

Psycho-ontology and fractal dimension: of micro genesis and structural limit

The idea of fractal dimension describes a complex form which is endemic to many structures and processes. Surprisingly, these forms are not limited to the more obvious incarnations of fractal geometry, such as certain types of ice crystal, or, the patterned distribution of structure created in many natural, and man-made physical forms, but also, I believe, are evidenced in the processes and structure of psycho-ontology, in the structure of the individual mind and psyche. To intuitively get at the idea of fractal dimension, imagine the way in which the length of a complex highly detailed structure increases with the precision of the gauge of measurement. Think of a coastline with its many intricate contours. If you take a foot long ruler, and measure the curves and details of the irregular coastline, you will get a measurement which will be limited by the precision afforded by the ruler—all curves and contours less than a foot, will be glossed over, and to gain a more correct measurement, one must use a standard of measure, of less than a foot. That process will increase the length measured, as precision increases. Now, remember the idea of a fractal, a structured shape which infinitely demonstrates complexity and detail as one looks ever more closely. As one moves closer in, observing a fractal, the patterns which were observed at a macro level, repeat quite closely, although sometimes with subtle distortions, creating the illusion from a macro perspective of a dimension associated with an integer value, but in fact, the complexity and detail revealed create a dimension which is always greater. The mathematical concept of a fractal involves an infinite regress of complexity and detail which is present at smaller and smaller scales. However, I propose mathematical conception, is just that, conception, a sort of ideal, and must be made right and specific if it is to be a proper descriptor of reality.

The dimension of a fractal increases to be examined more closely, but in reality, it can not be an infinite regress, or so *I have implied*. I infer, that if one measured the fractal dimension with ever increasing precision, such as using a near point probe, like a water molecule or hydrogen atom to determine the dimension, using a probe finer than the finest level of detail in the fractal structure, a finite measurement will be determined. It is unlikely, but perhaps the fractal structure even exists somehow at the atomic level, and a point like probe such as an electron could be used to define the dimension. I do not believe the fractal patterning continues to the sub-atomic level, in fact, it can not...*sub atomic structure is not fractal structure*. The patterns of structure in a molecule or atom, are not the same as those of a quark or string, etc., *which is less detailed and complex*. Now, let us analyze this analysis, and then discover, we have moved from the macro, the manifest, *from the effect... to the cause*—to the micro. As in any such analysis which proceeds from the visible to determine the underlying constituents which comprise the system, the dynamic is reversed to be analyzed.

I have discovered, our psyche, is identically described. To observe the fact, as one peels away the layers of conscious construction, and lowers repression to observe the unconscious content, the constituent patterns discovered, which form the observable personality, are found to mirror the conscious outcome, as single pieces assembled to create the full depth, as shards of broken mirror, *each with the same properties* (at more

and more specific levels), the more detailed constituents assembled to form the dimension of our minds and the reality they create via transference and symbolism. Then, as one increases the depth of observation—one discovers the unthinkable—*the bottom*. It is finite. We are finite. The human mind/soul is not ineffable, not an ether, unnamable and intangible—*it is finite at the lowest level*, and, to change that level, alters everything. Men, woman, *minds*, are like fractals. Change the earliest patterns, and all the rest will reflect that altered form! Remember, the micro is mirrored in and *patterns* the macro, as fractals, as psychoanalysis—change the most basic and finite level, and alter—everything! All complex and detailed mental patterns are plastic—as fractals. The human psyche is a fractal, an infinite ideal, with a *specific* outcome. That specificity, that limit which defies the infinite ideal, is hope itself. Change the earliest micro impressions in the mind, and alter the macro and manifest. Hope is *specific* knowledge, *not an ideal*, but a fractal truth which acknowledges our human limits, and deepest internal connection: We are all, little things.

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