

Self Meta-Programming Systems

- David Dodds <http://www.open-meta.com>
- What is Meta-Programming?
- What is Self Meta-Programming?
- Self awareness but not consciousness
- Stimulus-response = sensors or triggers + fixed programs
- Learning can change everything

- Fixed programs with parameters (FPP)-> variation of action (quantitatively) [but “true” to a central core” (action)]
- Aggregation of FPP -> contextual chaining and activation (qualitative) variation of action
- Deciding HOW and WHAT to aggregate (making an FPP collection)
- Simultaneous and Competing Goals and Plans
- Physical Scale of hardware is irrelevant except for travel time of signal
- Deliberation = detection of goals develop plans to achieve. [“aware”]

- Curiosity The Want to Know. Survival Continuity
- Why bother to figure out plans, and execute them?
- Does anybody need to “be at home”? Sure?
- RoboGolem
- Simplistic meta-programming already happening with “templates”, & Operating Sys
- Some people wont get it
- Do dogs have thoughts, cats? Vancouver drivers?

- Consciousness is not necessary,
Self-awareness without it
- Is Self Meta-Programming do-able on
VonNeuman architectures?
- Marshalling of Mixed Basis actions via
programs (symbolic processing), art. Neural
nets, simulated evolution and genetic
algorithms, Lava lamps.
- You laugh at using Cobol, do you see Java
(C++, Python, Tcl, Fortran 2003) as “being”
the solution?

- A major key to doing SMP even on VonNeuman computers is the ability to generate and perceive metaphor!
- Metaphor-> “black hole”, “event horizon”, “dark matter”, “a day's ride”, “big idea”, “beautiful mind”, “before long”, etc.
- Is Thinking and the (notion of) Mind Anthropocentric?
- Heavier than air device can not fly yet bumblebees and 747s do
- Does (can) self meta-programming mean (lead to) thinking?

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- Is Continuity a necessary and sufficient Goal nucleus?
- Can sophisticated simultaneous and context sensitive planning (systems) implement (a kind of) thinking?
- Where do eyes come from? SMP same source
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