

The modern story of separation

- Nature is a machine
- Humans are separate from nature
- Humans are separate from each other
- Human progress arises from the conquest of nature
- The Earth is a resource to exploit for human benefit
- The purpose of life is to get wealthy and powerful



Integrating science and traditional wisdom





A new story of connectedness

"We are all interconnected in a web of meaning"





Existential questions we ask





Descartes: "I think, therefore I am"





Rene Descartes, 1596-1650

Human identity exists solely through our conceptualizing faculty

Animals—and our bodies—are mere machines



Animals are not machines



Elephants

- Communicate over hundreds of miles through infrasound
- Perform ceremonies over dead family members

Wolves

- Deep family commitment
- Males help raise young until they reach maturity

Dolphins & Whales

- Talk in local "dialects"
- · Call each other by name
- "Gossip" about those temporarily absent



Plants have a networked intelligence

Distributed intelligence of plants

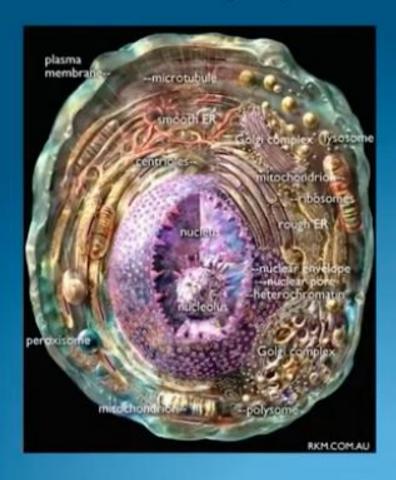
- Up to 20 different senses
- Act intentionally & purposefully
- · Learn & have memories
- Communicate with each other
- Allocate resources as a community



"Wood-wide web"



Even cells display stunning intelligence

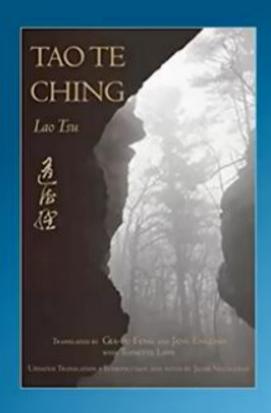


Awe-inspiring cellular intelligence

- Thousands of sensors & proteins
- Sends & receives hundreds of signals
- Awareness of itself & others
- Knows what to do
- Cooperates in community
- Makes decisions as a group



Tao Te Ching: Classic of Tao and Te





Tao

- "Way" or "path"
- How the forces of nature manifest in the world

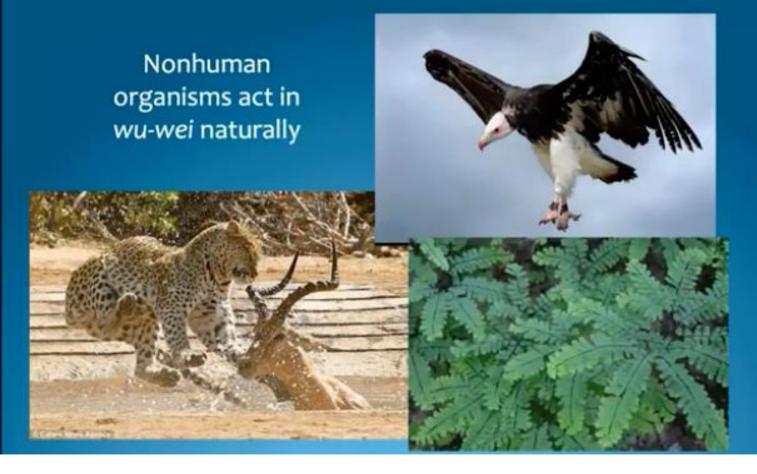
Te



- Spontaneity
- Intrinsic nature
- Inherent in all living things



Wu-wei ("effortless action") is the state of acting with te





What happened to humans?

- Using a fire to dry up a well
- Forcing water uphill to irrigate a mountainside

Yu-wei – Purposive action

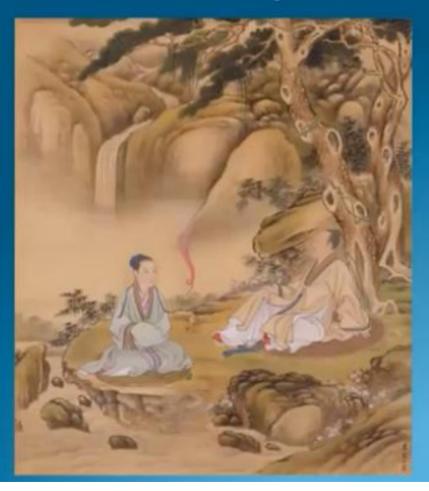
Wu-wei – Effortless action

"The world is a spirit vessel which cannot be acted upon. One who acts on it fails, one who holds on to it loses."

- Tao Te Ching



Taoist theory of civilization



"The men of old shared the placid tranquility which belonged to the whole world... That was what is called the state of perfect unity.

People lived in common with birds and beasts, and were on terms of equality with all creatures, as forming one family."

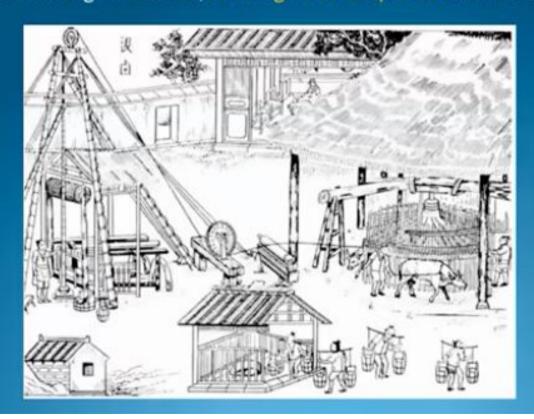
- Zhuangzi



Taoist theory of civilization

"People began everywhere to be suspicious. With extravagant orchestras and gesticulating ceremonies, men began to be separated from one another."

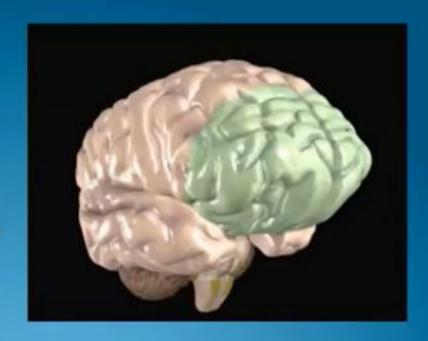
- Zhuangzi





The prefrontal cortex mediates our "yu-wei" cognition

- Symbolic thought
- Conceptualizing
- Planning
- Creating abstractions



Emergence of symbolic thought



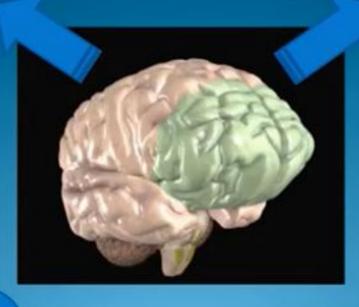
- Language
- Culture
- Art
- Tool-making



Dual human consciousness

Animate Consciousness

- Intuitive
- Fast
- Emotional
- Effortless



Conceptual Consciousness

- Analytic
- Slow
- Rational
- Effortful

Wu-wei

Yu-wei



Human challenge: integrate both systems in harmony





Existential questions we ask





Mainstream view of a split universe...

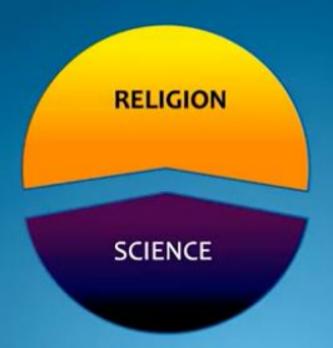
Universe

Transcendent God

Material world



Religion and science exist in different "domains"



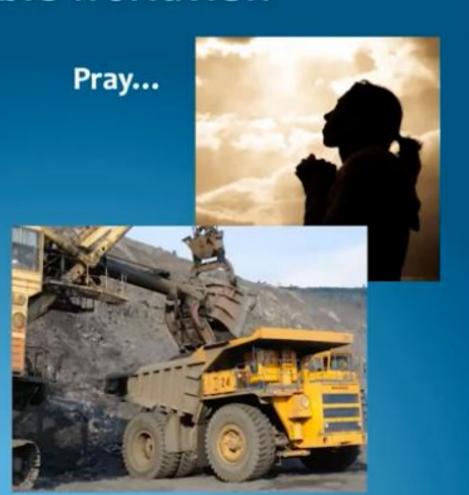


Our unsustainable worldview

Transcendent meaning

Mechanical world

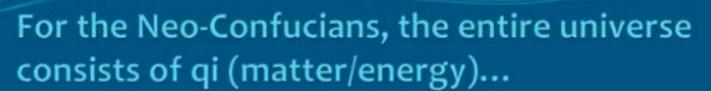
... and ransack Nature





"The School of the Tao" in Song Dynasty China



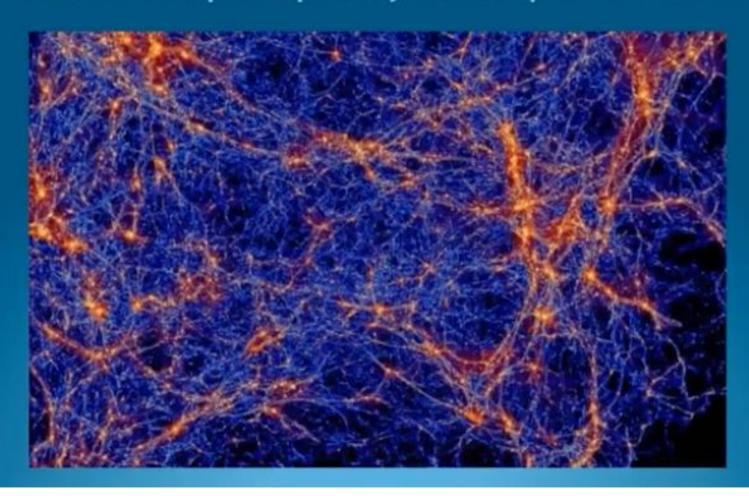








... and li: the principles by which qi is connected



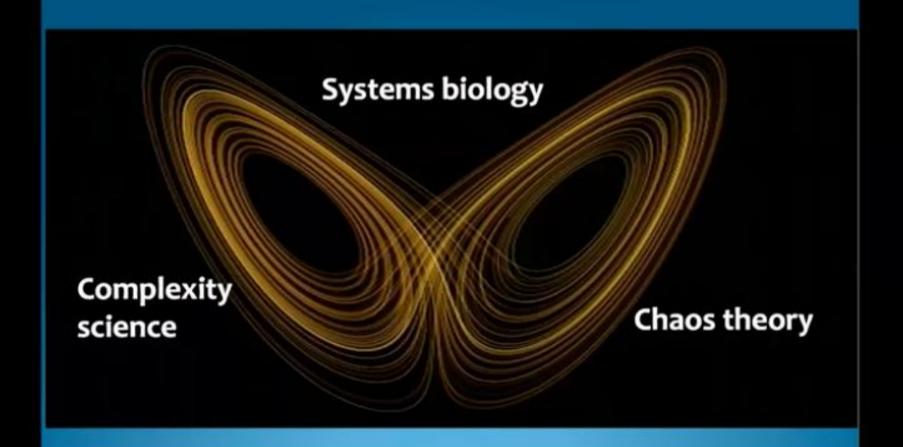


The totality of all the li in the universe was understood as the Tao





Systems sciences point to a connected universe





Everything is connected... in nonlinear ways







Each system is fractally connected within larger systems



Coastline

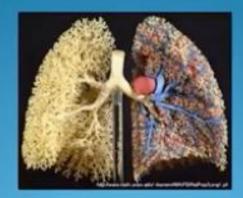
FRACTAL

- Pattern that repeats itself at different scales
- Self-organized activity
- Everywhere in the natural world

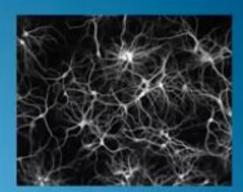




Lightning

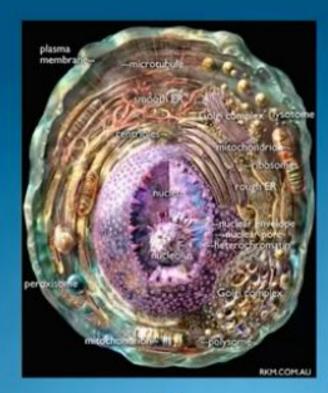


Lungs



Neurons





Cell





Cell









Organism











Ecosystem



Organism









Ecosystem





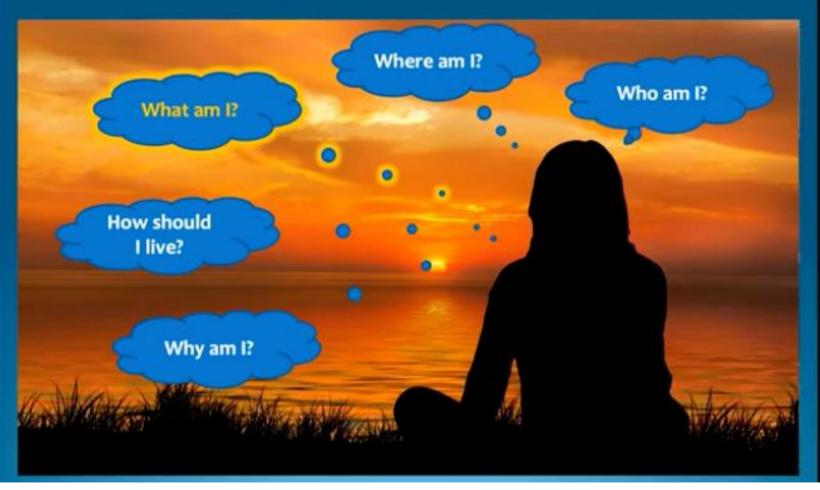




Existential questions we ask









The Tao in one's own nature

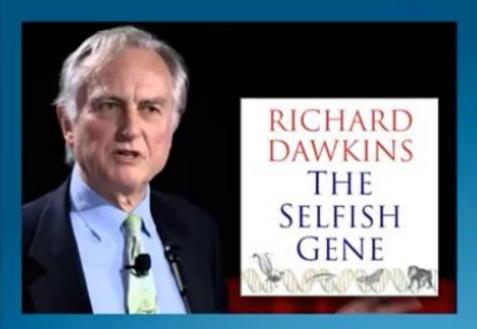


"If one wishes to know the reality of Tao, one must seek it in one's own nature."

Zhu Xi



Dawkins: "selfish gene"



"We, and all other animals, are machines created by our genes ... in a highly competitive world.

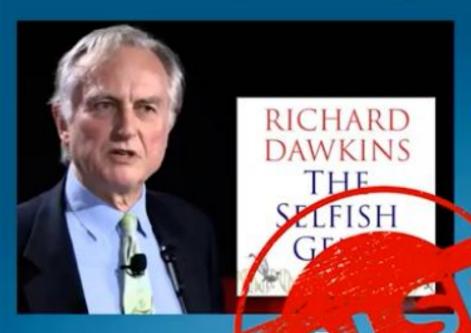
A predominant quality to be expected in a successful gene is ruthless selfishness"

The gene...

- ... is the fundamental unit of evolution
- ... dictates everything about the organism
- ... is inherently selfish and competitive



Dawkins: "selfish gene"



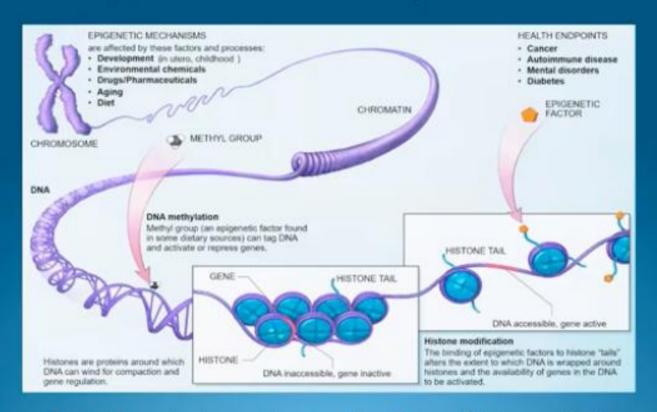
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ne fre la plution the organism and competitive



Genes are part of an iterative process with the cell



→ A vibrant, dynamic, circular flow of interactivity



Genotype as artist's palette

A repertoire of capabilities that the cell can select based on its particular needs as determined by the environment.





Genotype as artist's palette

Grasshopper



Gentle, solitary

SAME DNA

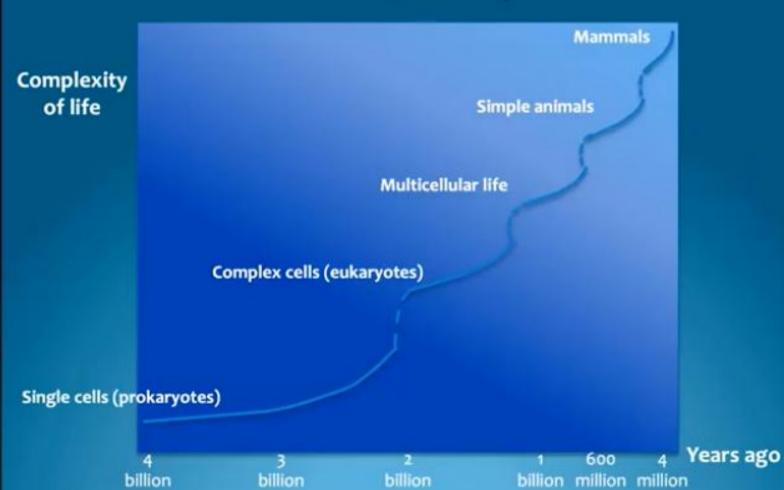


Locust

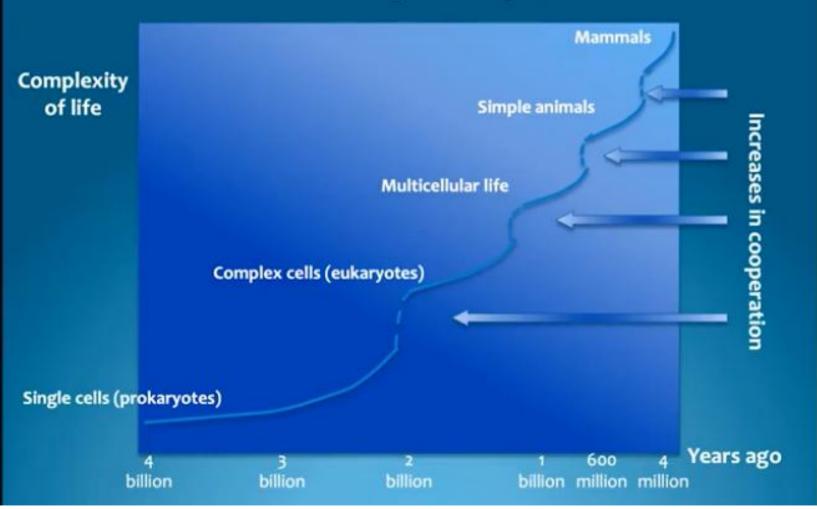


Aggressive swarms

Evolution of complexity of life



Evolution of complexity of life





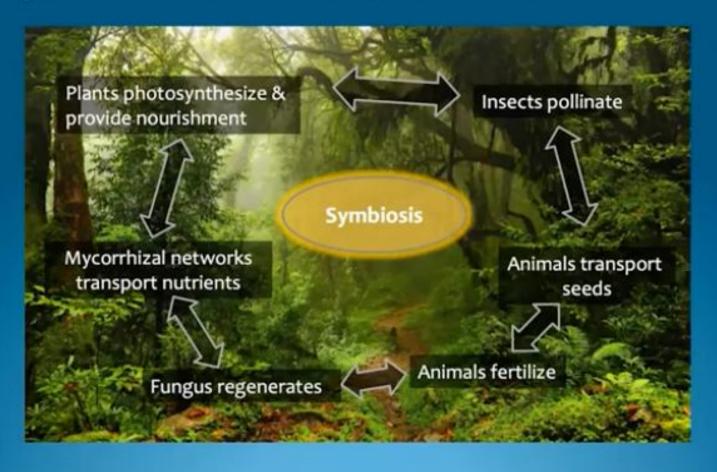
Life evolved through cooperation



"Life did not take over the world by combat but by networking" – Lynn Margulis



Symbiosis: the harmonic dance of life





Organisms are self-organized, fractal dynamic patterns

Organisms as "resilient patterns in a turbulent flow - patterns in an energy flow." "It is becoming increasingly clear that to understand living systems in any deep sense, we must come to see them not materialistically, as machines, but as stable, complex, dynamic organization." - Carl Woese







The dominant culture's mindset



- Humans are intrinsically selfish and greedy
- Selfish behavior by individuals in the best interest of everyone





Dawkins: "Overcome our selfish genes"

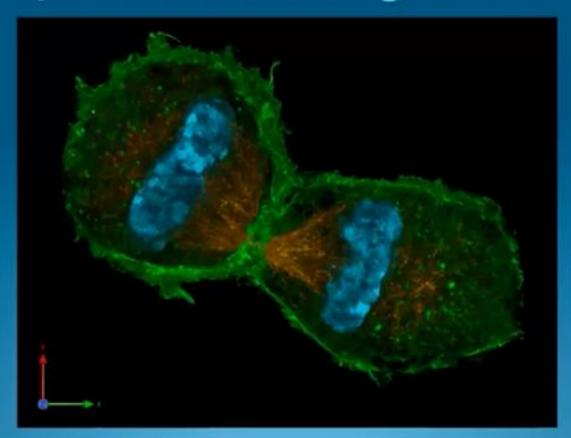


Richard Dawkins

"Let us try to teach generosity and altruism, because we are born selfish. Let us understand what our own selfish genes are up to, because we may then at least have the chance to upset their designs."



Autopoiesis: life's self-generation

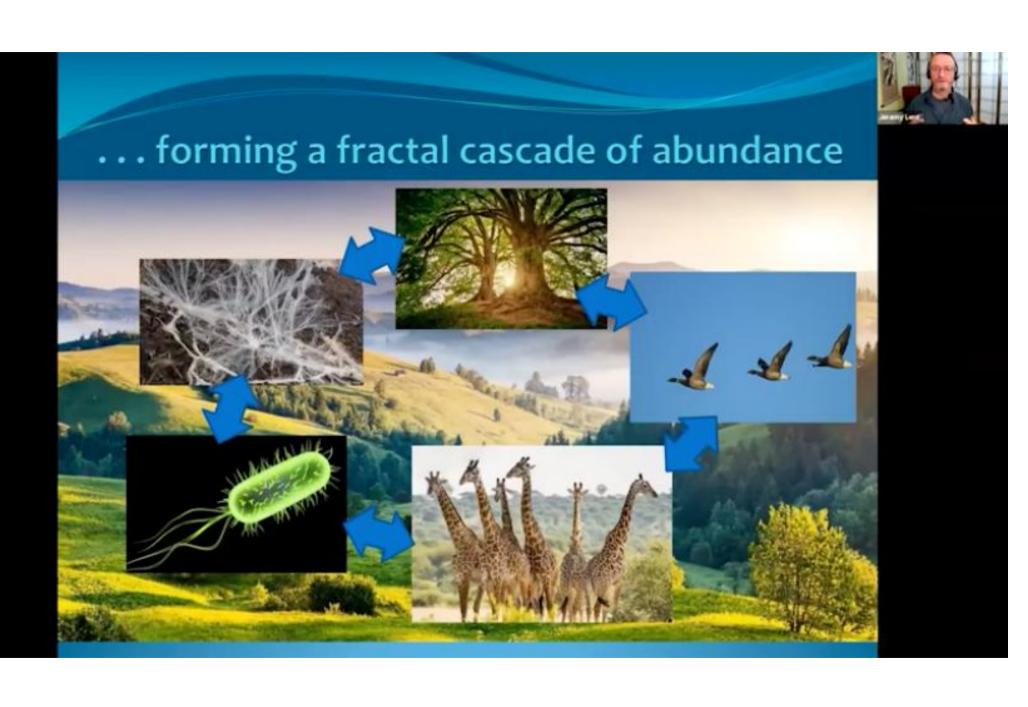


Life is a continual process of self-organized creativity

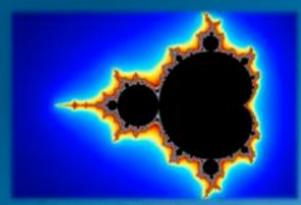


The deep purpose of life is to create more life





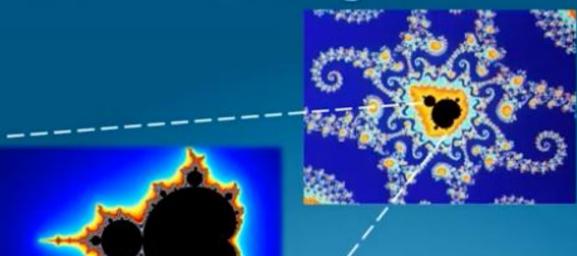




Human mind-body organism



Human flourishing is fractal

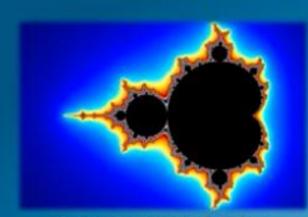


Community

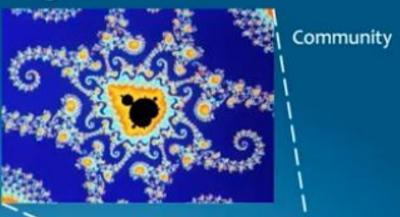
Human mind-body organism



Human flourishing is fractal



Human mind-body organism





Living Earth



Lakota: Mitakuye Oyasin | "We are all related"





Flourishing based on our intrinsic connectedness

Within ourselves





Flourishing based on our intrinsic connectedness

Within ourselves



With the natural world









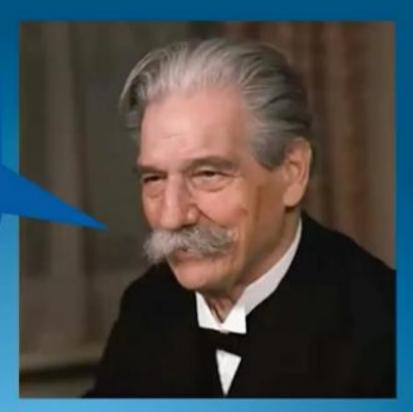
With the living Earth

With



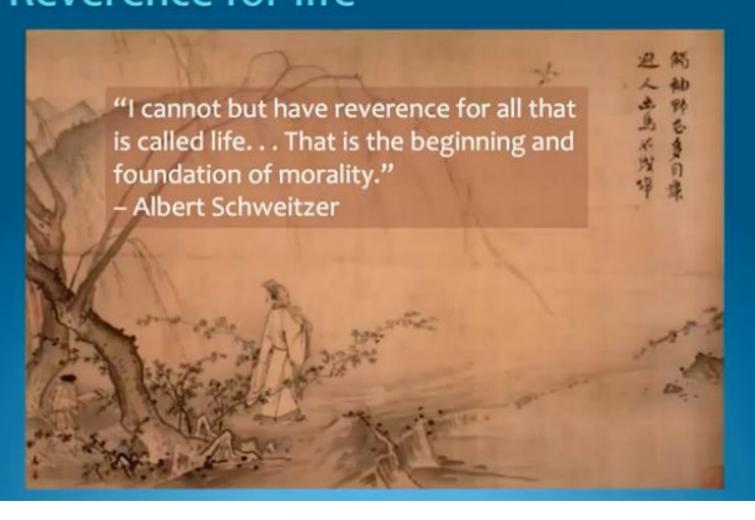
An alternative, life-based value system

"I am life that wills to live, in the midst of life that wills to live."



Albert Schweitzer







Existential questions we ask





Existential questions we ask





Weinberg: the pointless universe



universe seems comprehensible, the more it also seems pointless"

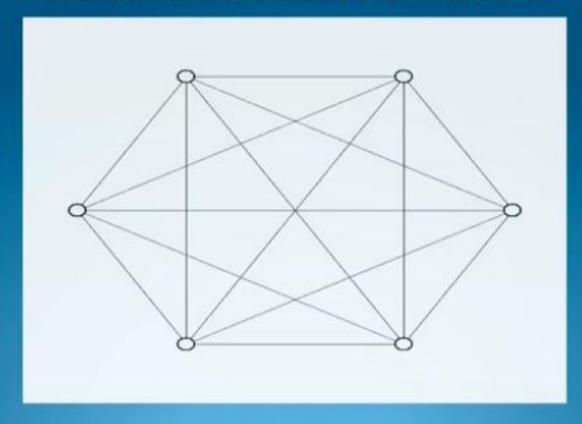
"The more the

Steven Weinberg



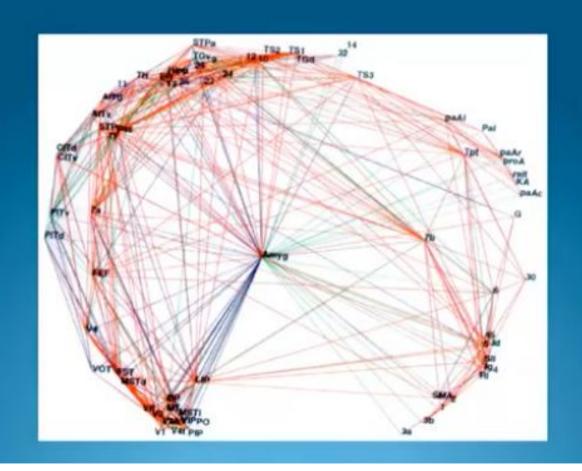
Meaning is a function of connectedness

As the number of connections increases . . .



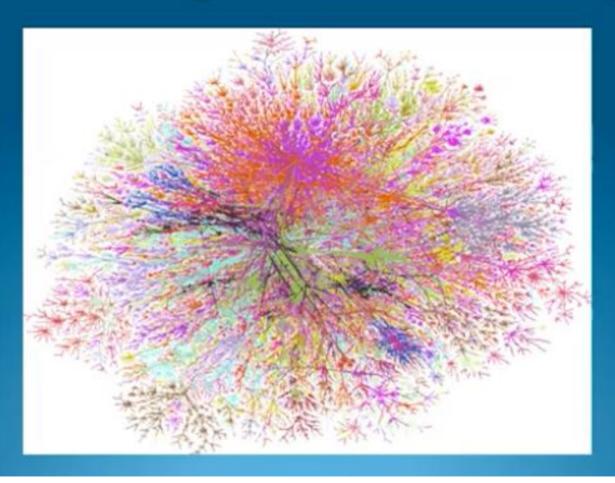


... they lead to a phase transition...





... and emergence of new meaning





When words connect...

Word

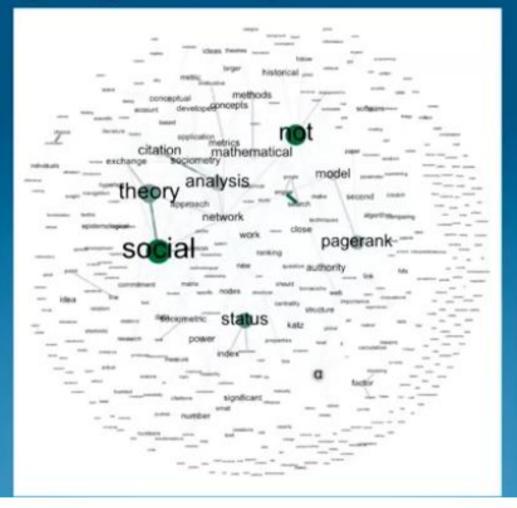
Word

Word

Word

Word

... language emerges











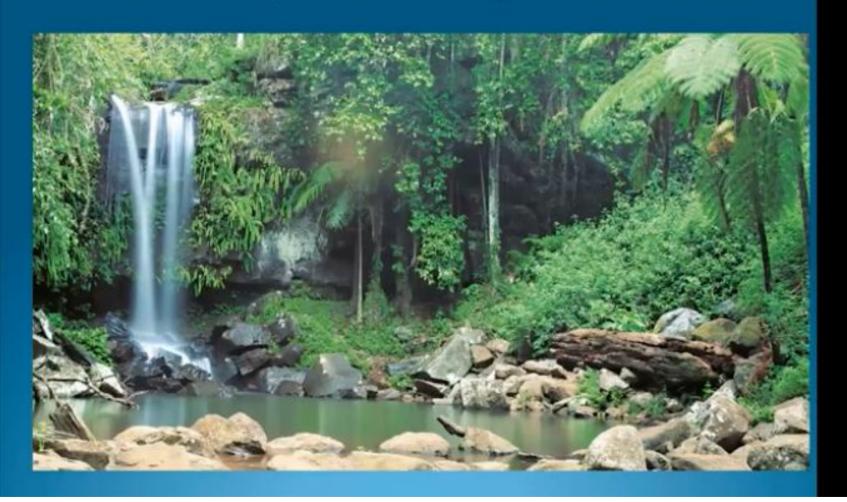


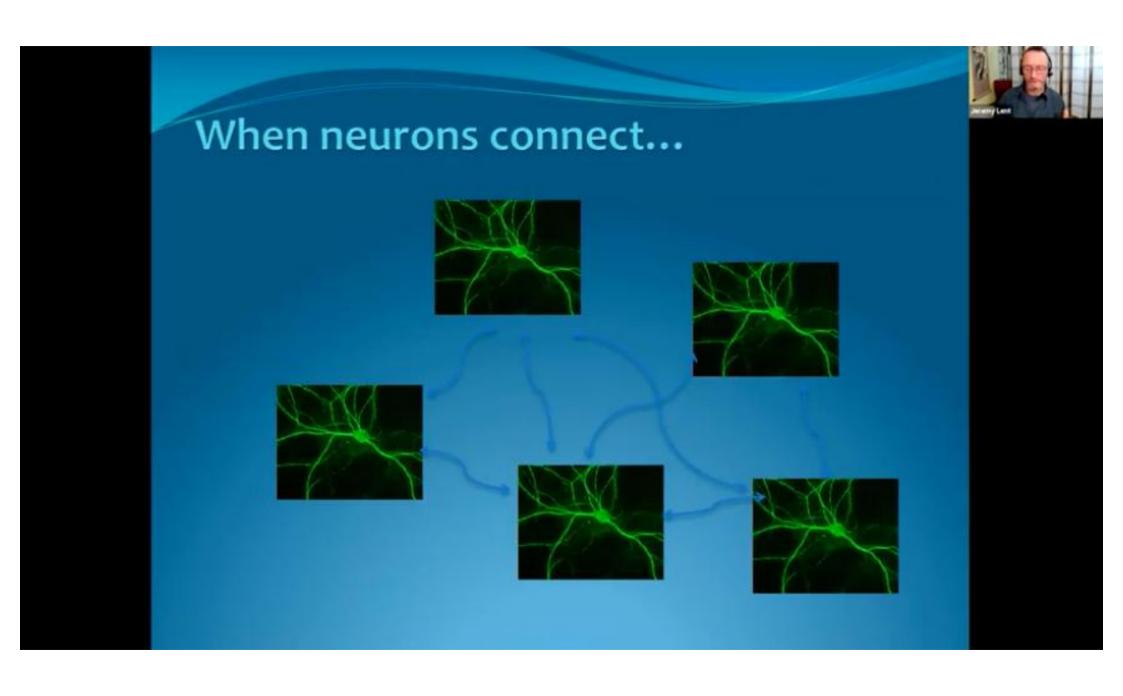






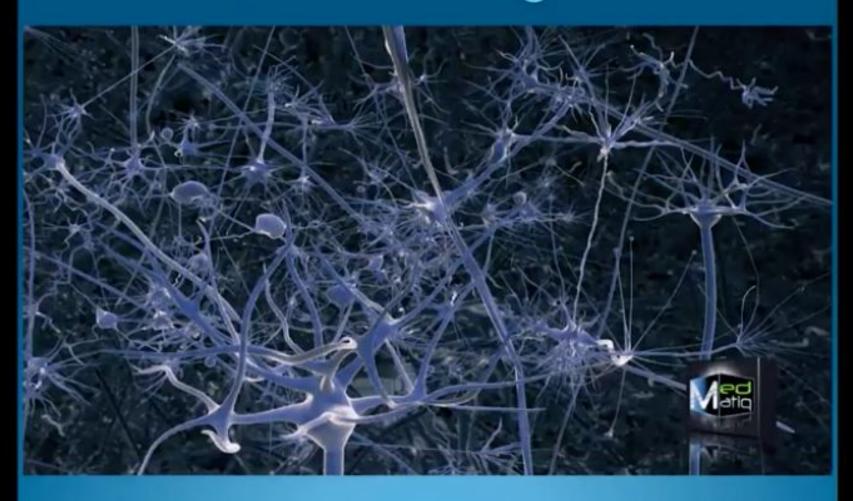
... an ecosystem emerges





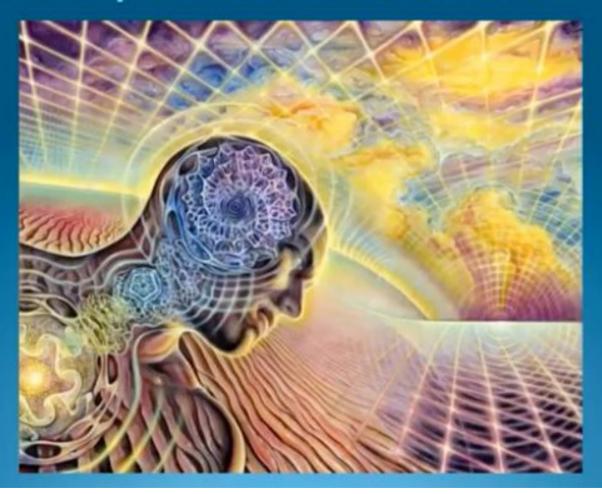


... consciousness emerges





"Peak experience" of oneness





Implications of connectedness

Everything you do in your life...

creates li ripples which affect...

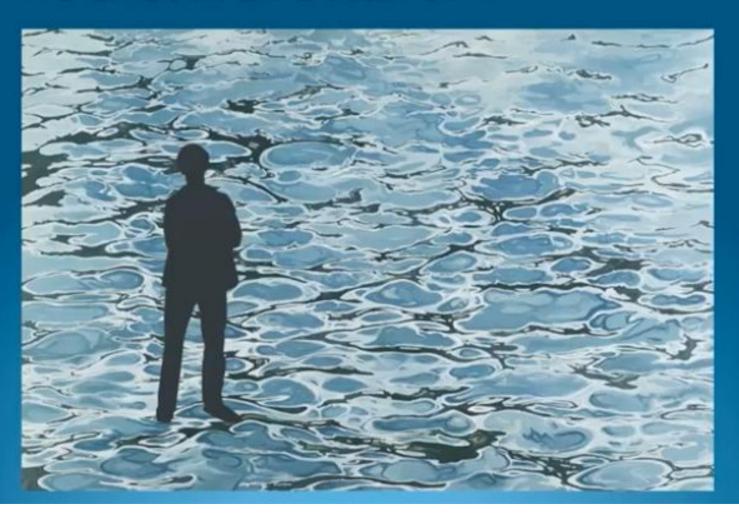


everything else in the universe

Principle: the ultimate connectivity of everything in the cosmos

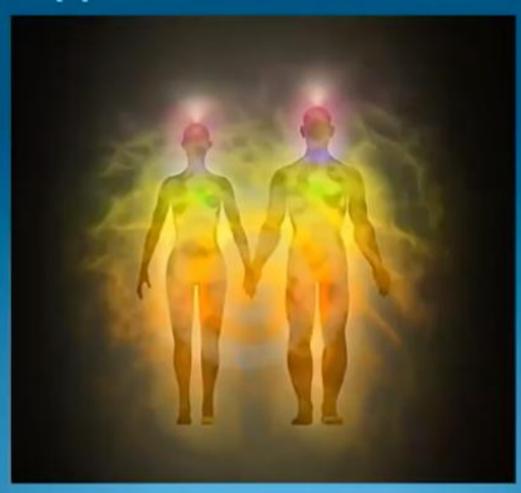


We exist in an ocean of li





The li ripples exist within each of us





The choices we make . . .

Personal choices and actions

Engaging in the broader political process

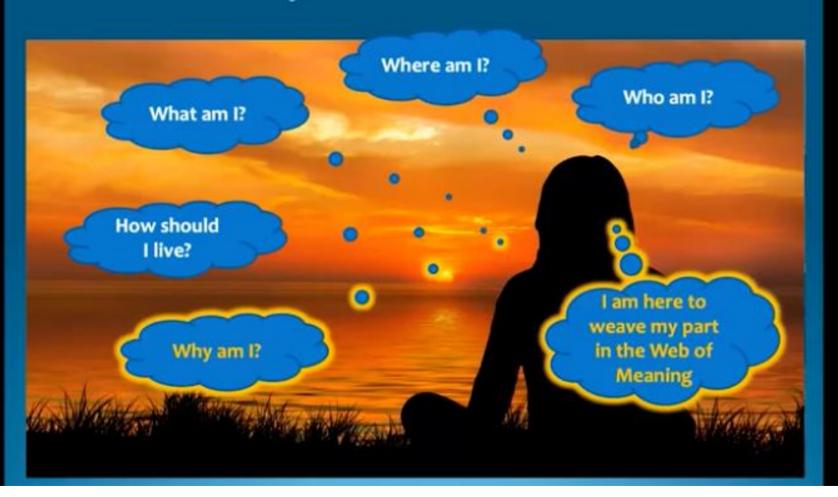
Participating in regenerative community

... weave the Web of Meaning



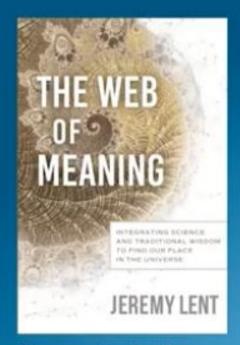


Existential questions we ask



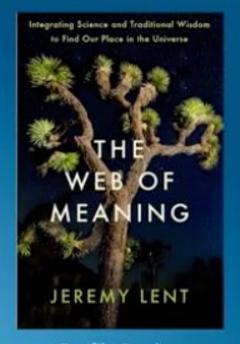






New Society Publishers USA & Canada The Web of Meaning
Integrating Science and
Traditional Wisdom to
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Publication June/July 2021



Profile Books UK & Commonwealth

