

mind-attitude(s)

... an evolutionary understanding changes **attitude(s)** – therefore may affect almost anything we do, but sometimes quite indirectly and only after considerable delay ...

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mind-brain(s)

... the **learning brain**, by contrast, very slowly constructs a representation or *takes a picture* of the landscape or configuration of the **abstract universals**, the **temporal invariants**, and the **enduring symmetries** that structure the objective universe of its experience ...

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mind-center(s)

... a living language constitutes a sort of **center of cognitive gravity** ... – **meaning(s)** – ... framework of broadly accepted or culturally entrenched sentences in which the figure, and by the **patterns of inferential behavior** made **normative** thereby ...

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mind-cognition(s)

... language-like structures do not embody the basic machinery of cognition ...

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mind-connection(s)

... the modification, extinction and growth of new **synaptic connections** is the single most dramatic dimension of structural change within the brain from birth onward ... – ... that collective configuration of synaptic connections is what shapes the web of **similarity** and **difference** relations that unite and divide the categories within the **activation space** ...

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mind-creative(s)

... the **logical/lingua-formal framework** (positivism) had no visible resource(s) for even addressing the matter of **cognitive creativity** ...

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mind-distance(s)

... **distance** ... – ... large family of high-dimensional prototype points and prototype trajectories united and mutually configured by an intricate family of similarity (i.e. proximity) and difference (i.e. distality) relations ...

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mind-dynamic(s)

... **brain's dynamical activity** ... – ... a single moving point in the brain's all-up activation space ... – ... a **point** in **ceaseless motion** ...

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mind-expectation(s)

... **anticipation(s)** ... – ... are produced by a process of **prototype activation** that yields dramatically *graded* field of more-or-less typical expectations ...

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mind-experience(s)

... what the brain picks up first and best, are the typical **four dimensional sequences** that it encounters in **raw experience** ...

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mind-eye(s)

... the **eye** constructs a representation or *takes a picture* of the landscape or configuration of the objective **spatiotemporal particulars** currently displayed before its lense ...

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mind-format(s)

... **abstract map** ... – ... finding a successful format for the compression of information about some frequently encountered domain is equivalent to, it is the same thing as, finding the enduring themes, structures, or regularities characteristic of that domain ...

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mind-framework(s)

... **maps** ... – ... that consititute the **conceptual frameworks** so familiar to us from philosophical tradition(s) ...

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mind-freedom(s)

... **freedom** ... – ... is jointly measured on how far and how accurately one can see into one's **potential futures**, and by how skilled one is at acting so as favor (*causally favor*) some of those possibilities over others ... – ... **freedom** ... on this view, is ultimately a matter of **knowledge** ... knowledge sufficient to see at least some distance into one **possible future(s)** ... at any given time ...

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mind-imagination(s)

[Kant] ... embraced a third great canvas of cognitive activity distinct from *intuition* and *judgement* ... – ... the **faculty of imagination** ...

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mind-index(s)

... **index** ... – ... with a reaching fingertip, as the map-indexer's **current location**, within the larger range of locational possibilities for the map as a whole ...

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mind-knowledge(s)

... **human knowledge** ... – ... include motor cognition and practical skills, ... along with perceptual apprehension and theoretical judgement ...

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mind-learning(s)

... **learning** ... – ... the creation and fine-tuning of useful **trajectories in activation space** may be the primary obligation of our most basic **mechanisms of learning** ...

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mind-level(s)

- **structural learning – formation of networks**
- **dynamical learning – recurrent connection(s)**
- **normative exchange – language & culture**

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mind-library(s)

... acquire a structured library of prototypical trajectories in activation space ... – ... trajectories that represent prototypical causal processes in the world ...

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mind-map(s)

... think **maps** ... – **high-dimensional maps** – ... maps with three, or a hunderd, or even a million distinct dimensions, maps with extra-ordinary resolution and detail ...

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mind-math(s)

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mind-mechanism(s)

supra-individual mechanisms of learning ... – ... regulation, amplification, and transmission of human cognitive activities at the neurostructural and neurodynamical levels ...

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mind-medium(s)

... the medium of continuous-valued interacting neuronal maps of arbitrary high dimensionality os arguably a richer medium of potential representation and computation than is the discontinuous, concatenative medium of human language ...

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mind-metaphor(s)

... **metaphor** ... – ... ongoing ... **cognitive metabolism** ...

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mind-mirror(s)

...the inner conceptual map mirrors the outer-feature domain ...

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mind-organ(s)

... **biological brain** ... – ... this marvelous organ has the power to gain a lasting grip on those much more fundamental **dimensions of reality**, those dimensions that are **timeless**, **changeless**, and **still** ...

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mind-path(s)

... **dynamic learning** ... – ... not activate point ... but rather to activate **prototypical trajectories** or **paths** through those **activation spaces** ...

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mind-pattern(s)

representational spaces & activation pattern ... – ... unfolding activations are projected onto the body's muscle systems, thereby to generate cognitively informed behaviors ...

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mind-process(s)

... from the point of view of the brain, then, it appears to be processes that are primary, and not things and their properties ...

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mind-puzzle(s)

... **cognitive activities** ... – ... humans are all too ready to interpret puzzling aspects of the world in various fabulous or irrelevant terms, and then rationalize away their subsequent predictive/manipulative failure(s) ...

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mind-rationale(s)

... this vector-coding, matrix-processing, synapse-modifying, map-constructing, prototype-redeploying alternative picture has nothing to do with lingua-formal structures and their rule-governed manipulations ...

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mind-system(s)

... **cultural change** ... – ... the third level process opens the door to systematic reconstructions of our practical undertakings, and to systematic reconceptions of even the most mundane aspects of our practical and perceptual worlds ...

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mind-unit(s)

... basic **units of representation** are the **activation vector(s)** (for fleeing representation of the here-and-now), the **sculpted activation space** (for enduring representations of the world's timeless structure), and the tuned **matrix of synaptic connections** (for shaping those spaces in the first place, and for transforming one high-dimensional representation vector into another) ...

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mind-universe(s)

... it is the timeless landscape of abstract universals that collectively structure the universe ... – ... but the brain is more ambitious than the camera ...

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mind-world(s)

... thoughtful people seem increasingly to agree that our society – indeed, world society as a whole – has entered into a crisis of unprecedented magnitude, and with potential consequence too horrible and irreversible to contemplate – (1) accelerating technological alteration of environment, (2) depletion of world's resources, (3) proliferation of weapons, (4) and effective shrinking of the social brain that controls it ...

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