Look at a tree, a mountain, or the foam on water when it hits the shoreline; all amazingly beautiful, in all kinds of wild and crazy patterns.

All of it has an order to it that we simply cannot measure or describe. This is Li – ‘organic pattern’.

Tao is ‘the way’, creating patterns in chaos.

Anonymous
'The waves in the sea, the little ripples on the shore, the sweeping curve of the sandy bay between headlands, the outline of the hills, the shape of the clouds, all these are so many riddles…'

D’Arcy W. Thompson
1917
‘On Growth and Form’
‘Nature uses only the longest threads to weave her patterns, so each small piece of her fabric reveals the organization of the entire tapestry’

(Richard Feynman: *The Character of Physical Law*, 1982)
What are these patterns doing?
What are these patterns doing?
Did you know?
Did you know?

Every 365 days

Thinkstock photos
Did you know?

So the bits and bytes in your body calculate and maintain its structural integrity...
Candidate
for information carrying
patterns of life:
Candidate for information carrying patterns of life:

Dijk, Ertaylan, Boucher, P.M.A. Sloot, BMC Systems Biology, 2010.
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Dijk, Ertaylan, Boucher, P.M.A. Sloot, BMC Systems Biology, 2010.

P.M.A. Sloot, Ivanov, Boukhanovsky, Vijver, C.A.B. Boucher: IJCM 2008
Candidate for information carrying patterns of life:

Dijk, Ertaylan, Boucher, P.M.A. Sloot, BMC Systems Biology, 2010.

P. Duijn, V. Kashirin, P.M.A. Sloot
Nature Scientific Reports 2014

Dijk, Ertaylan, Boucher, P.M.A. Sloot, BMC Systems Biology, 2010.

P.M.A. Sloot, Ivanov, Boukhanovsky, Vijver, C.A.B. Boucher: IJCM 2008
Networks are robust and resilient and keep the systems out of equilibrium away from total order or total chaos.

Quax, Apolloni and P.M.A. Sloot
*J. of the Royal Society Interface* 2013

A. Czaplicka.; J.A. Holyst and P.M.A. Sloot:
Networks are *robust* and *resilient* and keep the systems out of equilibrium away from total order or total chaos.

Quax, Apolloni and P.M.A. Sloot
*J. of the Royal Society Interface* 2013

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Quax, Apolloni and P.M.A. Sloot
*J. of the Royal Society Interface* 2013

A Leap of Faith

R. Quax, A. Apolloni and P.M.A. Sloot
The European Physical Journal 2013.
Sardi Carnot
Rudolph Clausius
Josiah Willard Gibbs
Ludwig Boltzmann
Claude E. Shannon
\[ \Delta G = -T \Delta S < 0 \]

\( \Delta G = \text{Free Energy} \)

\( \Delta S \sim \text{Information} \)
Life arises from the transformation of Gibbs free energy into structures that use networks to register, share and process information. And all the while life is computing its own future...
Life arises from the transformation of Gibbs free energy into structures that use networks to register, share and process information. And all the while life is computing its own future...

So… what's the point of it? Why is life doing that?
Life arises from the transformation of Gibbs free energy into structures that use networks to register, share and process information. And all the while life is computing its own future…

So… what's the point of it? Why is life doing that?

My guess:
Life arises from the transformation of Gibbs free energy into structures that use networks to register, share and process information. And all the while life is computing its own future…

So… what's the point of it? Why is life doing that?

My guess:
Just for the fun of it!!