

Inspired by:

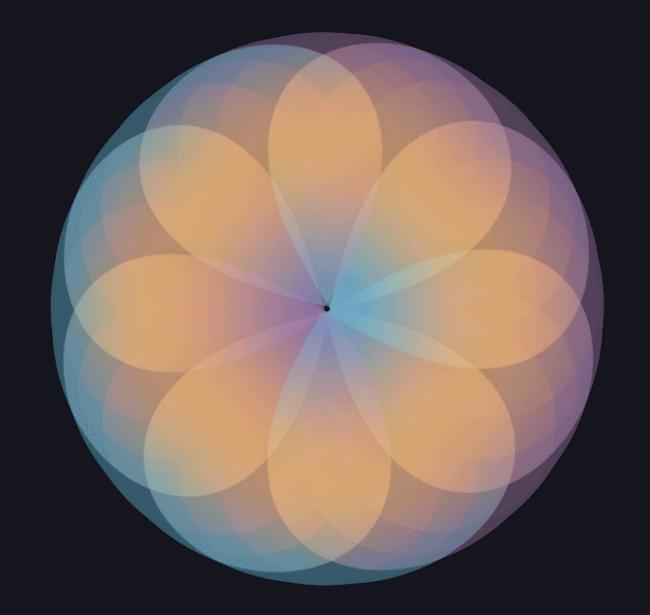
Michel Bitbol Is consciousness primary?

> Antoine Lutz and Evan Thompson Neurophenomenology

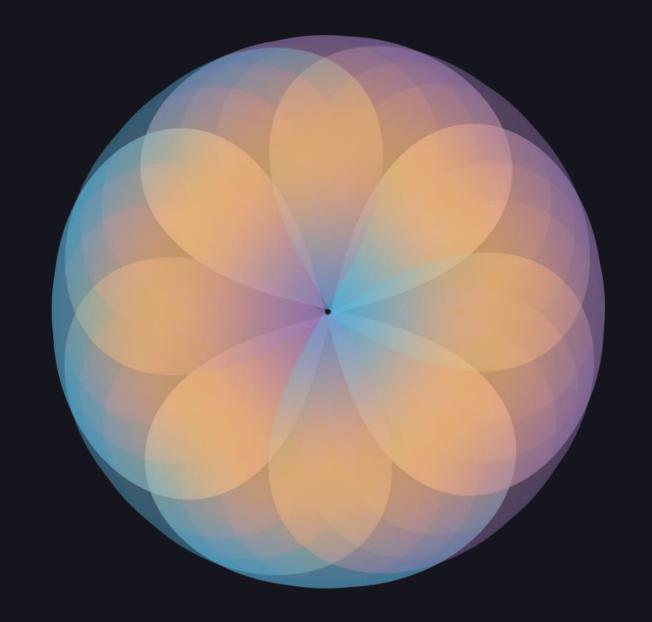
goes back to:

Edmund Husserl, Francisco Varela and many eastern traditions

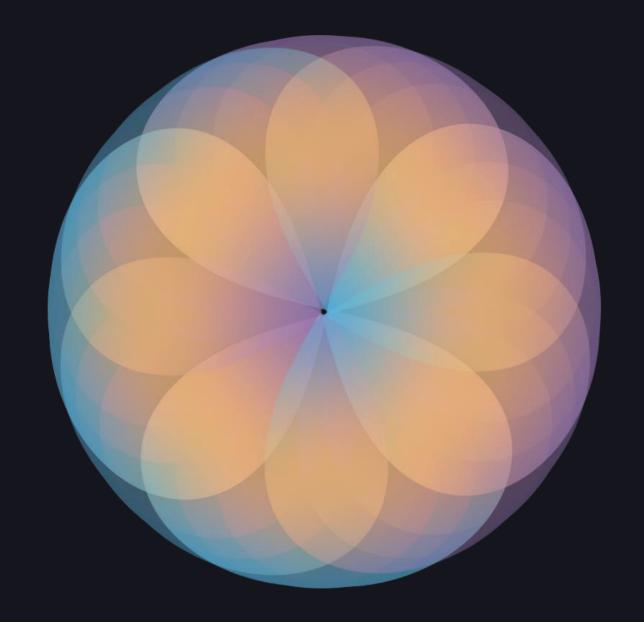
"[Consciousness] is not a something, but not nothing either!" Ludwig Wittgenstein



Something?
more the very act of percieving than the percieved



Nothing? it is here right now





"You are the changeless background, against which changes are perceived."
Nisargadatta Maharaj

Process of objectification

primacy: consciousness

intersubjectivity: extract structural content in consciousness

metaphsyical translation: objects outside consciousness

amnesia: huge success lets starting point be forgotten

inference: consciousness is reduced to abstractions

not a view against the scientific method more a remembrance of its origin

the method
does not give a
metaphysical idea of a world out there

Hard Problem

Why should the structural / relational derivations gained from the method be able to explain its starting point



"Cogito ergo sum" Réne Descartes

natural objects are science refines itself

incomplete subject to doubt

17th century physicalism is not the same as 21th century physicalism

and self-evident

experience is lived cannot be doubted later

category mystake Gilbert Ryle



"All division is in the mind (*chitta*); there is none in reality (*chit*)."

Nisargadatta Maharaj

"Consciousness cannot be accounted for in physical terms. For consciousness is absolutely fundamental. It cannot be accounted for in terms of anything else."

Erwin Schrödinger

Hard Problem

How to go from something doubtable to something that is self-evident



ad Infinitum

Belief: solving enough easy problems will solve hard problem of physical origin of consciousness

Problems:

- i. Open-ended progress towards closer correspondance
- ii. No conceptual passage between numerical value of wavelength and what it is like to experience redness

"describing is not living" Edelman and Tononi

Hard Problem

Where to close the gap from mathematical formulation to qualia



matter intervetions?

brain tissue excitation influences experience.

brain is only known in consciousness

imagining is phsyical

imagining a table influences the brain

mind interventions?

1 -500ms readiness potential RP in motor cortex

2 -200ms urge to act

3 0ms press button

Environmental Enrichment

environment modulates brain injury

Bondi C.A. et al. Environmental Enrichment as a Viable Neurorehabilitation Strategy for Experimental Traumatic Brain Injury

Colser to Truth: Stephen Chorover: https://www.youtube.com/watch?v=U-FGeSHBX8E

rat park: environment modulates cocaine addiction

Solinas M. et al. Reversal of cocaine addiction by environmental enrichment

Kurzgesagt: https://www.youtube.com/watch?v=ao8L-0nSYzg

Post hoc, ergo propter hoc David Hume

there is qualia 1 followed by another qualia 2

thought "this causes that" is qualia 3

causality relies on arbitrarily chosen agents

hidden variables

Causation on different levels

How can one establish a causal link from something measurable by instruments to something that is not?

Stevan Harnad

Hard Problem

In which direction goes the causal flow



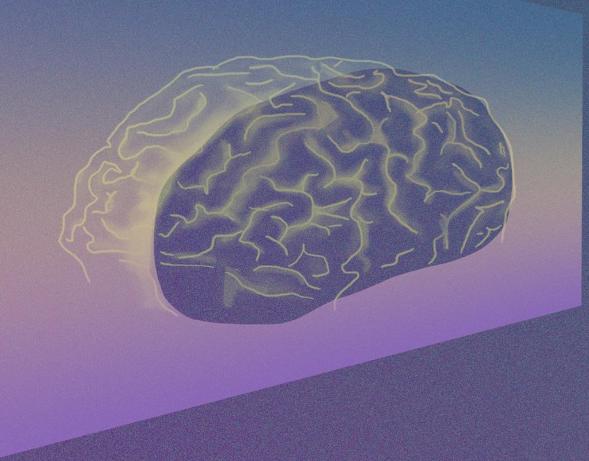
Neural Correlates of Consciousness rely on:

i. ability to discriminateii. high level of reflectivity (meta-consciousness)iii.memorizationiv.reportability

Neural Correlates of Meta-Consciousness
Bernardo Kastrup

Common theories of consciousness

- signal reentry (feedback loops) Gerald M. Edelman
 global workspace connected with many specialized
 - **Oreas** Stanislas Dehaene and Jean-Pierre Changeux, Bernard Baars
 - higher order thought David M. Rosenthal
 - connected to frontal executive cortex, binding by synchronized firing Francis Crick and Christoph Koch



Split brain patients
Roger Sperry

corpus callosum damaged image to left is not reportable by language but can be selected by left hand

What if very small areas are active, how to get a report from these then?

Semir Zeki: micro consciousness

amplified, stabilized and interconnected

reaching threshold of reportability

S NCCs

Hard Problem

Can NCCs illuminate the 1st person perspective



What is matter?

role of the observer and experimental apparatuses?

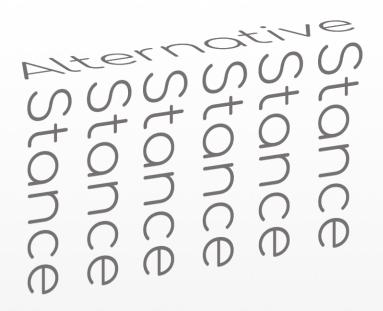


objects seem not independent of experimental and intellectual tools of investigation?

Hard Problem

Can physical processing be considered independent of an observer and what does that say for the hard problem





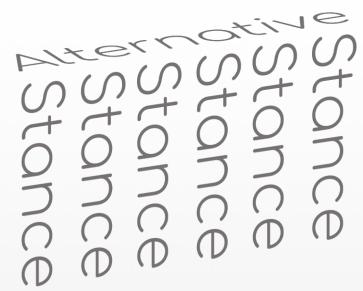
Neurophenomenology

- subjectivity not neglected or despised
- first person perspective reintegrated
- expand the scope of questions
- cultivate mapping the inner world
- mutually informing

Stance Stance Stance Stance Stance

Problems

- i. First person reports can be biased
- ii. very act of reporting can change experience
- iii. relate first person report to third person behavioural data



Applications to psychiatric disorders?

Neurofeedback / Braininterfaces / Apps / Pharmacotherapy combined with Psychotherapy / Meditation / Contemplative practices

Google Tech Talks: Richard Davidson: https://www.youtube.com/watch?v=7tRdDqXgsJ0

Science
And
Anilosophy

are not independent

Worldviews shape scientific questions -> ideological bias

"It is the theory which decides what can be observed" Albert Einstein