Animal Consciousness (and its Evolution); Robot Consciousness
(Blackmore ch.8, Baars p.31-33)


- **Animal C**: from plants to apes to humans
  - What’s behaviorally/anatomically relevant?
  - Marian Stamp Dawkins’ chickens
  - Mirror test: “Theory of Mind” (ToM); ToM ↔ self-modelling (a departure from Blackmore)
  - apes, magpies, etc.; devious monkeys; ([VIDEO](https://www.youtube.com/watch?v=cKs_iW0QVNY))
  - Language (Koko, etc.)

- **Evolution of C [self-awareness, and phenomenal C – qualia]**
  - Selective advantages & evolution of self-awareness? (planning, social “reasoning”?)
  - Selective advantages & evolution of phenomenal C?? (perception–thought melding?)

- **Take-aways from Blackmore (+ parts of Baars)**
  - Easy Problem, Hard Problem, Explanatory Gap
  - Self-awareness (aspect of access C); phenomenal C (qualia)
  - Physical basis of C (fMRI, drugs, synesthesia, binocular rivalry, split brains,
    - blindsight, damaged minds, unusual states (REM sleep, OBE’s, NDE’s) &
    - their neural correlates
  - Conscious and unconscious neural activity
  - Illusion of “immediate” perception, conscious will (Libet)
  - Theories of C: dualism, materialism, identity theory, Dennett, Penrose, Chalmers, Zen,
    - Emergentism (Searle), mysteriansm, delusionism, self-modelling HOT’s (w. “signal sites” 😊)
Implications for Robots

Blackmore: they’ll probably share our delusions (if sufficiently intelligent)

Baars & Franklin: with the right architecture, they’ll be conscious

"Consciousness is computational: The LIDA model of global workspace theory"
(https://www.researchgate.net/publication/238423831_Consciousness_is_computational_The_LIDA_model_of_global_workspace_theory)

Self-models with signal sites:

We could create phenomenally conscious or unconscious (Zombie-like) robots, but the latter probably could not “thoughtfully” control their interactions

Version 1: rote sensorimotor routines (with affordances) plus separate talk/thought

Version 2: rote sensorimotor routines (with affordances) plus integrated talk/thought (via hyperpropositions in the self-model)

(See Nao28 (that (touching Nao28 (right-hand-of Sue))) )