



On a Definition of Sentience

A Communication of the Intractable Studies Institute

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Sentient - definition: a multi-variate running instance/model of a life form with both awareness of and having: spatial and temporal extents, species recognizer, survival, analogy identifier/creator, a mind cast (to have a “want”), language, sensory I/O, focus and Brain store. Sentience implies the right to have civil rights and legal protection.

The Android (artificial life form) is expected to achieve sentience soon. Rapid progress in robotics and AI in the 21st century makes this inevitable. But will the biological creators of robots have the intelligence to survive robots? Perhaps they will survive if they and their robots have L3 intelligence on the L3-IQ-Scale.

A. M1.1 Design of a Sentient Robot's Mind

1. Spatial-Extents – Aware of its spatial extents.
2. Species-Recognition – Aware of others like self.
3. Survival – Able to preserve self existence.
4. Temporal Extents – Aware of the time concept, can plan ahead.
5. Analogy Processor – Able to grasp and generate analogies.
6. Mind Casts – Commonly observed mind patterns.
 1. Scientific – Facts, proof, skepticism, hypothesis, objectivity.
 2. Religious – Belief, spiritual.
 3. Warrior – Battle, superiority, offense, defense.
 4. Political – Authority, control, top-dog.
 5. Business – Profit, build, sell, employ workers.
 6. Artistic – Perception, subjectivity.
 7. Bios – The body.
 8. Herd – The group, clan, herd.
 9. Self – I.
 10. Partner - Significant other.
7. Language – Ability to use labels for concepts and communicate.
8. Sensory I/O – Physical interface with the/a world.
9. Focus – Self-awareness of the self-awareness of what I'm doing.
10. Brain store – A place for cognition and where memories are stored.

B. Modular design allows each of 10 to be shut off/on dynamically.

Example 1: Shutdown #3 Survival, becomes docile.

Example 2: Shutdown #4, loses comprehension of Time and planning.

