

# Special Systems Theory

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# Schema

- Named by Kant as temporalization of the categories in First Critique, but also the universals in apprehension prior to the arising of the concept in Third Critique
- History described by Umberto Eco in Kant and the Platypus where it is called a “Mathematical and Geometrical Schema”
- Self-organizing Templates of understanding that give objects of different scope intelligibility in terms of intelligibility as an A Priori synthesis in spacetime

# Foundations of General Schemas Theory

- What is the next level of abstraction up from a system
  - What else is like a system but essentially different?
- Traditional Schemas as defined by Kant are Pattern, Form, and System.
- Wittgenstein in Philosophical Grammar alludes many different Schemas with respect to the embodiment of things

# S-prime Hypothesis

- There are Ten Schemas of different scopes
- Schemas nest and phenomenologically there are no gaps between them
- They are all the ways we organize as A Priori Synthesis objects prior to our experience of them, that we read back out of the objects as perceived, and which we use in Science as fundamental ways of understanding the objects of a discipline
- The rule: Two schemas per dimension and Two dimensions per schema
- Schemas relate to dimensions -1 to 9, two dimensions at a time
- What is beyond Schemas Theory is String Theory, M and F theory as well, which are unschematized, but purely mathematical descriptions of objects which we have a difficult time to relate to because we have no preconceived notion of how things like strings and membranes in higher dimensions are organized
- When we design something we unfold it according to the Schemas that constrain it
- Nature does not exactly fit our schematizations but artificial cultural objects we create do exactly fit our schematizations.
- Science first projects schemas on things, but then searches for the anomalies where the objects of experiment do not exactly fit the projected schemas

# General Schemas Theory

- Pluriverse [8, 9]
  - Kosmos [7, 8]
    - World [6, 7]
      - Domain [5, 6]
        - » Meta-system [4, 5]
          - Special Systems [4 dimensional]
        - » System [3, 4]
      - Form [2, 3]
    - Pattern [1, 2]
  - Monad [-0, 1]
- Facet [-1, 0]

# From Schemas to Special Systems

- Once you understand that there are schemas other than systems, like form and pattern
- Then you must understand that Systems have inverse duals called “Meta-systems” or “OpenScapes”
- Then you can understand that Special Systems are partial systems and partial Meta-systems in the fourth dimensional interface between these two schema
- The fourth Dimension has special properties of ultra efficacy, and no fixed topological structure, as well as having unique Platonic Solids that show the inherent organization of the space.
- Finally once the Three Special Systems have been understood then it is possible to move to understanding the Emergent Meta-system that conjuncts the special systems with normal systems to produce a natural cycle of relaxation with the side effect of self-organization that conforms to the Construal Law of Adrian Bijan

# Inverse Duals

## System

- Turing Machine
- Application
- User
- Boundary – definite
- Relationships between objects (forms) via functions
- Viewpoints
  - Event
  - Data
  - Function
  - Agent
- Rules

## Meta-system

- Universal Turing Machine
- Operating System
- Administrator
- Horizon – indefinite
- Interfaces between systems via protocols
- Filters
  - Resource Allocation
  - Inter-System Connections
  - Global Service Loop
  - External Interrupts
- Policies

# Schemas Differentiation

## System

- Whole greater than sum of parts
- Emergent
- Excessive Numbers
- Godelian Statements inside
- Gestalt / Flow
- Conceptual dual = process

## Meta-system

- Whole less than sum of parts
- De-emergence
- Deficient Numbers
- Whole with holes like a sponge
- Godelian Statements outside
- Proto-Gestalt / Proto-Flow
- Conceptual dual = proto-Process



# Meta-system = Name?

- Context, Situation, Circumstance, Ambience
- Environment
- EcoSystem
- Media

**Naming Fragmented, no single name like other schemas**

# Meta-system = OpenScape

- *Landscape, Seascape, Mindscape, Escape*
- View of Panorama from one point in landscape without moving, only turning
- From a point where the stake is set to the horizon.
- Sequence of Gestalts as we look around the environment
- Side Glance verses Direct Look
- Tacit Knowledge (Polanyi)
- Implicate Order (Bohm)
- Indirection of Reference

# Special System

- Whole **exactly** equal to sum of its parts
- Supervenience
- Aliquot Numbers
- Anomalous Organization = Conjunction
- Discovered by studying Plato's Imaginary Cities: Ancient Athens (Republic), Atlantis (Crito), Magnesia (Laws)
- Researched to find same type of order in math and found it, then found it in physics as well

# Aliquot Numbers and Special Systems

- Dissipative Ordering
  - Amicable numbers – two numbers whose parts add up to the wholes of each other
- Autopoietic Symbiotic
  - Perfect Numbers – divisors add up to the whole directly
- Reflexive Social
  - Sociable numbers – cycle that adds up to each other in sequence

# Special Systems Theories

- Dissipative Ordering
  - Prigogine Negative Entropy “dissipative structures”
- Autopoietic Symbiotic
  - Maturana and Varela Autopoietic “Unit” refined
- Reflexive Social
  - Pierre Bourdieu, John O’Mally, Barry Sandywell, Malcolm Ashmore

# Dissipative Ordering Special System

- Consciousness
- Mobius strip
- Soliton
- Complex number
- Two mirrors facing
- Tangle
- 'Play' John S. Hans
- Partial Object (M. Klein)
- Desiring, Avoiding, Dissemination, Absorbing Practices (Machines, Deleuze & Guattari)

# Autopoietic Symbiotic Special Systems

- Living (Existential Biology of Organism Viability)
- Kleinian Bottle
- Breather
- Quaternion
- Three facing mirrors
- Self-organization = Knots
- Braid
- Two Dissipative Ordering Systems Conjoined

# Reflexive Social Special System

- Social group (fused group, pack, socius)
- Hyper-Kleinian bottle (?)
- Hyper-Breather (?)
- Octonion
- Four facing mirrors (tetrahedral)
- Imaginary Institution of Society (Cornelius Castoriadis: Magma)
- Marriage
- Four Dissipative Ordering Systems or Two Autopoietic Symbiotic Systems Conjoined



# Emergent Meta-System

- Three special systems conjuncted with the normal system gives an Emergent Meta-system
  - Emergent System -- synthesis
  - De-emergent System – de-constructed
  - **Emergent Meta-system – synopsis**
  - De-emergent Meta-system – plenum, homogeneous background,

# Cycle of Emergent Meta-System

- Seeds in a Pod (germ) Real
  - Creative Operation (lose conjugate)
- Monads in a Swarm (leaves) Complex-nion
  - Mutual Interaction Operation (lose commutative)
- Views in a Constellation (flowers) Quaternion
  - Schematization Operation (lose associative)
- Candidates in a Slate (fruits) Octonion
  - Annihilation Operation (lose division)
- Emergent Meta-system (ground) Sedenion
  - Focus on island of real numbers with all properties in an infinite Pascal Triangle of hyper-complex algebras

# Emergent Meta-system

## Creation ex nihilo

