

UNIVERSITY OF TORONTO
Faculty of Arts and Science
DECEMBER EXAMINATIONS, 2011
NEW 333F

Duration - 3 hours

Aids Allowed: none

Total marks: 50

No scantron needed

Section 1:

Answer 4 of the following 9 short essay answer questions. Describe and explain each term(s), to which issues it is relevant, how it is relevant, and any relevant critical/insightful response. Each answer is worth 5 marks for a total of 20 marks.

1. Worldview attunement
2. ~~philosophia~~
- ✓ 3. Sensibility transcendence
4. Having mode
5. ~~Existenz-landscape~~
6. ~~Chi or ki~~
7. parasitic programing
- ✓ 8. complexification

✓ - flow state
✓ - ~~shamanism~~ sacredness
✓ - transcendence

Section 2:

Answer 1 of the following 4 long essay answer questions. The answer is worth 30 marks.

1. Critically review and discuss Batchelor's argument for a culture of awakening.
2. What is *philosophia* and how is it relevant to understanding the relationship between Buddhism and cognitive science?
3. Explain the cognitive scientific relevance of shamanism to understanding and appropriating Buddhism.
4. Can Buddhism interpreted by cognitive science address the meaning crisis? ✓

Spontaneity
vs
impulsiveness
↳ harmony between
suchness and self
Non-essence and essence

→ as long as Cog Sci has the same
naturalistic imperative as Buddhism -

Flow: chaining of insight → challenged slightly beyond limit

- ~~that~~ fluidity (automation / spontaneity) // but not subject to low-level procedures
- improves implicit learning through fitfulness with causal patterns
- transgenic ✓

disproportionately appropriate

! → clear feedback + tight coupling of response -
 • powerfulness - effortlessness to intensity ~ Grace
 • diagnostic: small error can break down flow -

→ Good way to educate intuition (implicit learning) as it is subject to perennial threats
 → distinguish correlation from causation

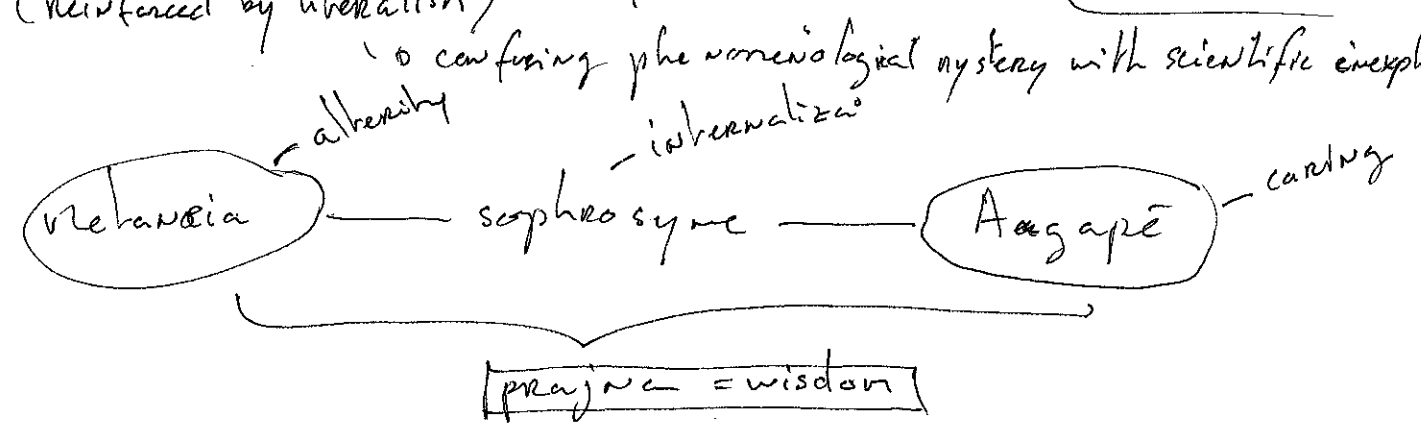
~~Fittedness with~~ Dynamical fittedness ↔ flow

Sacredness: • mystical exp = flow of transforming - recursive: signif of signif
 + • world view attendant (but non supernatural!!)

Metanoia: ultimate appropriation of alterity

Historical crisis (reinforced by liberalism) ↔ { perennial threats

ask Athab: Epic?



- Cog Sci — Knosion
- E - ~~Knosion~~ Embodiment
 - E - ~~Knosion~~ Knosion
 - E - Emergence
 - E - Excellence

- > TRANS framing perspective on situations
 - > improve flexibility in sensibility
 - > sensibility transcendence
 - > at-onement (flow state)

Flow state:

- > feedback clear + tightly coupled -
- > constant re-framing :: adaptive state
- > automaticity flows spontaneously
- > ~~what~~ overcoming low-level procedures

=> implicit learning (underlying subconscious learning process) = intuition
 -> flow = chaining of insight to improve implicit learning - correlating patterns (≠ causal paths)

Sacredness also comes from mystical / self-trans experience -

- ↳ reba-meaning protection
- ↳ experience of the unknown

being connected to ~~something~~ ^{something} beyond yourself (only enabled by self-trans)

e.g. grief ~~to~~ makes naive egocentrism disappear -

Bullshit = not care about truth (flashy rhetoric)

Lie = care about ~~the~~ truth

eg. advertising is going to make salient things that are disconnected to self-bullshitting: redirecting your attention to make things salient

⇒ self-transcendence: response to perennial problem

that we are always susceptible to self-deception -
↳ overcome ego by appropriating alterity

Aporia: loss of intelligibility by imposing transcendence

adaptiveness is leading to inherent weakness

↳ loss of significance of self within universe -> narrative gap

Meaning Crisis: ↳ historical causes ↳ (perennial threats)

↳ Deeper sense of self coming from appropriating alterity

↳ ego -> mind/mind
↳ mind/world
↳ mind/body

solved by trans.

↳ kid appropriating parent's perspective -> becoming aware of his own -> appropriating alterity to improve cognitive

↳ lose motivation by performing trans-op. shift: reflective gap

pure consciousness event = trans-op. while in cognitive region!

transframing:

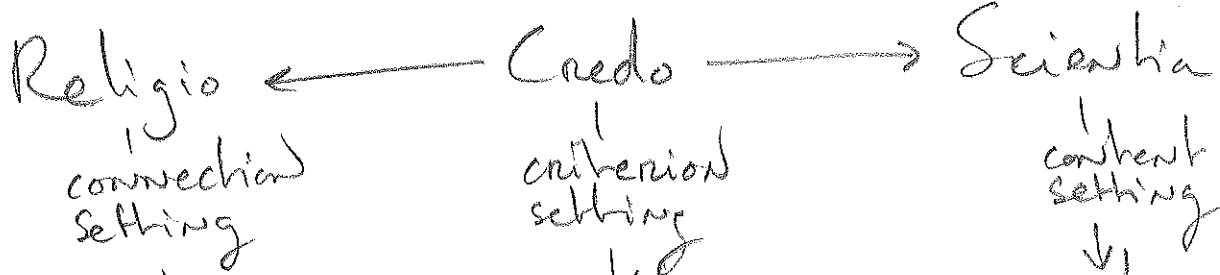
↳ fundamental framing is beyond: no-things

flexibility ← transop/optrans → involvement

↳ humbles us + we realize ultimate freedom

↳ lose illusion by performing optrans shift: disillusionment gap

flexibility



connection setting

criteria setting

content setting

psycheds of significance

language games

evidence methods

sense of fitfulness

boundaries of agreement

names, meanings, systems

facts

Credo → mythos
Credo → religio
affect → logos

side-note: not taking responsibility for inducing implicit connection making on logos level

Meaning Crisis → Domicide → machinery of Religio ↔ Credo is destroyed: even if physical needs are catered to,

what is a meaning crisis?
→ cultural level domicile

3 gaps ← mind-world — Not at home

Credo is supposed to fit us to the world by providing a belief/meaning system. / Buddhist Credo is perfectly apt to provide that system regarding our CogSci ~ Scientia

Wholesome Credo → create proper BMH

if I have a fundamental way (Credo) of fitting myself to the world, then all other belief systems will make sense -

proper modeling of world ↔ proper actions -

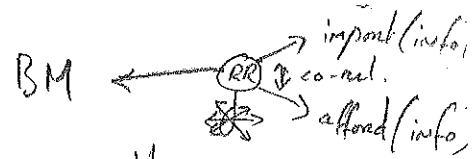
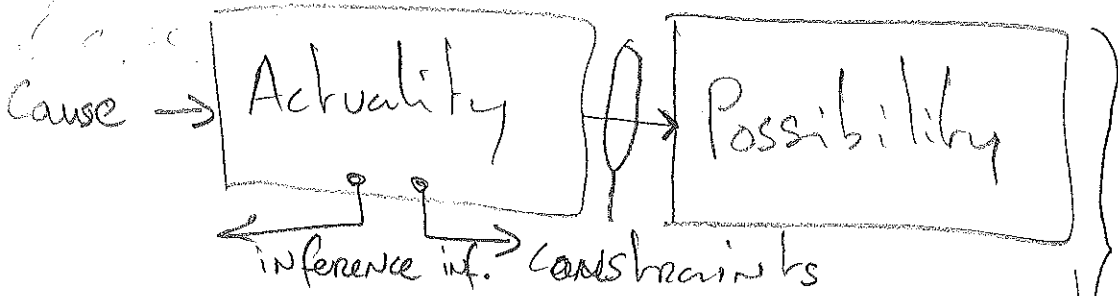
↳ HOME. Environment is in adequacy with Behaviour

Religion is powerful machine to protect us from horror -

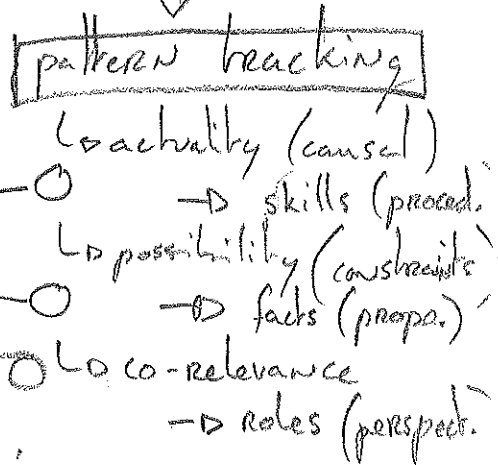
→ if I can't make meaning → self destruction or violence

Sacredness is coming from this protection, it brings useful meaning -
→ is more than that

COG	2	50
NEW	3	33
COG	4	11

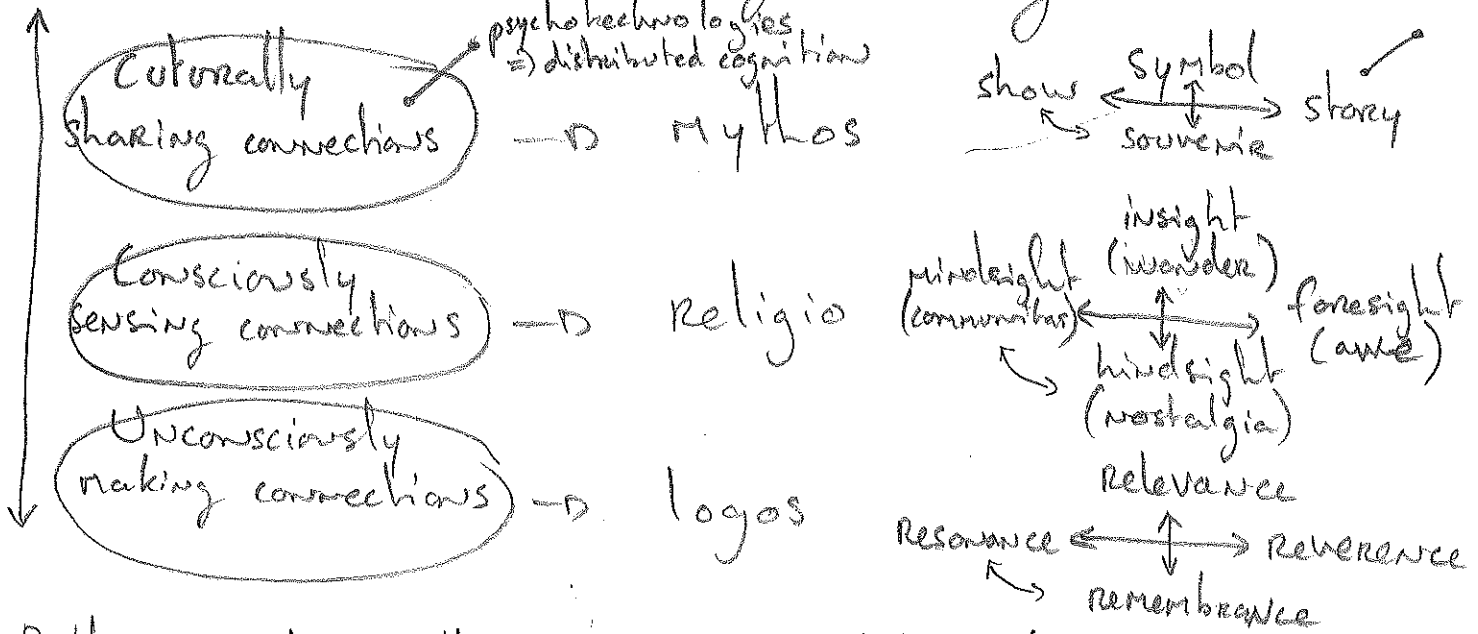


information ↔ Partial
Polybed
Plethora (Potential)



autopoietic transcendence { prepare
anticipate

RR mechanics - Connecting ~ Religio



Patterns within patterns ⇒ musicality (meta-connel^o / organisa^o)

→ shows

Religio (and narrative) is indispensable but not neurophysically necess.

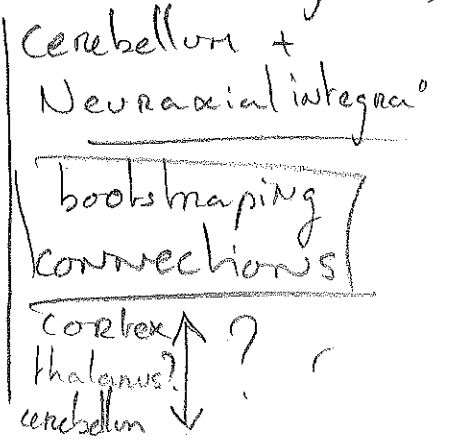
↑ narrative

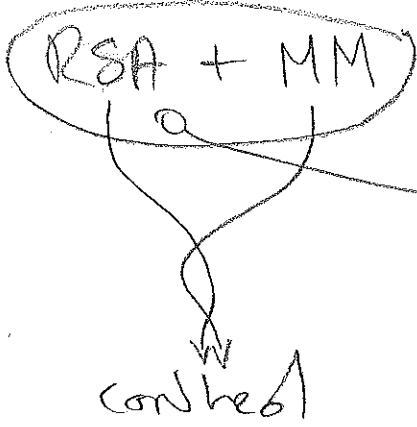
Credo = belief system → sets boundaries for

↔ Scientia

Christianism: Credo → Religio

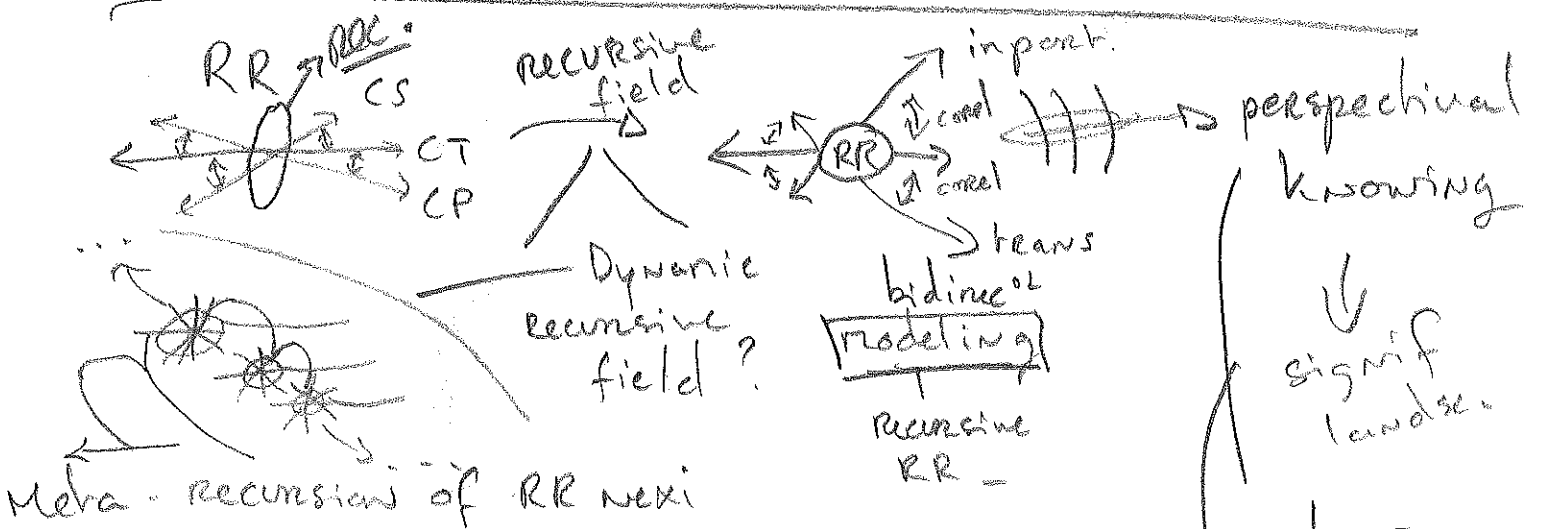
Religio to distinguish ambiguity → worn setting





being aware of recursive nature of thought processing
 ↳ reworking attention to cognitive processing

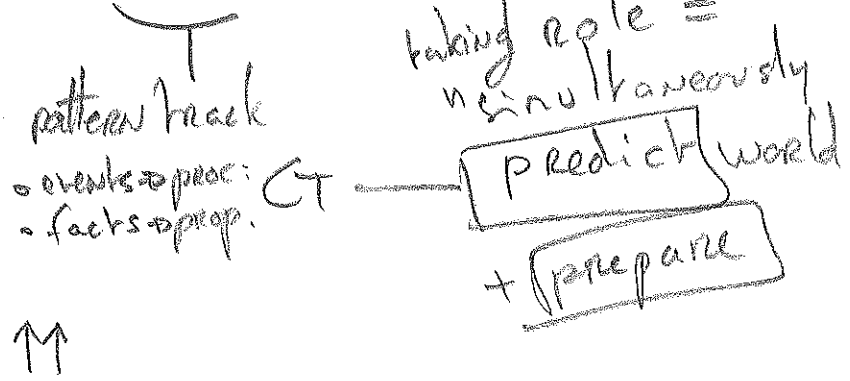
importance of visualisation
 ↳ gestalt
 ↳ meta-processing



comment: bidirectional modeling has recursive aspect
 meta-correlance

co-referance is recursive

→ Reaching core essence relating to it through BidireMod



DPD adds an extra layer of (projection of yourself)

→ bidiremod is now working on that proj?

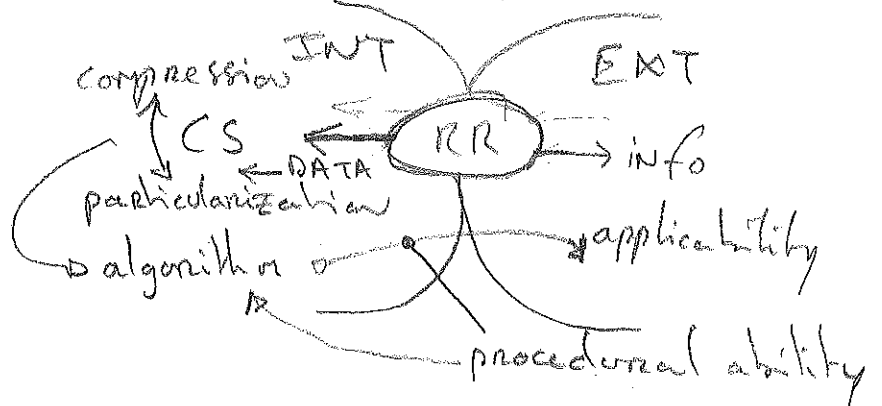
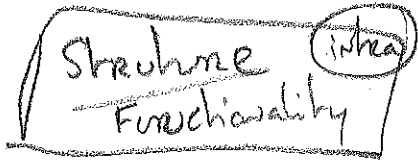


Mechanics of RR - constraints on internal economics

Internal economics / external interaction

1 Cognitive scope:

Gen purpose ↔ spe purpose



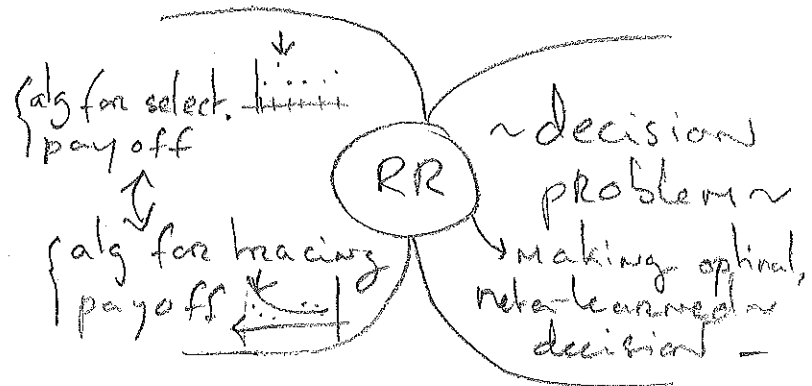
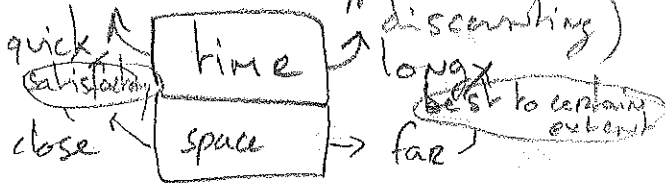
2 Cognitive tempering:

explaining ↔ exploring

select best strategy

look for possibilities in the future

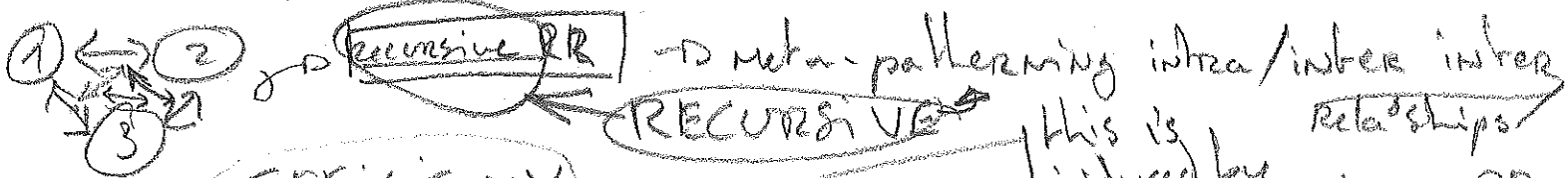
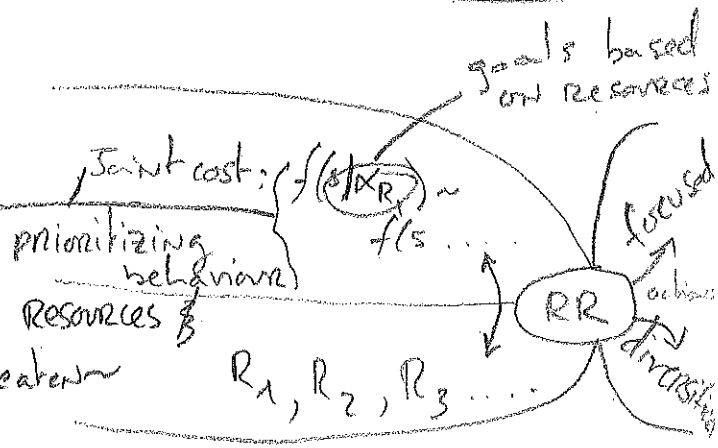
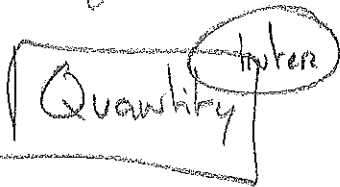
(hyperbolic discounting)



3 Cognitive prioritization:

focusing ↔ diversifying

ambiguity reduced because of evolutionary arg: ~ better to flee than be eaten - D better to

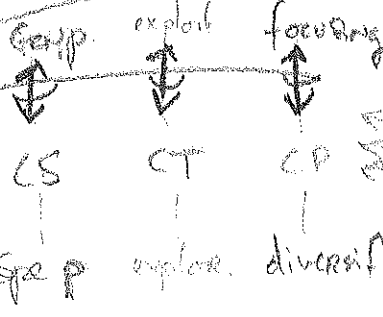


EFFICIENCY

RR = ↔ +
 Recursivity = +
 Meta
 Dynamic meta-patterning



RESILIENCY



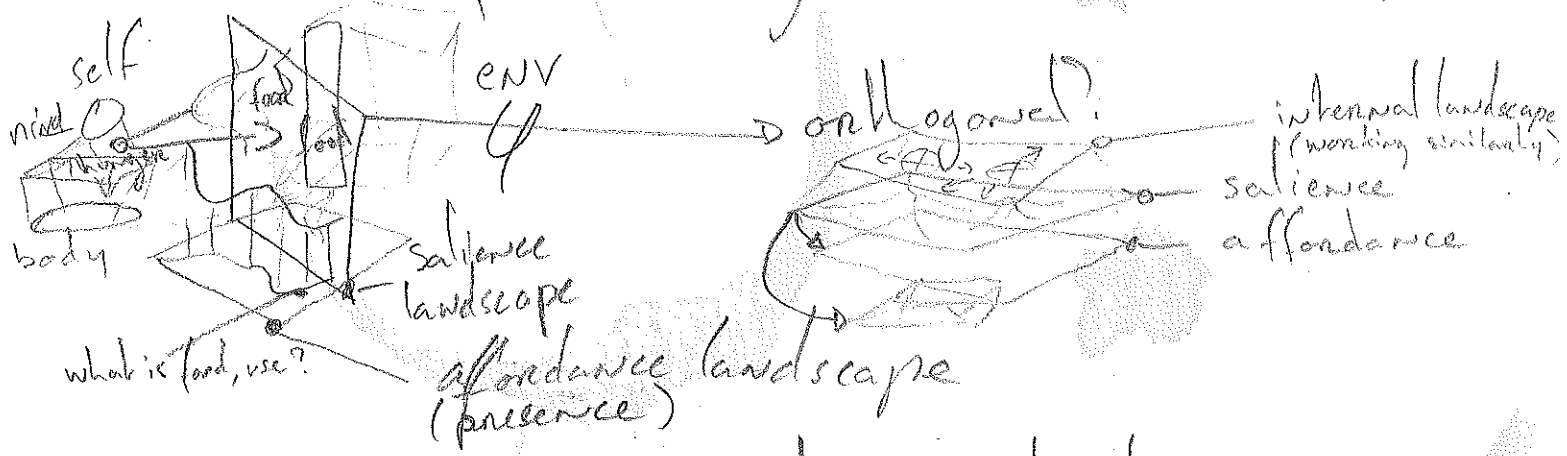
This is induced by higher order ~ RR.
 RR induces these multiple pts of process.
 RR is a design feature of the brain.

Applying RR to future (caring for oneself)

- input-correl. prediction
- means + preparation
- anticipation

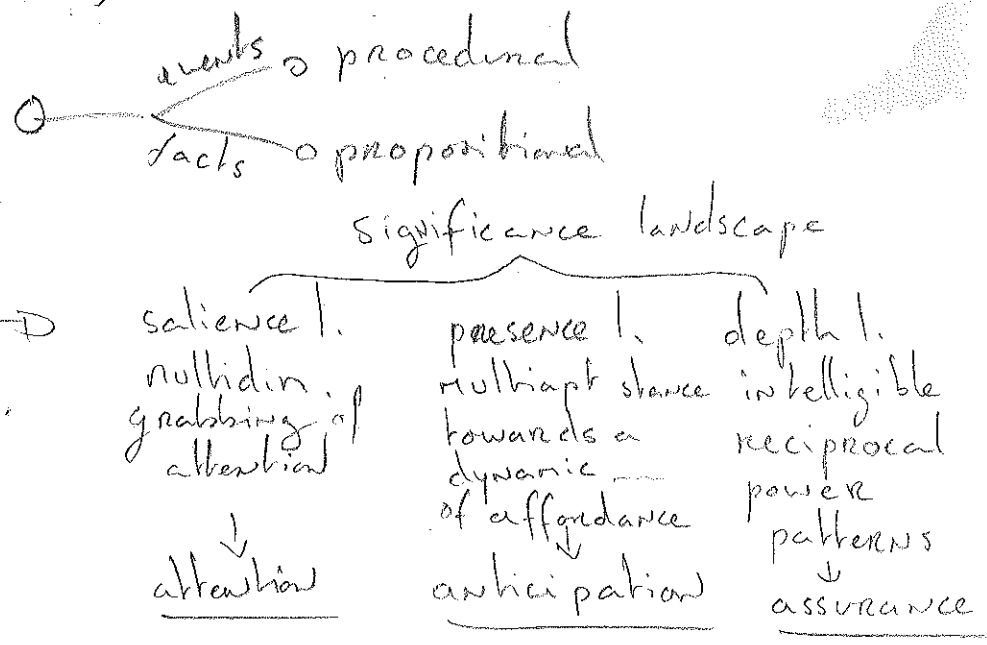
e.g. hyperbolic discounting
 → preparing for future

Another neck for RR integration



Prigogine modeling oneself

perspectival knowing
 (taking roles)
 shifting perspectives



reciprocal power be moved → move
 NEXUS of causal and influential aptness
 intelligibility conceptual fitness
 e.g. solar system → atom analogy has realness to it

tracking of systematicity - intelligibility
 Depth = confluency of intelligibility
 () and recip. power (multi-aptness of causal-influential connections)

salience → presence → depth: making analogies, links
 realness rationality

Dimensions of RR - self-organizing needs of RR - ① reacting to signals
 information = reduction of uncertainty

↳ constraint on possibilities

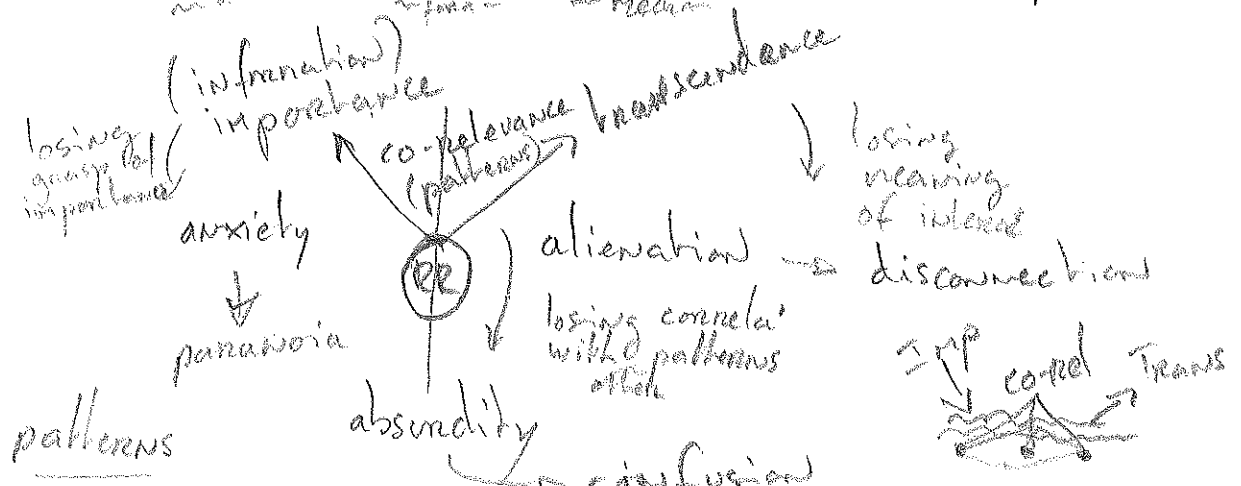
Finding relevance in signal interpretation, an evolutionary account: mistaking noise for signal is better than mistaking signal for noise!
 ↳ autopoietic organisms

co-relevance

recognizing patterns → completing patterns by extrapolation
 → generating signals

transcendence

~~transcendence~~ ~~transcendence~~ Transcending env., acting, giving meaning



Events (causal) } actuality (cause of ac)
 Facts (constraint) } conditions on possibility

procedural → skills → expertise
 propositional → facts → theories

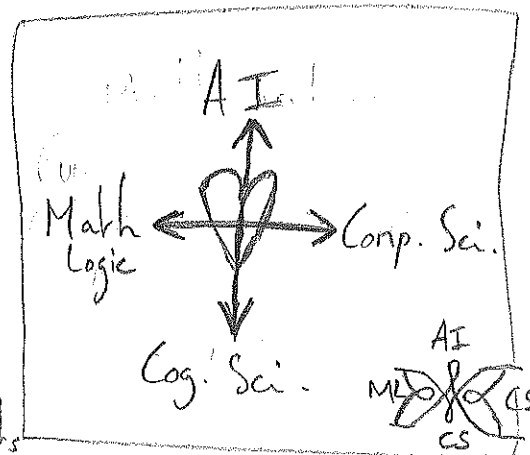
Applying 3D in RR to signals: correl. is distinguishing patterns from background

GPS framework \rightarrow fails (combinatorial explosion) because simplistic assumption on formulae
 [link with polynomial time reductions]

Good pb formulae \rightarrow combinatorially explosive pb!

RR + Env = Enaction -

RR causes cognitive processes to be rational \rightarrow



Recall that the main idea behind RR is that it arises as the brain adapts to its environment. It is because things in the world have a particular 'logical' way of happening / existing (ontology) that the primal function of the brain with respect to ~~spanning~~ inducing the mind has become (by adaptation, darwinian nat. selec.) the dynamic process of RR. It's initial function/structure is hence an adaptation of the way life-evol. adapts characteristic of life
 [define: (evolutionarily adapts things behave.]

Why RR cannot be theorized:

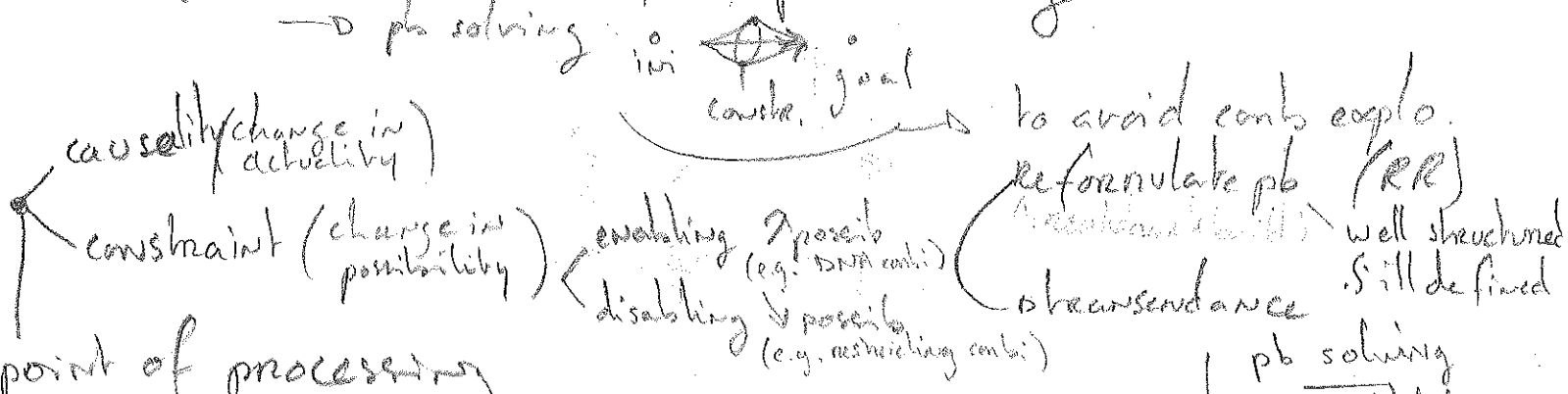
- ~~impose~~ it is a fundamental phenomenon on which everything else is realized -
- scientific statement depends on its understanding that cannot be explained by a scientific statement
- best statement implies finding relevance of ~~st~~ which is 'what we try to explain' \downarrow

We want a mechanism for RR \rightarrow realization in a contextually related name

→ Synoptic integra^o: Naturalistic imperative
together view

- 3 rev^o
 - analyse Thales: ontological analysis → naturalistic understanding
 - formalise Descartes: abstractness to circumvent
 - recombine Turing: horroncular fallacy computational cognition

• intelligence: versatility of pb solving



↳ self-regulation ⇒ evolution

↳ too limited ~~(Expect^o = Maximize^o stop)~~

↳ versatility / mastery

NEURO
 async. firing { integration / differentiation } properly
 sync. firing { assimila^o / accommodation } equivalent

↳ divide and conquer strategy on parts
 to complexified

↳ efficiency / resiliency -



RR = FP (insights / learning) for ego, rationality, ... small-world winning
 → general intelligence

- phenomenology: consciousness as refl. obs. of exp., mind touching itself
- autopoietic organisms -> take care of themselves (=> care world)