



Towards a University
for a Regenerative
Third Horizon




Module 6

Qualsystems: The Complex Qualsystems



QUALITATIVE SYSTEMS THINKING



QUALITATIVE SYSTEMS THINKING

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Part 1

RULES OF ENGAGEMENT



QUALITATIVE SYSTEMS THINKING

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Interpreting Complex Qualsystems

These are

9-term qualsystem – ENNEAD (also the enneagram)

10-term qualsystem – DECAD

11-term qualsystem – UNDECAD

12-term qualsystem – DUODECAD

We have to approach this escalating complexity through approximations as well as some interesting inherited meanings which are only slowly being verified empirically.

WE DO NOT HAVE THE COGNITIVE CAPACITY TO HOLD IN MIND SUCH COMPLEXITY. That is why yogic cultures resorted to symbols, mandalas, yantras and complex narratives.



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Escalating complexity

Let's just look at the implicit qualitative complexity in the first 8 systems (assuming the Nullad has an infinite complexity.)

1	1	} = 126
1 + 2 + 1 =	3	
1 + 3 + 3 =	4	
1 + 4 + 6 =	10	
1 + 5 + 10 =	15	
1 + 6 + 15 =	21	
1 + 7 + 21 =	28	
1 + 8 + 28 =	36	

We have experienced that it takes some practice to develop the skill to perceive distinctly the **overall attribute** quality of any n-term qualsystem. This requires tuning in to eight qualities in the relationship between self and universe.

If we were to attempt to discriminate ALL the qualities of the terms of the qualsystems this would entail and additional 35 distinct qualities or characters.

If we were to attempt to discriminate ALL the qualities of the relationships this would entail a further 118 distinct relationship qualities.

So you can see that, without some principles of approximation, we would be defeated by the recognised human cognitive limit of 7+/-2.



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Approximation – the traps

There are some laws of consistency in qualsystems that we need to be aware of since approximations will break them. We need to do this consciously so as not to fall into the Aristotelean trap.

1. Qualsystems are not additive. For example, you cannot make an authentic heptad by adding a triad to a tetrad. Each quality is partly and reciprocally determined by the systemic context in which it resides.
 - For example a quality of feminine in a couple relationship is modified if also in a parenting relationship
2. The mutual relationship between self and universe implies that if we have in mind, and act from, a qualsystem that does not correspond to an actual situation we will induce misunderstanding and inappropriate action, often referred to as unintended consequences.
 - For example, if we use a tetrad to try to understand the meaning of an action within that system alone instead of shifting to a pentadic view, we will miss the contextual significance.



Approximation – the techniques

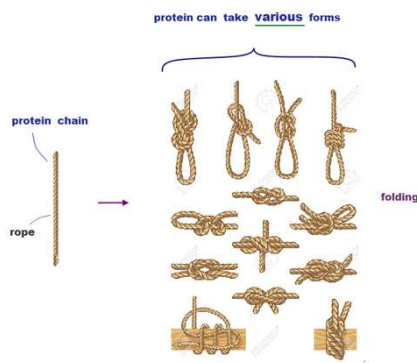
These techniques occur within a perceptual rather than an analytical mode. The analytical component is to create a scaffolding through which the initiation can work. If an insight is not triggered then the approximation is wrong or needs more incubation and emergence.

The Techniques are:

1. *Polarities and Complementarities*
 - In *even qualsystems* terms which are geometrically opposite can be considered as contrasting terms which may be in tension or in a mutual complementarity
2. *Triangulations*
 - In qualsystems with $n > 3$, three terms can be grouped and considered quasi-triads where they are coded as if affirming, receptive and reconciling in that specific relationship.
3. *Quaternaries*
 - In qualsystems with $n > 5$, four terms can be grouped and considered as a quasi-tetrad where they partially assume the term characters of the tetrad with the n -term qualsystem.
4. *Discovered Patterns*
 - Practitioners in other culture and traditions have gained insights we are symbolised in historical tools that have taken subsystems of the qualsystem which can be used to great effect.



Are there other domains of non-additive complexity?



Protein folding occurs in a cellular compartment called the endoplasmic reticulum. This is a vital cellular process because **proteins** must be correctly **folded** into specific, three-dimensional shapes in order to function correctly. Unfolded or misfolded **proteins** contribute to the pathology of many diseases.

<https://www.youtube.com/watch?v=yZ2aY5lxEGE>



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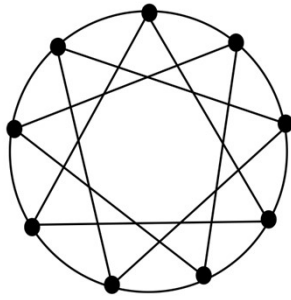
Part 2

ENNEAD



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ENNEAD

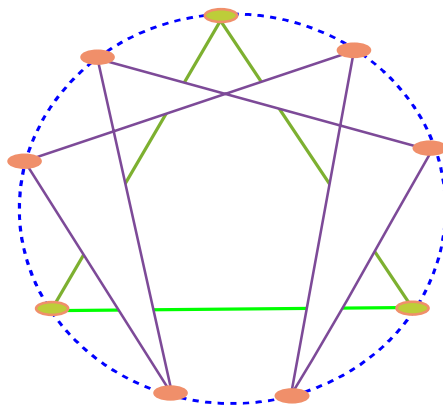


Designation	9-term qualsystem
Quality Attribute	Transformation
Nature	Creation Viability Fulfilment
Terms	9
Connectivities	36



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ENNEAD as ENNEAGRAM

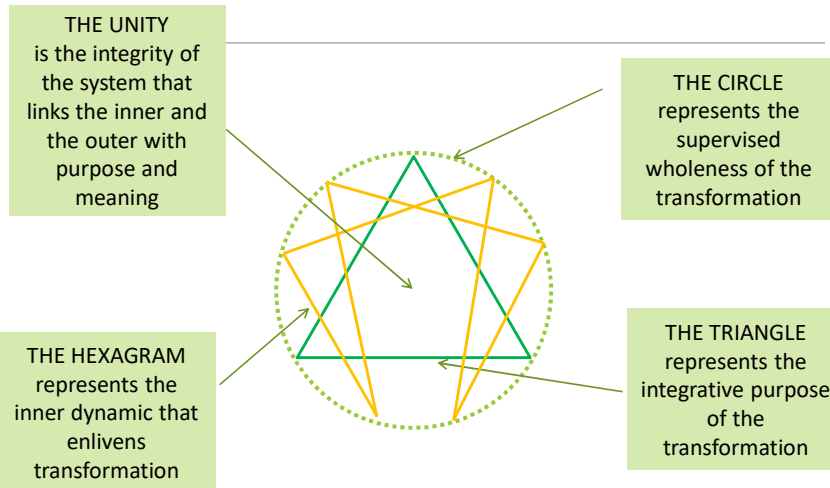


- A discovered pattern



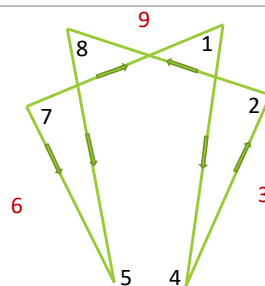
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The Inner Structure of the Enneagram



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Transformations require action beyond linear time.



$$1 \div 7 = 0.142857 \text{ recurring}$$

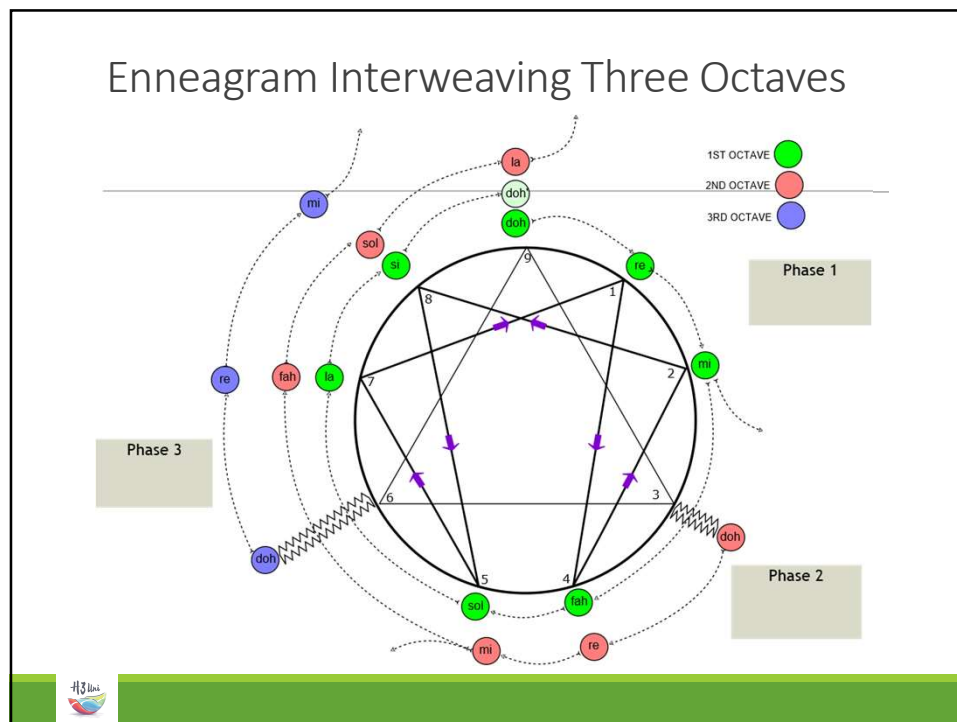
To understand the meaning of these lines we need to shift our assumptions about the nature of time, pattern and perception.



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Part 3

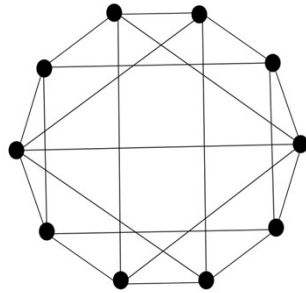
DECAD

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DECAD



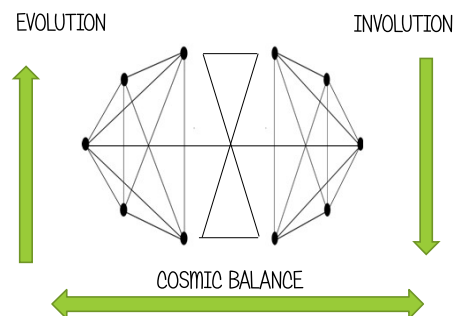
Designation	10-term qualsystem
Quality Attribute	Intrinsic Harmony
Nature	Dynamic Fusion
Terms	10
Connectivities	45



15

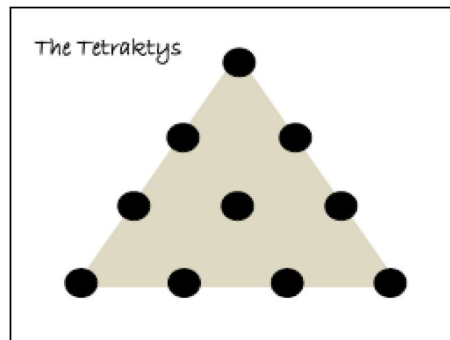
DECAD – A possible internal structure

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DECAD as incomparable set



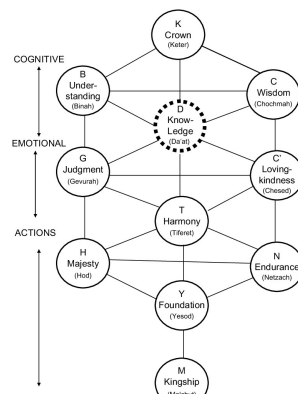
These are the numbers 1 2 3 4
5 6 7 8 9 10.

The key here is that are not regarded as 'simply number' but each dot represents an **incomparable set**. This means that each number (dot) is inherently and **irreducibly unique**.

This can be summarised as
One dot for **oneness**
Two dots for **duality**
Three dots for **triplcity**
Four dots for **quaternity**
and so on.



DECAD as Cybernetic Kabbalah



Note: A system of interconnected fundamental attributes describing creation and the cognitive, emotional and action levels of any created system

INVITED PAPER Foundations of a postmodern cybernetics based on Kabbalah

Gabriel Barshelet and Constantin Virgil Negoita
Department of Computer Science, Hunter College,
City University of New York, New York, New York, USA

This paper seeks to lay the computational and mathematical foundations for a "postmodern cybernetics" based on ancient Kabbalah. This new Kabbalistic cybernetics is introduced to act as an unifying science addressing simultaneously, in a common language and framework the triple nature of human, psychological, social, economic, financial, political, cultural systems and their present multi-faceted crises and conflicts: cognitive objective level of attaining knowledge; subjective emotional level and physical action and behavioral level.

Kybernetes
Vol. 40 No. 9/10, 2011
pp. 1331-1353
© Emerald Group Publishing Limited
0368-492X
DOI 10.1108/03684921111169422



Part 4

UNDECAD

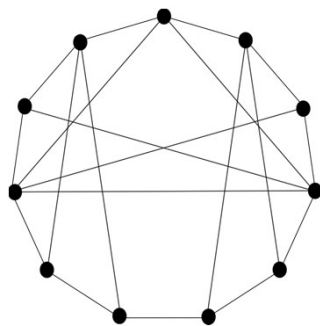


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UNDECAD



Designation	11-term qualsystem
Quality Attribute	Articulate Symmetry
Nature	Crisis and Bridging
Terms	11
Connectivities	55

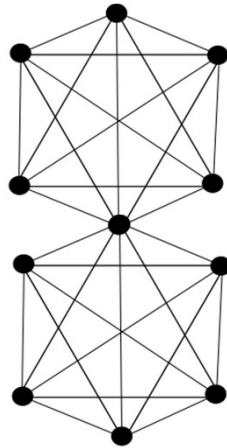


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UNDECAD – a possible internal structure



QUALITATIVE SYSTEMS THINKING

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UNDECAD – crisis and bridging

- The number eleven is sometimes said to be a pure or prime number in numerology and in math in general.
- The number eleven can symbolize balance and vision as well. The number eleven is also a number of opposites.
- It can symbolize balance in this way, but also female and male energies.
- In ancient Athens, a court of judgement was composed of eleven men. In the 'Beautiful Game' there are eleven players, one of whom is the goal keeper. Cricket has eleven players one of whom is the wicket keeper.
- Sun spots occur in eleven year cycles.



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Part 5

DUODECAD

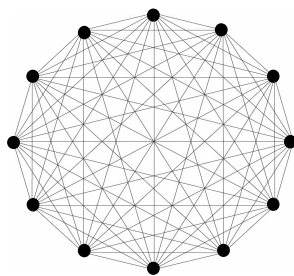


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DUODECAD



Designation	12-term qualsystem
Quality Attribute	Totality
Nature	Regenerative
Terms	12
Connectivities	66

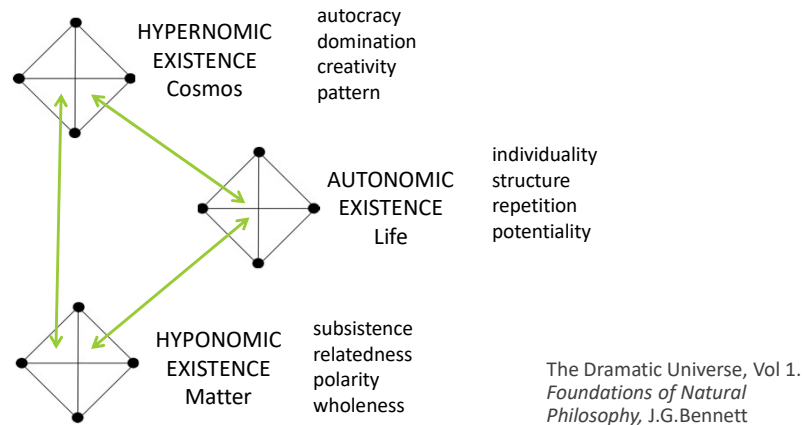


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DUODECAD as a Triad of Tetrads

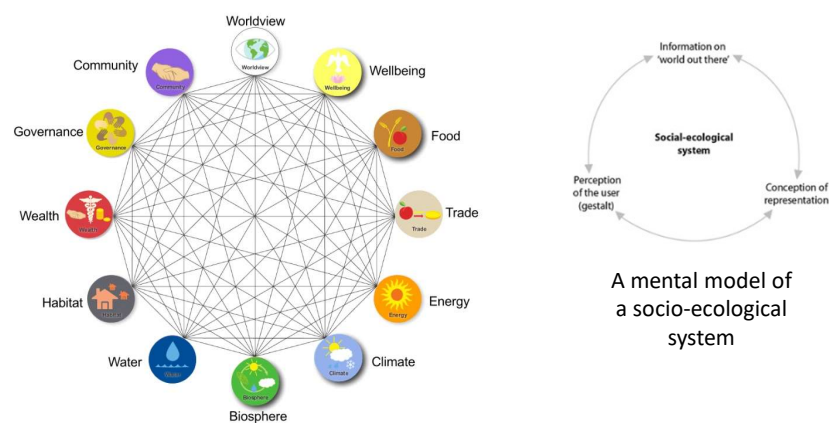


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DUODECAD as World Mandala

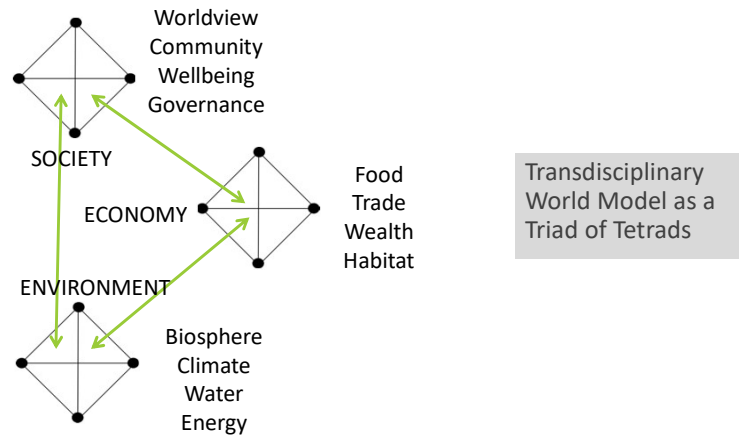


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World Mandala as a Triad of Tetrads



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Conclusion

VISUALISATION



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A Yantra

A yantra literally means a machine.

A machine is a combination of very purposeful forms.

If you make some forms very purposefully and assemble them together – ten gear wheels for instance – it becomes a machine.

A yantra is a form, simple or complex, towards a certain purpose.

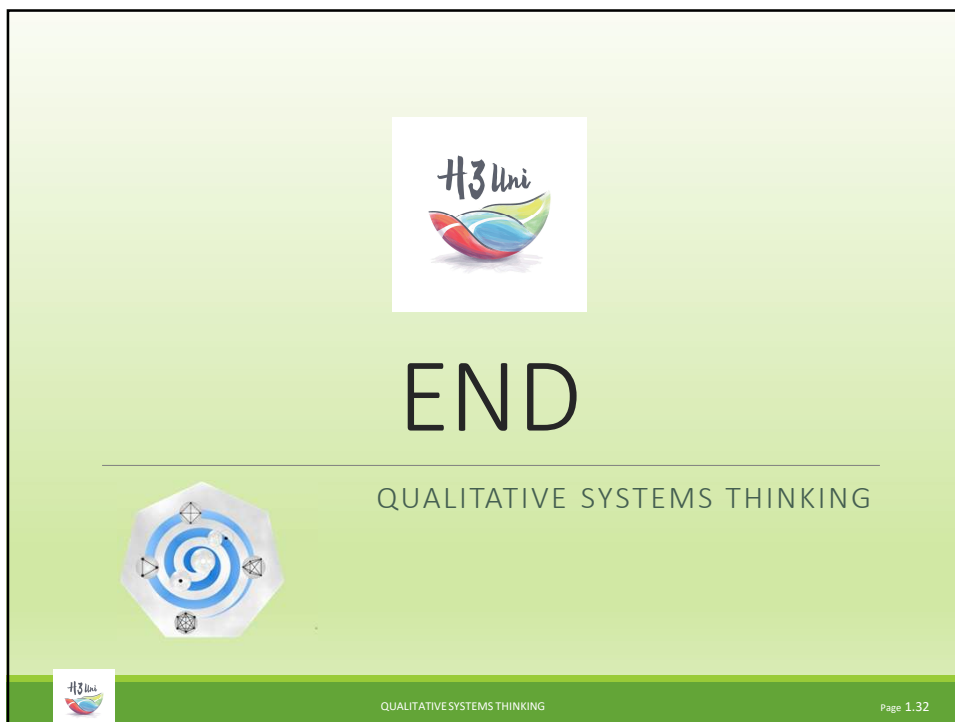
A combination of yantras becomes a larger yantra – a larger machine.

Sadhguru





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