics, Newton, was at the origin of the recursive method, which in our century has opened the way to the modelisation of chaotic phenomena.

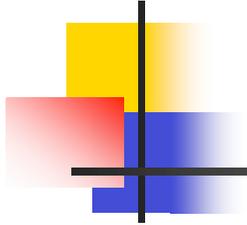


- It is as if via the effort of translation of reality into the physical model, physicists and mathematicians ambiguously spoke of their inner world, including their dreams and their fears.



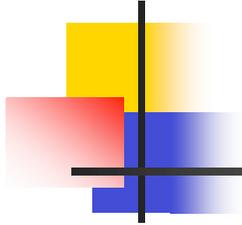


- We could even suppose that the_stricter is the logical frame... the more the theory that develops within its boundaries openly shows ...the underlying affective roots that have generated it

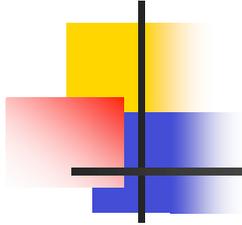


- ... as a dance of fish under an ice layer.



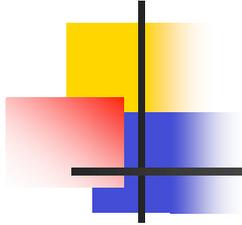


- The mathematical and/or physical and/or physico-mathematical models describing physical objects could be considered as production of our mind and it is lucky because our mind is in fact a physical object.

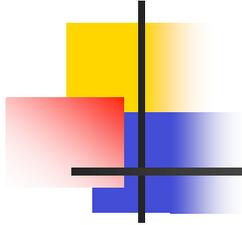


- It is interesting to note that so-called physico-mathematical models born in our mind, fit so nicely with the huge universe.

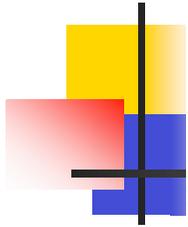


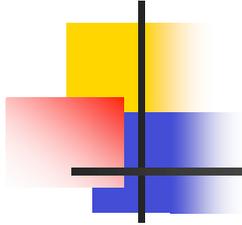


- As it is subject to the irreversibility of time, life has deployed a strategy of cyclical repetition. Time passes through seasons, days and nights. Everything repeats in a continuous return that fosters our illusion to come back to past.



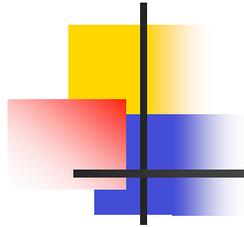
- On the other hand life, via the human mind, has invented, at least in first approximation, an “absolute and certain” knowledge, independent from the passing of time.





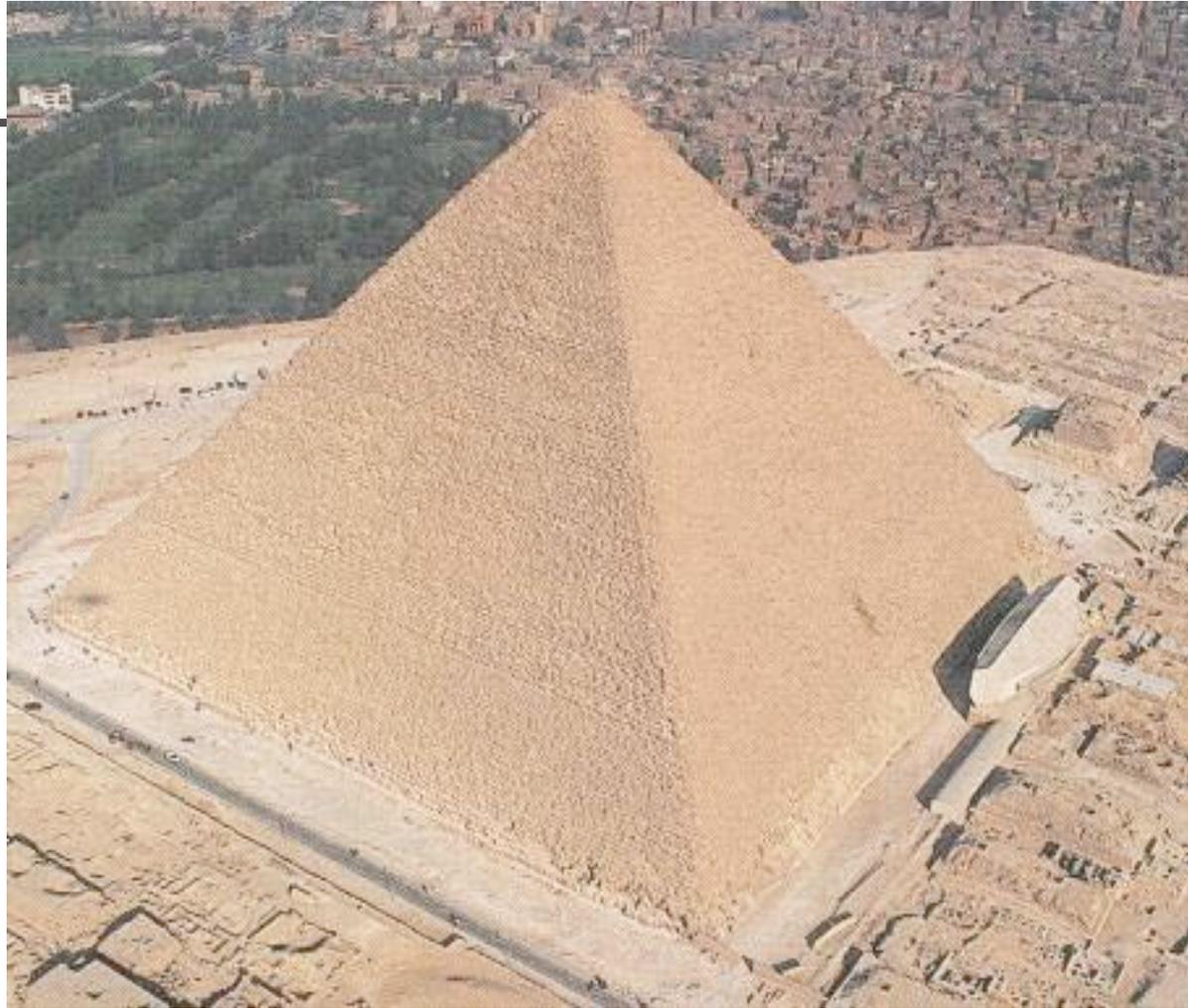
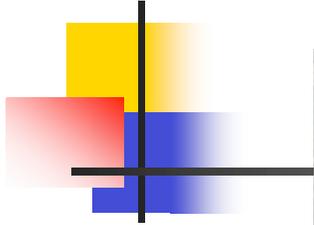
- To put the knowledge somewhere,
- To find it
- To use it

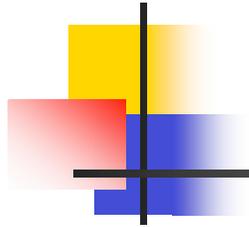
the humanity try to leave a trace of their knowledge (or simply their existence)...



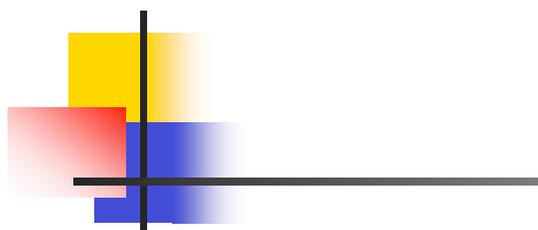
- In constructions....

- Buildings
- Tombs
- Theatres



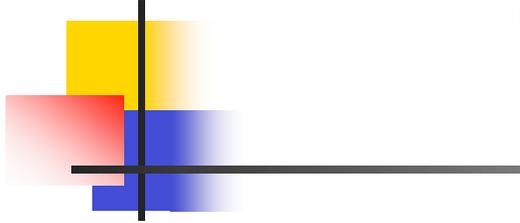


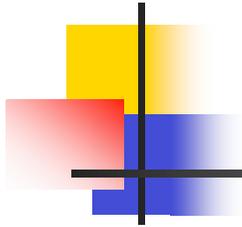
■ writing . . .





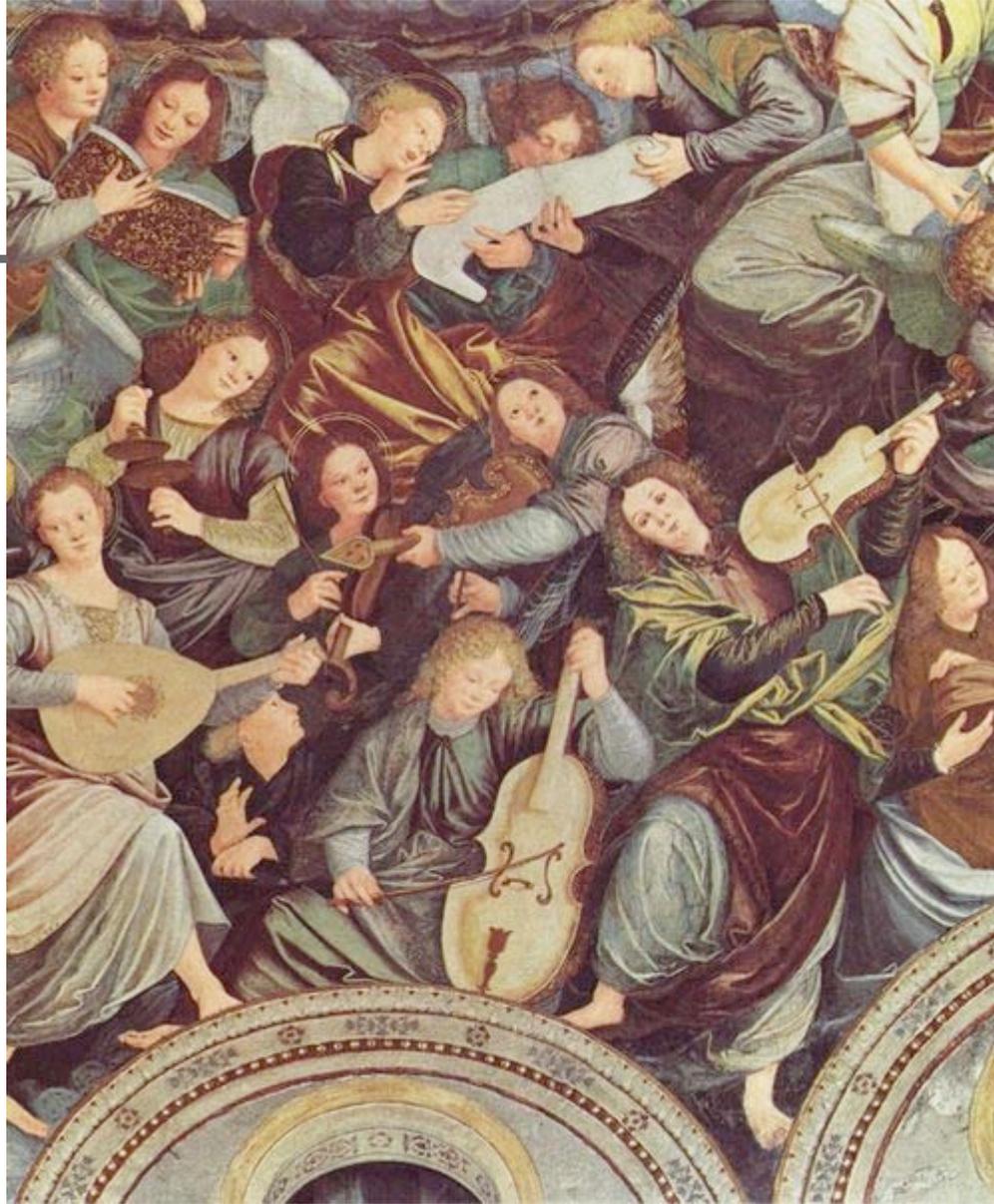
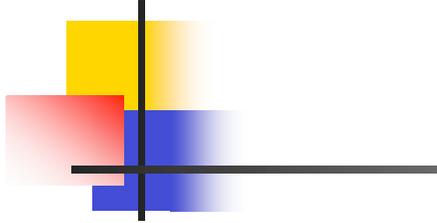
■ drawing...

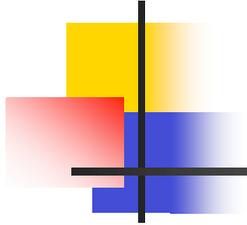




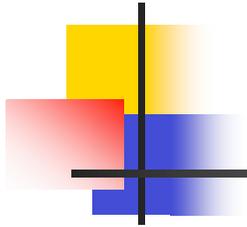
- The human knowledge seems to pass

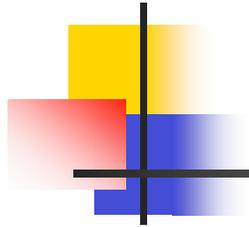
....from voice



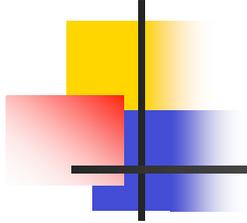


...TO STONE...



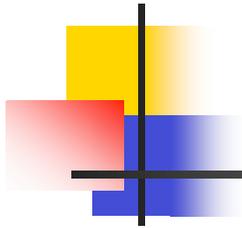


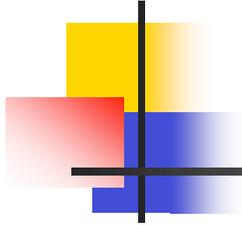
**...To
papyrus...**





...To paper books...

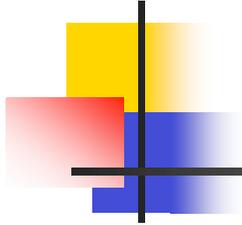




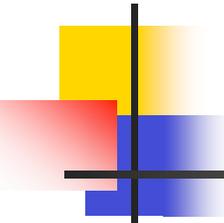
...in some way from
«fragility »

to « eternity »...

(?)

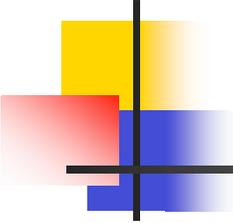


- **But ...this is not true...**
- **....oral tradition shows the force and the capacity to pass, lively in time, more then static treasures of knowledge**



Today we use as **SUPPORT** something (the WEB)

- Less fragile than the voice
- And less stable than the printed matter



This « relatively » new support

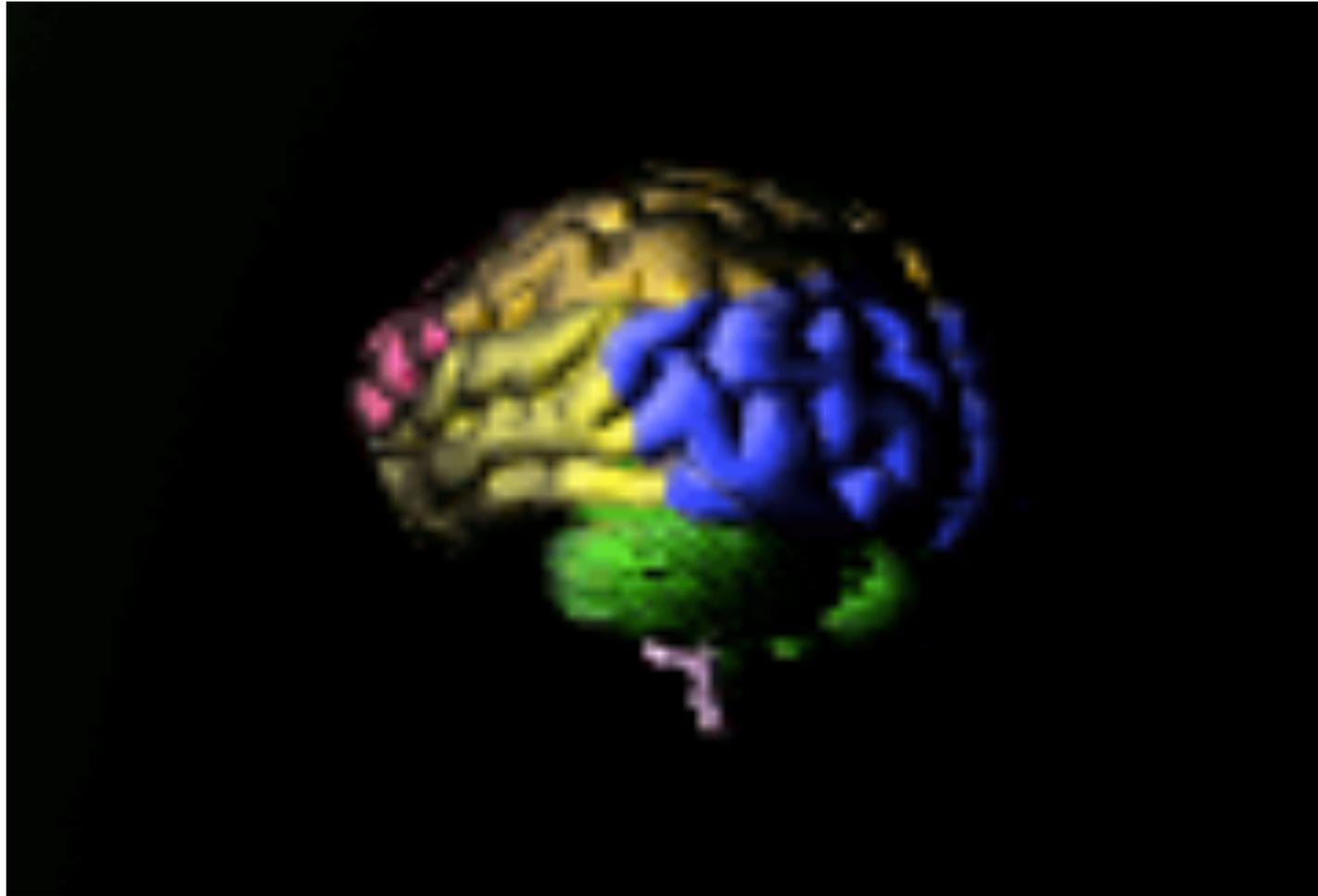
....Uses

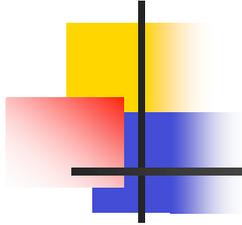
- link
- texts
- numbers
- images

As usual depending from the environment

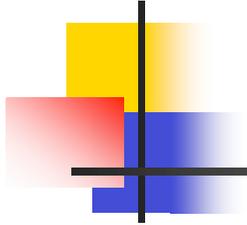


And the more and more similar to
the brain...





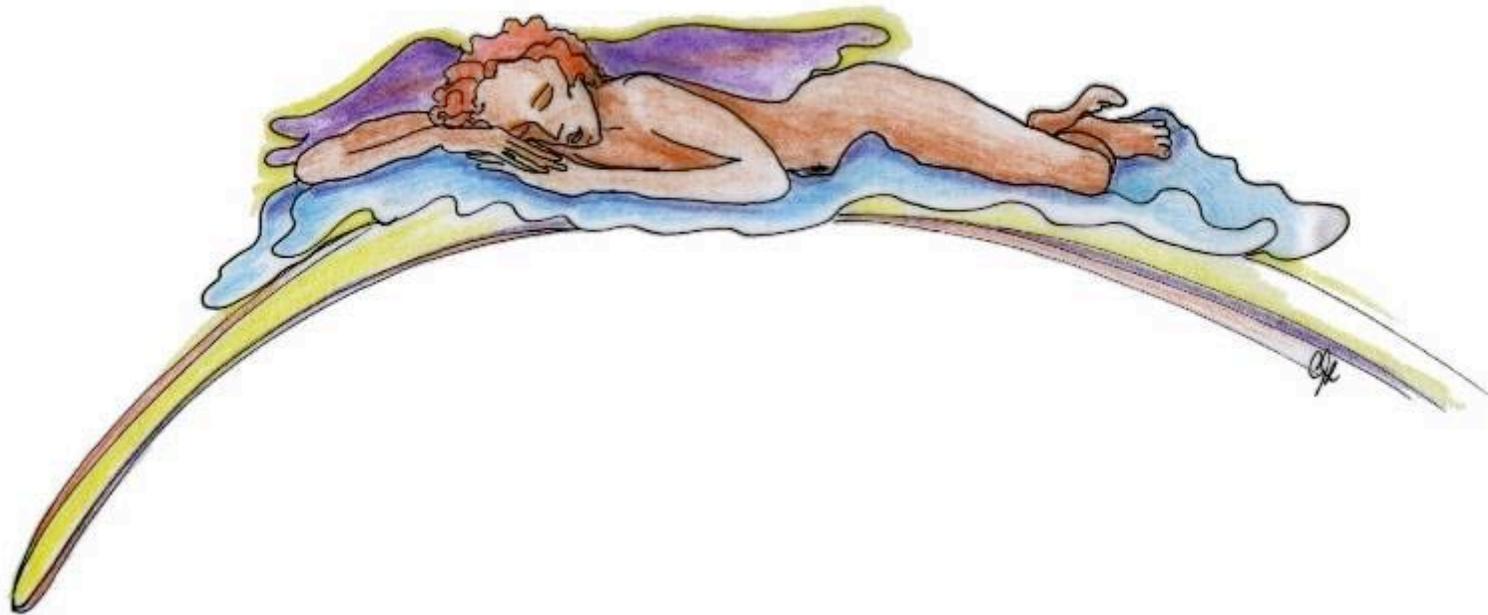
- It is a support and the information in the same time
- And it works in a way very similar to the logic of our brain

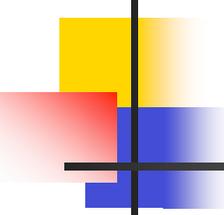


■ ... so ,

.....the question
is.....

The WEB is a physical object?





Thank you for your attention!

