

Have you heard about Chaos Theory?

Let me just help you understand of how often we face chaotic situations.

A discussion goes on between three successful professionals on the issue of "what is the oldest profession in the world"

Surgeon: The oldest profession should have been a surgeon, because God took out of Adam's side and created Eva.

Mathematician (Henri Poincare): Yes, but a mathematician is an older profession since God used the theory of Chaos in the process of creating the universe out of a chaotic situation that characterized the older era.

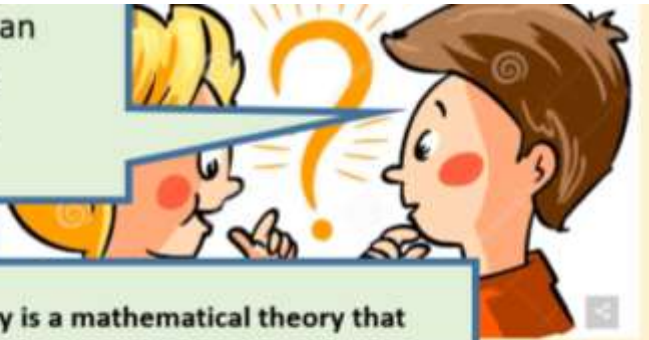
Politician: You are both wrong, the oldest profession should have been a politician.

Surgeon and Mathematician: Why? How can you justify this claim?

Politician: Who was the one that created chaos?



Oh now I understand!!! By being a politician and able to create chaos it is much more productive than to know Maths, Science, Engineering, Technology or Art



Oh No! Chaos Theory is a mathematical theory that describes quite a number of what you could call chaotic behaviours in a broad range of human activities. The following examples are indicative



Example 2 (Physics)
The double pendulum

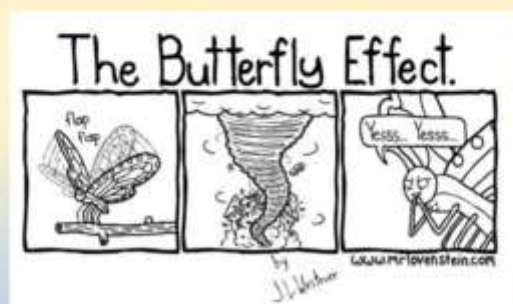


A representation of the trajectory of the double pendulum after a few seconds



Chaos theory, is the science of dealing with non-linear, hard to control phenomena in our world. Two important aspects characterizing it are the initial conditions of the system under study and its **unpredictability** since we can never possibly know every single event influencing the development of the system,

Example 1 (Meteorology)



Example 3 (Medicine)

How can we predict the course of an epidemic (for example the COVID-19 pandemic) when data are in short supply? To answer that question, a team of scientists has developed an approach based on chaos theory. In this context they have produced representations as the on below describing the phenomenon)

