



Faculty of Design

2014 Self-organizing a strange attractor Nelson, Harold

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RSD 3

what is systemic design? a shared inquiry

Harold G. Nelson October / 17 / 2014 There are these two young fish swimming along and they happen to meet an older fish swimming the other way, who nods at them and says "Morning, boys. How's the water?" And the two young fish swim on for a bit, and then eventually one of them looks over at the other and goes "What the hell is water?"

David Foster Wallace

No one really understands water. It's embarrassing to admit it, but the stuff that covers two-thirds of our planet is still a mystery.

Philip Ball

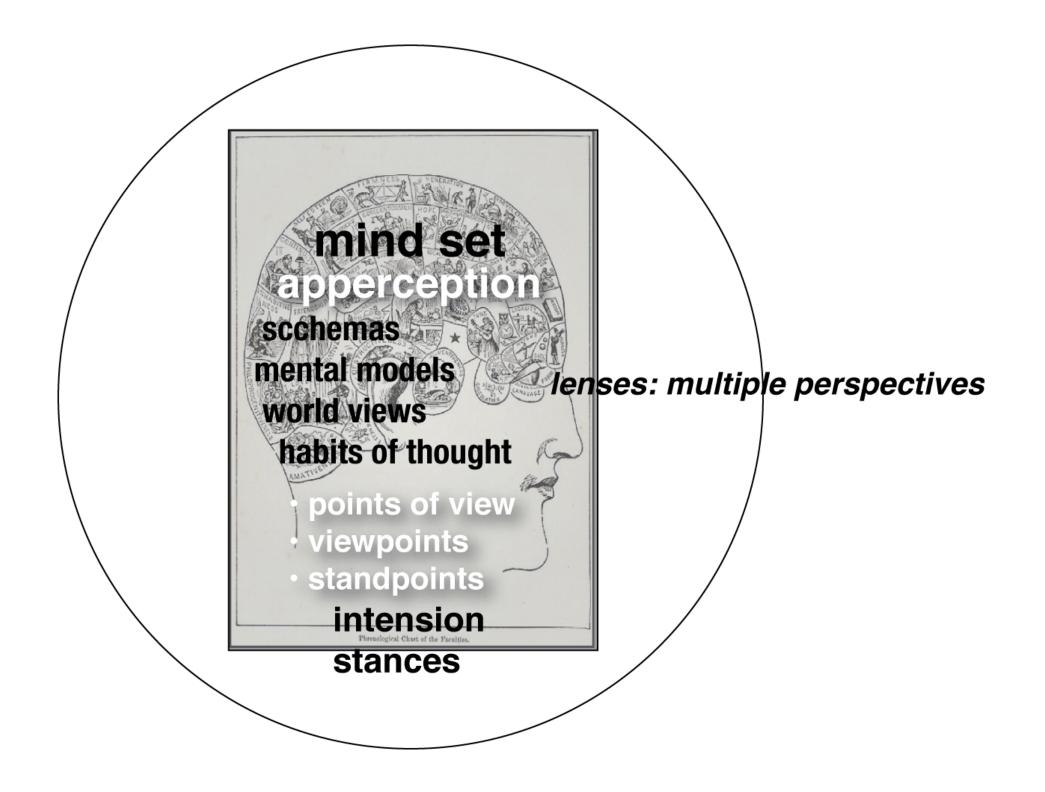
so what the hell is systemic design?

a shared inquiry

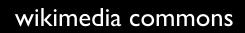
- rising tide of interest in 'design', 'systems'

- new designers
- new forms of design
- anthropocene age

what is inquiry?



overview effect



Overview effect video

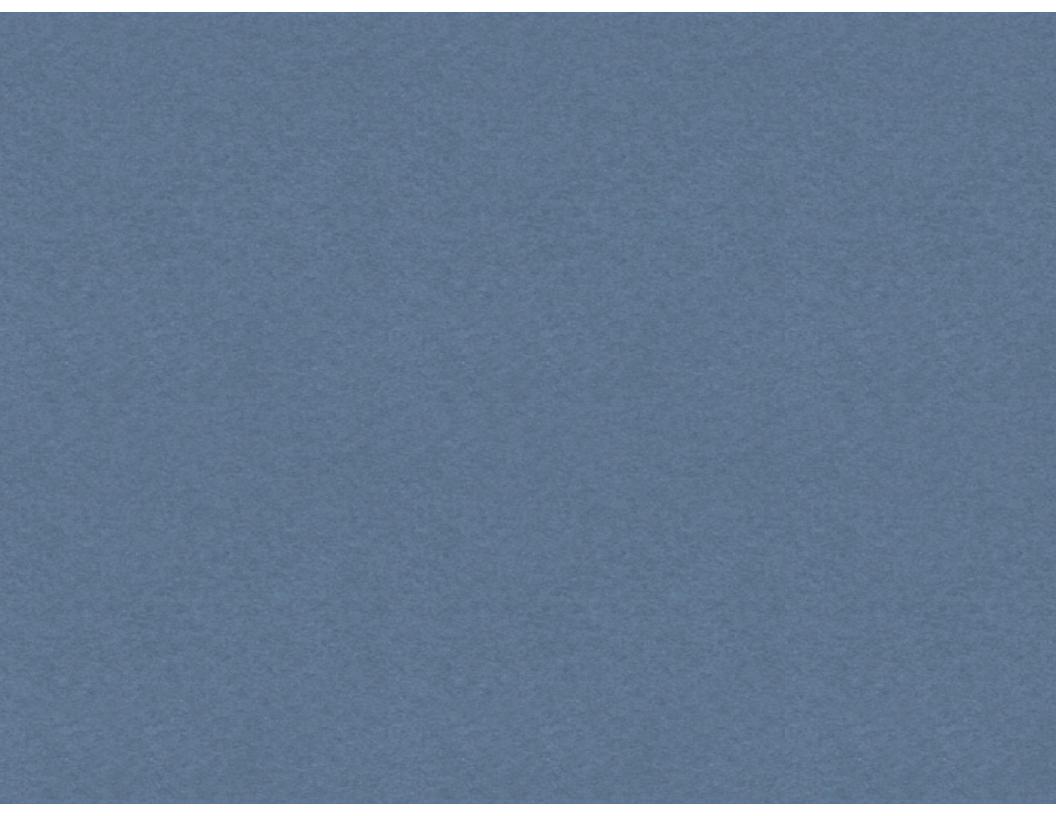
https://www.youtube.com/watch?v=CHMIfOecrlo

trailer http://vimeo.com/55073825

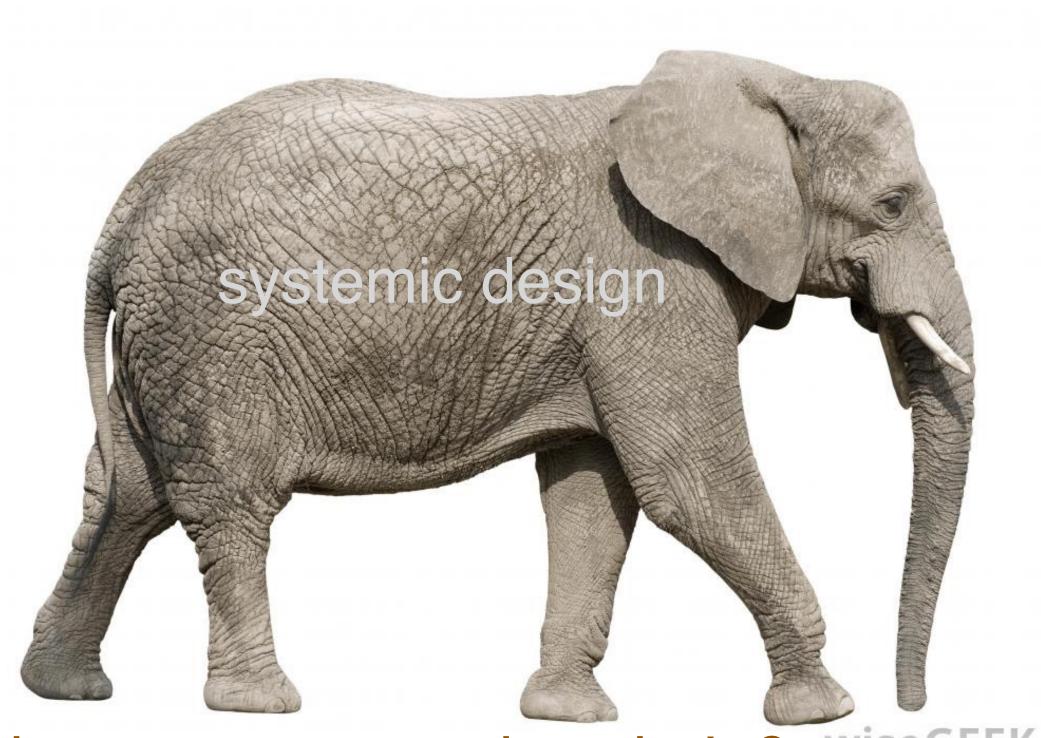
trailer plenetary http://vimeo.com/60234866 like water, design is ubiquitous yet a mystery

enigma

a person or thing that is mysterious, puzzling, or difficult to understand







how can we see the whole? wiseGEEK

designs of inquiry

means for describing, explaining, predicting

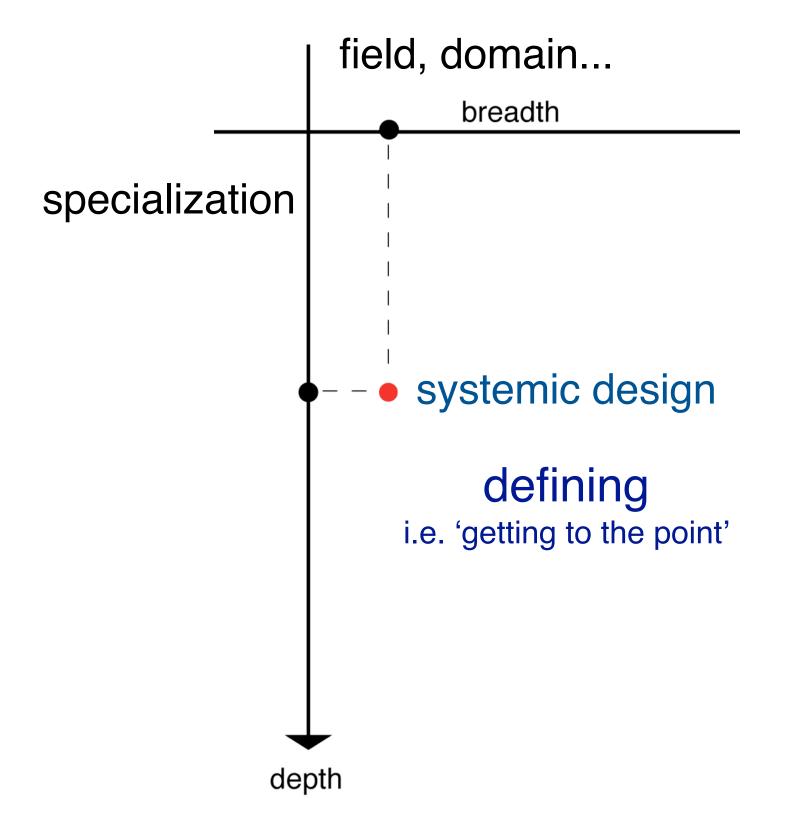
- 1. scientific inquiry
- 2. spiritual inquiry
- 3. metaphysical inquiry
- 4. design inquiry
- 5. systemic design inquiry
- 6. individual inquiry
- 7. collective inquiry
- 8. collaborative inquiry
- 9. shared inquiry

the usual first step — end the inquiry

define 'it'

one fit sizes allone size fits all

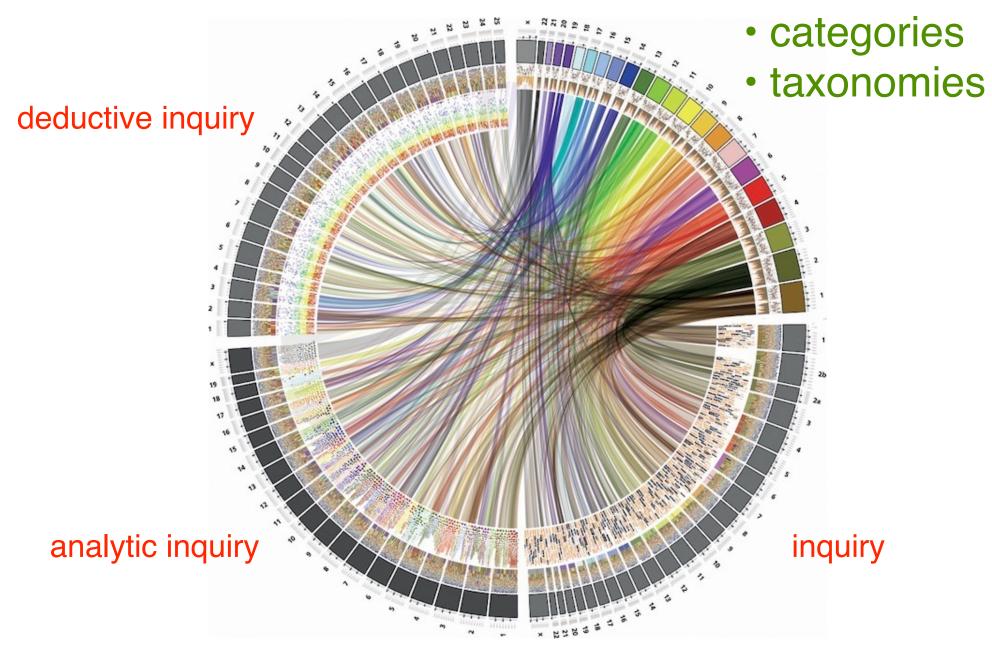
define |di'fīn| verb [with obj.] l state or describe exactly the nature, scope, or meaning of give the meaning of (a word or phrase), esp. in a dictionary. DERIVATIVES definer noun ORIGIN late Middle English (also in the sense 'bring to an end'): from Old French definer, from a variant of Latin definire, from de- (expressing completion) + finire 'finish' (from finis 'end').



scientific inquiry

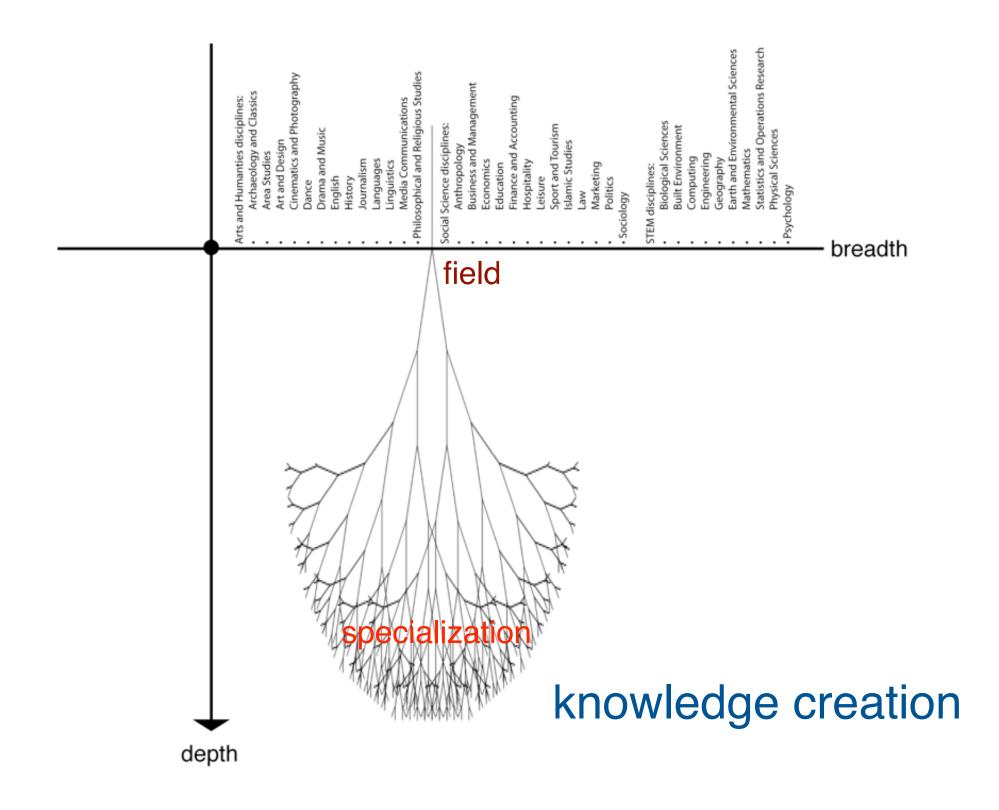
the norm

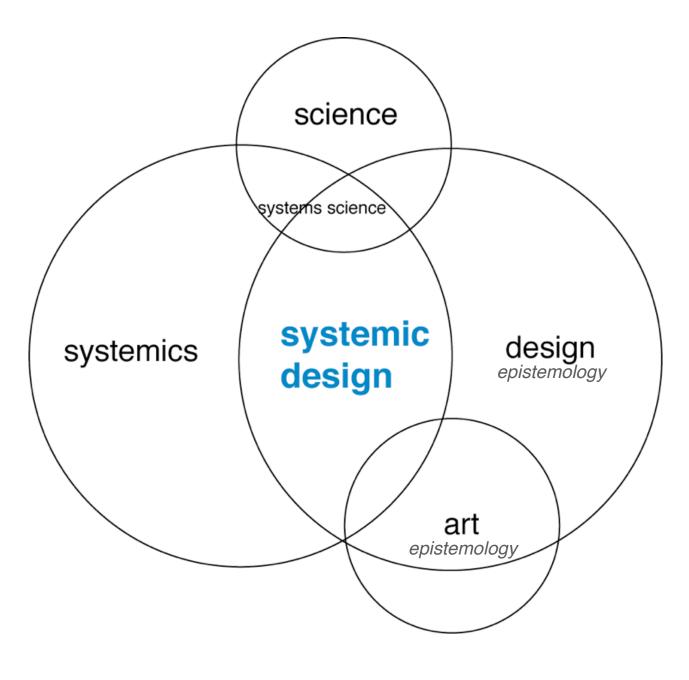
- collecting evidence
- collecting data
- categorizing
- theorizing
- •



http://www.circos.ca/images/published/

induction: data to categories





categories of inquiry

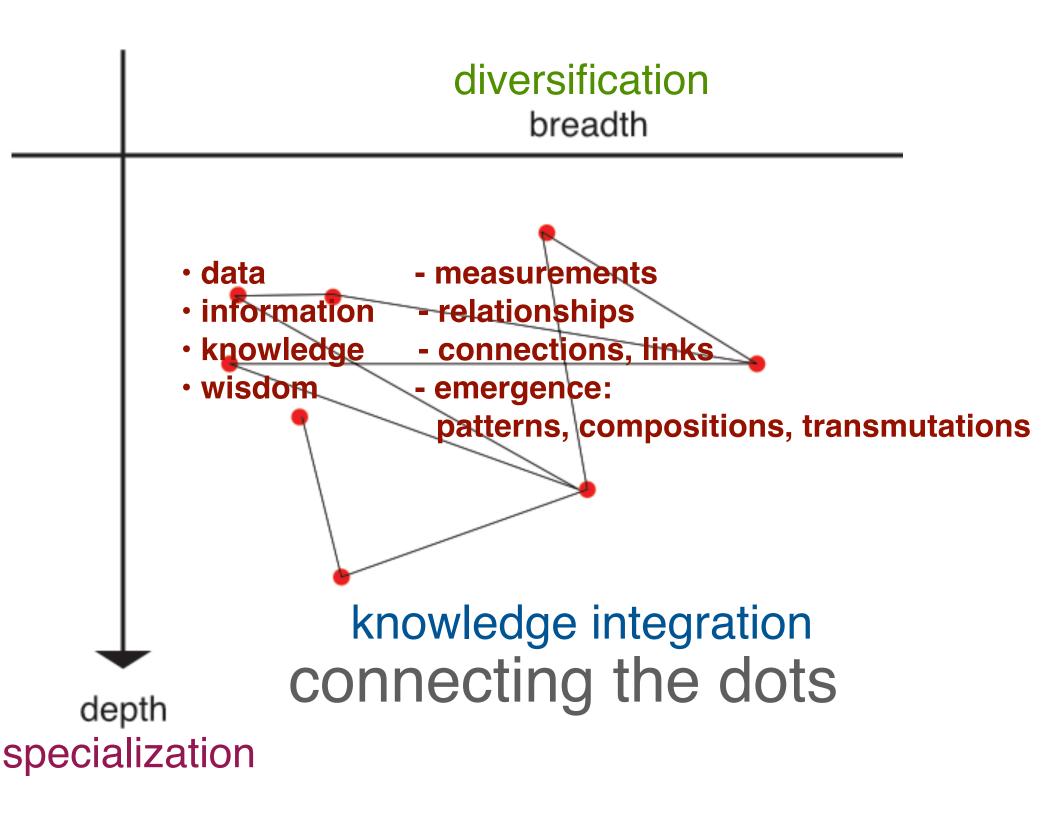
another first step

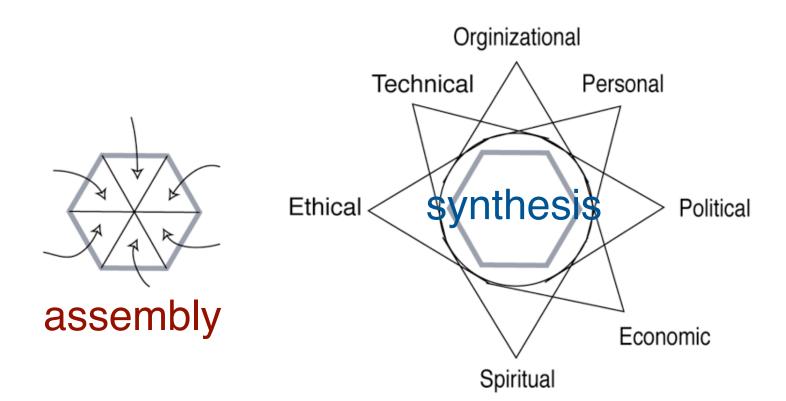
systemic design inquiry



From Charles Maurice Stebbins & Mary H. Coolidge, *Golden Treasury Readers: Primer*, American Book Co. (New York). p. 89.

collaborative inquiry points-of-view





seeing the divisions

- disciplinary
- interdisciplinary
- multidisciplinary

challenge:

- relationship of parts
- synthesis of parts

seeing the whole

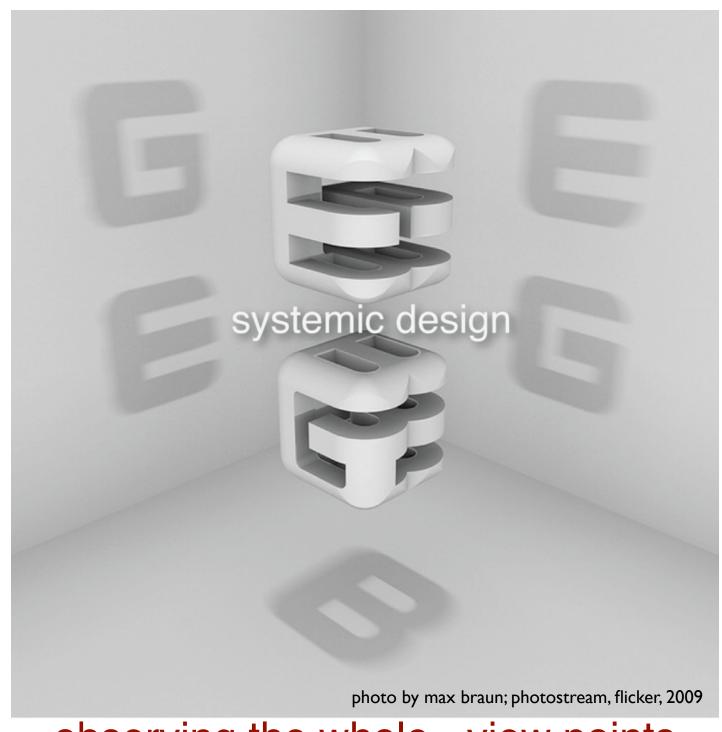
multiple perspectives

challenge:

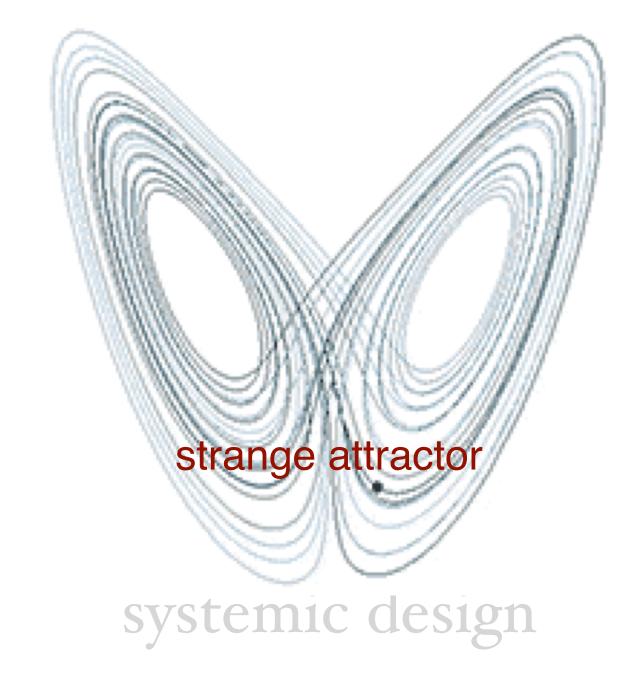
- integration of perspectives
- recognition of emergence

collaborative inquiry

shared inquiry



observing the whole - view points



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http://www.hdanimalswallpapers.com/2013/01/wallpaper-of-flock-of-flying-birds.html

shared inquiry - self organizing behavior



protocols give rise to complex self organizing behavior

protocols: rules of relationship

- **conversation** turning together in the same place
- **dialogue** letting things be seen through language
- graphologue letting things be seen through images

shared inquiry

what is the symposium's design of inquiry? what is revealed by the symposium's inquiry?

invitation to a shared "appreciative inquiry"

"Valuing the symposium's designs of inquiry—espoused and enacted."

"Valuing the symposium's successes at revealing the nature of systemic design."

- scholarship
- praxis

- knowledge expertise
- scholarship & practice systemic design

frames-of-reference

- scholarship of discovery > inquiry for action
- scholarship of integration > systemics logic
- scholarship of application >
 service & agency
- scholarship of teaching > capacitation

H. Nelson **Ernest Boyer** scholarship reconsidered design scholarship

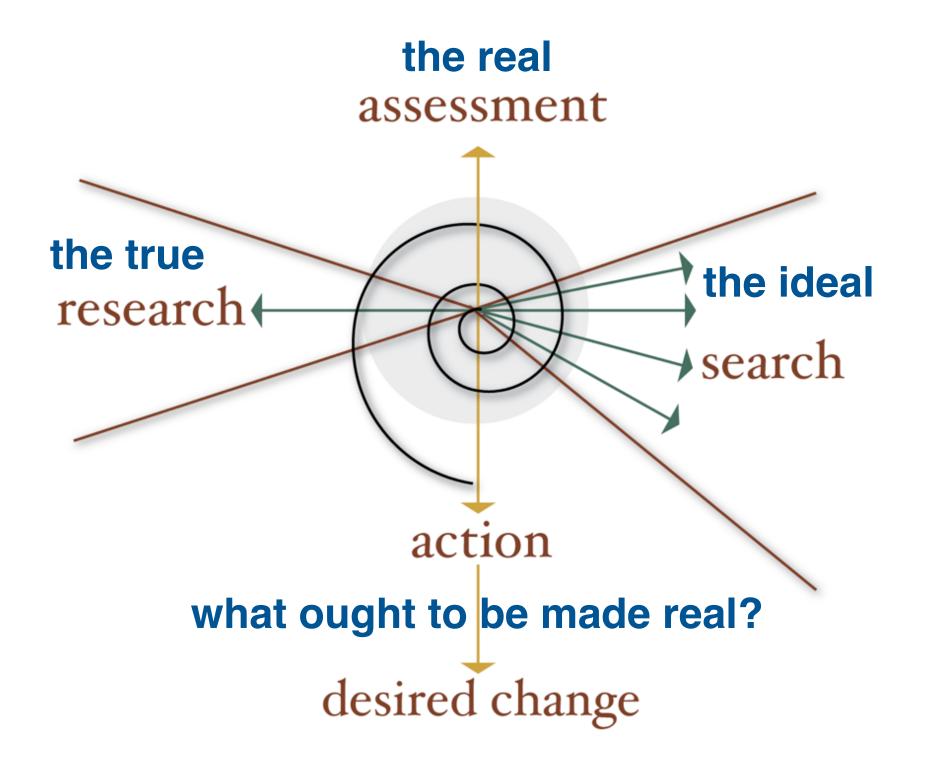
domains of design scholarship

protocols of scholarship

examples of protocols

1. scholarship of inquiry for action

i.e. design inquiry



2. scholarship of systemics

the logics of design

- thing
- object
- entity
- event

- relationships in-between

connectionslinks

emergent qualities

thing

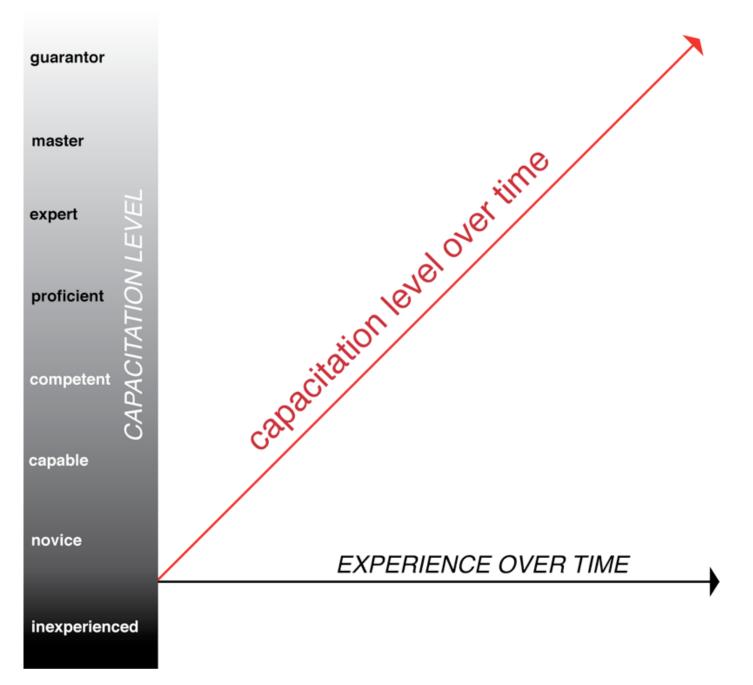
- object
- entity
- event

3. scholarship of agency & service

When you help, you see life as weak; when you fix, you see life as broken. When you serve, you see life as a whole.

Remen, Rachel Naomi 1991. In The Service of Life. Noetic Science Review.

4. scholarship of capacitation



Capacitate: to render fit or make qualified; to enable.

RSD3 Symposium

evidence of supporting and advancing

- understanding of systemic design?
- collaborative systemic design inquiry?
- shared systemic design inquiry?

ongoing inquiry