

## **THE ROLE THAT THE CONSCIOUSNESS MECHANISM (CM) PLAYS IN HUMAN LIFE**

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The CM is the transformation, by the NCC/NCE-circuit, of neuronal bioelectric signals into conscious qualia-like subjective experiences

**Background:** (Note that the ECC-circuit in the RRC-robot consists of the trained self location and identification coordinate frames for the tactile and visual sensors)

In the previous section we claimed:

A: There exists a NCC-circuit in the brain that is functionally the same as the ECC-circuit designed into an android robot.

B: That the NCC/ECC-circuit transforms neuronal bio-electric signals into emotional subjective experiences (feel/touch, visual/see, auditory/hear etc).

C: The emotional experience, called the modality or qualia of the receptor is the experience of feel/pain, visual/ colorful image, or auditory/ verbal or musical sound.

The role that the consciousness or qualia phenomena play in the behavior patterns of intelligent humans or robotically conscious android robots (The technical design of the ECC-circuit gives us part of the answer.):

The answers are:

A: The ECC-circuit and the coordinate frames formed by the tactile and visual receptors act as an internal brain monitor that displays to the 'self,' the tactile and visual qualia phenomena. This consciousness-qualia display is the ONLY data we have of the external environment data as viewed by the tactile and visual receptors.

B: The feelings of 'touch-pleasure or pain, are the qualia-display of the tactile Nodal Map Module (NMM)-coordinate frame shown in the block diagram of the robotic RRC-circuit.

C: The feeling of seeing an illusion of a 3-dimensional image of the external environment is the qualia display of the retinal receptors that form a 3-dimensional photometric image calibrated with the same Nodal Map Module (NMM)-coordinate frame shown in the block diagram of the robotic RRC-circuit.

### **Conclusion:**

- In both cases the respective ECC-circuits serve as monitoring screens (of the tactile and visual data) and the consciousness qualia phenomena is the way that humans 'read' the display on the screens.

- Or to put it another way, if the RRC/brain serves as the 'computer' for the robot/human, the ECC/NCC-circuit is the 'monitor' that displays the data calculated by the RRC/brain.

- Or to put it another way, as Orenstein and other ‘consciousness’ philosophers have opined, ‘consciousness’ is a narrow sliver of a window through which we obtain data about the external environment in which we live.

**\*NOTE REGARDING DEFINITIONS OF THE SUBJECTIVE  
CONSCIOUSNES DOMAIN AND THE OBJECTIVE/SCIENTIFIC  
PHYSICAL REALITY DOMAIN:**

The consciousness-qualia display is the ONLY data that humans have of the external world in which we live. Therefore, we may define the “consciousness domain” as the domain that contains all the consciousness-qualia data gathered during a lifetime of an individual. Humans have defined a sub-domain of data, called the objective/scientific, physical reality domain. In the physical reality domain it is possible to prove the validity of a mental subjective experience by experimentation, subjective observation and theoretical generalization. The mental subjective experience and the theoretical generalization associated with it, is deemed to be objectively valid, if a statistically very large number of humans (90-100%) have subjective observation of experiments and test that agree with the theoretical generalization. For any individual human, the objective, physical reality sub-domain is a tiny fraction of the subjective consciousness domain.