**Living without pictorial geometry**

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**Abstract:**

Fixation and saccadic eye movements take place within a field structure generated and controlled by the biological system. Both ‘generation’ and ‘control’ would appear to be dependent upon self-organising criticality (SOC) articulating the interface between how the data presents and the path along which the biological system has evolved in order to exploit this and so establish its ecological niche. These factors build to facilitate core capabilities determining the human umwelt.

Our perceptual processing system doesn’t map the environment through a series of pictures to provision spatial awareness or orientation. The only factors providing a coherent thread to visual experience are the processes governing fixation and saccadic eye movement made within a perceptually generated field structure. We see the world in relation to ourselves. To my mind, these processes are ultimately expressions of the same system, products of SOC revealing that dynamical systems run both the universe and hence perceptual awareness. It is through these processes that we develop our ability to model the external world. This identifies that perceptual modelling is not commensurate with the type of modelling that drives our current virtual reality and image making technologies.

In Vision-Space, reality and with that location, becomes a matter of judgment for the sentient being to realise, not measure. Location is a subjective construct and it has to be. Our current instrumentation is not designed to make these judgments or even to perform one of the necessary data-realisation procedures.

Only by studying vision *as vision* will we understand or keep connected to what’s actually involved in an act of observation.