Dear Youri and Pedro and All,

Please excuse me the mixup: it was Youri to be congratulated for the Picture 1 and Pedro for getting it past the FIS server.


Please allow me to show some pictures relating to pairs of natural numbers ("logical primitives", © Marcus Abundis) that are subject to diverse reorderings.





The pictures suggest that there are some Laws of Nature based on Facts. Formulating these supposedly existing Laws is today as difficult as was difficult for Mendel to express his ideas.

Let us compare the communicative tasks:

| Mendel said and wanted to say (implicated) | Today's formulation of the same idea |
| :--- | :--- |
| I recognise statistical interdependences (in <br> the form of color of garden peas) | I recognise numerical interdependences (in <br> the form of elements creating cycles) |
| These implicate some Laws, the carriers of <br> which are specific material on specific <br> places (I can't say genomes, because the <br> word is not invented yet) | These implicate some Laws, the carriers of <br> which are specific material on specific <br> places (I can't say space-matter tenacity, <br> because the word is not invented yet) |
| The behaviour of my plants unfolds from a <br> dormant state (I can't say chromosomes, <br> because the thing has not been observed yet) | The behaviour of my primitives unfolds <br> from a dormant state (I can't say <br> concurrently running cycles, because such <br> has not been observed yet) |
| The rule for what comes where (which <br> colour peas come from which colour parent <br> peas) is a temporal process of growth. <br> Although the unfolding is temporal, the <br> properties of the peas are present - as <br> potentialities - in the information carrying <br> something within the pea itself. | The rule for what comes where (which <br> constellations of lower-level coincidences <br> are assembled next to which constellations <br> of lower-level coincidences) is temporal, is a <br> sequence. Although the assemblage into <br> cycles is temporal, the properties of the <br> elements are immanent to the elements. |
| There are types of genetic material which go <br> together and then some which do not go <br> together. (Peas can't be crossed with <br> cucumbers.) <br> There exist types of biologic material. | There are constellations of lower-level <br> coincidences. Their most archaic forms are <br> called logical archetypes: these represent <br> the chemical elements. Some of these go <br> together with some others, building <br> molecules and then there are some which do <br> not go together, creating Fällungsreaktion ot <br> similar. Molecules are compositions of <br> archetypes. Compositions of molecules have <br> types. |
| You have trouble understanding me, <br> because it is simpler than you think: the |  |


| invisible hand of God is nothing else but <br> simple rules of what you shall call genetic,, <br> and the rules are nowhere else but in the <br> matter itself and are basically a problem of <br> combinatorics. | invisible hand of Nature is nothing else but <br> simple rules of what you shall call <br> tautomatic, and the rules are nowhere else <br> but in the numbers themselves and are <br> basically a problem of combinatorics. |
| :--- | :--- |
| You are already looking at all pieces of the | You are already looking at all pieces of all <br> puzzle. Go find those material carriers <br> which act in certain ways to bring forth <br> specific peas. |
| puzzes. Go find those cycles that run <br> concurrently, undo the effects of offset <br> differences, and see which elements of <br> which cycles are contemporary, and tabulate <br> which specific occurrences shall appear to <br> the spectator as specific pieces of which <br> puzzle, types of reality. |  |

## Summarising:

There is a strict order within Nature. Our counting system is - in its monoaural utilisation not quite suited to depict the patterns which result from the existence of order. It is necessary to imagine two parts of the whole which interact, more or less happily. The rules of the interaction may be explained by a) assuming periodic changes that influence where is which element during which periodic change, b) observing saturation limits of relations on objects. If the objects count $n$, there can exist no more than $L_{\max }=f(n)$ distinct logical relations that the collection can be subject to, c) $f^{1}\left(L_{\max }\right)$ gives us the number $n$ of objects that are minimally necessary to accommodate $L_{\max }$ logical relations, d) there are slightly differently many logical relations possible on $n$ objects, when the relations state diversities relative to when the relations state similarities among the elements of the collection, e) this additional twist - sneak creates miracles of objects coming into or disappearing from existence, in dependence of the density of logical relations. The interdependence has many details. The pictures show a static state.

Hopefully you can utilise the pictures to envision a general explanation of interaction in the field of proteins.

Respectfully:
Karl

