DEFINITION of (so MIScalled) “Complexity” As UTTER-SIMPLICITY!!!(sMcUS!!!) VERSUS DEVIATIONS FROM( sMc-ciUS!!!):

"COMPLICATEDNESS" DEFINITION(S) and MEASURE(S)!!! F. YOUNG, C-S/F=C/Los Altos, E. SIEGEL, C-S/F=C/La Jolla — (so MIScalled) “complexity”(sMc) associated BOTH SCALE- INVARIANCE Symmetry-RESTORING(S-I S-R) [vs. S-I S-B!!!], AND X (w) P(w) 1/w(1.000...) “pink”/Zipf/Archimedes-HYPERBOLICITY INEVITABILITY CONNECTION is by simple-calculus SISR’s logarithm- function derivative: (d/dw)ln(w)=1/w=1/w(1.000...) , hence: (d/dw) [SISR](w)=1/w=1/w(1.000...)=(via Noether-theorem relating continuous-(SISR)-symmetries to conservation-laws)=(d/dw)[4-DIV (J(INTER-SCALE)=0)](w)=1/w =1/w(1.000...) . Hence sMc is information inter-scale conservation [as Anderson-Mandell, Fractals of Brain; Fractals of Mind(1994)-experimental- psychology!!!], i.e. sMcUS!!!, VERSUS “COMPLICATEDNESS”, is sMc-ciUS!!!: EITHER: PLUS (Additive: Murphy’s-law absence) OR TIMES (Multiplicative: Murphy’s-law dominance) various disparate system-specificity “COMPLICATIONS”. “COMPLICATEDNESS” MEASURES: DEVIATIONS FROM sMcUS!!!: EITHER [S-I S-B] MINUS [S- I S-R] AND/OR [“red”/Pareto X(w) P(w) 1/w(#=/=1.000..)] MINUS [X(w) P(w) 1/w(1.000...) “pink”/Zipf/Archimedes-HYPERBOLICITY INEVITABILITY] = [1/w(#=/=1.000..)] MINUS [1/w(1.000..)]; almost but not exactly a fractals Hurst-exponent-like [# - 1.000..]!!!