WHAT IS INFORMATION?

The outcome of an unpredictable experiment.

UBIQUITOUS EXAMPLES

Tossing a coin

A google request

Google

Code cracking

Assembling a DNA sequence from a new species

Collecting data from new horizons

ENTROPY

The less predictable (the more random) an experiment outcome is, the more informative it is.

Information randomness is measured by entropy, a notion I borrowed from physicists. Moreover, information can be compressed, say for storage, and I proved that the limit to compression is entropy.

It can also be transmitted, say wirelessly, and I proved that the limit to transmission is capacity.