

Centers of Operation: Stars' End, New York Terminious, California

Webmaster, www.dialectics.org

May 18, 2008 C.E. / B.U.E.

Subject: Dialectical Pictography - expanded Prefatories & Systematic Dialectics sections

Dear www.dialectics.org Webmaster,

Greetings to you from F.E.D.!

Enclosed with this cover letter please find --

<u>Dialectical Pictography</u> - A Pictorial Summary of <u>Dialectical Ideography</u>, expanded again.

The background of the enclosed document is as follows: Hermes de Nemores and I have recently expanded again the already expanded edition – already expanded to over 100 slides in the previous expansion — of *Dialectical Pictography*, sent to you on March 3rd of this year.

As part of that process of expansion, we have also corrected many "typos" that still remained in the March 3^{rd} edition. But we also, of course, addressed additional, more substantive issues, in that second expansion.

Worth mentioning, in particular, is a modification to the $F.\underline{E}.\underline{D}$. conventions of reference for the 'connotogramic' names within the diachronic 'ideo-meta-system' of <u>Dialectical Ideography</u>.

That is, we have renamed the 'connotogramic' terms of the <u>systems</u> of dialectical arithmetic in the categorial and pedagogical progression/non-amalgamative sum / 'cumulum' method-of-presentation of the dialectical-ideographical/-arithmetical <u>systems</u> modeled, using the language of \mathbf{NQ} . That language is the first explicitly dialectical one in this progression of

dialectical-arithmetical systems – as generated <u>connotatively</u> via the "'Seldon Function'" $\underline{\mathbb{N}}^2$, for $\tau \in \mathbf{W}$. Therein, \mathbf{W} denotes the "'Whole"' Numbers, defined as $\mathbf{W} = \{0, 1, 2, 3, \dots\}$, and $\underline{\mathbf{N}}$ denotes the <u>first</u>-order axiomatic system of the Peano Postulates' "' $\underline{\mathbf{N}}$ atural'" Arithmetic, for the initiating, "'arché»" numbers-space, defined as $\underline{\mathbf{N}} = \{1, 2, 3, \dots\}$, that of the so-called "' $\underline{\mathbf{N}}$ atural" Numbers.

The fuller, step-by-step, "'[meta-]systematic [dialectical]" exposition, or 'ideo-meta-evolution', of this 'ideo-systems-progression', in accord with the canons of F.E.D.'s emerging 'Dialectical Meta-Axiomatics' Method of Exposition, belongs, of course, to the soon-to-be-released Part III. of Dialectical Ideography, [now re-]entitled 'The [Non-Standard] Arithmetics of Meta-Evolution'.

However, sub-section c. of <u>Dialectical Ideography</u>, <u>Part I.</u>, provides "Briefings" on a selection of the dialectical arithmetics that issue from $\underline{\underline{N}}$, as τ increases, "Briefings" now expanded so as to include the first through the fifth "grand uni-thesis" systems of dialectical arithmetic – the arithmetics that we <u>now</u> abbreviate by the ideographic names $\underline{\underline{U}}$, $\underline{\underline{\mu}}$, $\underline{\underline{\mu}}$, and $\underline{\underline{\mu}}$, and $\underline{\underline{\mu}}$.

Previously, we had designated the same 'series of syntheses' by the names $\underline{\underline{U}}_{\alpha} \underline{\underline{\mu}}$ or $\underline{\underline{\alpha}}_{\beta} \underline{\underline{\mu}}$ or $\underline{\underline{\delta}}_{\beta}$, and $\underline{\underline{\delta}}_{\beta} \underline{\underline{\mu}}$ or $\underline{\underline{\delta}}_{\beta}$ [see, for example, the "<u>Table of Similes</u>" at the end of *Supplement A*.].

The rationale for this re-naming of the 'connotograms' of the $\underline{\underline{N}}^{2^{\tau}}$ dialectic is as follows.

Each of these five successive [but not consecutive], ''dialectical synthesis'' systems of dialectical arithmetic involves a 'contra-reductionist' '''«gen»-eralization'' of the second-/higher-order N arithmetic's «species» of the «genos» of the operation of division – namely, of the «species» categorizing the operation of 'purely-quantitative division' [commonly presumed to be the only possible «species» of that «genos» of the arithmetical '''division'' operation].

That is, these five dialectical arithmetics all involve a "completing of the "genos", an advancing of the 'ideo-systematics', of the trans-Platonic "arithmos eidetikos", i.e., of the "systematic dialectic", of the <u>division</u> operation, by explicitly "adding" [in an instance of the second, 'contra-thesis' "species" of the <u>addition</u> operation's "genos", that of 'purely-qualitative addition'] two new "species" of <u>division</u>: 'purely <u>qualitative</u> division', and 'quanto-qualitative division' -- the latter as the "dialectical synthesis" of the 'first contra-thesis' "species", of 'purely-qualitative division', with the first, 'thesis' "species", of 'purely-quantitative division'.

The 'purely-quantitative' «species» of <u>division</u> can be 'amalgamative', e.g., 4 / 2 = 2. The 'purely-qualitative' «species» of <u>division</u>, on the contrary, is generally 'non-amalgamative', and therefore 'non-reductive', e.g., the 'meta-number' unit, or «monad», denoted by \P / 3 = \P does not further "reduce" to any value which erases its 'hybrid constitution'.

That unit 'meta-numeral's' 'hybrid constitution' asserts that the "'Natural Numbers'" "arithmos" of purely-quantitative units, or "monads", denoted by 3, or by 1+1+1, denote units, or "monads", which are 'meta-fractally' lower-scale, subordinate, "aufheben"-subsumed sub-units or sub-"monads", of this, therefore 'meta¹-unit-ic', or 'meta¹-"monad"-ic', expression, $\frac{\Lambda}{9}$ which, of course, simply denotes the third 'meta-number' element of the $\frac{\Omega}{1}$ 'dialectical, 'contra-Boolean' numbers-space.

The convention of the "'division bar'" is typically replaced, in the extant $F.\underline{E}.\underline{D}$. writings, in the 'meta-numerals' of the \underline{Q} , \underline{U} , and $\underline{\mu}$ dialectical arithmetics, by 'subscriptization' of the erstwhile denominators, as an expression — for 'purely-qualitative division', and for 'quanto-qualitative division', respectively — that is equivalent to their "fract-tion-al", '[meta-]fract-al', expression.

But this is merely for syntactical convenience.

As the number of explicit, 'meta-numeralic', syntactical "'layers", "'levels", or "scales" of 'meta-fractal', 'meta-monadic', "'continued-fractal", or '[quanto-]qualitative, finitely-continued-fraction' «aufheben»-subsumption of [quanto-]qualitative units, or «monads», advances, with the advance in value of τ , in the unfolding of \mathbf{N}^{2} - i.e., as the resulting subscripts of subscripts of subscripts... pattern compounds itself — the "bar" syntax increasingly becomes more syntactically convenient than the 'subscriptization' syntax.

The first five 'uni-thesis' systems of dialectical arithmetic to be "Briefed" in sub-section c. of Dialectical Ideography, Part I., can therefore now be 'connotogram-ically', and otherwise, "character-ized" as follows --

(1) The higher-order "Matural Numbers"-based, or <u>N</u>-based, $\frac{\hat{q}}{3} \leftrightarrow \frac{\hat{q}}{N} = \frac{\hat{q}}{$

 $u \boxtimes \left(\begin{array}{c} \frac{\hat{u}}{u} \\ \hline n \end{array} \right) \qquad = \qquad u \stackrel{\hat{u}}{\underline{u}}_{n};$

(2) The $\underline{\mathbf{R}}$ -based, $\hat{\mathbf{Q}}_{7} \leftrightarrow \underline{\underline{\mathbf{Q}}}_{MQN} \equiv \underline{\underline{\mathbf{Q}}}_{MU} \equiv \underline{\underline{\mathbf{R}}} \underline{\underline{\mathbf{U}}} \ [\mbox{``mun} \mbox$

$$\mu(t) \boxtimes \left(\frac{\hat{\underline{u}}}{n \boxtimes \underline{v}_i \boxtimes \hat{\underline{u}}_i} \right) = \mu(t) \hat{\underline{u}}_n \boxtimes (\underline{\Sigma}_i u_i \boxtimes \hat{\underline{u}}_i)^{t}$$

(3) The \(\hat{\mathbb{q}}_{15} \iff \hat{\mathbb{q}}_{AMU} \equiv \alpha_{AMU} \equiv \langle alpha-mu"\) system of dialectical arithmetic/analysis, for [meta-]evolving, '[meta-]\(\delta\) mumical system qualifiers', has generic 'meta-number' «monad», or unit --

$$\left(\begin{array}{c|c} \underline{\underline{\alpha}} \\ \hline \mu_1(t)^{\hat{\underline{\alpha}}}_{\underline{\mu}_1 \boxtimes \Sigma_{C_1} u_i \boxtimes \hat{\underline{\mu}}_{\underline{\mu}_1}^{\hat{\underline{\alpha}}}} \boxplus \mu_2(t)^{\hat{\underline{\alpha}}}_{\underline{\mu}_2 \boxtimes \Sigma_{C_2} u_i \boxtimes_2 \hat{\underline{u}}_{\underline{\mu}_1}^{\hat{\underline{\alpha}}}} \boxplus \dots \boxplus \mu_N(t)^{\hat{\underline{\alpha}}}_{\underline{\mu}_N \boxtimes \Sigma_{C_N} u_i \boxtimes_N \hat{\underline{u}}_{\underline{\mu}_1}^{\hat{\underline{\alpha}}}} \end{array} \right)$$

(4) The $g_{31} \leftrightarrow g_{BAMU} \equiv g_{\mu} \equiv g_{\mu} [\text{``beta-mu''}]$ system of dialectical arithmetic / analysis, for [meta-]evolving, '[meta-]<u>dynamical system within super-system qualifiers'</u>, or, equally, for ''[meta-]<u>dynamical sub-system within system qualifiers'</u>, has, as its generic 'meta-number' "monad", or unit, w/ system/sub-system inter-level interactions modeled via 'inter-argumentation' --

-- wherein, $\mu_1(t)$, $\mu_2(t)$, ..., $\mu_n(t)$ quantify the dynamical state-variables [and the <u>dynamical</u> control-parameters] for, e.g., the <u>dynamical system</u> whose <u>unit</u>[y] is denoted by $\underline{\beta}$, and wherein the $\mu_{1j}(t)$, the $\mu_{2j}(t)$, ..., and the $\mu_{Mj}(t)$ quantify the equally dynamical state-variables [and the equally <u>dynamical</u> control-parameters] of, e.g., the <u>dynamical sub-systems</u> within the <u>dynamical system</u> denoted, univocally, by the '<u>system qualifier</u>', $\underline{\beta}$, with, in their turn, those <u>sub-system sub-unit</u>[ie]s denoted univocally by the '<u>sub-system qualifiers</u>', $\underline{\alpha}_1$, $\underline{\alpha}_2$, ..., and $\underline{\alpha}_M$.

We arrive, thereby, at a 'contra-reductionistic' syntax, and semantics; an "'holistic notation" for self-«aufheben»-processes-constituted, 'meta-«monad»-ological' [ev]entities, wherein 'meta-units' are not reduced to their [sub-]units, nor, "in that dark night in which all cows are black" [cf. Hegel], are [sub-]units "dissolved", lost-sight-of, or annihilated in[to] their 'meta-units', but in which all 'explicitized' 'meta-fractal' scales / levels / layers of ontology - of emergent properties, of emergent qualities, and of emergent processes - stand 'co-cognizant' for, and also 'co-noted' and 'co-observed' by, and, finally, 'co-notated' and 'co-represented' by, their modelers, with "equal billing" for all.

Thus, per the new F.E.D. terms of reference, we have the following 'connotogramic' namings --

- the $\underline{\underline{q}}_{MU} \equiv \underline{\underline{\mu}}$ "'family'" of systems of arithmetic, now called the "mu" arithmetics;
- the $\underline{\hat{\mathbf{q}}}_{\mathrm{AMU}} \equiv {}_{\alpha}\underline{\mu}$ "'family'' of systems of arithmetic, now called the "alpha-mu" arithmetics;
- the $\underline{\overset{\mathbf{A}}{\mathbf{g}}}_{\mathsf{BAMU}} = {}_{\beta\alpha}\underline{\underline{\mu}} = {}_{\beta}\underline{\underline{\mu}}$ arithmetics, now called, for short, the «beta-[alpha-]mu», and;
- the $\mathbf{q}_{\text{\tiny PBAMU}} \equiv \mathbf{q}_{\mathbf{\mu}} \equiv \mathbf{q}_{\mathbf{\mu}}$ systems, now called, for short, the «gamma-[beta-alpha-]mu» systems
- -- and so on.

We again recommend that you place the enclosed PDF file on the "Applications" Page, replacing, and archiving, the PDF files of the March 3^{rd} edition of $\underline{Dialectical\ Pictography}$.

Dialogically yours,

Aoristos Dyosphainthos

Member, General Council
Foundation <u>Encyclopedia</u> <u>Dialectica</u>

Enclosed herewith -

· Dialectical Pictography -- Dialectical Pictography - further expansion

Forthcoming --

Appendices to <u>E</u>. <u>D</u>. <u>Briefs</u>, #1, The <u>Q</u>, or Pure-<u>Q</u>ualitative, Dialectical Algebra as «Characteristica Universalis»: A Step-By-Step Guide on How To Use It as an «Organon» for Discovery;

E. D. Briefs, #2, A [Brief] Definition of Dialectics;

E. D. Briefs, #3, Dialectical Meta-Axiomatics: A Methodology for Marxian, Dialectical Science;

Concluding sub2-sections of Dialectical Ideography, Part I.: Part I. c., Briefings on H.

- Briefing on the $\hat{\mathbf{q}}_3 \leftrightarrow \hat{\mathbf{q}}_{ON} \equiv \hat{\mathbf{q}}_U \equiv \underline{\mathbf{u}}$ arithmetic for 'quantifiable ontological, or 'ontic', qualifiers';
- Briefing on the $\hat{\mathbf{q}}_{7} \leftrightarrow \hat{\mathbf{q}}_{MQN} = \hat{\mathbf{q}}_{MU} = \underline{\underline{\mathbf{u}}} [(mu)]$ arithmetic for 'ontically & metrically qualified quantifiers' [for 'quanto-qualitative' state-variables/control-parameters];
- Briefing on the $\mathbf{q}_{15} \leftrightarrow \mathbf{q}_{AMU} = \mathbf{q}_{\underline{u}} [(alpha-mu)]$ arithmetic for [meta-]dynamical-[super0-]systems;
- Briefing on $\overset{\wedge}{\mathbf{q}}_{31} \leftrightarrow \overset{\wedge}{\underline{\mathbf{q}}}_{\mathsf{BAMU}} \equiv {}_{\beta\underline{u}} \equiv {}_{\beta\underline{u}} \ [\text{``ebeta-mu''}], \text{ for [meta-]} dynamical-[super^1-] systems;}$
- Briefing on $\overset{\wedge}{\mathfrak{q}}_{63} \leftrightarrow \overset{\wedge}{\mathfrak{q}}_{\Gamma BAMU} = {}_{\gamma \underline{\mu}} \ [(gamma-mu \rangle], \ \text{for } [meta-] \ dynamical-[super^2-] \ systems.$

Parts II. and III. of Supplement B. to the F.E.D. Introductory Letter;

Revised version of Supplement A., Parts I., II., and III., "re-sync'd." with Supplement B.;

Dialectical Ideography, Glossary of Neologia, section for words beginning with the letter 'e';

- F.<u>E.D</u>. <u>Vignettes</u>, #1, <u>A Universe that Adds New Classes to Itself</u>: Contra-Variations on a Theme of George Boole;
- F.<u>E.D</u>. <u>Fractment</u> **#2**, <u>The Grand Interconnexion</u>: Nonlinearity, Self-Reflexivity, «Autokinesis», the 'Ontological Self-Conversion Meta-Dynamic', and Differential Equation Singularity;

Commentary on the Letter of Parmen Moderna.

P. S. Work on Parts II. and III. of Supplement B. continues. Work on Vignette #1, A Universe that Adds New Classes to Itself: Contra-Variations on a Theme of George Boole has resumed. Work has also resumed on F.E.D. Fractment #2, The Grand Interconnexion: Nonlinearity, Self-Reflexivity, «Autokinesis», the 'Ontological Self-Conversion Meta-Dynamic', and Differential Equation Singularity. We plan to send these texts to you, along with the other forthcoming items, as circumstances permit.

We also plan to send you further sub-sections of the *Glossary* and '*Precursors*' portions of the *Postscripts* to *Dialectical Ideography*, as well as additional F. <u>E.D.</u> 'Fractments' and Vignettes.

Work continues toward the initial distribution of <u>Part II</u>. & <u>Part III</u>. of <u>Dialectical</u> <u>Ideography</u>.