

EXPLORATIONS INTO THE NATURE OF CONSCIOUSNESS

A BRIEF OVERVIEW OF CONSCIOUSNESS

Bob Staretz

www.GrokingWholeness.info

2025 / 2026

A VISUALIZATION EXERCISE



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PURPOSE

TO FACILITATE DISCUSSION

- ▶ Establish a common vocabulary and baseline
- ▶ Hi-level review of state-of-the-art in the science of consciousness
- ▶ Raise awareness of issues, implications and coming paradigm shift

Warning: some of the contents contained within may challenge long held beliefs

WHY CONSCIOUSNESS?

“You cannot solve a problem with the same kind of thinking that got you into the problem in the first place”

Albert Einstein

“It all depends on how we look at things, not how they are in themselves”

Carl Jung

The only certainty there is in the world:
“I am conscious, therefore I am”

Rene Descartes

CHANGE OF PERSPECTIVE IS URGENTLY NEEDED

- ▶ Until the mid-19th century everything we needed to know to survive and thrive could be learned by the ripe old age of 6
- ▶ Our knowledge of the world, our instincts and our beliefs no longer serve us well; instead, they act to our detriment
- ▶ Our traditions and our institutions are based on knowledge and understanding that are woefully out of date
- ▶ Continuous growth in a finite (closed) system is unsustainable
- ▶ Today our understanding of the reality we are living in (e.g. our sciences and metaphysics) is incomplete and it has a long way to go
- ▶ The experiences we have within our reality are real but many of our interpretations of them are not
- ▶ The rate of change of human knowledge now has a half-life of 18-24 months.
- ▶ There is little time to adapt let alone plan to accommodate such rapid change



ITS ALL ABOUT UNDERSTANDING THE NATURE OF CONSCIOUSNESS



“To understand the human condition,
you must first understand the universe”

Buckminster Fuller

“If you want to understand the universe,
you must first understand the self”
Mystics and Sages of all cultures and eras

We define ourselves through our consciousness

It is the only way we know how we (and everything else) exists

SO, WHAT IS CONSCIOUSNESS?

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CONSCIOUS STUDIES – A DEFINITION

- ▶ An interdisciplinary field of study that explores the nature of consciousness, its experiences and its behaviors
- ▶ It combines insights from philosophy, neuroscience, psychology, spirituality and other related fields.
- ▶ It seeks to understand all aspects of consciousness, including
 - ▶ External (objective) experiences (perceptions) and
 - ▶ Internal (subjective) experiences (thinking, emotions, feelings, etc.,)
 - ▶ Interactions between subjective and objective experiences
 - ▶ Relationships (correlations) between brain activity within and between all experiences.

WITHOUT CONSCIOUSNESS

There would be no knowing and no existence

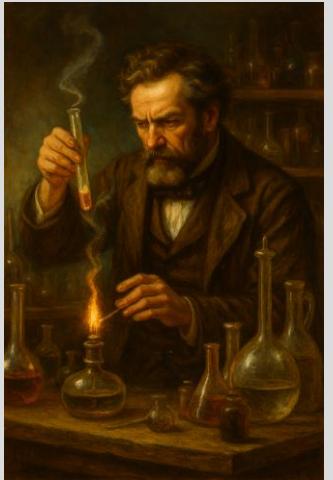
Consciousness is what goes away when we are under anesthetics or enter dreamless sleep

No me	No friends	No environment	No objects
No time	No space	No memories	No colors
No present	No future	No past	No emotions
No sights	No sounds	No thoughts	No sensations
		No dreams	No smells
		No tastes	

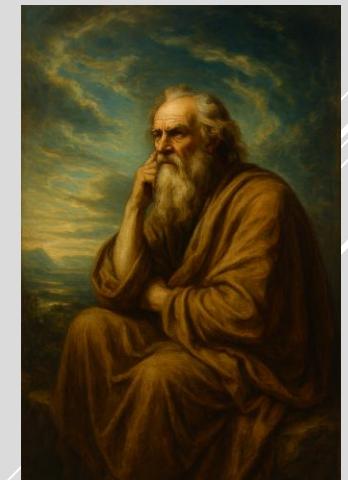
Consciousness is “what it is like to have experience (to be)”

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A COUPLE OF DEFINITIONS

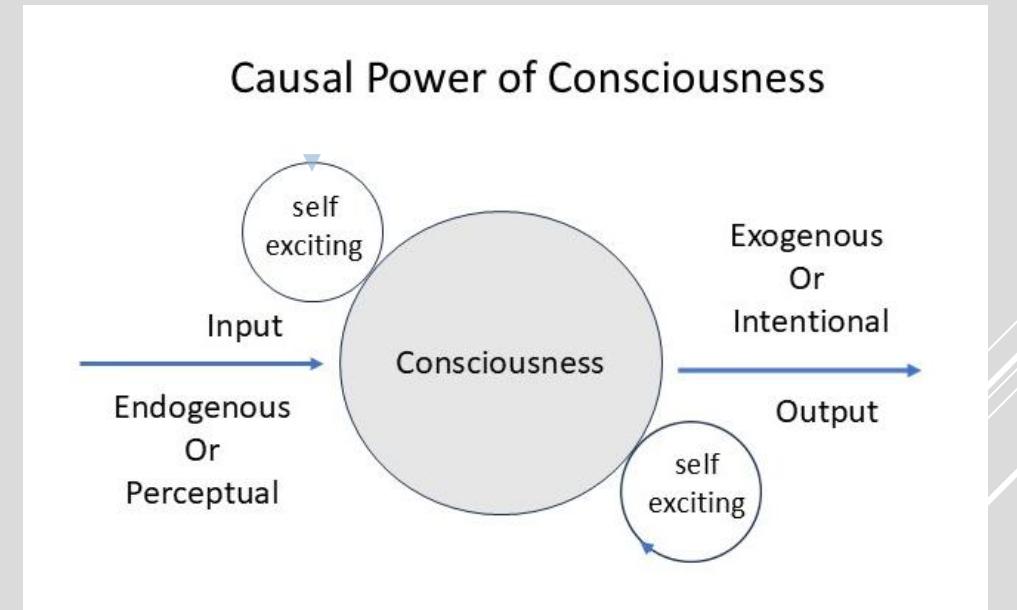


- ▶ Science – the study of how nature behaves
 - ▶ Based on experiments
 - ▶ Predictive models
- ▶ Metaphysics – the study of what something actually is
 - ▶ Based on philosophy
 - ▶ Logic and reasoning
- ▶ We will look at both to understand consciousness



SO, WHAT IS CONSCIOUSNESS?

- ▶ Two Aspects
 - ▶ A state of being = phenomenal consciousness
 - ▶ Self reflection = meta consciousness
- ▶ Consciousness = Experience (state of being)
- ▶ Intelligence ≠ Consciousness (state of doing)
- ▶ 2 Major Theories
 - ▶ Consciousness is an epiphenomenon
 - ▶ Consciousness is a fundamental aspect of reality



*I think,
therefore I am*

*I move (act),
therefore I am*

CONSCIOUSNESS & LIFE ARE INTRICATELY CONNECTED



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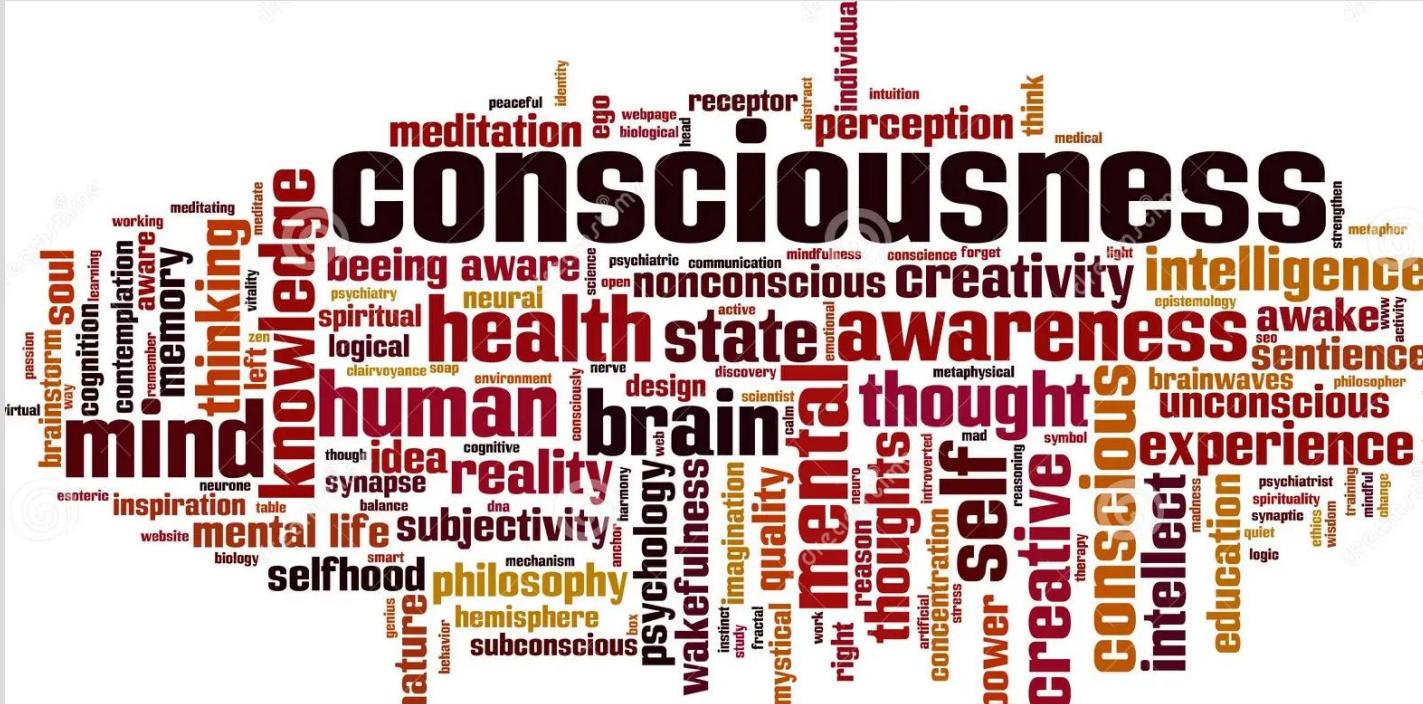
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CONSCIOUSNESS MEDITATION



HISTORIC MILESTONES IN CONSCIOUSNESS

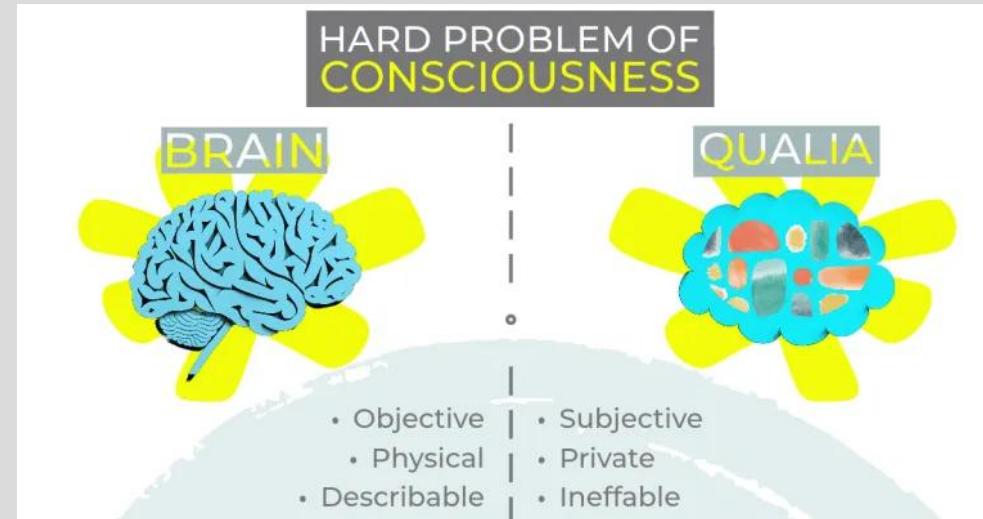
- ▶ Ancient eastern traditions (circa 1500 BC)
- ▶ Council of Constantinople (381 AD) – The Holy Spirit
- ▶ Circa 1640 Rene Descartes – Mind-Body Dualism
- ▶ Early 20th Century – Quantum physics conundrum – Sir James Jeans
- ▶ 1973 – IONS Founded (from epiphany in space)
- ▶ 1974 – Thomas Nagel “What is it Like to be a Bat”
- ▶ 1994 – Journal of Consciousness Studies
- ▶ 1995 – David Chalmers “The Hard Problem of Consciousness”
- ▶ Early 2000s – Active debates about the nature of reality & consciousness
- ▶ Present Day theories
 - ▶ Physicalism vs Consciousness
 - ▶ Overcoming inertia



The study of the nature of consciousness is at least 3500 years old

THE HARD PROBLEM OF CONSCIOUSNESS

- ▶ The Hard Problem (according to Physicalism)
 - ▶ How can physical processes in the brain give rise to subjective experience ("what something feels like")?
 - ▶ Why are we not "Zombies" (have no conscious experience)
- ▶ The Easy Problem
 - ▶ How the mind integrates information or produces reports about mental states



SPECTRUM OF CONSCIOUSNESS

1. Unconsciousness

- ▶ No existence
- ▶ No experience (deep sleep, anesthetics)*



2. Phenomenal Consciousness – all living organisms

- ▶ Existence; "to experience"
- ▶ Subjective (conscious) Experience
- ▶ Awareness / Intentionality (causal power)
- ▶ "What it is like to be/do"
- ▶ To know/to intend



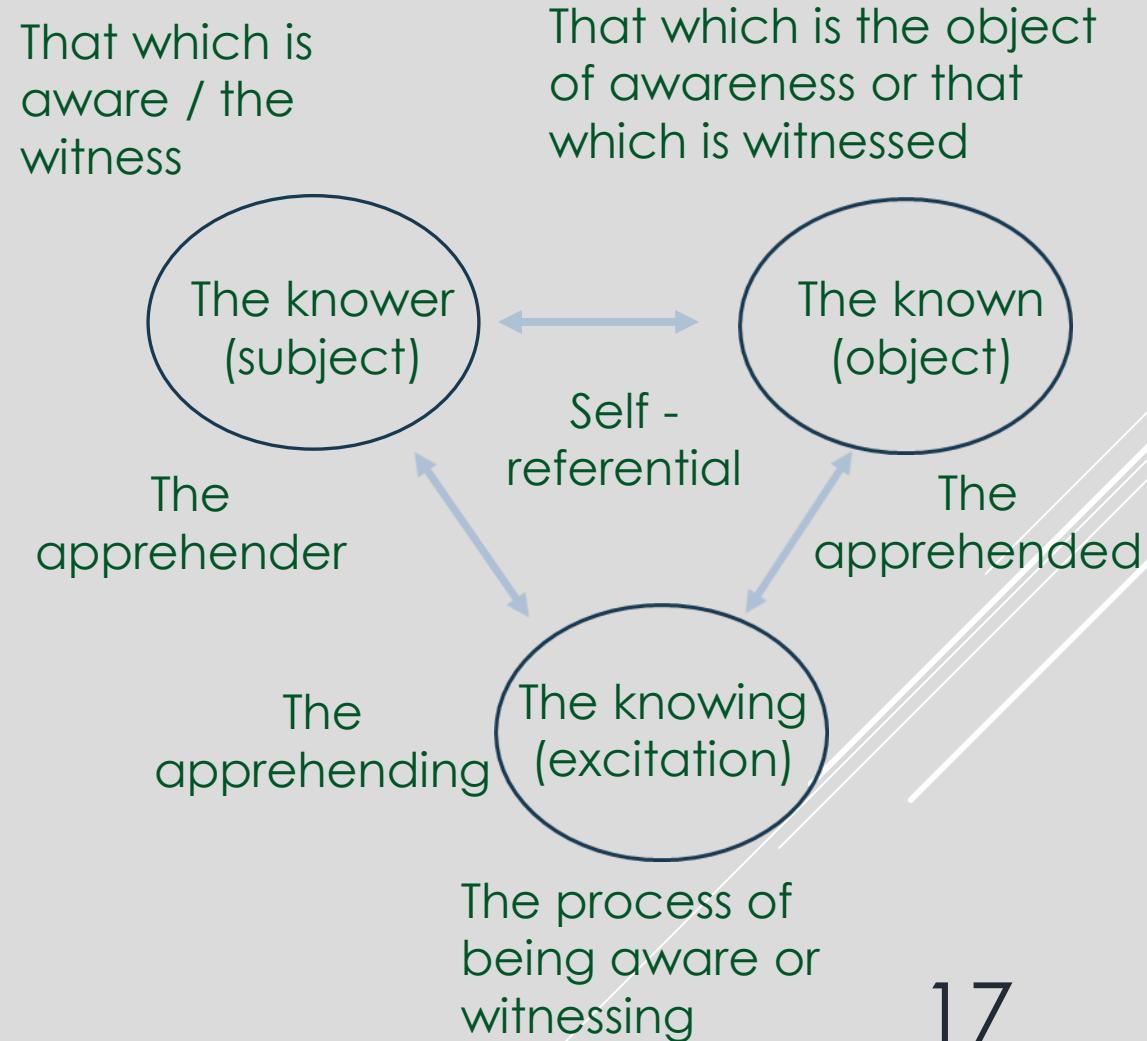
3. Meta Consciousness – living organisms with a brain

- ▶ Re-representation (self-reflection) of experience
- ▶ Ability to evaluate, analyze, plan
- ▶ To know that you know or intend
- ▶ Experience/intention are reportable

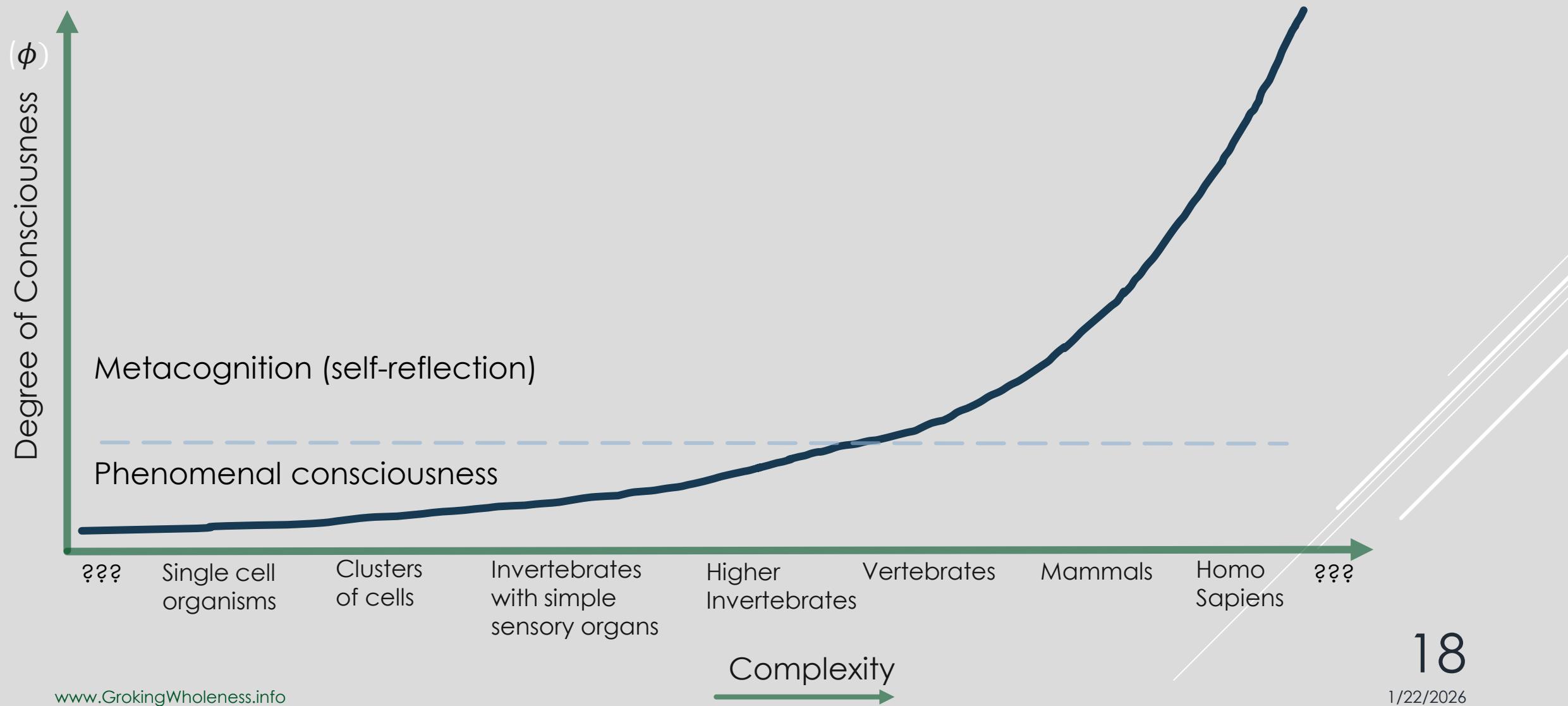


THE PERSPECTIVES OF CONSCIOUSNESS

- ▶ Consciousness vs content of consciousness
- ▶ It has three aspects
 - ▶ The Experience (knower/observer)
 - ▶ Subject - the doer;
 - ▶ The Experiencing (knowing/observing)
 - ▶ Process/Mechanics
 - ▶ The Experienced (known/observer)
 - ▶ Object (that which is being done to; can be self-referential)
- ▶ It has causal power
 - ▶ The ability to affect change for itself or for others
- ▶ It is non-computational
- ▶ It is a state of being



SPECTRUM OF CONSCIOUSNESS



CONSCIOUSNESS ≠ BEHAVIOR

- ▶ Behavior may imply consciousness
 - ▶ External stimuli
 - ▶ Looking for opportunities
 - ▶ Avoiding threats
 - ▶ Pursuing desires
 - ▶ Being alert
 - ▶ All voluntary acts
- ▶ Being conscious does not imply behavior
 - ▶ Internal focus
 - ▶ Visualizing /planning
 - ▶ Intending
 - ▶ Dreaming
 - ▶ Meditating
 - ▶ Mystical/transcendental experience
 - ▶ Behavioral unresponsive ("locked in")



ASPECTS OF MIND

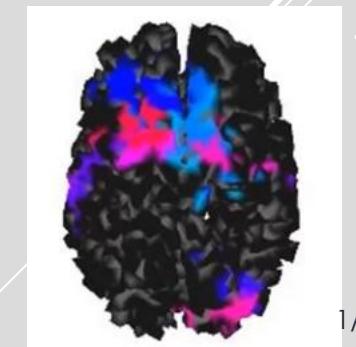
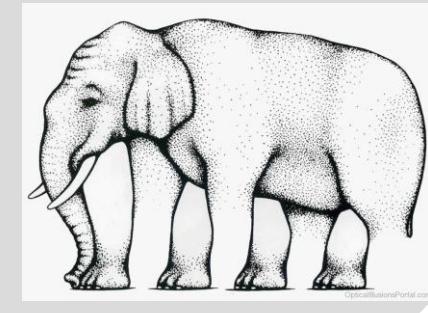
- ▶ Memory
 - ▶ Information store of experience
- ▶ Information
 - ▶ Patterns of matter or energy or
 - ▶ Symbolic representations
- ▶ Intelligence (doing)
 - ▶ Measurable (Objective)
 - ▶ Ability to set and reach goals
 - ▶ Pattern recognition, analysis & matching
 - ▶ Computational (problem solving)
- ▶ Consciousness (being)
 - ▶ Metaphysical
 - ▶ Phenomenal (Subjective)
 - ▶ Instinctive (archetypical)
 - ▶ Metacognitive & self-reflective
 - ▶ Assigns meaning to information (i.e. understanding)
 - ▶ Computationally irreducible

AI Life

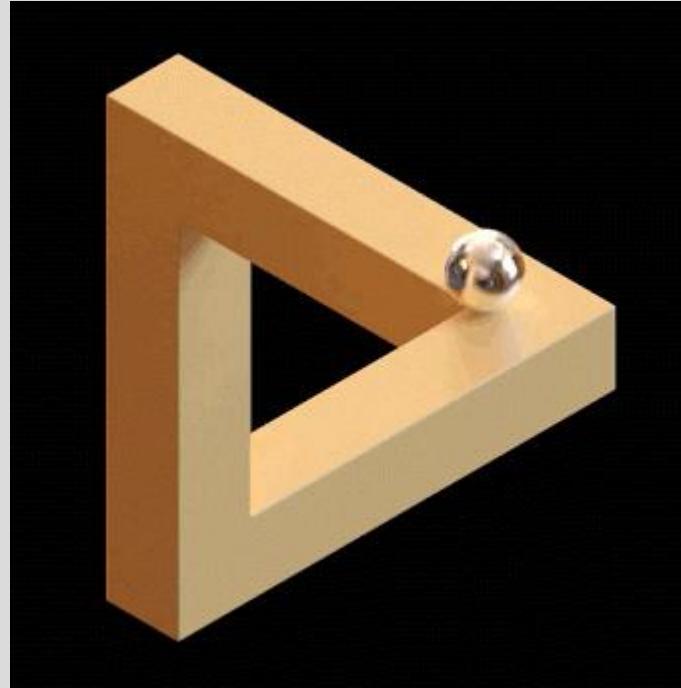
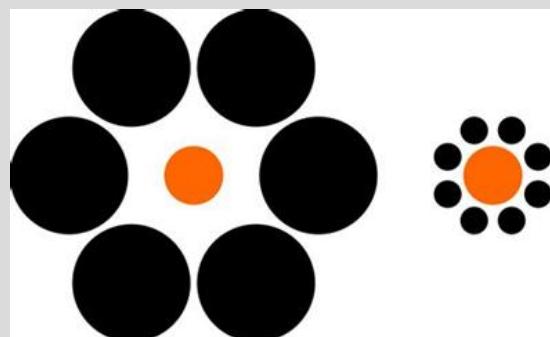
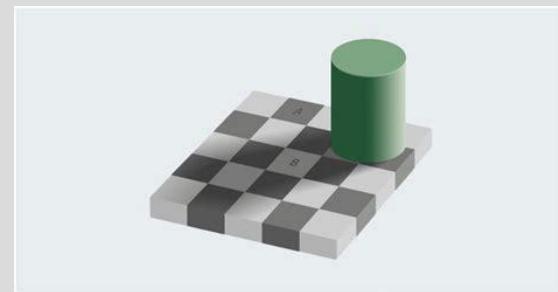
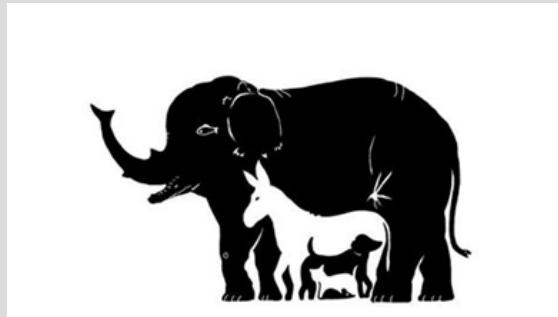


(EGO) MIND

- ▶ Experience as a unity of conscious experience
 - ▶ Computationally irreducible
- ▶ Does a great job at deceiving itself
 - ▶ Representations of external reality
- ▶ A collective of meta-conscious and phenomenal complexes
 - ▶ Most are not in meta-conscious awareness
 - ▶ Only one is in control at any given instant
- ▶ Physical correlates of subjective awareness
 - ▶ Correlates with centers of brain function & processes
 - ▶ Neural Correlates of Consciousness (NCCs)
 - ▶ Correlation does not imply causation
- ▶ Includes memories as well as conscious states



THE (EGO) MIND LOVES TO DECEIVE ITSELF



We all experience external reality differently

MEMORY – IT'S NOT WHAT YOU THINK

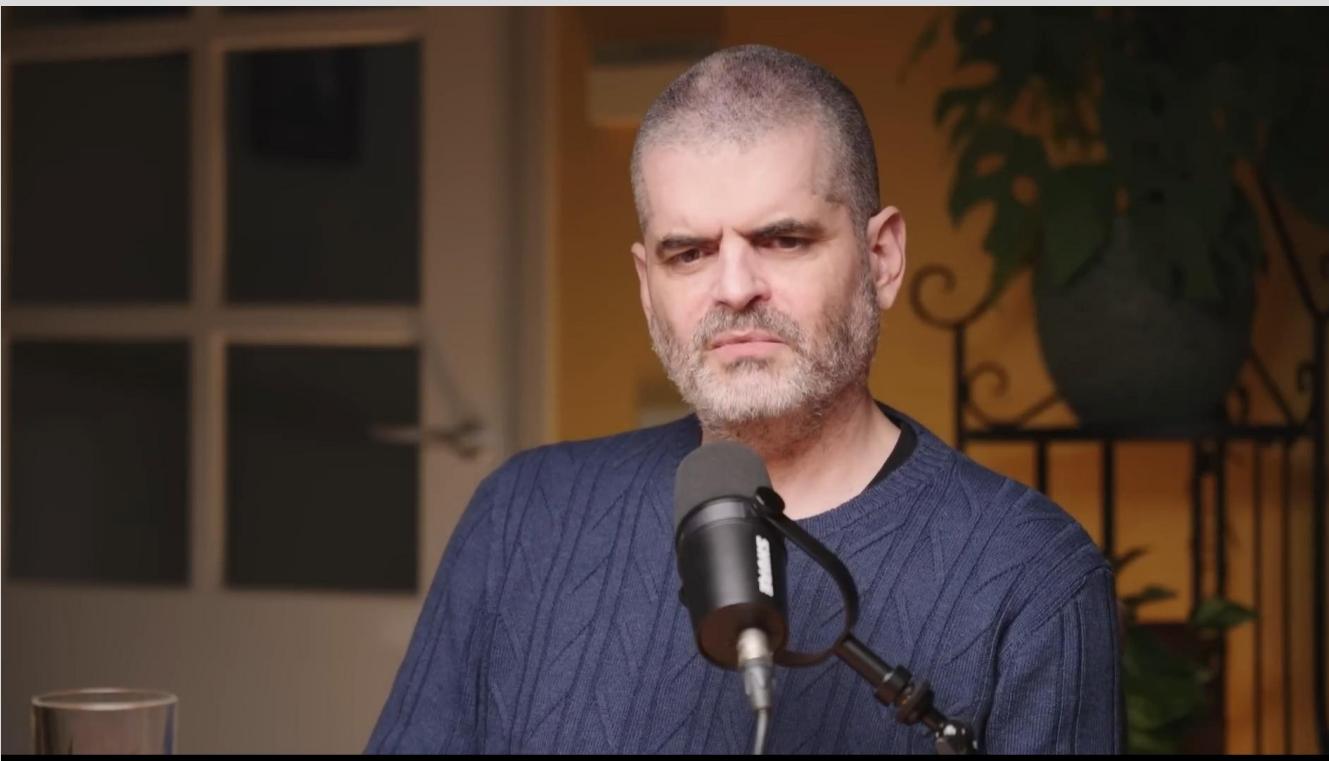


- ▶ Container of the entire event history of your life experience
- ▶ Retrieval takes place through the appropriate cognitive associations
- ▶ Content is about what was experienced; not what existed in reality
- ▶ Recent evidence suggests that it may not be stored within the brain

▶ New Developments

- ▶ Recent experiments in biology
- ▶ Organ transplant surgery
- ▶ Episodic memory in savants

WHERE IS MEMORY STORED?



Excerpted from YouTube Video “*The Research That Rethinks Neuroscience & Biology* | Dr. Bernardo Kastrup” – Essentia Foundation
Discussing Michael Levin’s work at the Allen Biology Research Lab at Tufts University

EXTRAORDINARY COGNITIVE ABILITIES

- ▶ Synesthesia
 - ▶ Sensory Crossover
- ▶ Savant Syndrome
 - ▶ Exceptional talents accompanied with profound mental impairments
- ▶ Hyperthymesia
 - ▶ Extensive autobiographical memory
- ▶ Photographic memory
 - ▶ Exceptional recall of pictures, words and events
- ▶ Intuition (6th sense)
 - ▶ The ability to instantly sense and/or understand something
- ▶ Terminal Lucidity
 - ▶ End-stage dementia experiences a sudden burst of energy and clarity
- ▶ Mystical Experiences
 - ▶ Expanded state of awareness and connectedness
- ▶ Psi Phenomenon
 - ▶ Abilities that transcend known laws of physics or are acquired through means other than normal perceptual mechanisms



Raven Paradox - “*all ravens are black*” - supports how empirical evidence can support universal generalizations

THE EXTRAORDINARY WORLD OF HYPERTHYMEIA

Neuroscience

<https://www.youtube.com/watch?v=A9vUBzlwWr0>

THE MAN WHO SUFFERED INJURY AND BECAME A “PIANO SAVANT”



<https://www.youtube.com/watch?v=r0h4cylQd2g>

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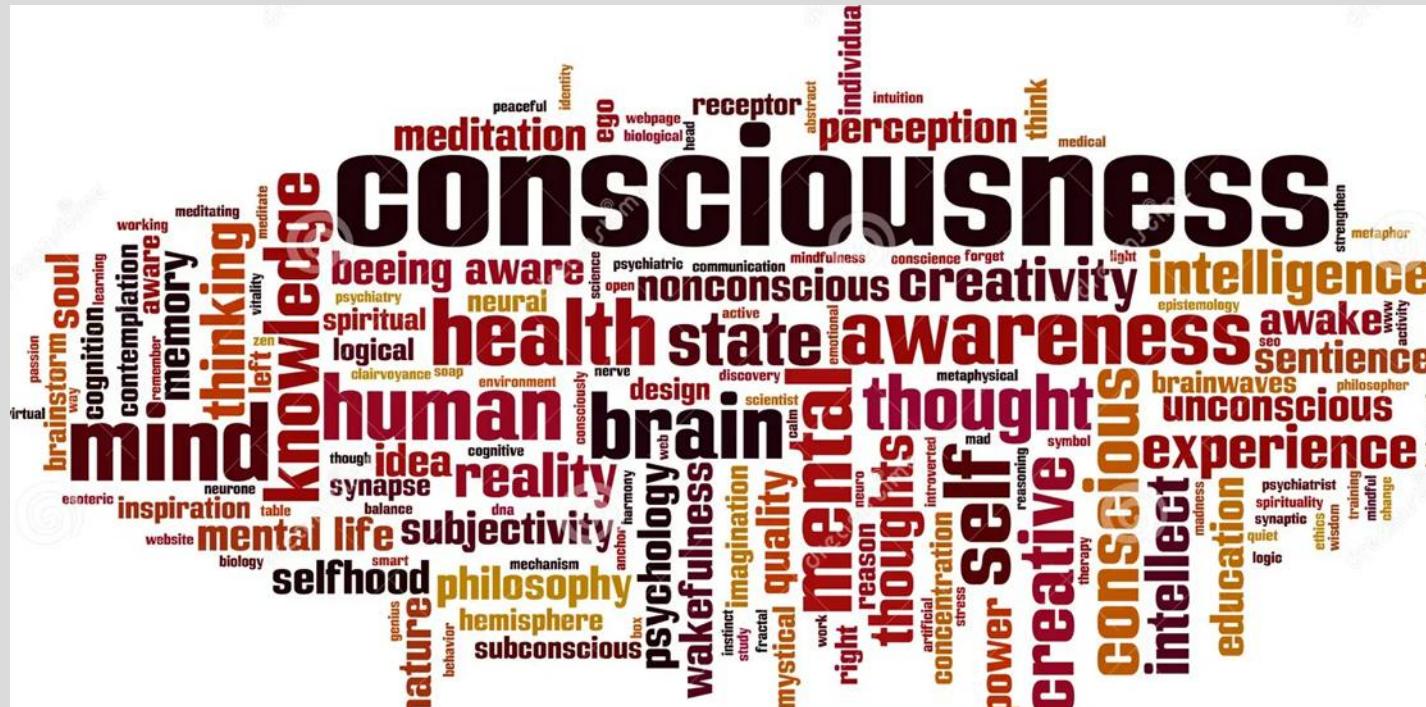
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INTROSPECTION MEDITATION



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INSTINCTS (ARCHETYPICAL BEHAVIORS) & BELIEFS

- ▶ Nature's motivators and survival mechanisms for a stable planetary ecosystem
 - ▶ Instincts are inherited behaviors (archetypical)
 - ▶ Beliefs are learned behaviors
- ▶ Beliefs are reenforced through repetition
 - ▶ Results from memories of prior experience
 - ▶ Often enculturated at an early age
 - ▶ Solidified over time w/o proper reflection
- ▶ Established beliefs are difficult to change
 - ▶ A person's identity is often tied up in their beliefs
- ▶ Operate at the level of phenomenal consciousness
 - ▶ Usually not self-reflective
 - ▶ Very quick reaction time
- ▶ Can be overcome but require considerable metacognitive effort and reconditioning
- ▶ Cultivators – events experienced with a strong emotional context and/or by reinforcement
 - ▶ Anger / Fear / Pain / etc.
 - ▶ Love / Joy / Pleasure / etc.



CATEGORIES OF EXPERIENCE

Experience → “What something feels like”

1. Perceptual (external – objective – 3rd person)
 - ▶ Sense organs involved
2. Endogenous (internal – subjective – 1st person)
 - ▶ Thinking, Emotions, Feelings, Intuitions, Imagination, Instincts, Memories



Experiences are self-exitations (e.g. the behavior) of consciousness

Experiences are qualitative not quantitative

All experiences exist for themselves and have causal power

All subjective experiences are personal to that which is having the experience

QUALITIES OF PERCEPTUAL OBJECTIVE (EXTERNAL – 3RD PERSON) EXPERIENCES

- ▶ Spatial extendedness
- ▶ Temporal flow
- ▶ Objective (3rd person viewpoint)
- ▶ Colors
- ▶ Sounds
- ▶ Smells
- ▶ Textures
- ▶ Tastes
- ▶ Etc.



The variations of these experiences probably number in the quintillions (10^{18}) or more

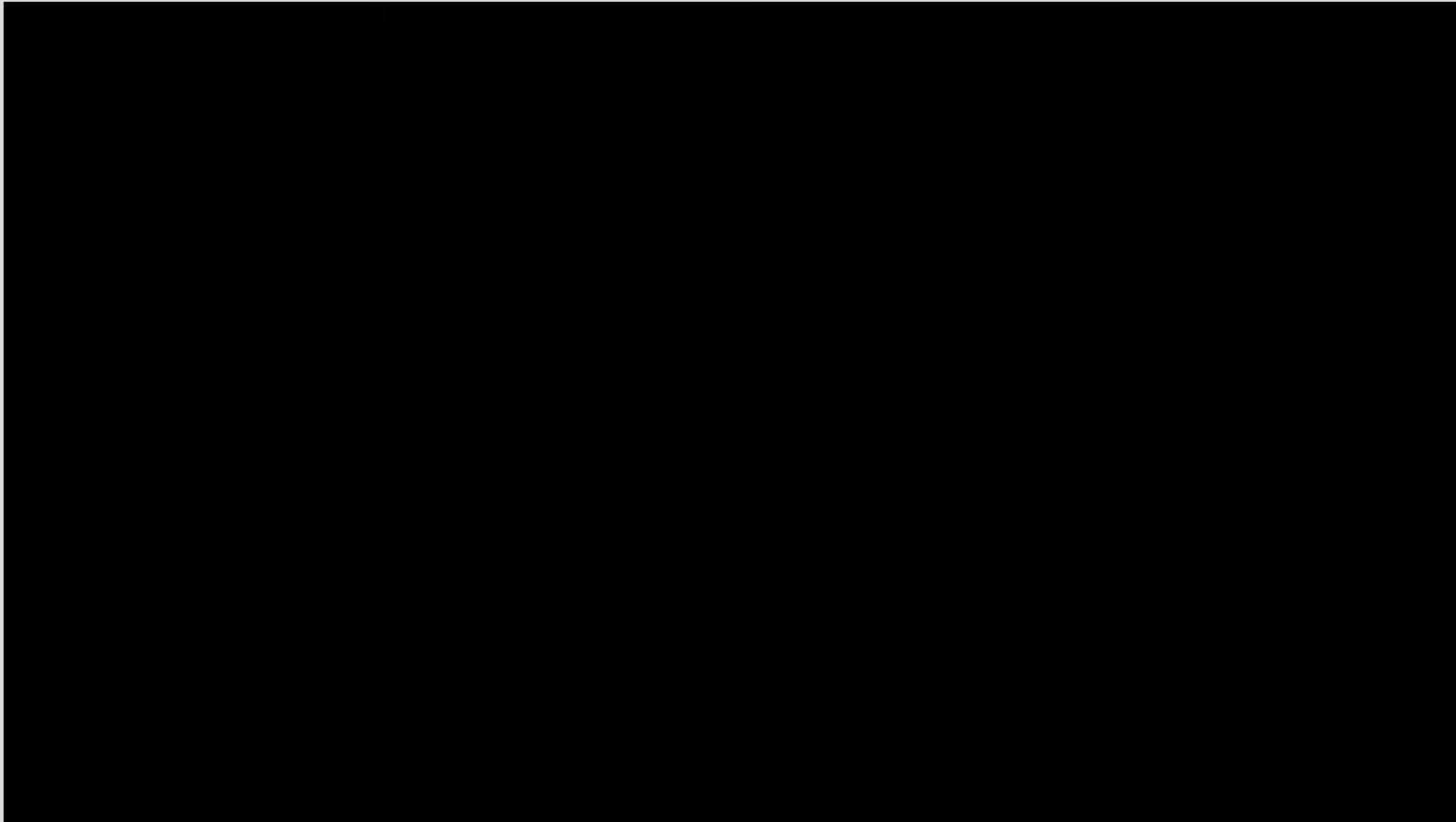
The mind filters and acts as a reducing valve to all external experiences

External experiences are shared experiences

Interpretations of experiences vary based on beliefs & prior experiences

They are usually described by quantities

PERCEPTION BOX



YouTube – What is Perception Box? – www.TinyBlueDotFoundation.org

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PERCEPTUAL REALITY IS AN INTERFACE



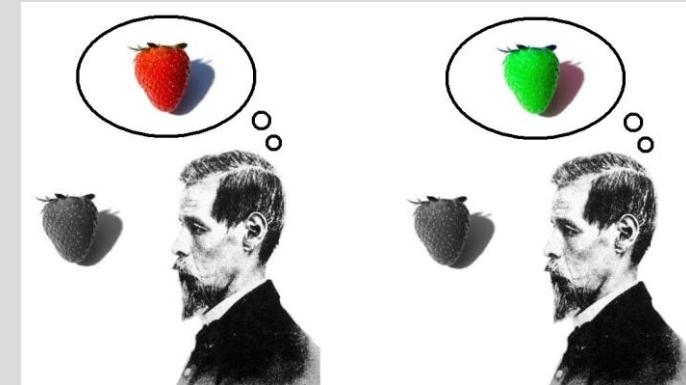
- ▶ Entropy overload
- ▶ Symbolic representations of what nature is
- ▶ A 3rd person view of external reality
- ▶ Reducing valve
- ▶ Focus on survival not max info
- ▶ It is impossible to separate perception and interpretation (max Φ)



“We don't experience Nature as it is
We experience Nature as we are”

QUALITIES OF ENDOGENOUS SUBJECTIVE (INTERNAL) EXPERIENCES

- ▶ Pure subjectivity (1st person viewpoint)
 - ▶ Experience is private
 - ▶ Conveys or provides meaning to experience
 - ▶ Shaped by archetypes (mental properties)
 - ▶ Cannot be described by quantities (or words)
 - ▶ Specious present (stream of consciousness)
- ▶ Pure Awareness / Intentionality
 - ▶ Exists for itself
 - ▶ Self exciting
 - ▶ Agency (has causal powers)



THE QUALITIES OF ENDOGENOUS (SUBJECTIVE – 1ST PERSON) EXPERIENCE

- ▶ The color green
- ▶ The smell of a rose
- ▶ The taste of chocolate
- ▶ The pain of a toothache
- ▶ The feeling of love
- ▶ The beauty of a sunset
- ▶ The feeling of fear
- ▶ The feeling of boredom
- ▶ Bodily sensations
- ▶ Desiring
- ▶ Dreading
- ▶ Imagining
- ▶ Etc.



Physicalist science has no good explanations as to how felt experiences (i.e. qualities) are generated by the brain (e.g. the “hard problem” of consciousness)

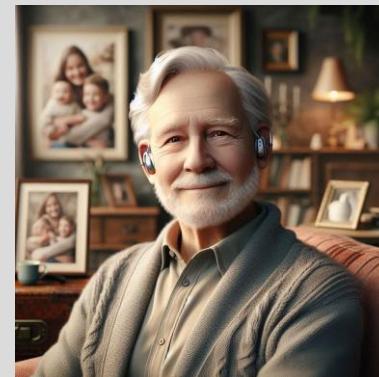
SUBJECTIVE EXPERIENCES & INTERPRETATIONS



The actual event
- Fire engine siren



Thinks of a
police car



Hard of hearing -
Thinks of nothing



Frightened by a
loud unfamiliar noise



Thinks of the hook
& ladder from
firehouse #3

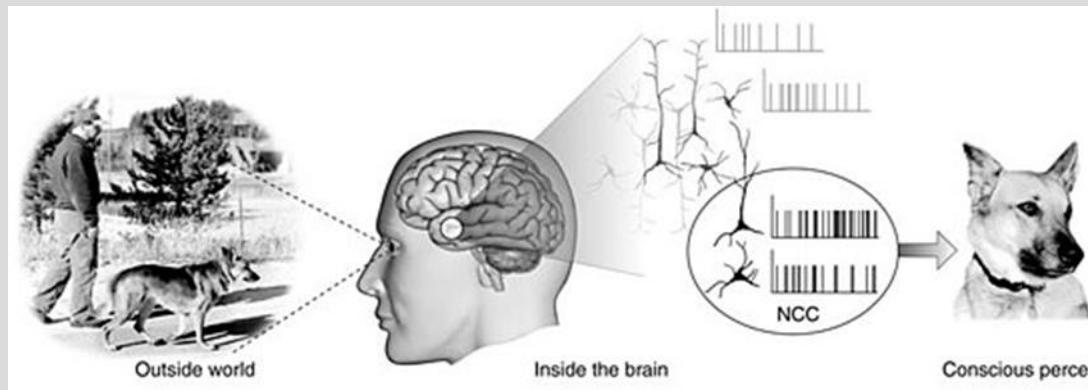
Perceptions are interpreted and based upon instinct, beliefs and prior experiences

Perceptions cannot be separated from interpretation and vice versa (Maximum Φ)

NEURAL CORRELATES & COMPLEXES OF CONSCIOUSNESS

Every specific conscious experience is associated with an NCC

Collections of NCCs make up a conscious complex



Qualia \equiv instances of specific subjective experiences

THE NEURAL CORRELATES OF CONSCIOUSNESS



What Are Neural Correlates Of Consciousness? - Neurotech Insight Pro:
<https://www.youtube.com/watch?v=w78pzEc-IBQ>

Correlation does not imply causation

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DO WE SEE REALITY AS IT IS? | DONALD HOFFMAN



TED Talk: <https://www.youtube.com/watch?v=oYp5XuGYqqY>

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A BRIEF OVERVIEW OF CONSCIOUSNESS

PART 4

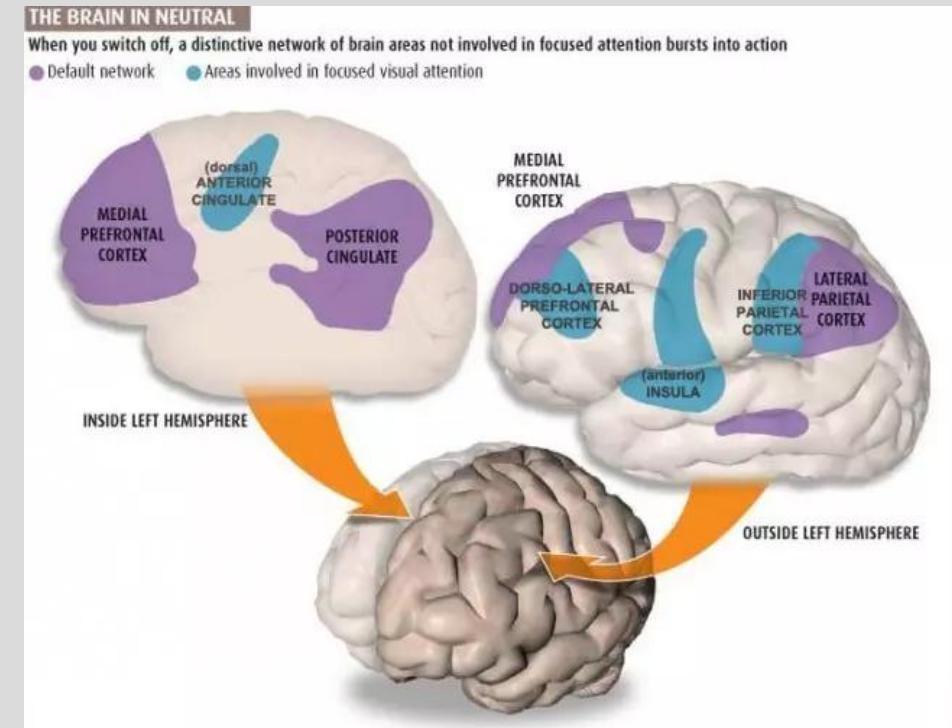
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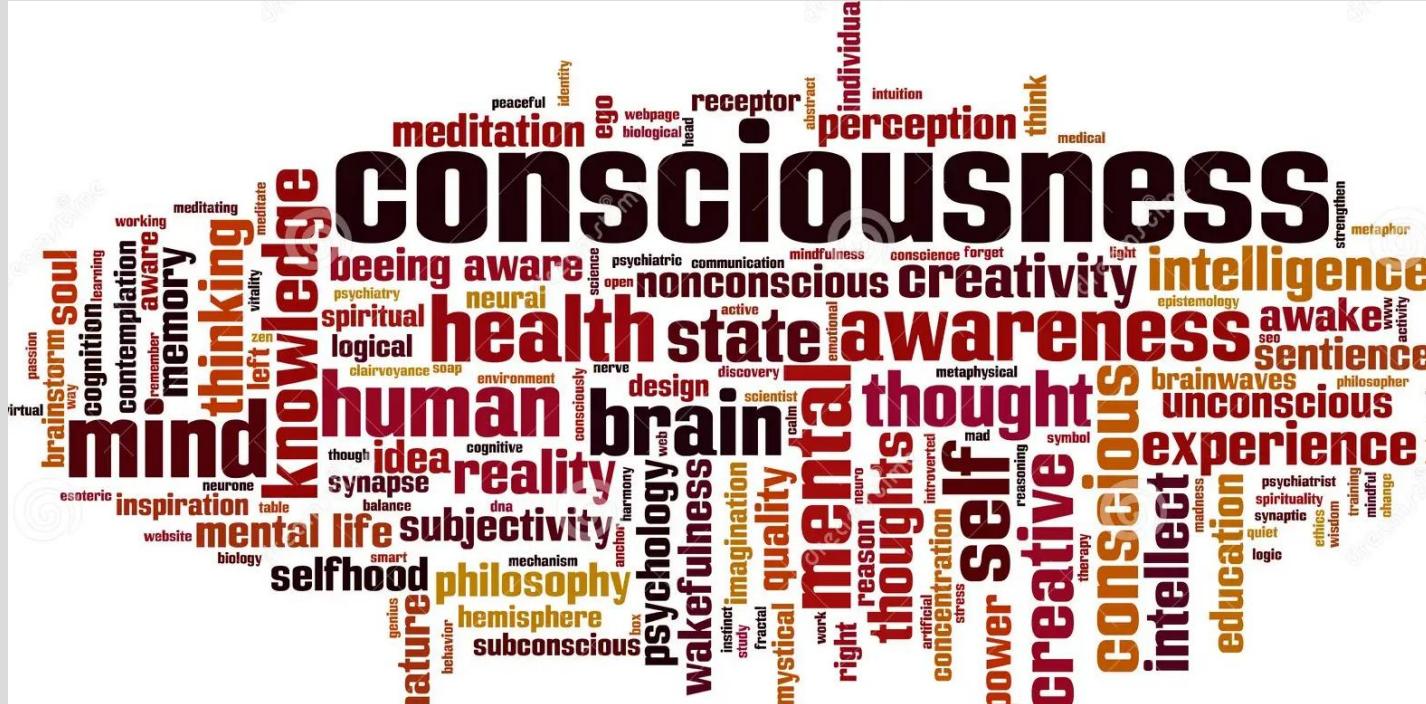
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THE DEFAULT MODE NETWORK (DMN)

- ▶ A large-scale network of the brain that become active when you are awake but not focused on the outside world
 - ▶ No perceptual mechanisms active
 - ▶ Mind wandering
 - ▶ Day dreaming
 - ▶ Self-referential thought
 - ▶ Autobiographical memory
 - ▶ Thinking of the past or the future
- ▶ Activity of DMN reduces during altered states
 - ▶ Deep meditation
 - ▶ Psychedelics
 - ▶ Transpersonal
 - ▶ Demanding externally focused tasks that require sustained attention



CONSCIOUSNESS MEDITATION



CHARACTERISTICS OF EXPERIENCE

- ▶ Unitary and holistic
- ▶ Exists for itself
- ▶ Excitations are self-activating
- ▶ Has agency (causal power) to influence its own and other states
- ▶ Influenced by other states

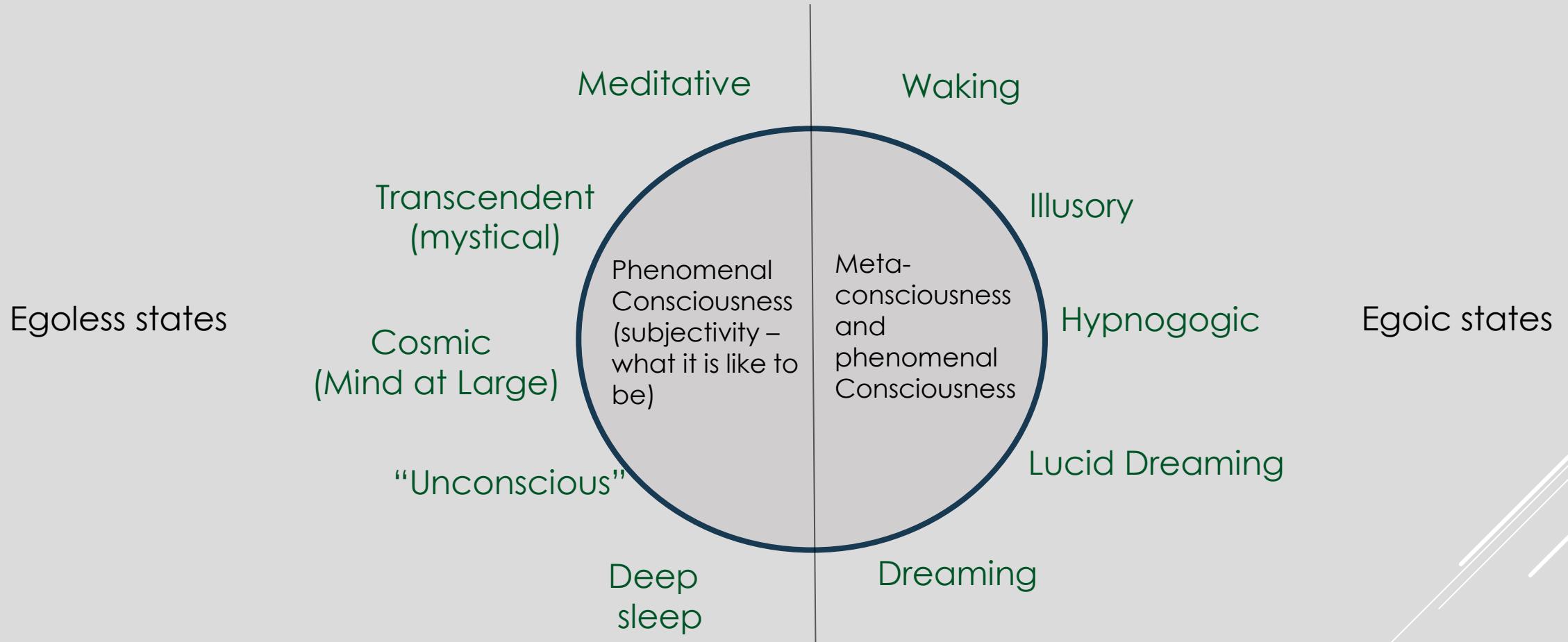
Experience is the behavior of the thing that is experiencing (e.g. consciousness)



Consciousness is a state of being – it is not a computation

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STATES OF EXPERIENCE



Depth and richness of experience varies by state

TRANSCENDENT/MYSTICAL CONSCIOUSNESS

- ▶ Ground state of Being
 - ▶ Egoless and formless
 - ▶ Boundless in space and time
 - ▶ Infinite in awareness and knowing
 - ▶ Feelings of Oneness, knowingness & Interconnectedness
 - ▶ Feelings of profound peace, bliss and joy
- ▶ Induced by
 - ▶ Deep meditation
 - ▶ Vastly altered perspectives from ordinary
 - ▶ Altered states (NDEs, OBEs, etc.)
 - ▶ Psychedelics
- ▶ Brain activity is greatly reduced during the experience
 - ▶ Reduction in normal barriers to Universal Consciousness



THE EXPERIENCE OF TRANSCENDENCE

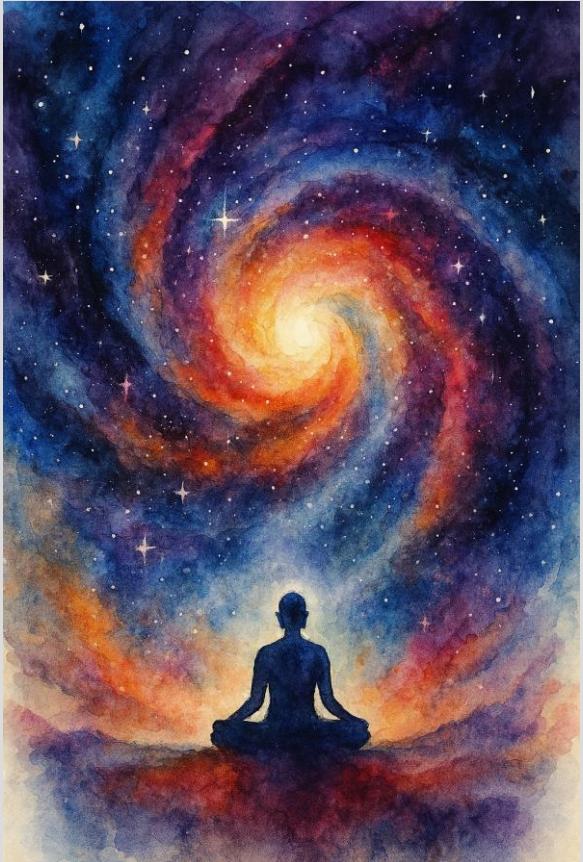
Excerpt from "then I am myself the world" – by Christof Koch

I ceased to exist in any recognizable way, shape or form. No more Christof, no more ego, no more self; no memories, dreams, desires, hopes, fears – everything personal was stripped away. Nothing was left but a non-self; this remaining essence wasn't a man, woman, child, animal, spirit or anything else; it didn't want anything, expect anything, think anything, remember anything, dread anything.

But it experienced. Did it ever.

It saw a point of cold white light of unbearable intensity, unable even to conceive of looking away, as there was no "away from." There was no left or right, up or down, front or back, far away or close by. There wasn't a black canvas upon which the light existed, as there was no space. There were no other attributes: no color, no motion, no texture, no sound or silence, no smell, no body, no pleasure, no pain. What there was, was a timeless universe convulsed to a blazing, icy light. That and a profound feeling of both terror and ecstasy, the awfulness of pure experience lasting indefinitely – for there was no perception of time. The experience wasn't brief or long. It simply was.

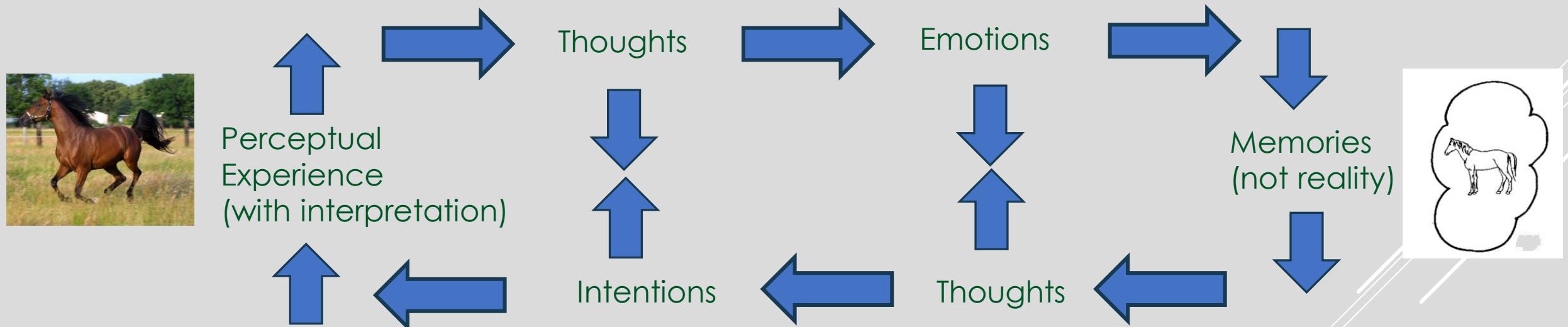
A PERSONAL EXPERIENCE



*"All perceptions and imaginations cannot describe
That which only can be experienced.
The ecstasy and the terror of it.
A peek of Divine essence.
Beyond imagination.
More real than real.
Timeless and boundless.
The Oneness of what we are,
Unlimited in knowing, pure in bliss and in unconditional love.
Nothing and everything and yet the essence of all that exists."*

SUBJECTIVE EXPERIENCE AND MEMORY INTEGRATES BY ASSOCIATION

Collection of conscious complexes made up of conscious agents
(a network of self excitations which cannot be predicted)

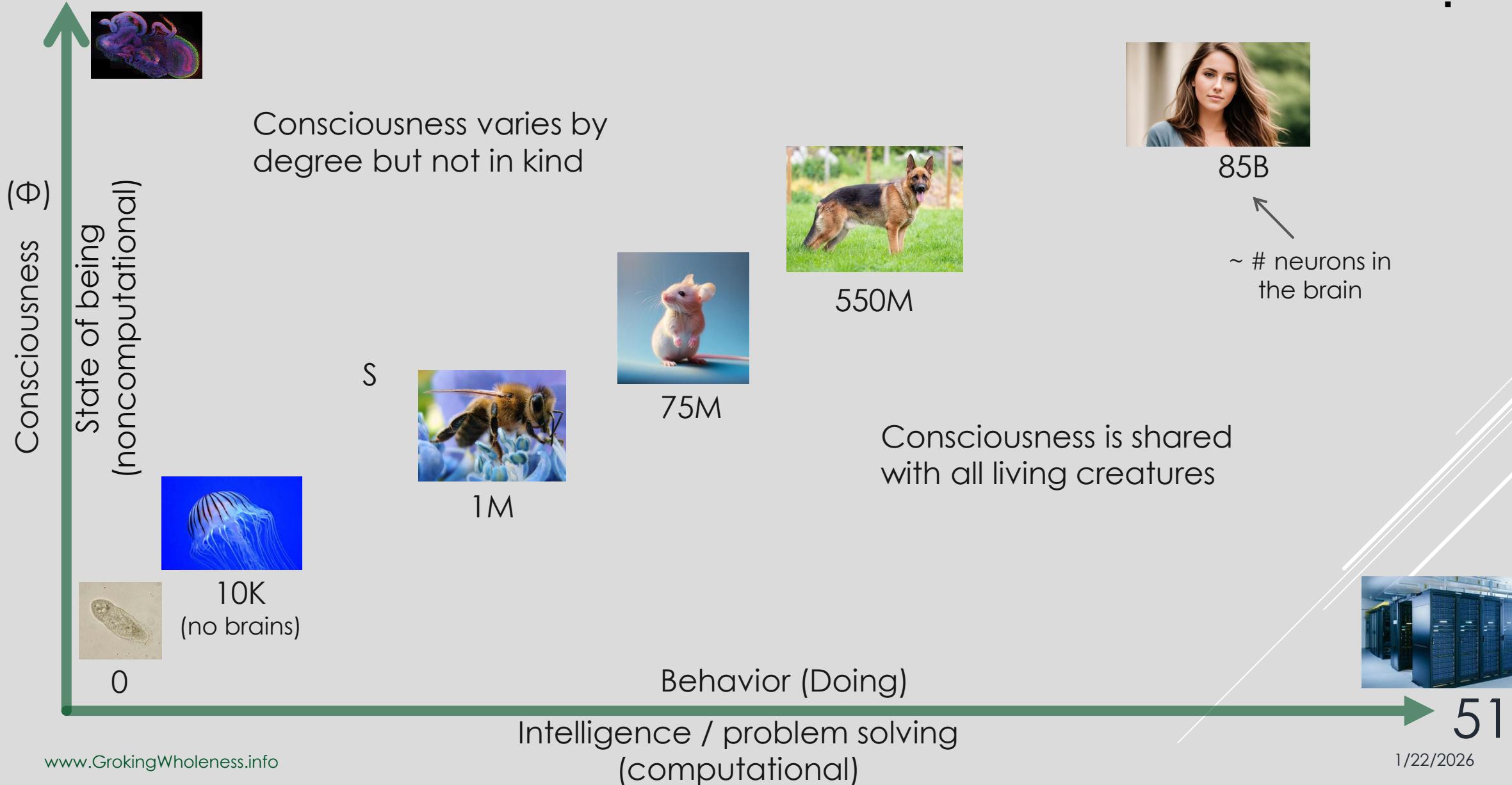


Order and interactions will vary based on cognitive associations & attention

Recurring associations tend to become habits of behaviors

CONSCIOUSNESS VS INTELLIGENCE

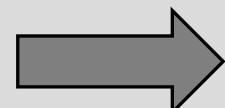
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THREE ASPECTS OF INTELLIGENCE (VIA COMPUTATION)

- ▶ Analytical
 - ▶ Recognizing problems and solving them
 - ▶ Pattern matching & symbolic processing
 - ▶ Computational
- ▶ Creative
 - ▶ Innovation (via pattern matching)
- ▶ Practical
 - ▶ Application of knowledge (statistical estimation)

Higher Intelligence



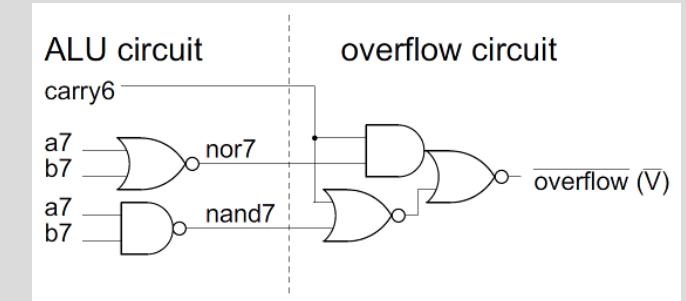
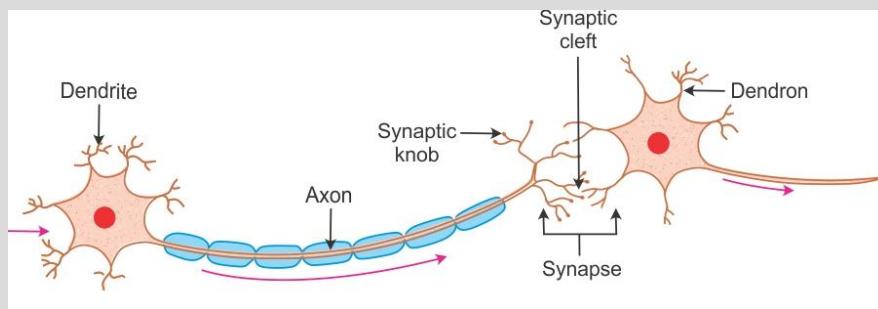
More ways to solve problems (by different means)



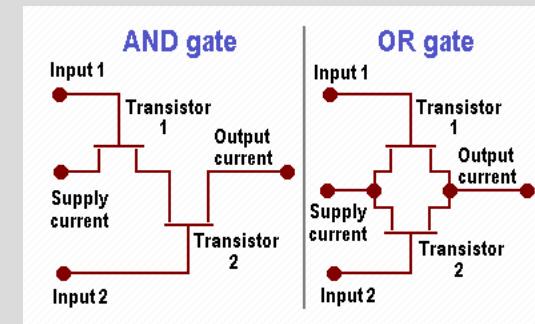
HUMAN BRAIN VS DIGITAL COMPUTER



- ▶ 85 Billion Neurons
- ▶ 50,000 inputs and 50,000 outputs for each neuron
- ▶ Outputs signals can be inhibitory or enabling
- ▶ Electrochemical signals are analog
- ▶ Receiver (filter) vs generator of consciousness



- Modern Microprocessors
 - Millions to less than 10 B gates
- Interconnections
 - 1-2 Gates
 - Signals are digital (0 or 1)

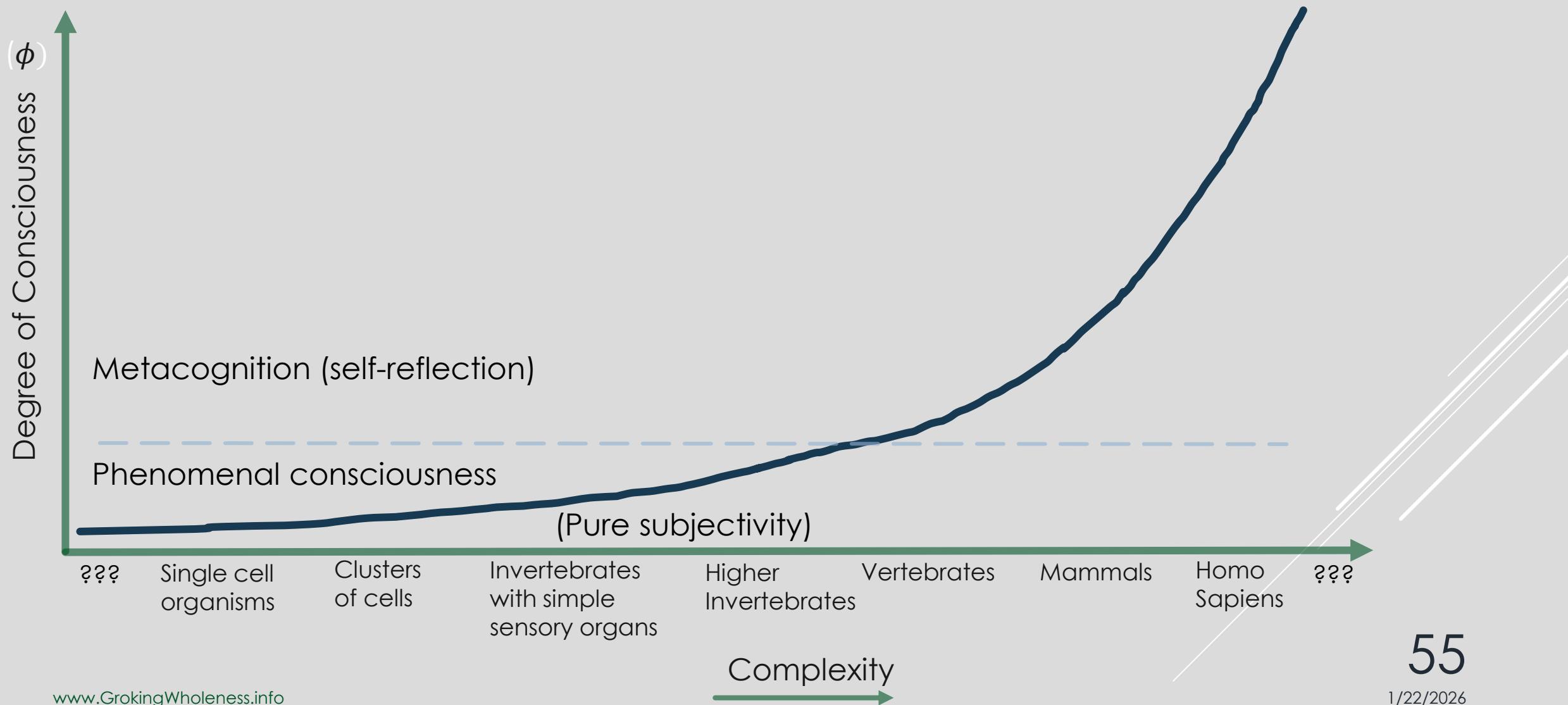


NATURE'S LEARNING IMPERATIVES (VIA CONSCIOUSNESS)

- ▶ Pure Subjectivity/ Phenomenal Consciousness / experience / "what it is like to be"
 - ▶ Inhibitors / Drivers
 - ▶ Pleasure, joy, happiness, etc.
 - ▶ Pain, suffering, fear, anguish, etc.
 - ▶ Instinct (archetypes) & beliefs
 - ▶ Agency (makes instinctual choices)
- ▶ Metacognition
 - ▶ Ability to assign meaning to experience
 - ▶ Varies by degree (not kind)
 - ▶ Ability to balance Inhibitors & drivers
 - ▶ Ability to reason (evaluate, analyze & plan)
 - ▶ Agency (makes conscious choices)



SPECTRUM OF CONSCIOUSNESS



PURE SUBJECTIVITY VS METACOGNITION?



Bernardo Kastrup on Metacognition

<https://www.youtube.com/watch?v=cHdfDYjfAqk>

EXPLORATIONS INTO THE NATURE OF CONSCIOUSNESS

A BRIEF OVERVIEW OF CONSCIOUSNESS

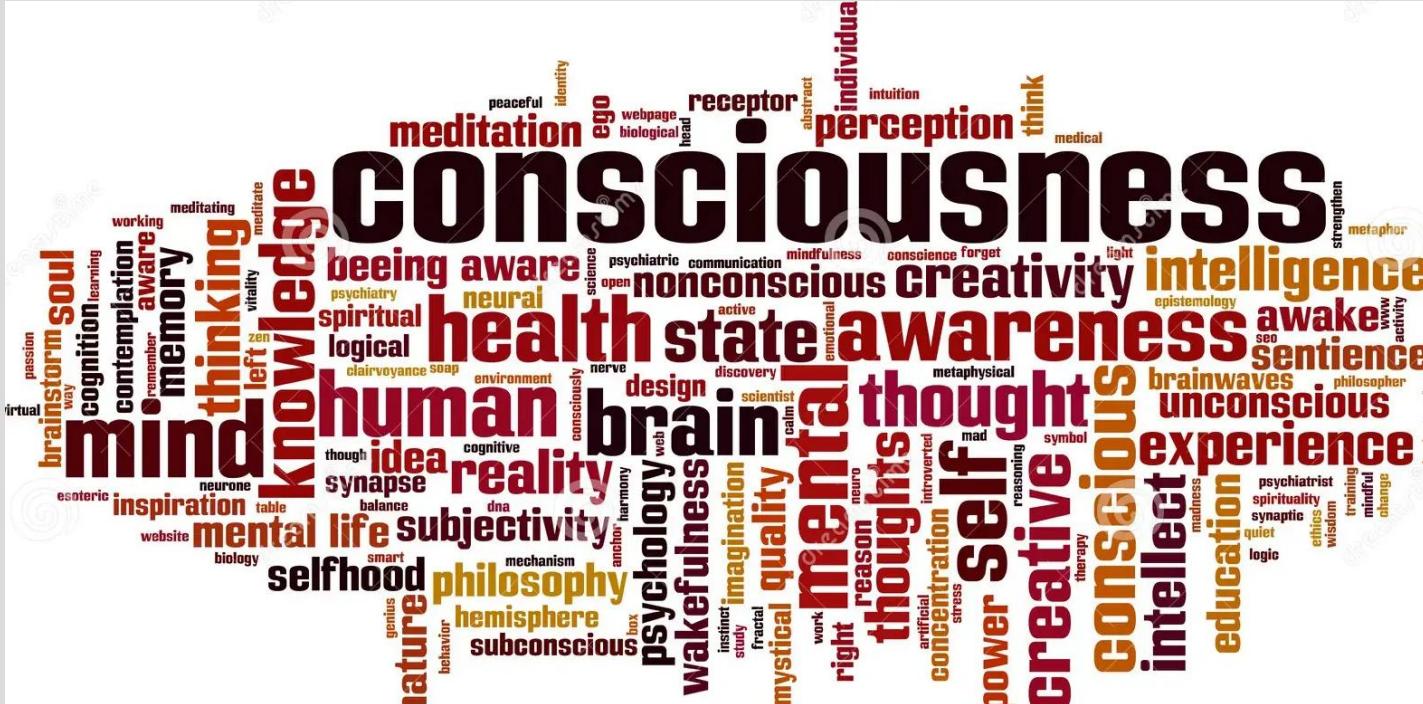
PART 5

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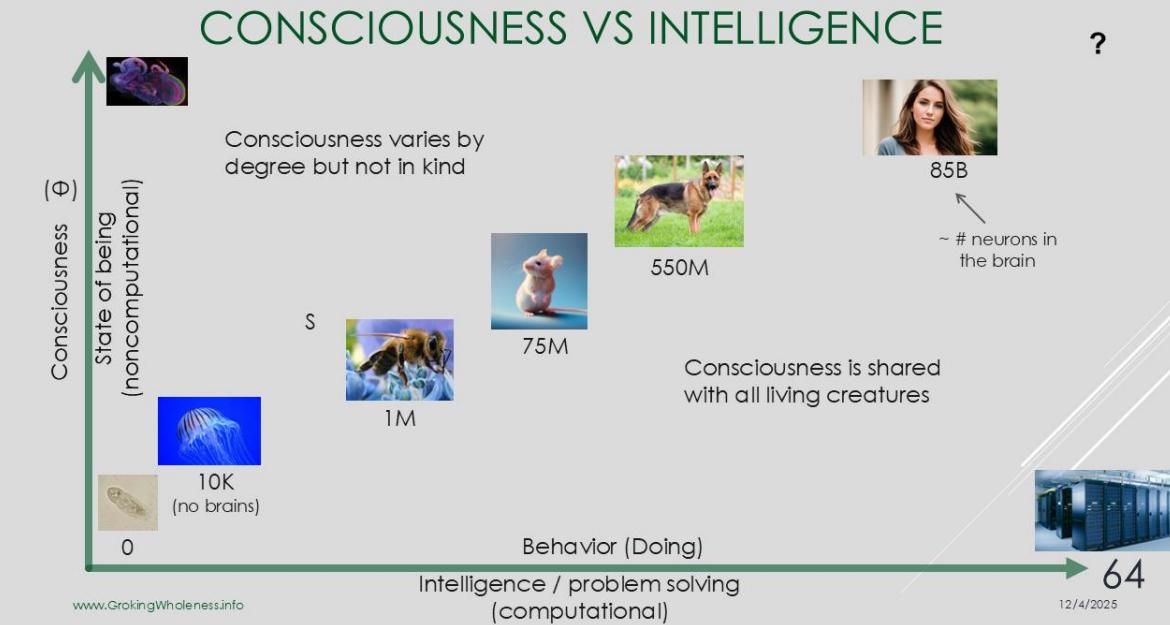
2025

CONSCIOUSNESS MEDITATION



THE THREE ASPECTS OF COGNITION

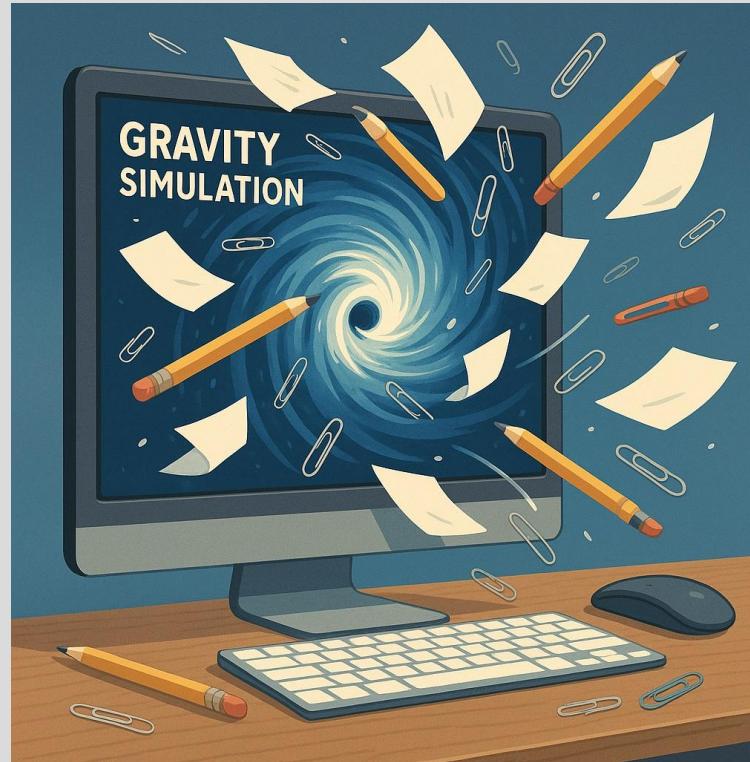
- Consciousness
 - About being, not doing
 - Exists for itself
 - Has causal power (for itself & others; agency)
 - Experience – what something feels like
 - Non computational
- Intelligence
 - About problem solving (pattern matching) - doing
 - Computational
 - No causal power
- Memory / Information
 - Access
 - Storage



Cognition – the mental process involved in acquiring, understanding, processing and utilizing information by assigning meaning to it through thought, experience, insight and perception.

SIMULATIONS VS AGENCY

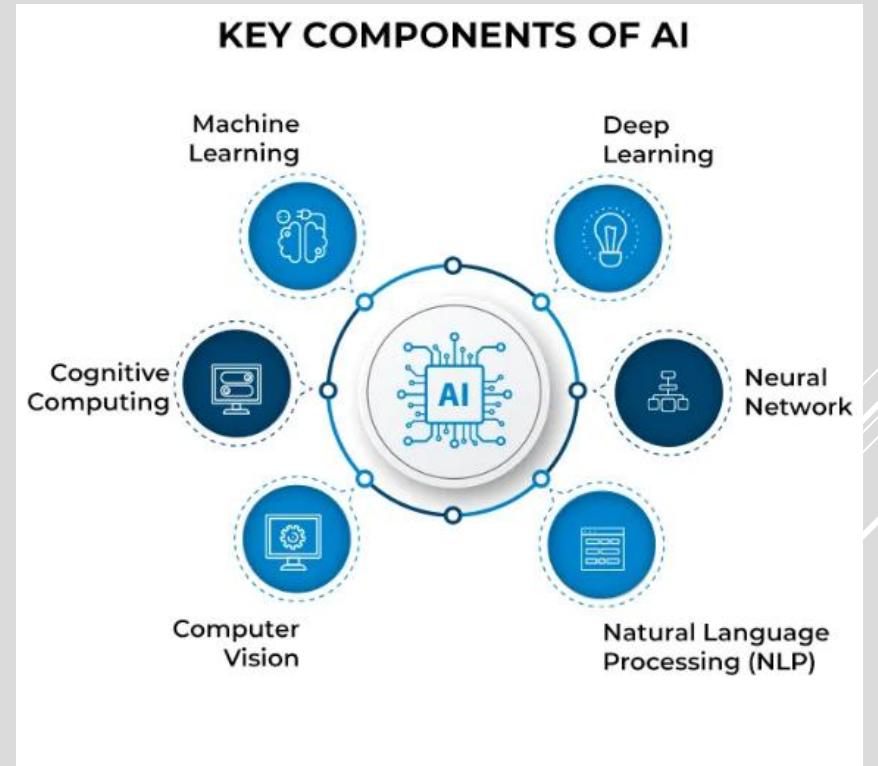
- A **simulation** imitates the operation of real-world processes or systems with the use of models.
 - The model represents the key behaviors and characteristics of the selected process or system
 - The simulation represents how the model evolves under different conditions over time.
- **Agency** is the capacity of an entity or phenomenon to act in a given environment either for itself (self-exciting) or for others
- **Consciousness** has agency (causal powers) for both itself and its environment



Simulations are not the same as the thing being simulated

ARTIFICIAL INTELLIGENCE

- ▶ Computer systems capable of performing tasks that *mimic* human intelligence, such as learning, reasoning, problem-solving, perception, and decision-making.
- ▶ Field of computer science that develops software and systems to *simulate* human cognitive functions, using techniques like machine learning, deep learning, and natural language processing to analyze data, recognize patterns, and make decisions.
- ▶ AI systems can process and adapt to vast amounts of data and improve performance over time through training, enabling applications ranging from analysis, prediction, creative arts, and recommendation engines (agents)
- ▶ Built on artificial neural networks inspired by the human brain, where interconnected nodes process information in layers to perform complex tasks like image recognition, language understanding, and predictive modeling.



ARTIFICIAL (GENERAL) INTELLIGENCE

“Assuming that IIT is correct, it can be proven that a powerful general AI, or even a detailed simulation of one’s brain, **will remain nonconscious** (in any meaningful sense)”

Julio Tononi – co-inventor of IIT



A simulation is not the same as the thing being simulated
Consciousness is not computational

Artificial Intelligence [AI] is not the same as Artificial Consciousness [AC]

LIFE ≡ CONSCIOUSNESS

Cognition all the way down

Biology's next great horizon is to understand cells, tissues and organisms as agents with agendas (even if unthinking ones)

Michael Levin - Tufts University

<https://aeon.co/essays/how-to-understand-cells-tissues-and-organisms-as-agents-with-agendas>



frontiers in the sciences

The Computational Boundary of a “Self”: Developmental Bioelectricity Drives Multicellularity and Scale-Free Cognition

Michael Levin



On Having No Head: Cognition throughout Biological Systems

Frantisek Baluska and Michael Levin

Dr. Michael Levin - Professor of Biomedical Engineering Tufts University

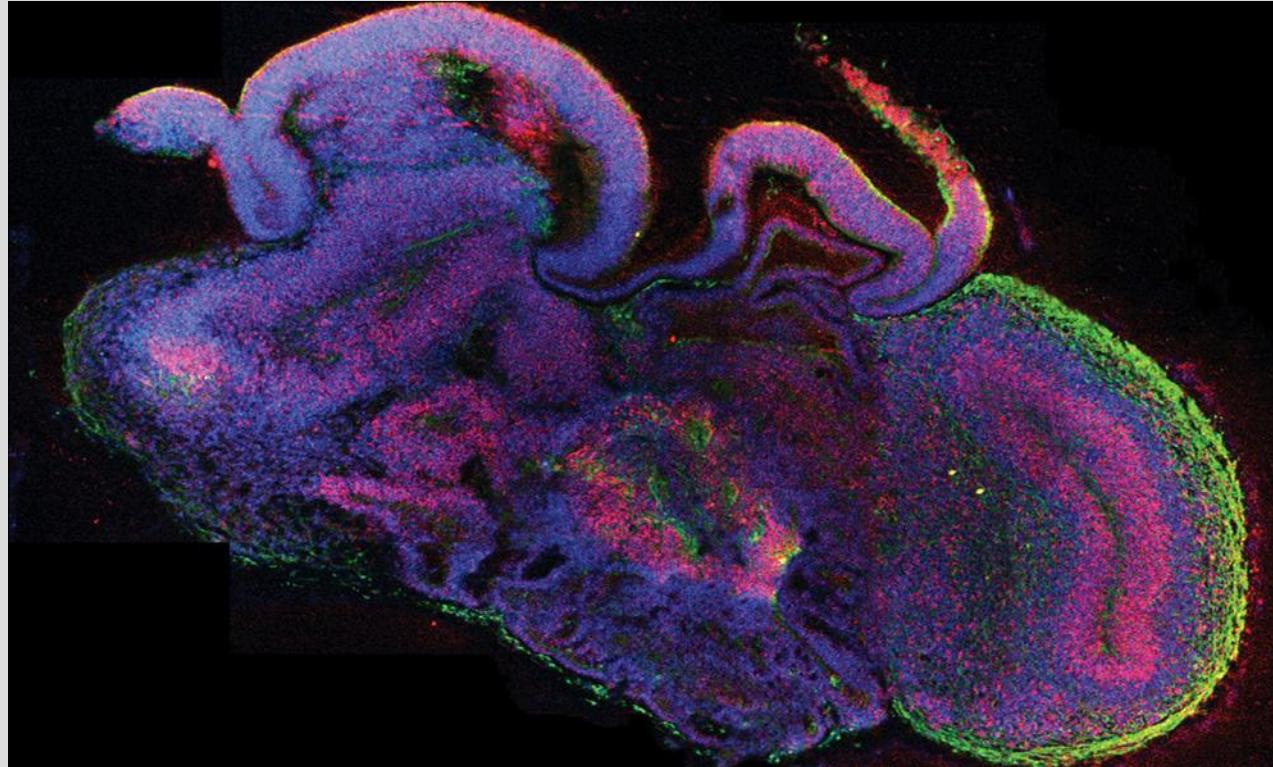


science alert

Computers Made From Human Brain Tissue Are Coming. Are We Prepared?

TECH 04 December 2025 By BRAM SERVAIS, THE CONVERSATION

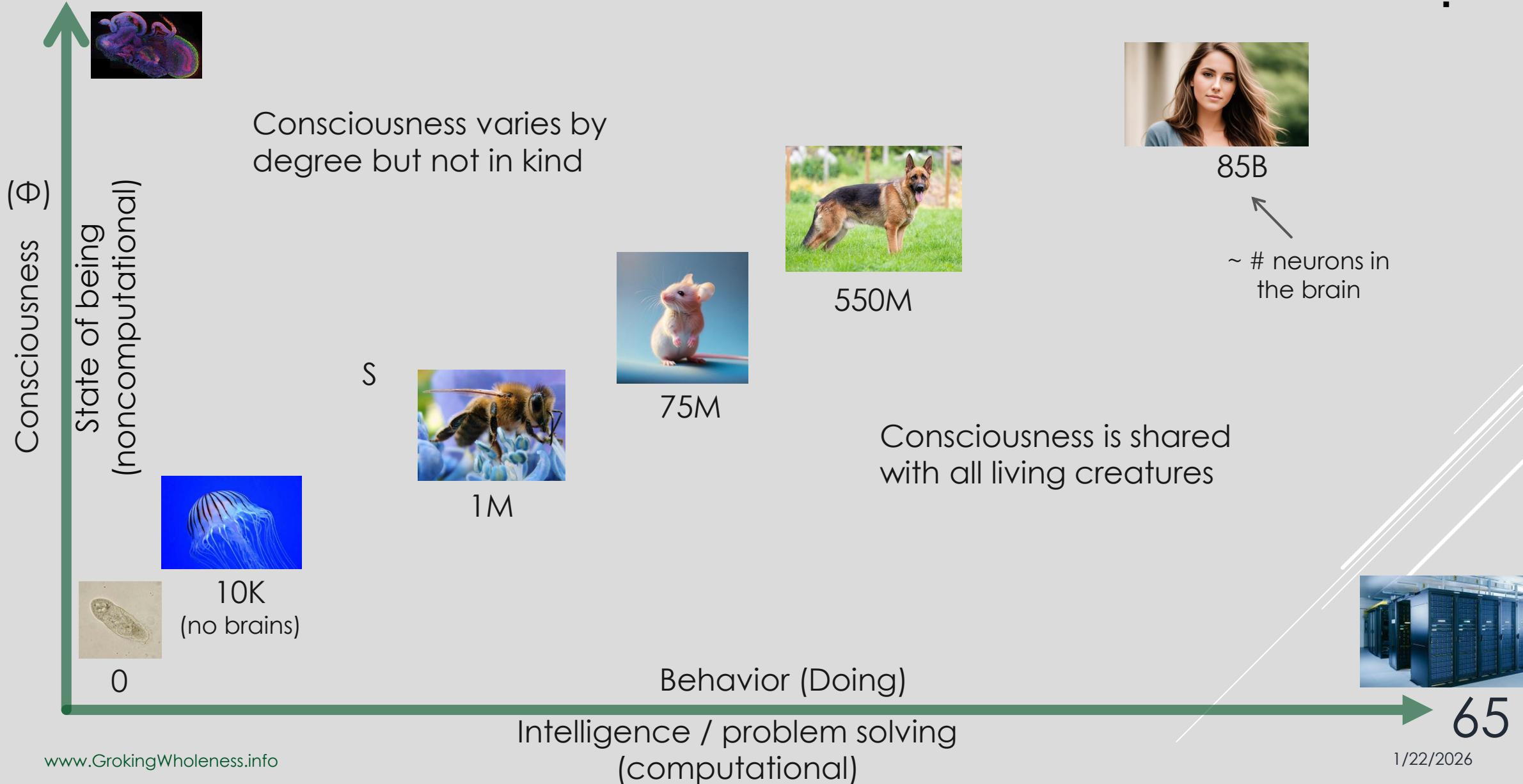
ORGANOIDS ARE COMING



- Three-dimensional (3D) living structures that mimic the architecture & function of actual organs.
- Derived from stem cells
- Can self-organize into complex tissue-like formations
- Valuable tools for various functions
 - Biomedical applications,
 - Bioelectronics & biocomputing
 - Cyborgs
 - ???

CONSCIOUSNESS VS INTELLIGENCE

?



THE REAL THREAT TO HUMANITY

World's first commercial biological computer launched by Cortical Labs (Australian start up) – March 5, 2025



CL-1. Credit: Cortical Labs

CL1's lab-cultivated cells are based on neurons grown from human stem cells

They are grown across a silicon chip that has pins used to send electrical impulses into the web of neurons and receive impulses back.

This creates a high bandwidth connection between the organic network and digital set ups.

HUMAN BRAIN CELLS ON A CHIP FOR SALE

The Cortical Labs CL1's compact energy and hardware footprint could make it attractive for extended experiments. A rack of CL1 units consumes 850-1,000 watts, notably lower than the tens of kilowatts required by a data center setup running AI workloads.



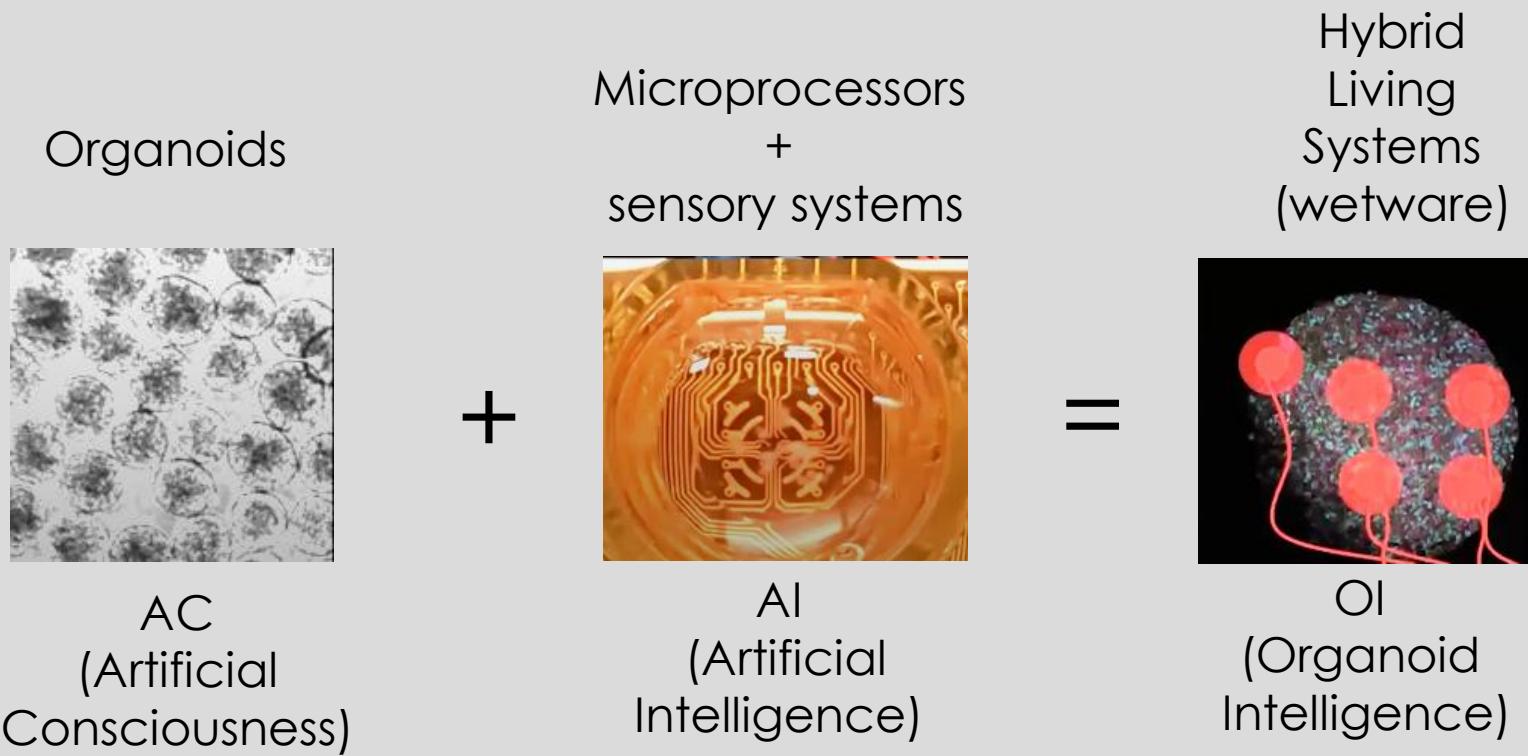
The first 115 units will begin shipping this summer (2025) at \$35,000 each, or \$20,000 when purchased in 30-unit server racks. Cortical Labs also offers a cloud-based "wetware-as-a-service" at \$300 weekly per unit, unlocking remote access to its in-house cell cultures.

Each CL1 contains 800,000 lab-grown human neurons, reprogrammed from the skin or blood samples of real adult donors. The cells remain viable for up to six months, fed by a life-support system that supplies nutrients, controls temperature, filters waste, and maintains fluid balance. Meanwhile, the neurons are firing and interpreting signals, adapting from each interaction.

ORGANOID INTELLIGENCE



THE FUTURE – BIOCOPUTING



“Eventually OI capabilities will far exceed human capabilities”

Whiting School of Engineering, Johns Hopkins University

ETHICAL IMPLICATIONS OF OI

MIT Technology Review

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BIOTECHNOLOGY AND HEALTH

Are rats with human brain cells still just rats?

Animals with human brain cells might have a higher moral status.

By Jessica Hamzelou October 14, 2022



Journal of Law and the Biosciences, 1–13
<https://doi.org/10.1093/jlb/lсад007>
Original Article

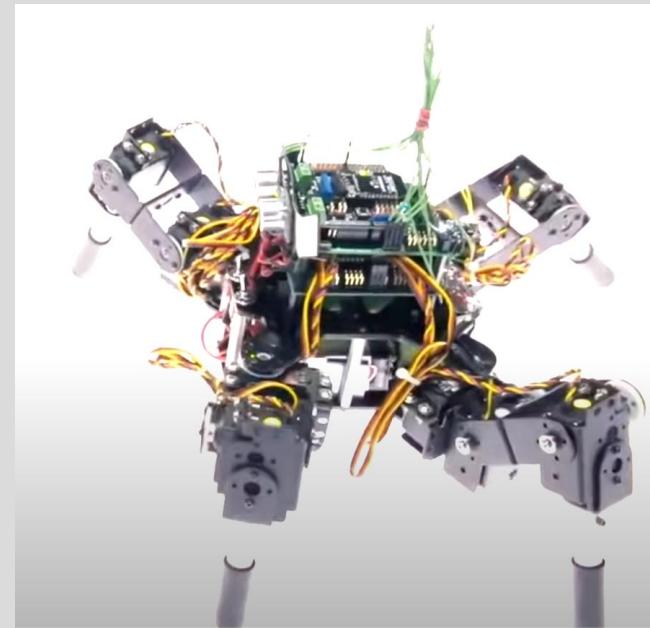
OXFORD

The legal personhood of human brain organoids

Masanori Kataoka  ¹, Tsung-Ling Lee  ² and Tsutomu Sawai  ^{1,3,*}

¹ Graduate School of Humanities and Social Sciences, Hiroshima University, Hiroshima, Japan
² Graduate Institute of Health and Biotechnology Law, Taipei Medical University, Taipei, Taiwan
³ Institute for the Advanced Study of Human Biology, Kyoto University, Kyoto, Japan
*Corresponding author. E-mail: tstmsw@hiroshima-u.ac.jp

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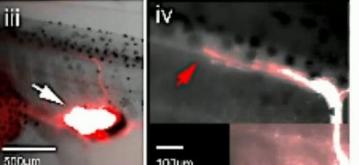
70

1/22/2026

WHERE IS MEMORY?

Life Makes Few Assumptions: Beginner's Mind

Life Makes Few Assumptions: Beginner's Mind



Ectopic eyes on tail provide vision!

no evolutionary adaptation needed (because embryos can't take much for granted, have to solve on-the-fly: evolution makes problem-solving agents)

Brain dynamically adjusts behavioral programs to accommodate different body architectures

Non-neural intelligence: biological architectures for problem-solving in diverse spaces

NATURALISTIC APPROACHES TO ARTIFICIAL INTELLIGENCES, NOVEMBER 04-08, 2024, WWW.IPAM.UCLA.EDU

Michael Levin
Tufts University

ipam

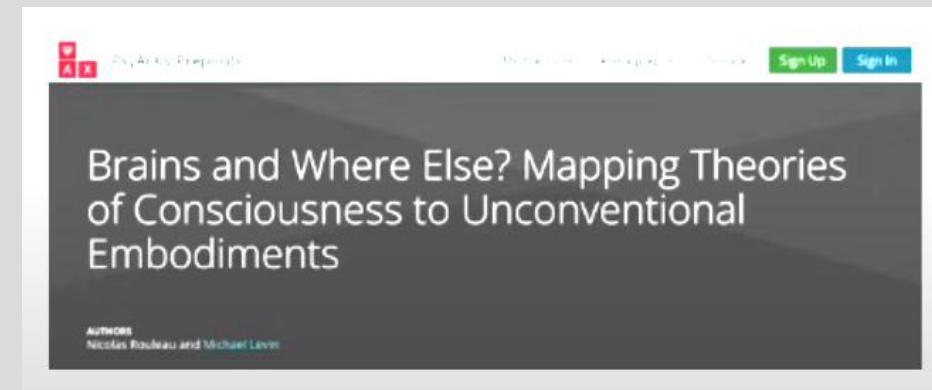
Michael Levin – Tufts University – Biology Dept

<https://www.youtube.com/watch?v=gCo5zKXOuUE>

SO, WHAT AND WHERE IS CONSCIOUSNESS?

“If you take molecular mechanisms, evolutionary relationships, or problem-solving behaviors as evidence of consciousness in the problem of other minds, you need to take it seriously for-non-linguistic body organs too (and beyond)”

Michael Levin PhD – Biology Dept. Tufts University



“Creative problem-solving, learning, etc. are ancient – not brain-specific. Sciences of the self-assembly of bodies (developmental biology) and of the autopoiesis of minds have a lot to teach each other”

EXPLORATIONS INTO THE NATURE OF CONSCIOUSNESS

A BRIEF OVERVIEW OF CONSCIOUSNESS

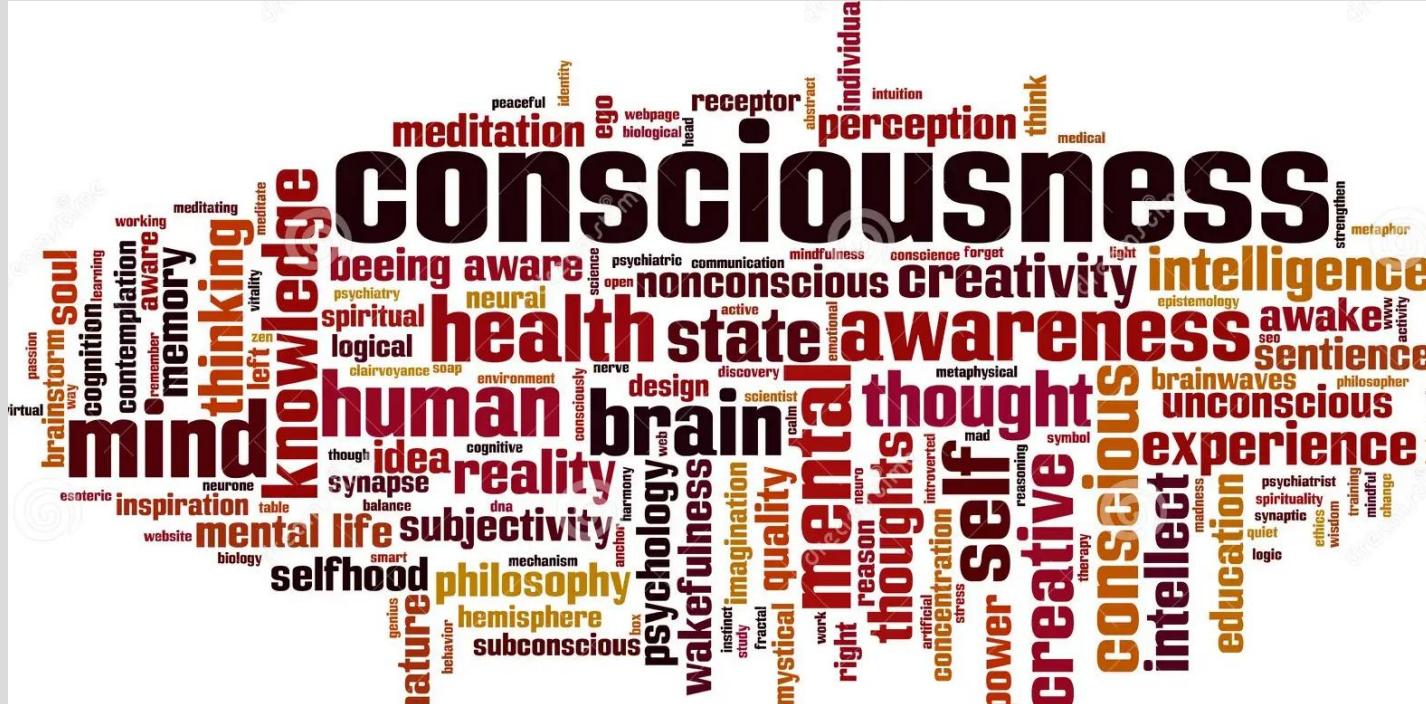
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2025

CONSCIOUSNESS MEDITATION



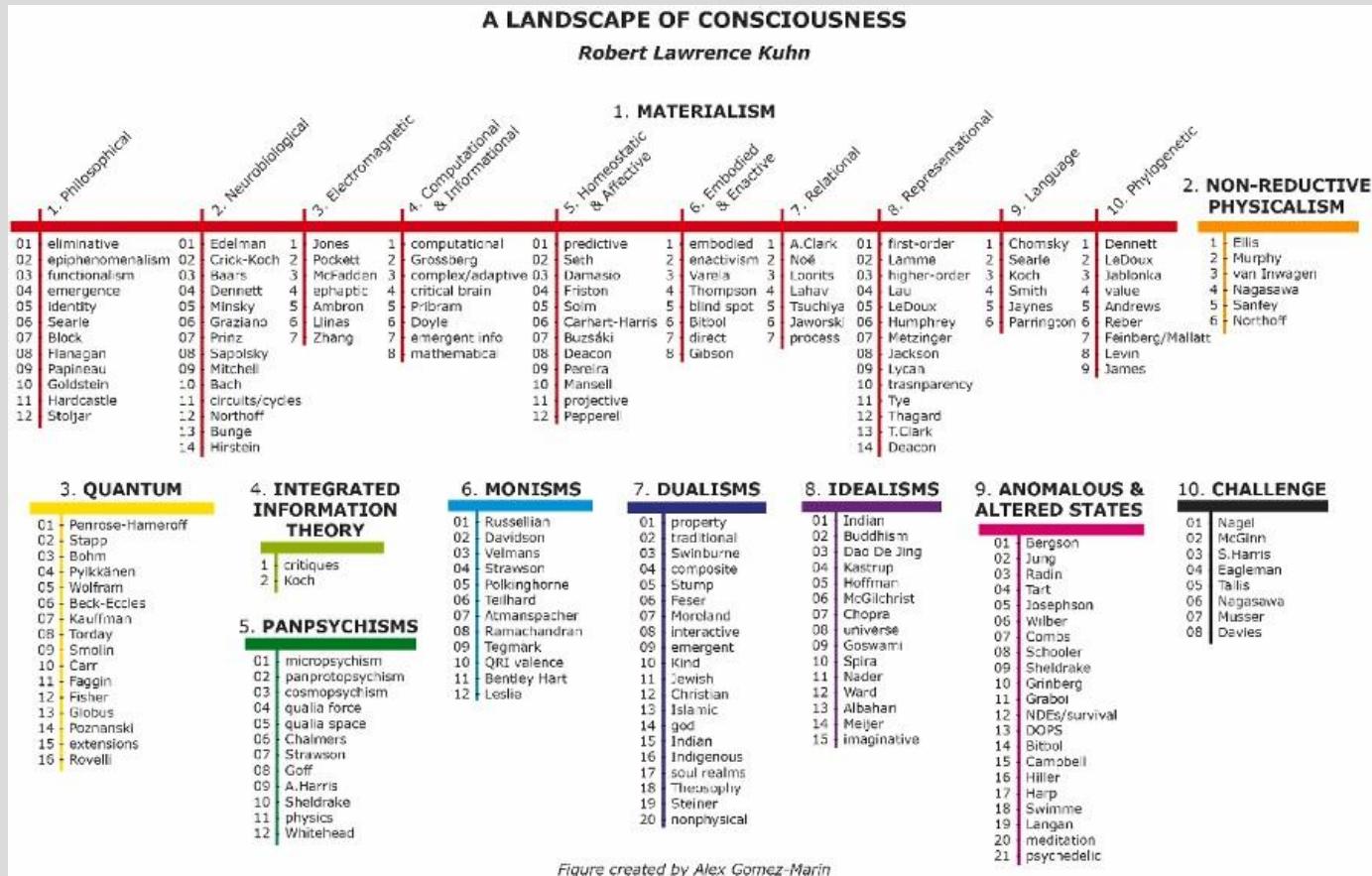
THEORIES OF CONSCIOUSNESS

► Over 350 theories of consciousness

- Spanning materialist, non-reductive physicalist, quantum, panpsychist, idealist, dualist, and anomalous/ altered-states approaches

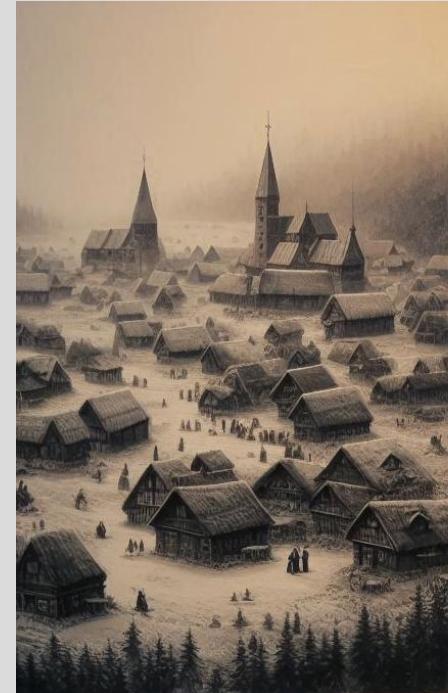
► Leading scientific contenders

- Global Workspace / Global Neuronal Workspace
- Integrated Information Theory
- Higher-order and related representational theories
- Re-entry theory
- Various quantum or field-based proposals



MODELS OF CONSCIOUSNESS

- ▶ Predictive value
 - ▶ Mimic nature's behavior
- ▶ “The map is not the territory”
 - ▶ Does not represent the thing represented as it really exists
- ▶ Symbolic thinking (and quantities) are representations of reality; experience (qualities) are the actual thing
 - ▶ Describe the taste of garlic
 - ▶ Experience the feeling of love
 - ▶ The beauty of a sunset



Actual village



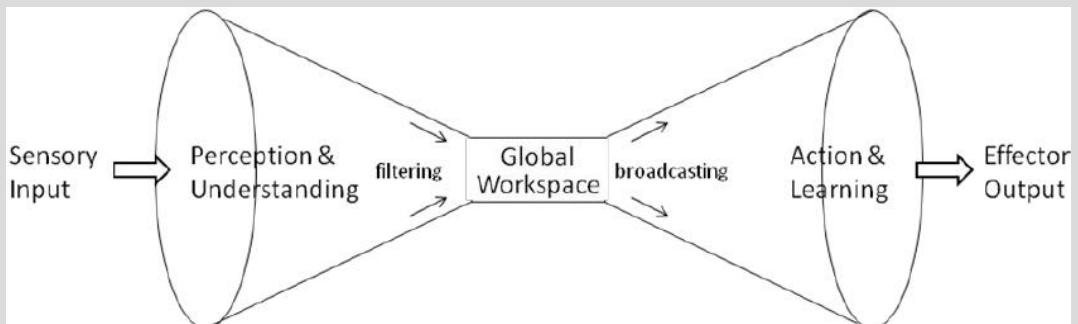
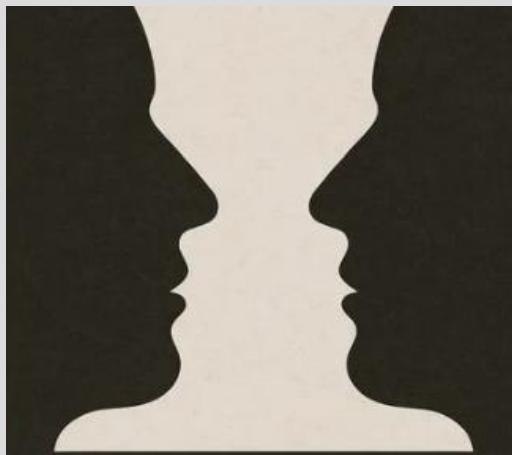
Map of Village

Models are useful for conceptual reasoning and explanatory power

LEADING THEORIES OF CONSCIOUSNESS

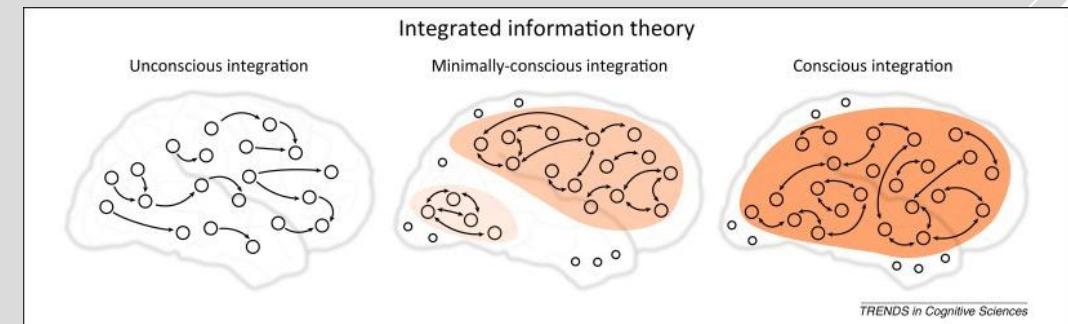
Global Workspace Theory

Perceptual information of an experience goes to a global workspace and is broadcast to other centers



Integrated Information Theory (IIT)

Consciousness is intrinsic to cognitive networks that exert “causal power” on themselves. Can be measured by a parameter referred to as Φ



Both Theories Integrate Information

INTEGRATED INFORMATION THEORY (IIT) CHRISTOF KOCH



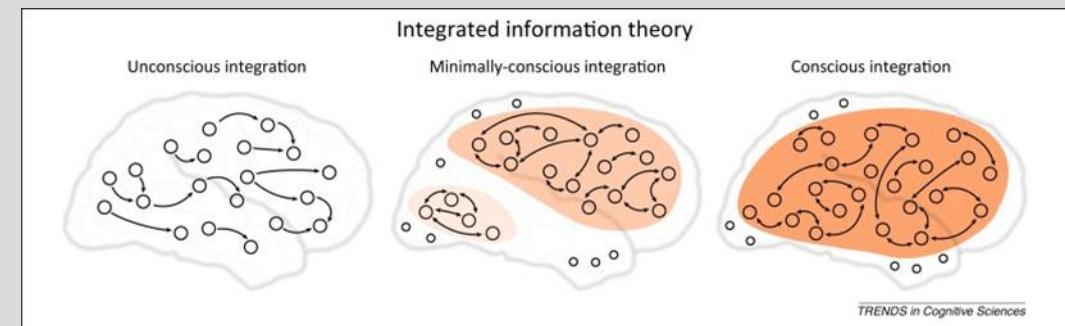
Integrated Information Theory of Consciousness (IIT) Explained

https://www.youtube.com/watch?v=b2FuH_Z4pDA

THE IIT MODEL OF CONSCIOUSNESS

- ▶ Integrated Information Theory (IIT)
- ▶ To be conscious is to possess and integrate information
 - ▶ Conscious states are highly differentiated and information rich
 - ▶ Experience is integrated as a unified whole
- ▶ A **model** describing what consciousness does – not what it is
 - ▶ Starts from experience (consciousness) – which exists irrefutably
 - ▶ Accounts for the qualities of experience
 - ▶ An experience is identical to a cause-effect structure (cognitive complex) upon itself
 - ▶ Maps subjectivity to neural correlates (physicality)
 - ▶ Structural; non computational
 - ▶ Not tied to a specific metaphysics
- ▶ Has explanatory and predictability value
- ▶ Practical Applications
 - ▶ “Locked in” syndrome
 - ▶ Psycho & physiological pathologies
 - ▶ Direct neurological interfaces
 - ▶ Ethics
 - ▶ Transpersonal states

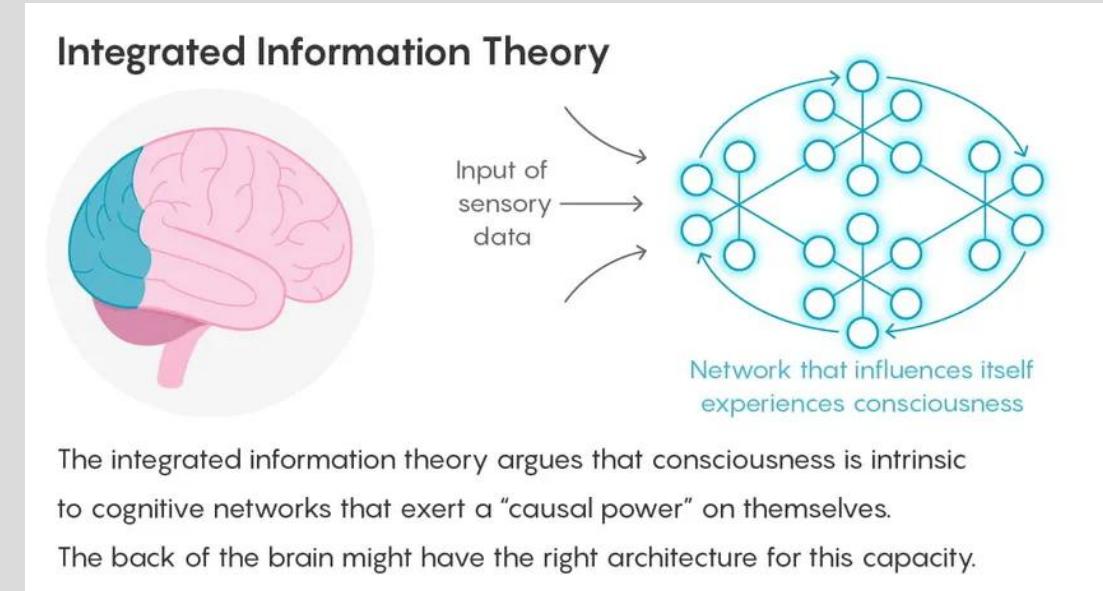
Correlates 1st person and 3rd person perspectives / experiences. Note: correlation does not imply causality



- The quantity of consciousness (Φ) corresponds to the amount of integrated information generated and used by a complex of elements
- The quality of experience is specified by the set of informational relationships generated within that complex

INTEGRATED INFORMATION THEORY

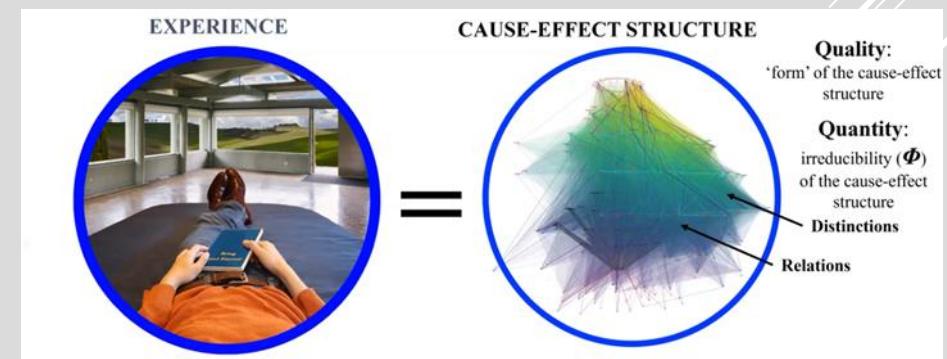
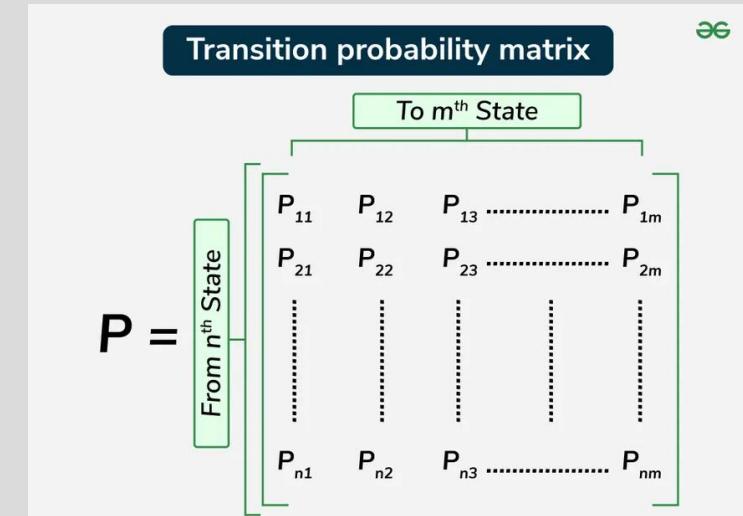
- ▶ Starts with experience (e.g. consciousness)
 - ▶ What experience feels like
- ▶ Axioms (describe all conscious experience)
 1. Every experience exists for itself (intrinsic)
 2. Its compositional - made of specific qualia [informational] states
 3. Its specific (qualia states)
 4. Its only one (not many) integrated (holistic) experience
 5. Exclusion – your experience is separate from mine.
- ▶ Postulates – translate from axioms to mathematical characteristics of the “conscious” system (probabilities of state transitions)
- ▶ Has causal power for itself or for external objects auditory, touch, etc. (It can make or take a difference)
- ▶ The current state is determined by its own past and can determine its own future
- ▶ The extent to which a system has causal power defines the degree of consciousness it has (Φ)



IIT provides the mathematical framework to infer the qualities of experience if we only have access to the interface (substrate) - 3rd person perspective.

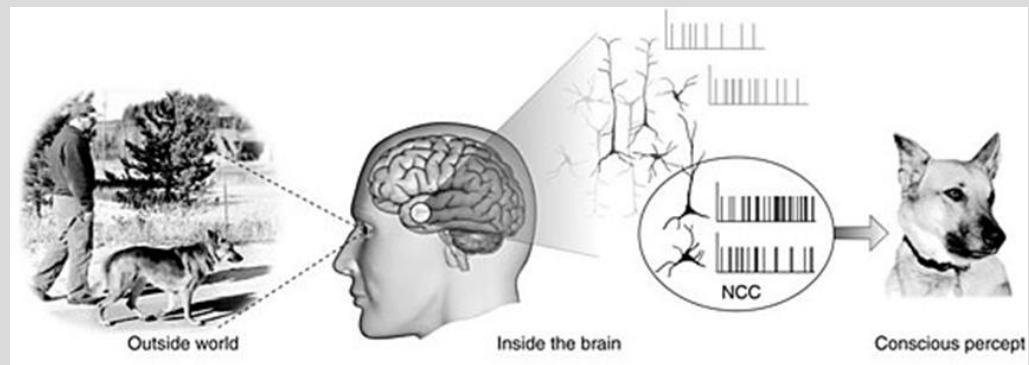
TRANSITION PROBABILITY MATRIX

- ▶ The TPM describes how a system transitions between end states
- ▶ By determining the intrinsic causal power a system has upon itself, you can compute the amount of integrated information it has (Φ)
 - ▶ $\Phi = 0$ = no consciousness
 - ▶ $\Phi >$ some threshold = the system exists for itself (is conscious)
- ▶ Every structure maps to a corresponding state (subjective experience – what the system is conscious of)



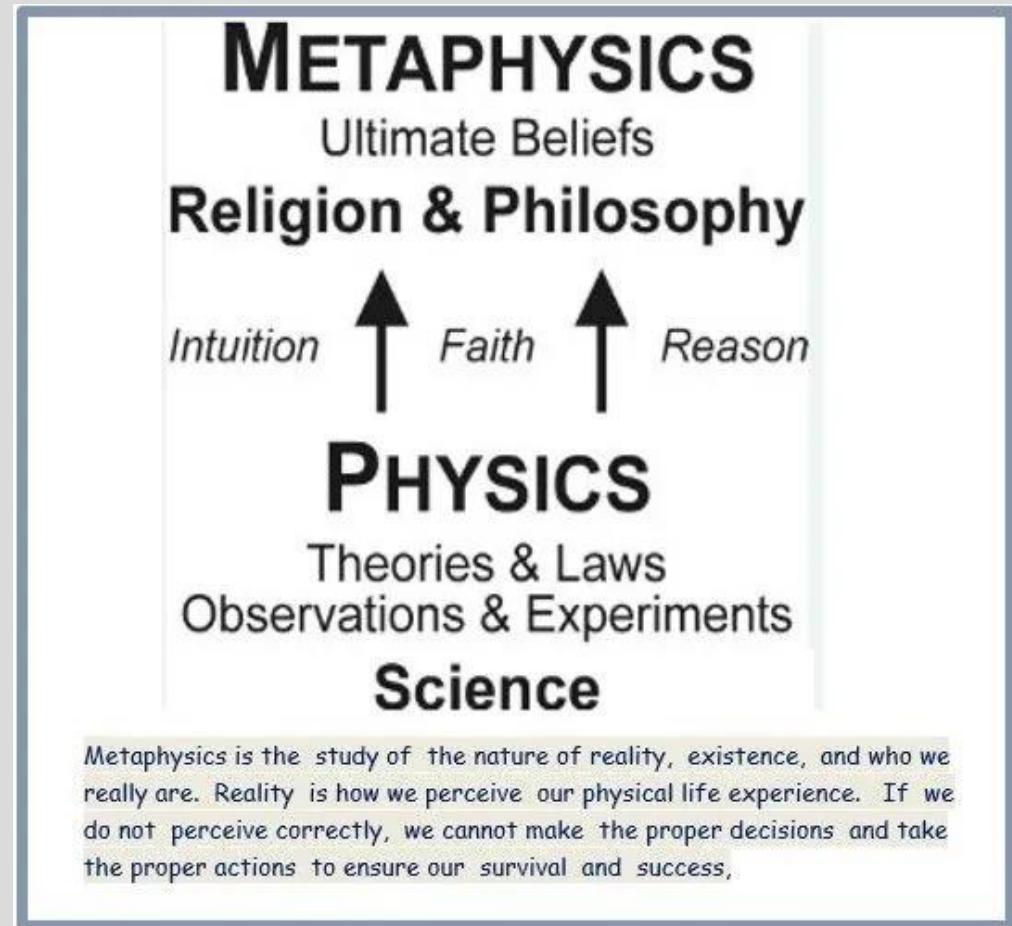
PREDICTIVE VALUE OF IIT

- ▶ Infers the 1st person subjectivity from observing the substrate (3rd person perspective) by the following steps:
 1. Characterization
 2. Correlate substrate view with actual experience
 3. Quantify the correlates
 4. Calibrate substrate model
 5. Can now bridge between 1st and 3rd person perspectives
- ▶ Many possibilities for applications
 - ▶ Reading another's subjective state
 - ▶ Identifying and communicating with locked in patients
 - ▶ Identifying and treating psychological / physiological pathologies and related disorders
 - ▶ Direct external neural interfaces
 - ▶ Measurements
 - ▶ Joy, suffering, pain, compassion, etc.
 - ▶ Degree/state of consciousness
 - ▶ Ethics & Morality
 - ▶ Eventually - Non-human communications
- ▶ It does this by identifying patterns (information integration) in the substrate that corresponds to the 5 axioms

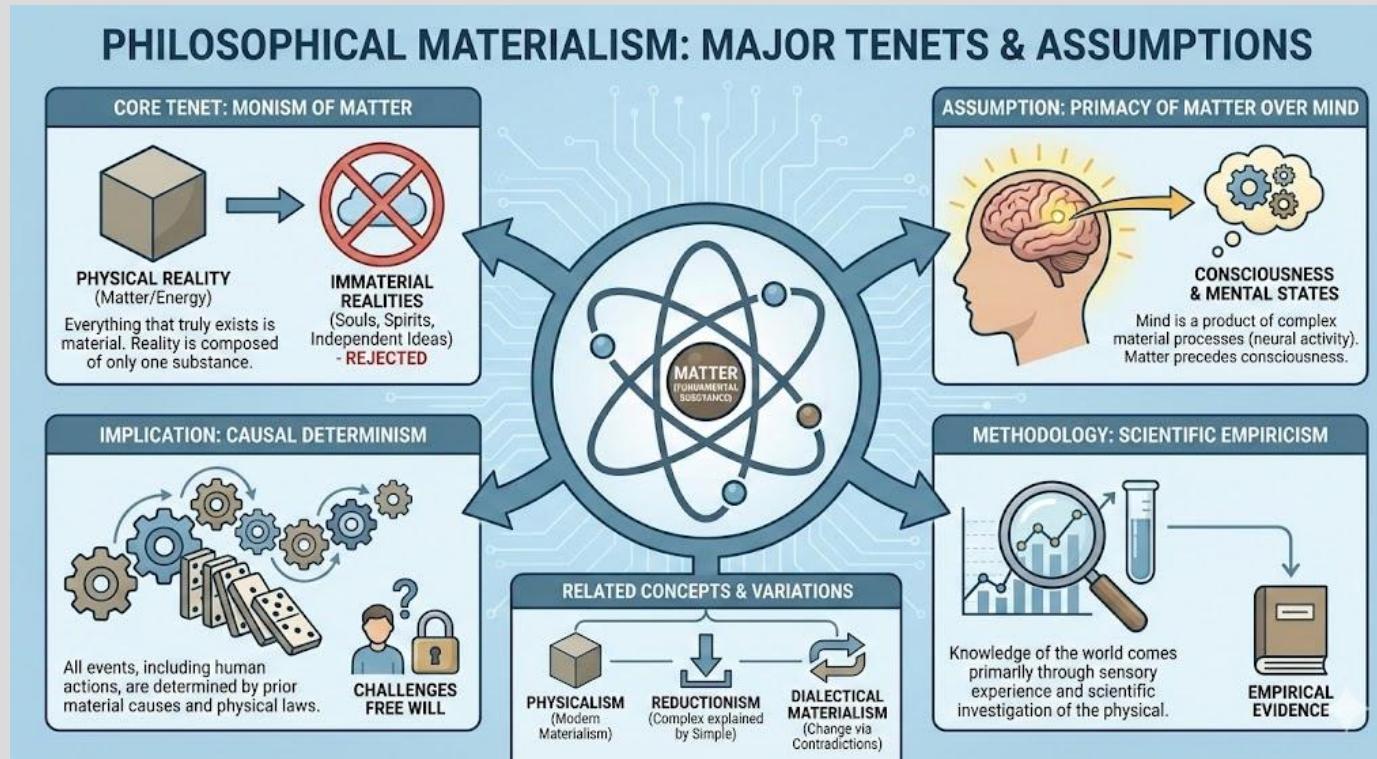


METAPHYSICS

- ▶ A branch of *philosophy* that investigates the fundamental nature of reality, existence, and being.
- ▶ Explores abstract concepts such as existence, objects and their properties, potential, space and time, change, causation, and the relationship between mind and matter.
- ▶ Traditionally, has been understood as the study of mind-independent features of reality, aiming to uncover the most basic structure of what exists (ontological primitive).
- ▶ Often described as "first philosophy" because it is considered foundational to all other branches of inquiry, providing the conceptual framework upon which other disciplines depend.
- ▶ Metaphysics vs Science
 - ▶ Metaphysics studies what Nature is (being)
 - ▶ Science studies what nature does (doing)



METAPHYSICS OF PHYSICALISM (AKA MATERIALISM – MAINSTREAM VIEW)



The primacy of matter – consciousness is an epiphenomena

All experienced qualities only occur in the brain

EMERGING METAPHYSICS

CONSCIOUSNESS IS FUNDAMENTAL

- Consciousness Schools
 - Dualism
 - Panpsychism
 - Idealism
 - Ancient eastern traditions
- Evaluating metaphysical theories
 - Cannot conduct experiments
 - Support for existing scientific theories
 - More details next session



23 hours ago

New Study Claims “Universal Consciousness” Existed Before the Big Bang—and Still Shapes Our Reality

thedebrief.org - Tim McMillan

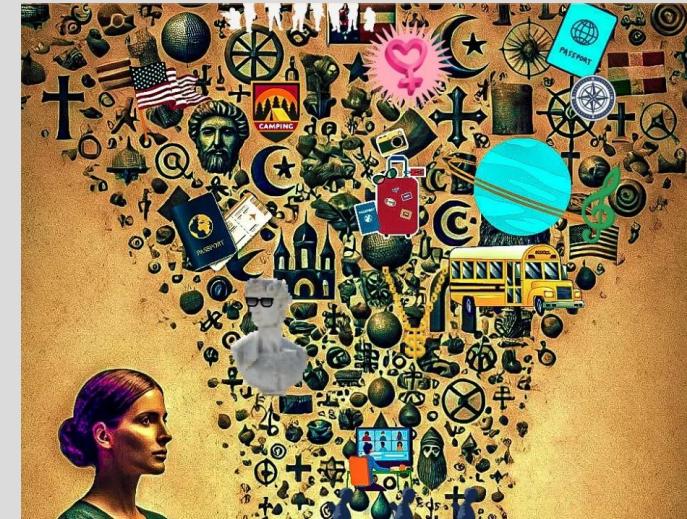
For centuries, the nature of consciousness has remained one of the most stubborn mysteries in science. Neuroscientists have mapped brain circuits,

Universal consciousness as foundational field: A theoretical bridge between quantum physics and non-dual philosophy

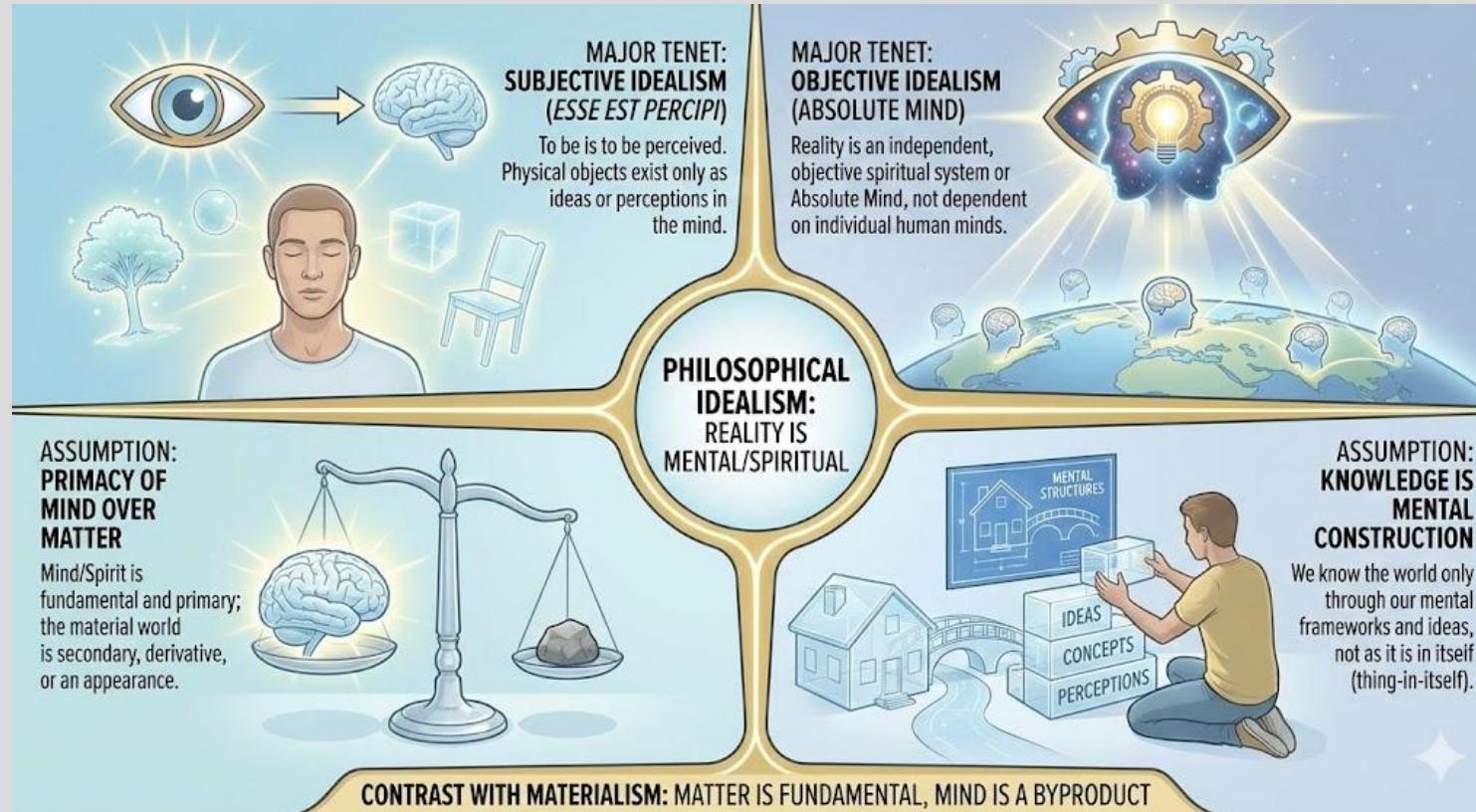
AIP Advances
Vol 15, issue 11

FILTER THEORY OF CONSCIOUSNESS

- ▶ Subjective experience is not generated by the brain, but merely selects it according to the body in space-time
- ▶ Examples of reduced brain activity leading to transpersonal/mystical states
 - ▶ Fainting caused by asphyxiation
 - ▶ G-Force induced lost of consciousness
 - ▶ Holotropic breathwork
 - ▶ Psychedelic experiences
 - ▶ Transcranial Magnetic stimulation (TMS)
 - ▶ Stroke patients
 - ▶ Neurosciences
 - ▶ Acquired savant syndrome
 - ▶ NDEs
 - ▶ Etc.



METAPHYSICS OF IDEALISM (EMERGING VIEW)



Everything is made out of mental constructs (including all matter)

EXPLORATIONS INTO THE NATURE OF CONSCIOUSNESS

A BRIEF OVERVIEW OF CONSCIOUSNESS

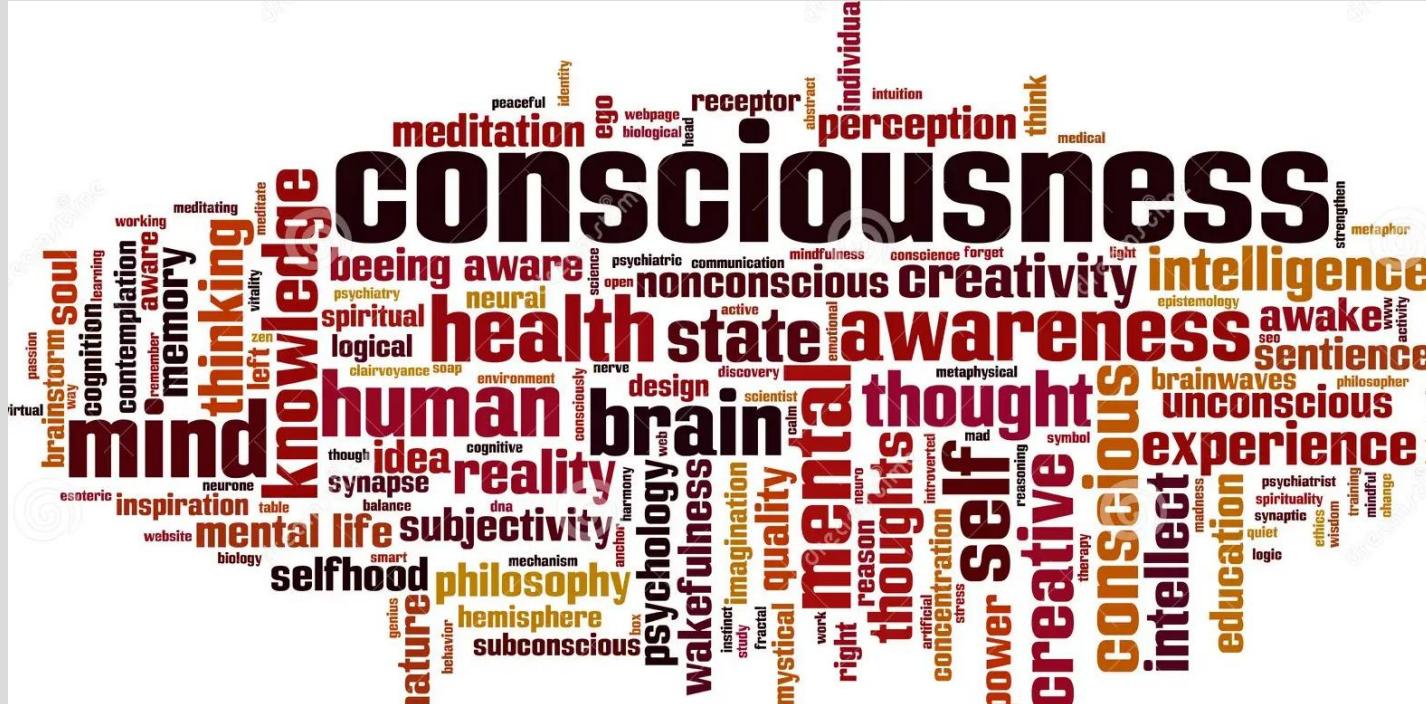
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2025

CONSCIOUSNESS MEDITATION



METAPHYSICS VS SCIENCE

- ▶ Metaphysics
 - ▶ A description of what nature is (Being)
 - ▶ Metaphysics can inform science
 - ▶ Living systems cannot directly see reality for what it actually is

- ▶ Science
 - ▶ A description of how nature behaves (Doing)
 - ▶ Science is perceptual (3rd person)
 - ▶ Science can validate metaphysics
 - ▶ Uses models (convenient fictions) to predict nature's behavior
 - ▶ Maps (models) are NOT the territory (reality)
 - ▶ Scientific theories can be falsified (scientific method)



MAJOR SCHOOLS OF THOUGHT ON THE METAPHYSICS OF CONSCIOUSNESS

- ▶ Physicalism (aka materialism)
 - ▶ Consciousness is an epiphenomenon (byproduct) of brain function & processes
- ▶ Dualism
 - ▶ Matter and consciousness are two distinct but fundamental aspects of reality
- ▶ Panpsychism
 - ▶ Every physical object has an additional property (a basic component of consciousness)
- ▶ Idealism
 - ▶ Everything either is consciousness or is in consciousness and/or manifested by Consciousness



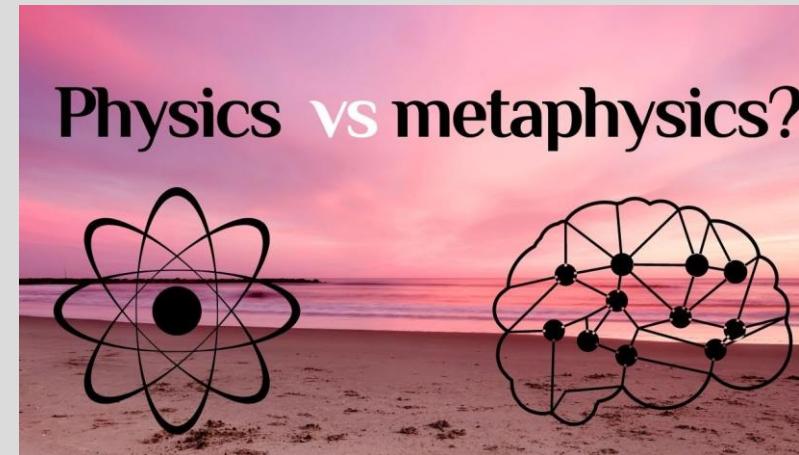
THE PATH TO IDEALISM

- ▶ “One starts as a materialist, then one becomes a dualist, then a panpsychist, and one ends up as an idealist”
 1. 1st one is impressed by the success of science, endorsing materialism about everything and so about the mind
 2. 2nd, one is moved by problem of consciousness to see a gap between physics and consciousness, thereby endorsing dualism, where both matter and consciousness are fundamental
 3. 3rd, one is moved by the inscrutability of matter to realize that science reveals at most the structure of matter and not its underlying nature, and to speculate that this nature may involve consciousness, thereby endorsing panpsychism
 4. 4th, one comes to think that there is little reason to believe in anything beyond consciousness and that the physical world is wholly constituted by consciousness, thereby endorsing idealism

Source: David Chalmers: “Idealism and the Mind/Body Problem”

Criteria for Evaluating Metaphysical Hypotheses

- ▶ Empirical evidence consistent with hypothesis
- ▶ Separation of assumptions & beliefs from actual evidence
- ▶ Explanatory power for observed phenomena
- ▶ Coherent and supported by informed intuitions and experience
- ▶ Plausibility
- ▶ Logic and reasonability tests
- ▶ Parsimonious (Occam's razor)

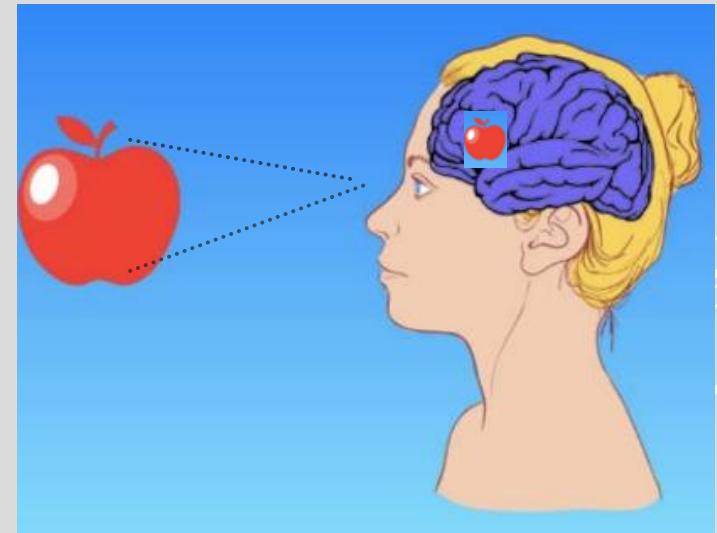


PHYSICALISM (AKA MATERIALISM)

PREVAILING VIEW

- ▶ Originally invented as a political weapon against the church
- ▶ External non-living objects have their own independent physical existence and are made of a single ontic category
- ▶ Assumes that consciousness arises from biological brain functions and processes (epiphenomenal)
- ▶ Consciousness does not exist in organisms without a brain
- ▶ Matter can be described by quantities (mass, charge, size, etc.)
- ▶ Subjective experience (qualities) are not real & only happens in the brain
- ▶ Issues
 - ▶ Provides no solution to the “Hard Problem of Consciousness” – what are the physical objects (and their properties) that create experience
 - ▶ Not a single conscious experience has ever been explained
 - ▶ Conflicts with recent discoveries in physics, biology, neuroscience and neurophysiology
 - ▶ Does not explain much of the human experience
 - ▶ Cultural conditioning embedded in humanity since the mid 19th century

The map is not the territory



EVIDENCE AGAINST MATERIALISM

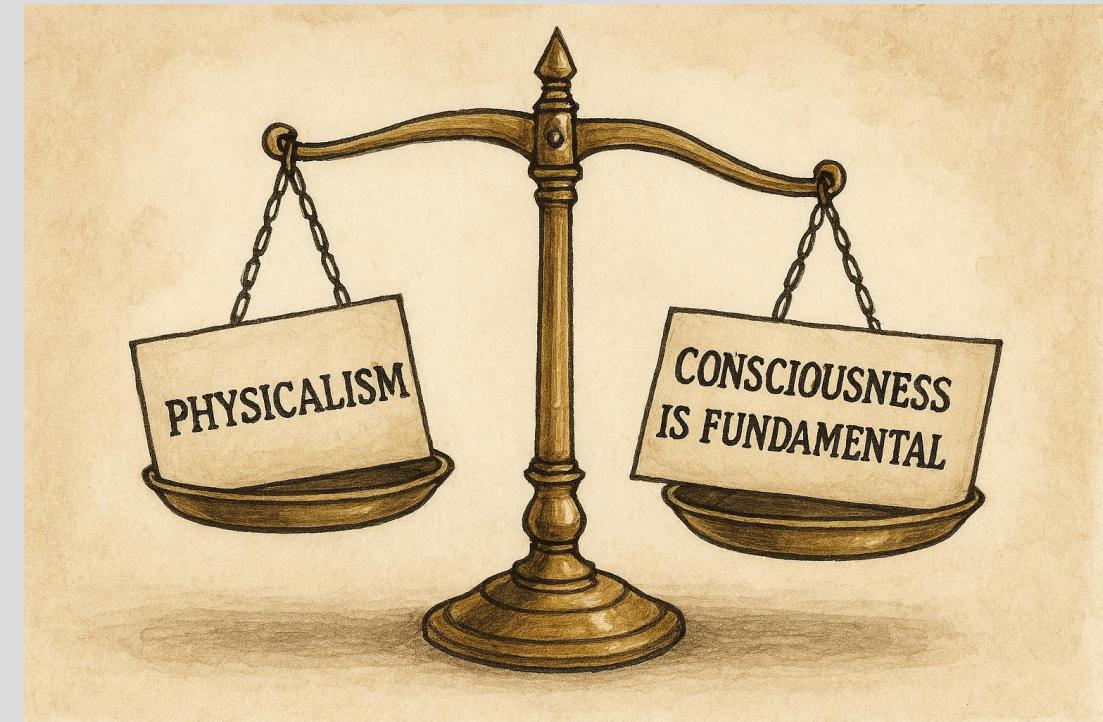
- ▶ Human Experience / Non-ordinary states of consciousness
 - ▶ Terminal lucidity
 - ▶ Stand still surgery
 - ▶ NDEs,
 - ▶ Savant syndrome
 - ▶ Insights and intuition
 - ▶ Psychedelics
 - ▶ PSI
 - ▶ Mystical experiences
- ▶ Science
 - ▶ Quantum Physics
 - ▶ Neuroscience & brain surgery
 - ▶ Neuropsychology
 - ▶ Biology
- ▶ Explanatory power
 - ▶ Much of the human experience is denied
 - ▶ Empirical evidence
- ▶ Logic and reason
- ▶ Parsimony (Occam's razor)



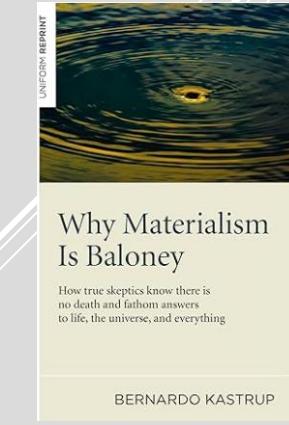
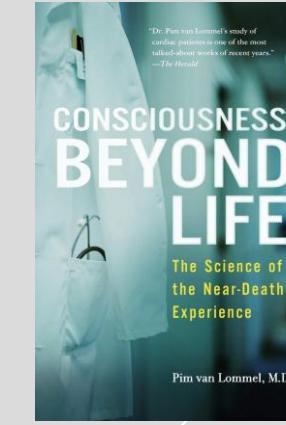
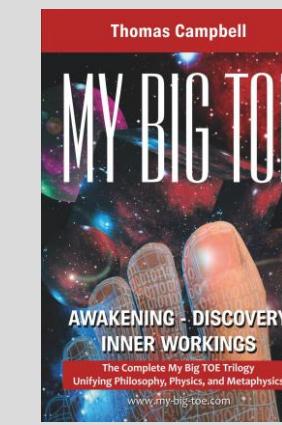
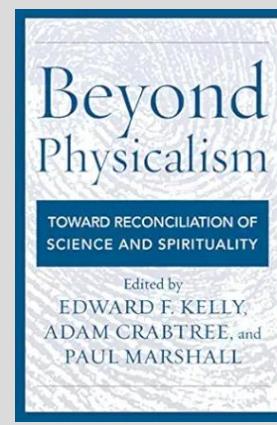
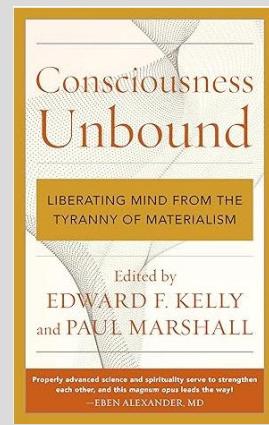
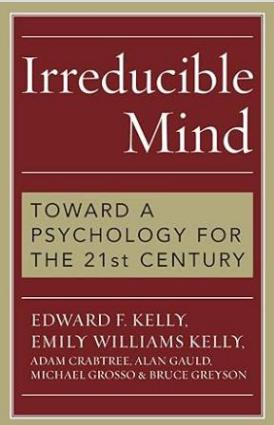
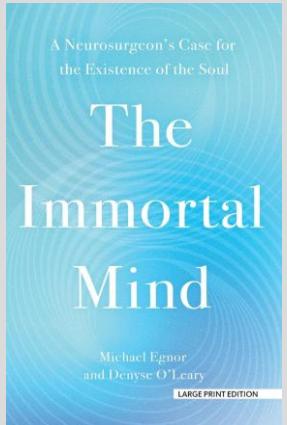
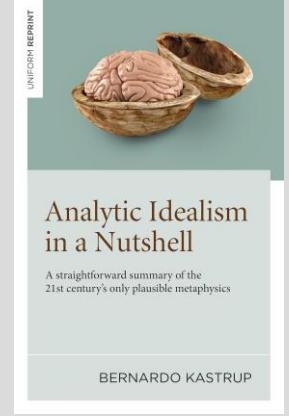
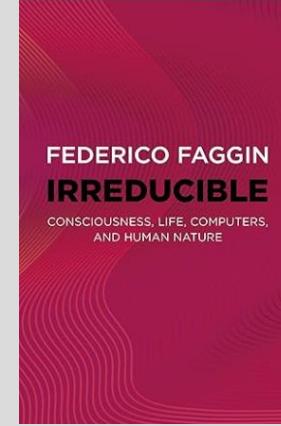
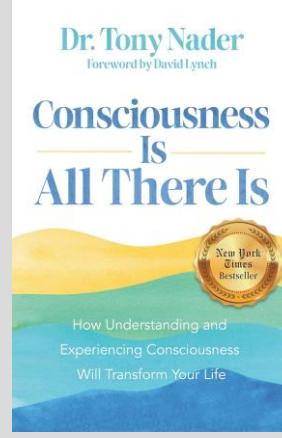
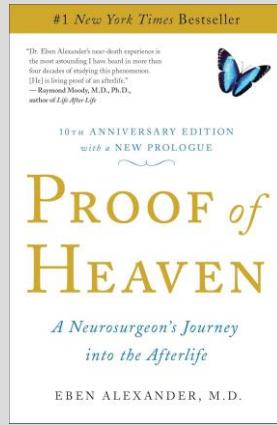
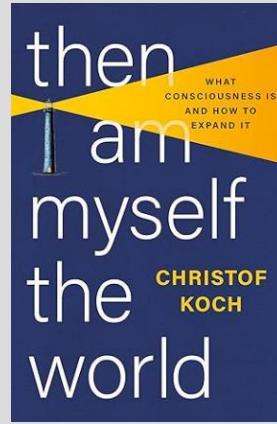
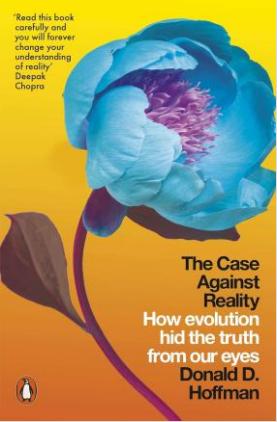
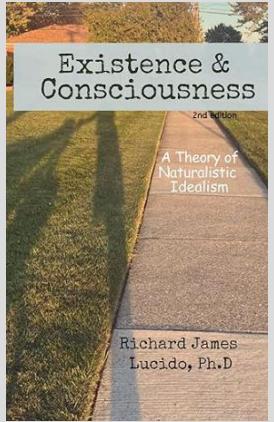
PHYSICALISM VS CONSCIOUSNESS

Human Experiences that cannot be explained by Physicalism

- ▶ Stand-still surgery for otherwise inoperable brain tumors or aneurysms
- ▶ Terminal lucidity in patients with severe dementia, stroke, brain tumors, etc.
- ▶ Chocking game that produces non-ordinary states of consciousness
- ▶ Holotropic breathwork
- ▶ GLOC: G-force induced loss of consciousness in centrifuges
- ▶ Psychedelics: producing intense-non-local, transpersonal experiences while brain activity is subdued
- ▶ Other transpersonal experiences: Transcranial Magnetic Stimulation (TMS), Savant syndrome (exceptional abilities),
- ▶ Altered states & mystical experiences: Psychography, NDEs, Mirror gazing
- ▶ Intuition, insights, creativity, and various Psi phenomena
- ▶ Etc.



EXAMPLES: PERSONAL EXPERIENCE & THEORIES



UNIVERSAL CONSCIOUSNESS AS FOUNDATIONAL FIELD

Abstract - AIP Advances November 2025 (Volume 15, Issue 11)

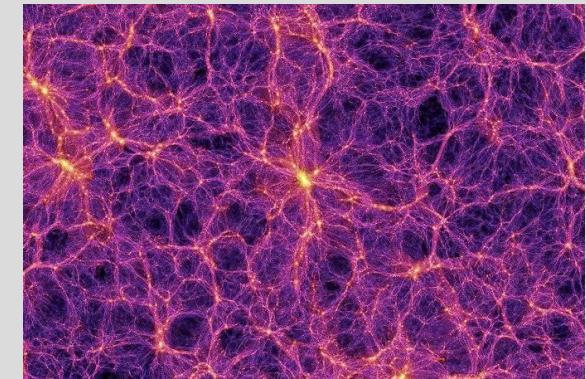
<https://pubs.aip.org/aip/adv/article/15/11/115319/3372193/Universal-consciousness-as-foundational-field-A>

This paper presents a novel framework that integrates consciousness with fundamental physics, proposing that consciousness is not an emergent property of neural processes but a foundational aspect of reality. Building upon insights from quantum field theory and non-dual philosophy, a model based on the three principles of universal mind, universal consciousness, and universal thought is introduced. These principles describe an underlying, formless intelligence (mind), the capacity for awareness (consciousness), and the dynamic mechanism through which experience and differentiation arise (thought). Within this framework, the emergence of space-time and individual awareness is modeled mathematically by treating universal consciousness as a fundamental field. Differentiation into individual experience occurs via mechanisms such as symmetry breaking, quantum fluctuations, and discrete state selection—paralleling established concepts in physics, including Bohm's implicate order, Heisenberg's potential, and Wheeler's participatory universe. This model suggests that the apparent separateness of individual consciousness is an illusion, with all experience ultimately arising from a unified, formless substrate. The framework aligns with emerging theories in quantum gravity, information theory, and cosmology that posit classical space-time as emergent from a deeper pre-spatiotemporal order. It offers a non-reductionist alternative in neuroscience, suggesting that consciousness interacts with physical processes as a fundamental field. By drawing from insights from physics, metaphysics, and philosophy, this conceptual framework proposes new directions for interdisciplinary inquiry into the nature of consciousness and the origins of structure and experience

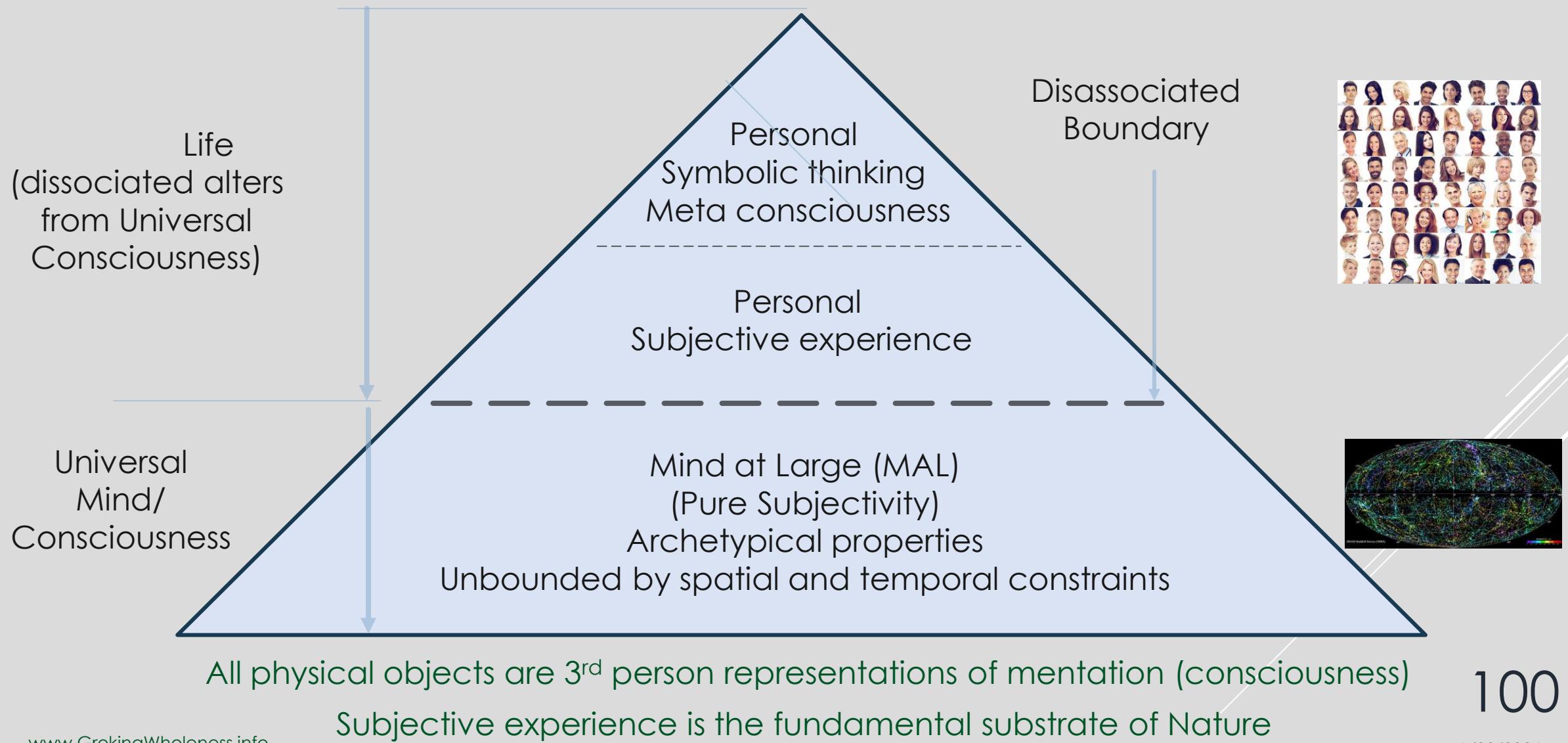
ANALYTICAL IDEALISM POSTULATES

(ARTHUR SCHOPENHAUER, GEORGE BERKELEY, CARL JUNG, BERNADO KASTRUP, ...)

- ▶ Phenomenal Consciousness (Universal mind)
 - ▶ Ontological primitive Life (1st person view) is a dissociation of Universal mind
 - ▶ Metabolizes
- ▶ All Physicality (3RD person view) is a projection of Mind at Large (MAL)
 - ▶ Mentality
- ▶ The reality we perceive is an interface
 - ▶ Mental image of Mind at large
 - ▶ Desktop / Airplane instrumentation panel metaphors
 - ▶ Entropy
- ▶ Memory and Experience (e.g. phenomenal consciousness)
 - ▶ Non-local and unbounded
- ▶ Agency (causal power)
 - ▶ Exists in embodied form



ANALYTIC IDEALISM EMERGING VIEW

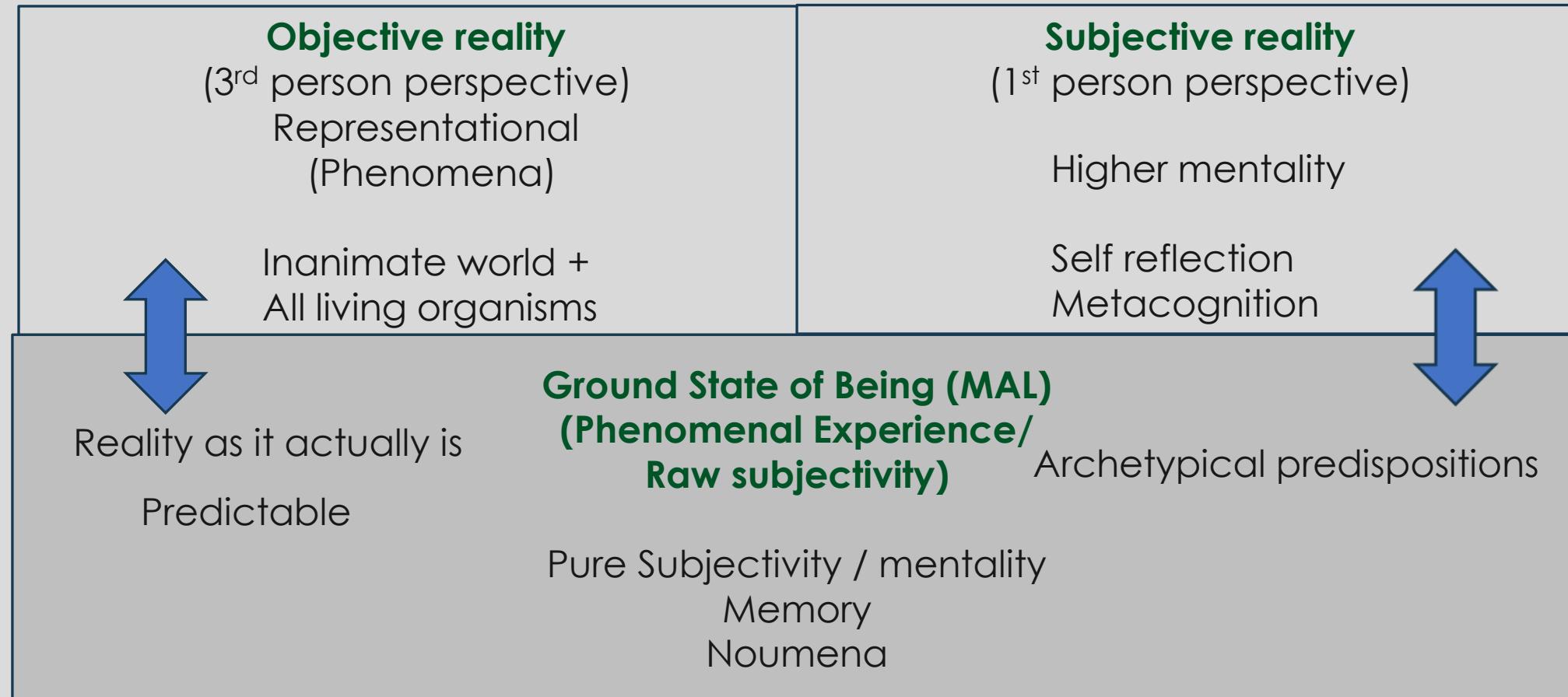


UNIVERSAL CONSCIOUSNESS - DREAM ANALOGY

- ▶ The dreaming mind
- ▶ The avatar
- ▶ The objects of the dream
- ▶ The wakeup realization



ASPECTS OF ANALYTIC IDEALISM



IMPLICATIONS – SURVIVAL BEYOND DEATH



Excerpt: Bernardo Kastrup on Near Death Experiences

<https://www.youtube.com/watch?v=Cuo2DJtulcA>

EXPLORATIONS INTO THE NATURE OF CONSCIOUSNESS

A BRIEF OVERVIEW OF CONSCIOUSNESS

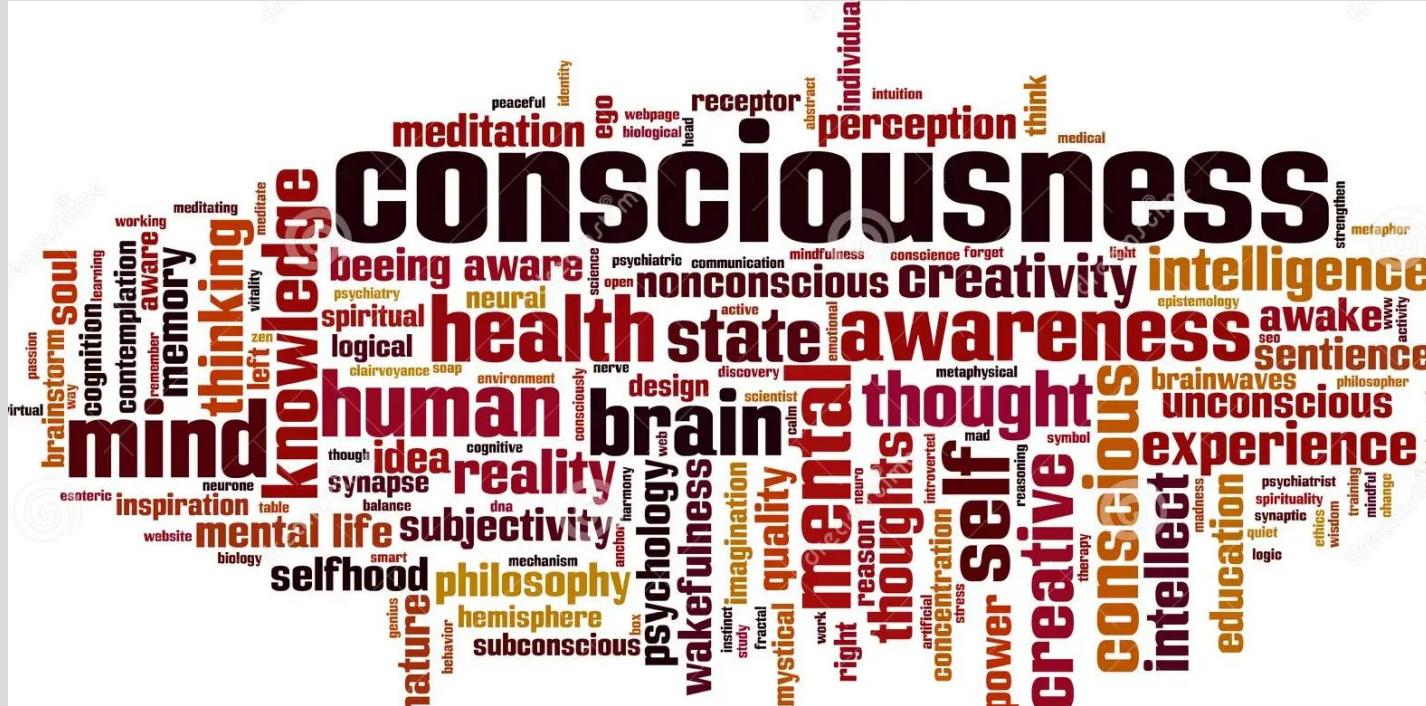
PART 8

Bob Staretz

www.GrokingWholeness.info

2025

CONSCIOUSNESS MEDITATION



Reality Under Idealism

There is only one Consciousness

Phenomenal Consciousness (pure subjectivity + memory)

1st Person Perspective (the subjective world)

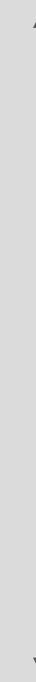
Mentality - Dissociated from all other consciousness

3rd Person Perspective (the objective world)

Physicality – Mind at Large (MAL)

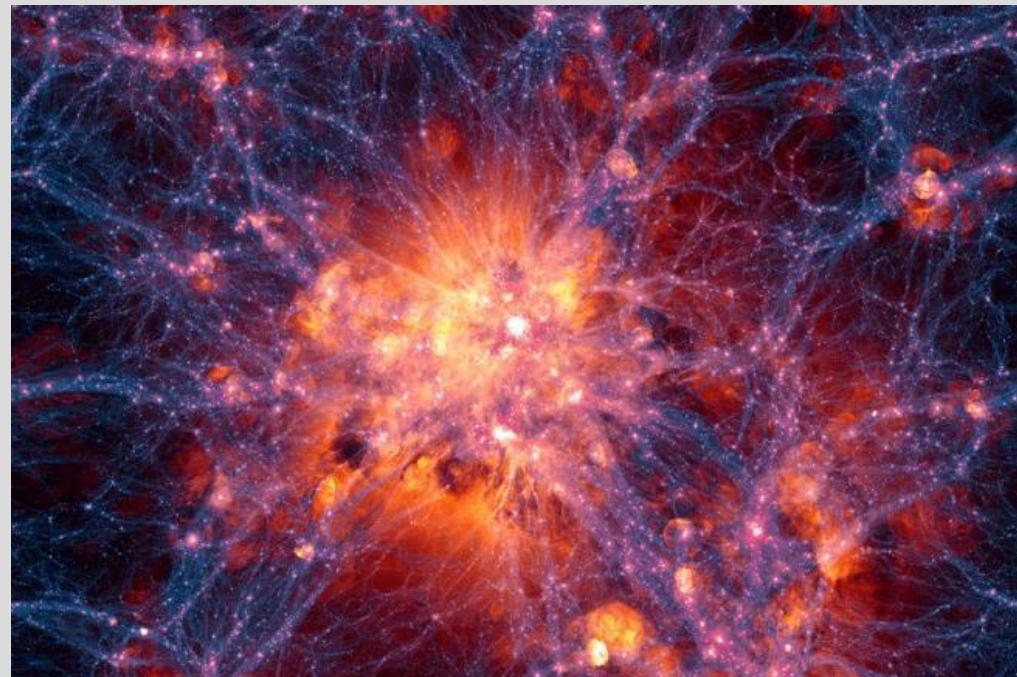
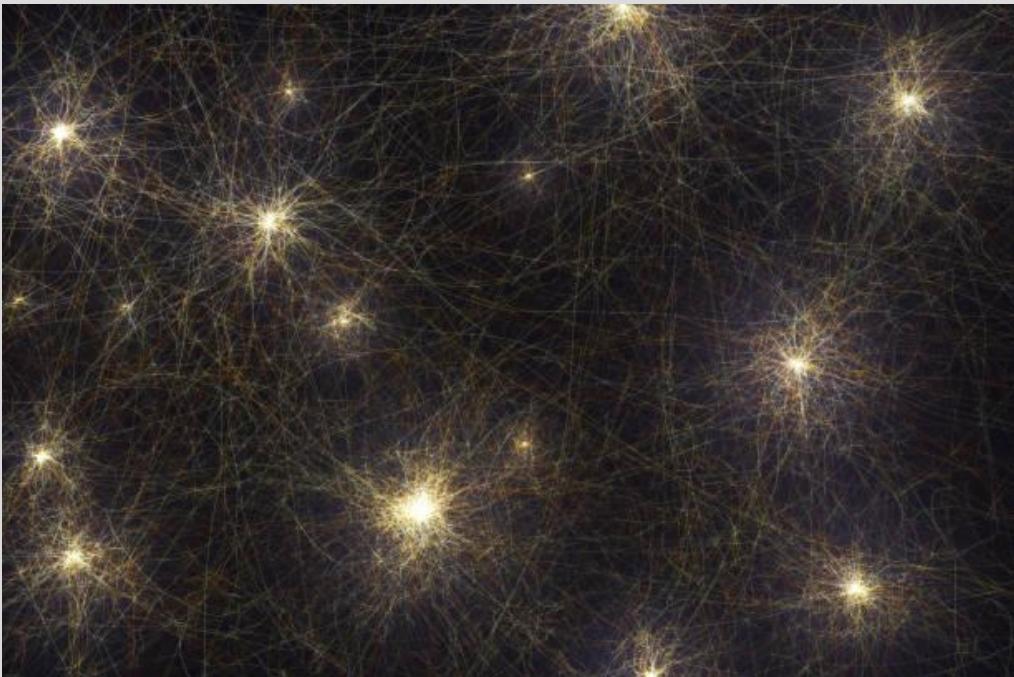
Cosmic / Universal Consciousness

Consciousness does not exist within us – we exist in (Universal) Consciousness



LARGE SCALE STRUCTURE OF THE UNIVERSE

(Third person perspective)



A neural network?

107

Cognition / Action / Feedback Loop

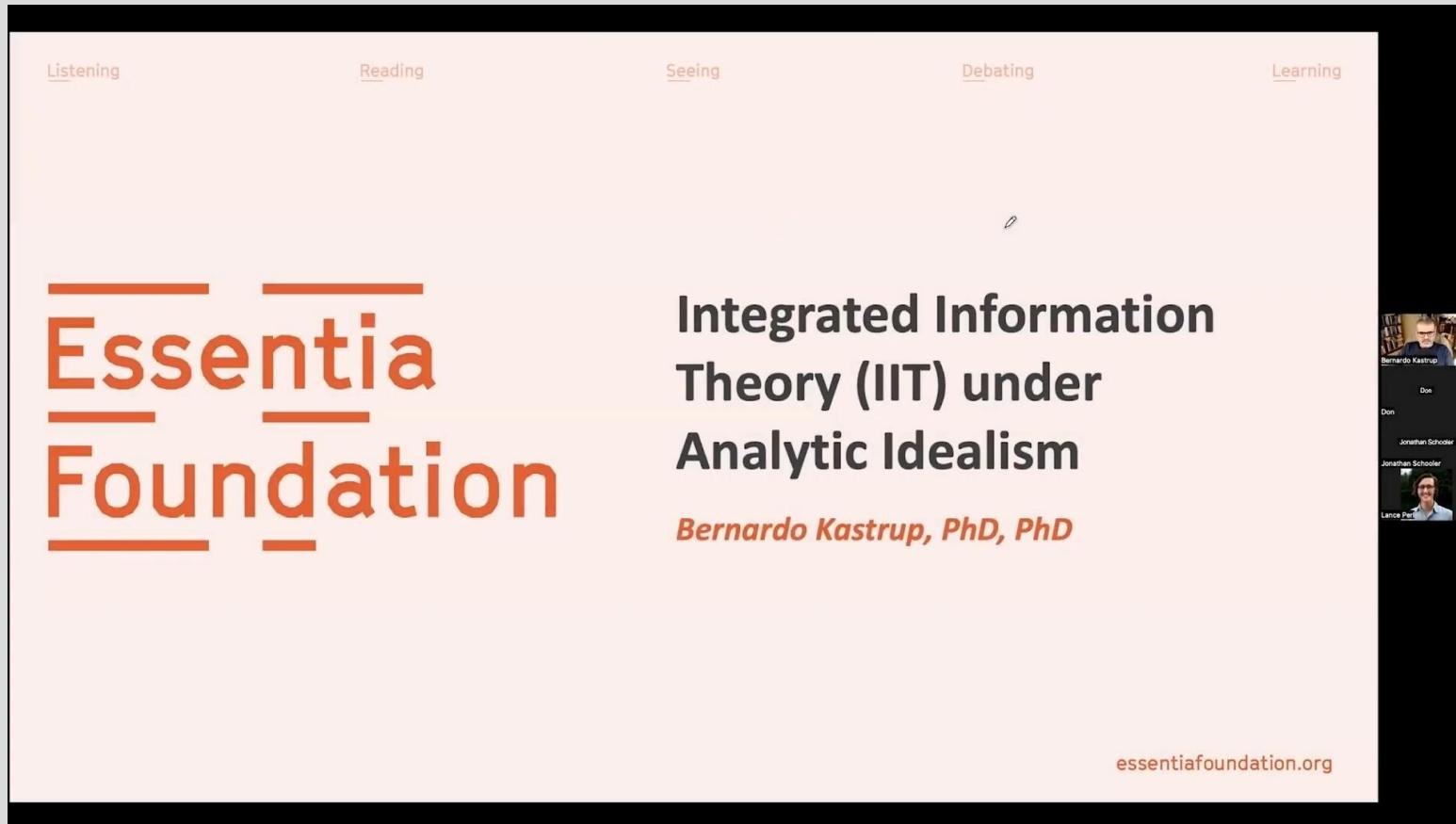


Our view of ultimate reality is filtered by our own mind and by the dissociation from all other local minds and from Universal Mind.

Under certain conditions these dissociative boundaries can become somewhat porous enabling extraordinary abilities and experiences.

VIDEO - A NEW MODEL OF CONSCIOUSNESS

BERNADO KASTRUP



CONSCIOUSNESS IS ALL THERE IS

- ▶ At the fundamental substrate of reality there is only one universal (subjective) consciousness
- ▶ Everything is conscious or exists in consciousness
- ▶ All life is dissociated aspects of universal consciousness
- ▶ Physicality is a 3rd person perspective of consciousness
- ▶ Space and time are mental constructs that organize experience
- ▶ Consciousness is unbounded
- ▶ Consciousness assigns meaning to experience
- ▶ There is only oneness
- ▶ Self excitable (causal powers)
- ▶ Exists for itself



“The more you look at the Universe, the more it seems like a great thought”
Sir James Jeans

CONSCIOUSNESS - THE ONTOLOGICAL PRIMITIVE

- ▶ Consciousness is Incontrovertible
 - ▶ If there is an **experience**, there is an experien**ce**
- ▶ Empirical Evidence
 - ▶ Quantum Physics
 - ▶ Neuroscience & Neurophysiology
 - ▶ Biology, medicine
- ▶ Explanatory power
 - ▶ Brain impairments or pathologies
 - ▶ Terminal Lucidity
 - ▶ Savant syndrome
 - ▶ Non-ordinary states of consciousness
 - ▶ NDEs, OBEs, etc.
 - ▶ Synchronicities
 - ▶ Psi phenomena
 - ▶ Etc.

Essentia
Foundation



www.essentialiafoundation.org

THE ONE IS IN THE MANY, THE MANY IS IN THE ONE



Oneness is all there is

We exist in (Universal) Consciousness; the cosmic mentality that makes up everything

WHY IS THERE SOMETHING, NOT NOTHING

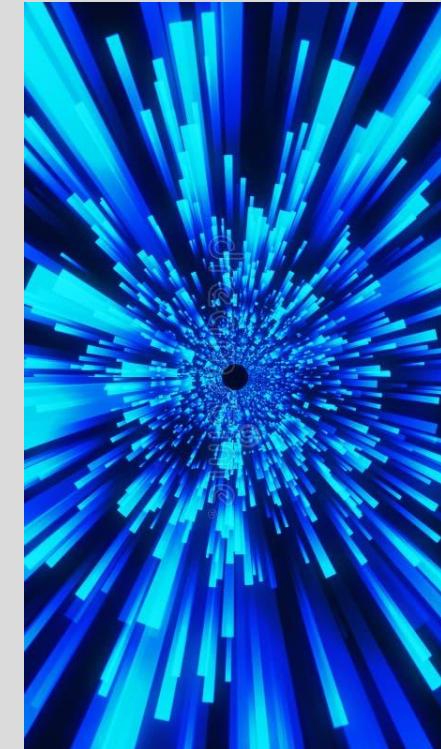
BERNADO KASTRUP



The cosmic itch behind all creativity & creation

WHERE HUMANITY IS & AND WHERE IT IS HEADED

- ▶ Physicalism (prevailing view)
 - ▶ Consciousness is an epiphenomena of matter
 - ▶ Consciousness ends at bodily death; life has no meaning nor purpose
 - ▶ Applauds consumption and accumulation of material resources
 - ▶ Encourages Individualism and separation
 - ▶ Promotes nihilism and an epicurean lifestyle
 - ▶ Removes the fear of death the biggest fear in human history
- ▶ Analytic Idealism (emerging view)
 - ▶ Consciousness is the substrate for all reality and is unbounded by time and space
 - ▶ Matter is derived from consciousness
 - ▶ It restores meaning and purpose to the human condition
 - ▶ What is learned and/or experienced is never lost
 - ▶ There is only oneness and entanglement
 - ▶ It promotes empathy, altruistic behavior and the sanctity of life
 - ▶ Provides a much better understanding of the full breath human experience
 - ▶ A new model of wellness – one that promotes mind body interactions



TRANSCENDENT CONSCIOUSNESS

CHRIS BACHE, PhD

"That the universe is the manifest body of a Divine Being of unimaginable intelligence, compassion, clarity, and power,

that we are all aspects of this Being, never separated from it for a moment,

that we are growing ever more aware of this connection,

that physical reality emerges out of Light and returns to Light continuously,

that Light is our essential nature and our destiny,

that all life moves as One,

that reincarnation is true,

that there is a deep logic and significance to the circumstances of our lives,

that everything we do contributes to the evolution of the whole,

that our awareness continues in an ocean of time and a sea of bliss when we die,

that we are loved beyond measure and

that humanity is driving towards an evolutionary breakthrough that will change us and life on this planet at the deepest level."

THE NATURE OF EXISTENCE?

- ▶ The ontological primitive of the universe is consciousness
 - ▶ There is only Oneness
 - ▶ Reality is mental – space, time and matter
 - ▶ It is boundless with immense potentiality
- ▶ Consciousness is learning and evolving to satisfy its needs / desires / inherent archetypes
 - ▶ Trial and error
 - ▶ Self-organizing
 - ▶ Intelligent
 - ▶ Creative
 - ▶ Interactive / Participatory
 - ▶ Agential
- ▶ Through life (dissociated complexes from self) Consciousness is learning about itself
 - ▶ All knowledge and experienced gained is never lost



THE CONVERGENCE OF SCIENCE & SPIRITUALITY



PARTING THOUGHTS

*“I have trust that we humans can resolve the problems that we have created.
There is a Sanskrit saying that I subscribe to and I like very much”*

**“God sleeps in the minerals,
Awakens in plants,
Walks in the animals,
And thinks in mankind”**

Edgar Mitchell

FOR FURTHER INFORMATION

- ▶ Edgar Mitchell
- ▶ Benard Carr
- ▶ Bernado Kastrup
- ▶ Christoff Koch
- ▶ Christopher Bache
- ▶ Rupert Spira
- ▶ Donald Hoffman
- ▶ David Chalmers
- ▶ Giulio Tononi
- ▶ Bernard Carr
- ▶ Federico Faggin
- ▶ Michael Levin
- ▶ Rupert Sheldrake
- ▶ Plus many others
- ▶ Awaken.org
- ▶ Essentia Foundation
- ▶ Fetzer Institute
- ▶ Galileo Commission
- ▶ Global Coherence Pulse
- ▶ Heart Math Institute
- ▶ Humanities team
- ▶ Institute of Art and Ideas
- ▶ IONS
- ▶ Science and Non-Duality
- ▶ Science and Medical Network
- ▶ Tiny Blue Dot Foundation
- ▶ Plus many others