The Two Dimensions of Time

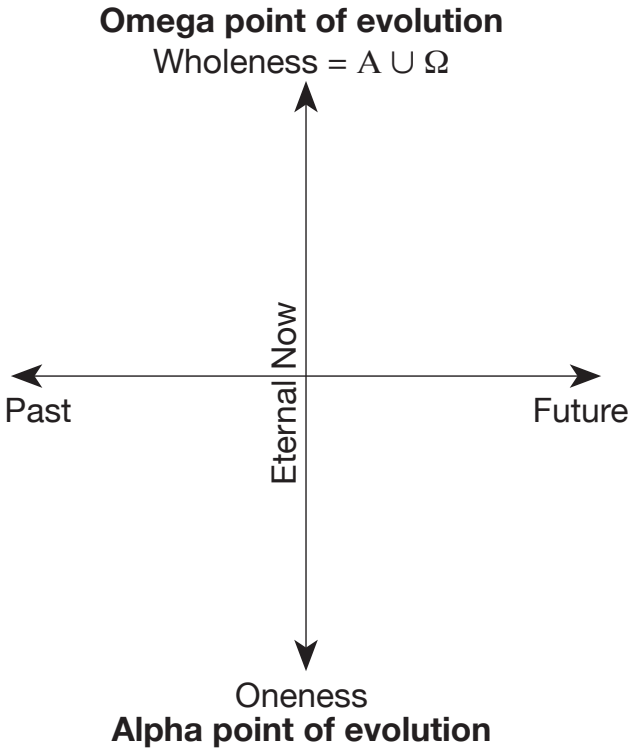
Handout from poster presentation for

Science and Nonduality Conference

On the Edge of Time

San Rafael, California, USA

October 2011



Paul Hague

wholeness at paragonian point org

Handout available from: http://www.paragonian.org/pdf_files/two_dimensions_of_time_handout.pdf

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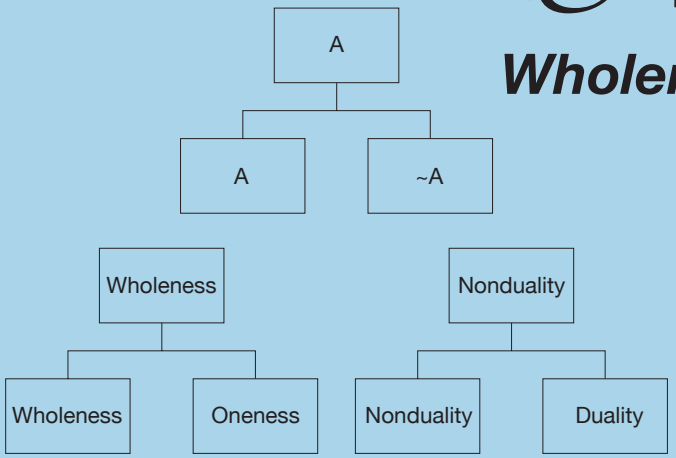
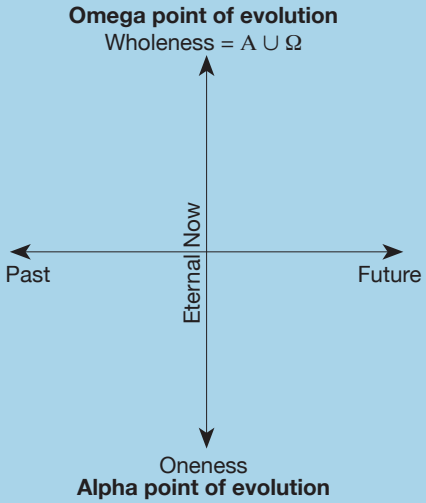
The Principle of Unity



Wholeness is the union of all opposites

$W = A \cup {\sim}A =$ 陰陽 = ॐ

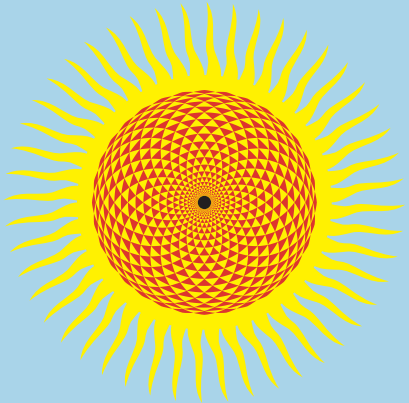
There is a primary-secondary relationship between basic opposites, the vertical dimension of time being primary. We thus live our lives upside down by putting second things first, by putting the cart before the horse.



The Principle of Unity is the fundamental design principle of the inherently paradoxical Universe, an irrefutable, universal truth, applicable in all situations. It is the Ultimate Integral Yoga, which Heraclitus called the Hidden Harmony, depicted in the *T'ai-chi-t'u* symbol, the 'Diagram of the Supreme Ultimate', the union of *yin* and *yang*. Hence, we can all say, with John of Patmos, "I am Alpha and Omega, the beginning and the end, the first and the last."

By intelligently invoking the Principle of Unity every moment of every day, individual consciousness expands and deepens to become coterminous with Consciousness itself at evolution's glorious culmination: the Singularity in time.

Consciousness is Ultimate Reality, the Eternal Truth. The conjectured multiverse, including our bodies and their brains, is an abstraction from or an appearance in the vast ocean of Consciousness, never separate from the Absolute Whole for an instant, a multidimensional extension of David Bohm's holomovement, which unified quantum and relativity theories.



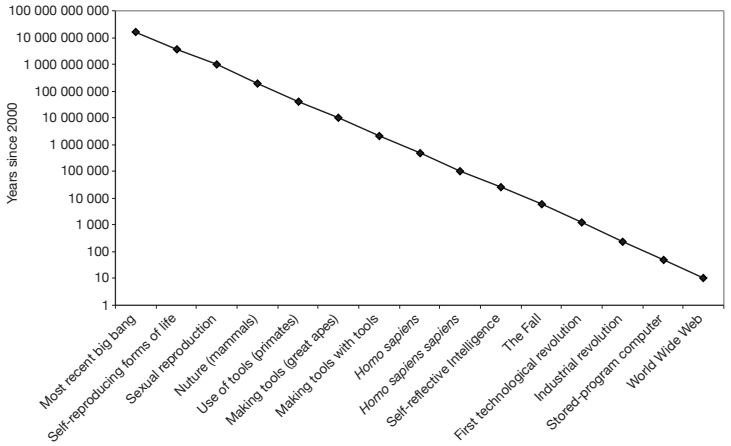
Coherent, radiant light of Consciousness: Yantric symbol of the holographic Universe, exquisitely encapsulated in William Blake's *Auguries of Innocence.*

To see a World in a Grain of Sand,
And a Heaven in a Wild Flower,
Hold Infinity in the palm of your hand,
And Eternity in an hour.

Our Evolutionary Story

Major Evolutionary Turning Points

Evolution is an accumulative process of divergence and convergence, proceeding in an accelerating, exponential fashion by synergistically creating wholes that are greater than the sum of the preceding wholes through the new relationships that are formed by the creative power of Life emanating from Consciousness: Aditi in the *Rig Veda*, the Divine, Cosmic matrix.

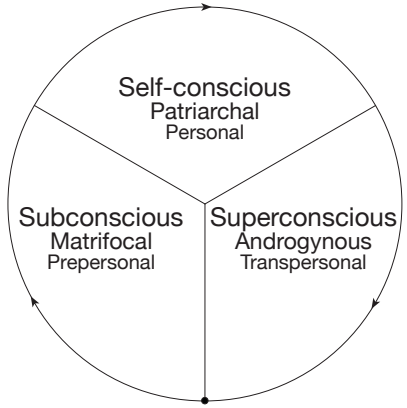


- Periods between turning points diminishing exponentially
- Factor is reciprocal of δ, Feigenbaum constant, 4.6692
- Sum of such an infinite geometric series has a finite limit
- E.g. $1+\frac{1}{2}+\frac{1}{4}+\frac{1}{8}+\frac{1}{16}+\ldots=2$
- Infinite series of evolutionary turning points reached its finite limit about 2004.
- Evolution has reached its accumulation point, in systems theory terms—a mathematical singularity in time.
- Like the bifurcations of a dripping tap, the evolutionary tap is now turned full on, with no more discrete turning points to be discerned.

Four stages of evolution

Evolutionary stages, years ago					Transition stages, years ago		
Teilhard	**Type**	**Start**	**End**	**Duration**	**Start**	**End**	**Duration**
Prelife	Physical	14,000,000,000	4,500,000,000	9,500,000,000	4,500,000,000	3,500,000,000	1,000,000,000
Life	Biological	3,500,000,000	25,000	3,500,000,000	25,000	5,000	20,000
Thought	Noological	5,000	50	5,000	50	-50	100
Superlife	Spiritual	-50	-300	250			

Three phases of human phylogeny



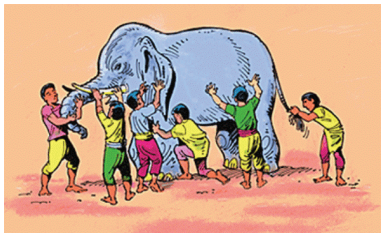
Formless Alpha/Omega Point of Evolution

The latest effects of these fourteen billion years of evolution are becoming manifest through the innovative mental energies of scientists and technologists, as we see in the hyperexponential expansion of the Internet in our Information/Knowledge Society. But what is *really* causing us to drive the pace of evolutionary change at such unprecedented rates of acceleration?

We cannot understand ourselves or our computers within the materialistic, mechanistic, and monetary infrastructure of Western civilization. Because evolution has been more divergent than convergent for the past several thousand years, society has become fragmented into religious and national factions, academic specialization, and the division of labour in the workplace.

Healing the Fragmented Mind in Wholeness

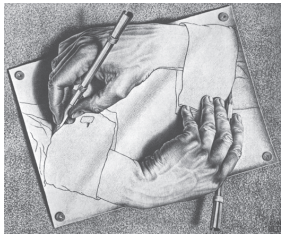
As our fragmented minds have created our war-torn, divisive society, if we are to stop running our business affairs blindfold, consciously awakening and intelligently adapting to our rapidly changing environment, evolution needs to become pristinely convergent, healing our deluded, schizoid minds in transcultural, transdisciplinary Wholeness.



In the familiar metaphor of the blind men feeling the parts of the elephant, we can only see the elephant as a whole when we become generalists, embracing all specialisms. For instance, information systems architects are lovers of wisdom, like Plato's notion of philosopher in *The Republic*. Amending Plato and Aristotle's reasoning, they have the task of developing holistic business models containing far more meaningful information than the financial modelling methods of accountants, bankers, and economists.

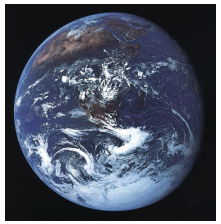
Starting afresh at the very beginning

Demolish entire history of human learning in an apocalyptic death and rebirth process, like a computer turning itself off and on again. Then guided only by one's inner guru—the 'dispeller of darkness'—and the Logos—the immanent rational intelligence governing the Cosmos—conduct a holotropic experiment in learning to integrate all knowledge into a coherent whole: the genuine Grand Unified Theory (GUT) or Theory of Everything (TOE).



Observer and observed are one

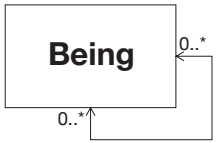
Invoke self-reflective Divine Intelligence, as the Witness, and so include the mapmaking process in the territory being mapped as an undivided flowing movement, like the holomovement in the Implicate Order. We can thereby model all business processes, including the process of developing such a comprehensive, self-inclusive conceptual model of the psychodynamics of society, like a television camera filming itself filming.



Establishing a vantage point

Stand outside ourselves, like an out-of-body, near-death experience. Only there can we see the Big Picture, the Totality of Existence—both our inner and outer worlds, and the senses between them—as an undivided Whole.

Being, a symbol for everything

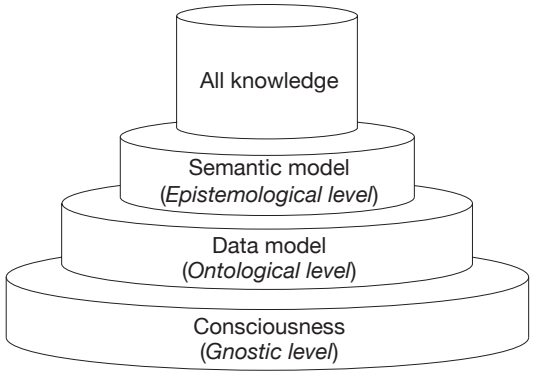


Being is the superclass of all other classes of concept, just as *x* represents any complex number in mathematics and **Object** the superclass in object-oriented modelling methods. Applying E. F. Schumacher's motto for mapmaking, "Accept everything; reject nothing," **Being** is all-inclusive, denoting everyone's theories, beliefs, and opinions.

Foundations of all knowledge

The ontological and epistemological levels constitute *Integral Relational Logic* (IRL), the former including the Principle of Unity and the latter—knowledge about knowledge—corresponding to the systems catalogue in Ted Codd's relational model of data.

IRL—an egalitarian, commonsensical science of thought and consciousness—provides the Cosmic Context, coordinating framework, and Gnostic Foundation for Panosophy, the *Unified Relationships Theory* (URT): the Holy Grail, Philosophers' Stone, and Apotheosis of human learning.



Megasynthesis of everything

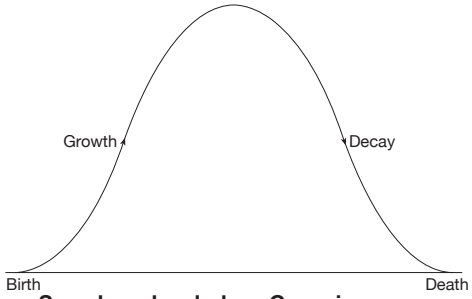
IRL has evolved from the semantic business modelling methods that information systems architects use to build the Internet. We all use IRL implicitly everyday, for it describes how we form concepts and organize our ideas in tables and mathematical graphs or semantic networks.

The URT views the Universe as an information system, showing that all beings are related to all others in a multitude of ways and that meaningful, structure-forming relationships are causal, whether they be electromagnetic or gravitational fields, strong or weak nucleic forces, dark matter or dark energy, or nonphysical structures, such as mental, psychic, spiritual, and subtle healing energies.

Living in the Timeless, beyond Birth and Death

The Cosmogonic Cycle

All cognitive, biological, and physical structures in the relativistic world of form—including this poster, as an expression of Wholeness—are created by Life, emerging from our Immortal Ground of Being as evolutionary development, in defiance of the second law of thermodynamics.



Seamless, borderless Consciousness

They then return to the Source at the end of their lifespans through involutionary dissolution, both growth and decay actually happening in the Timeless Now.

As this primal cosmology is formed in our minds, which create our reality and govern our behaviour, psychology is the primary specialist science, not physics or biology.

Liberating ourselves of our mechanistic conditioning

Computers are extensions of the mind, functioning solely in the horizontal dimension of time. Artificial intelligence is therefore impossible, for machines cannot program themselves without human, that is Divine, intervention, acting in the vertical dimension of time.

As monetary economies also act as bureaucratic machines, to realize our fullest potential as Divine, Cosmic human beings, we thus need to live primarily in the Eternal Now, where the creative power of Life arises irrepressibly from our Divine Source, like a gushing fountain.

By ceasing to act as human automata, we could intelligently resolve the global psychospiritual, ecological, and economic crisis we all face today. For, as Albert Einstein famously said, you cannot solve a problem with the mindset that created it.

Similarly, in *Spirituality and Social Action*, Vimala Thakar said, "In a time when the survival of the human race is in question, continuing with the status quo is to cooperate with insanity, to contribute to chaos. … The call of the hour is to move beyond the fragmentary, to awaken to total revolution."

Becoming free of the fear of death

Shakyamuni Buddha showed in the *trilakshana* 'three marks of being' that nothing is permanent in the Universe (*anitya*) and that if we are not free of the sense of a separate self (*anatman*) we will suffer (*duhkha*).

So these were his last words:
"Behold, O monks, this is my last advice to you.
All component things in the world are changeable.
They are not lasting. Work hard to gain your own salvation."

To demonstrate this fundamental principle of existence, monks who follow the Dalai Lama on his travels spend a few days creating a most beautiful mandala with grains of sand, which they then throw into the sea if that is nearby.

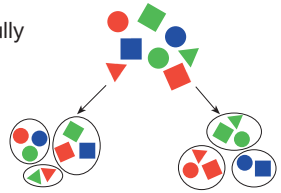
The universal principle of *anitya* applies to all structures, not only our bodies, including all civilizations, species, planets, stars, galaxies, and physical universes. So if we do not let go of our immortality symbols, the greatest of which is money, we shall inevitably suffer.

We can find Love and Peace through self-inquiry, when we follow the maxim Temet Nosce 'Know yourself' on the Oracle's kitchen wall in the popular allegorical movie *The Matrix*. To answer the question, "Who am I?" we constantly repeat *neti, neti* 'not this, not this' in the mystical path of *jñana-yoga*—the path of wisdom and abstract knowledge. We can then become free of our precarious sense of security, knowing that our true identity is not the body, mind, or soul; rather it is Immortal, Nondual Wholeness.

Putting Time into Perspective

Concept of concept

We form concepts, as mental images, by carefully examining the similarities and differences in the data patterns of our experience, putting interpretations into various sets, according to their attributes, like this example of children's bricks, bringing order to chaos.



As the concept of number cannot be formed until after the concept of set, semantics is more fundamental than mathematics in science. There is nothing special about the concept of time, for physicists, mathematicians, and programmers treat time in exactly the same way as all other variables in their equations. E.g. $F = ma$ and $E = mc^2$.

Information systems architects go further, considering both quantitative and qualitative domains of values as dimensions in a multidimensional universe.

By generalizing the concepts of human, primate, mammal, and animal in the superclass of **Being**, we can bring all our thoughts into universal order, seeing that the underlying structure of the Cosmos is an infinitely dimensional network of hierarchical relationships: the holographic, fractal web of life in systems theory—Indra's jewel net in Hua-yen Buddhism.

Even the concept of Absolute is not special, for in IRL, the concept of the Supreme Being is formed in exactly the same way as all other concepts, thus establishing God as a scientific concept, whose Essence is Love, which we all share, irrespective of our cultural conditioning. So, as in object-oriented programming languages, the concept of self is not special either.

Exponential time

Time since the most recent big bang is 13.7 billion years or 4.32×10^{41} yoctoseconds, septillionths of a second. This is yesterday on the cosmic timescale.

A googol is 10^{100}, the lifespan of the physical universe in years according to Brian Cox in the BBC television series *Wonders of the Universe*, and a googolplex is 10^{googol}. Even a googolplex raised to a googolplex a googolplex times is a finite number.

So when we look at our lives in terms of the lifespans of our bodies—threescore years and ten, in the words of the psalmist—we severely limit our vision.

Mayan calendar

The Mayan calendar is uniquely exponential in character, progressing in a series of 13 cycles, each 20 times shorter than the previous set. This stele places the creation of the universe at 13×20^{21} tuns ago, where a tun is 360 days, the start of an infinite series of diminishing terms that will reach its finite limit at the winter solstice of 2012.

Through fractal transforms of transitions in a series of *I Ching* hexagrams, Terence McKenna has discovered a similar date for this singularity in time: Timewave Zero, when many believe that an eschatological Golden Age will dawn.

Eternity, infinite time

The count of odd and even numbers is the same as that of all integers, expressed as:

$$\infty + \infty = \infty = \aleph_0$$

The power set of a set (set of all subsets) with n members has 2^n members, including infinite sets. Hence:

$$\aleph_{n+1} = 2^{\aleph_n}$$

We can thus denote the largest infinite cardinal by $\aleph_\infty$, where ∞ is $\aleph_\infty$, a recursive construct, with no limit.

So when people say that they have an immortal soul, which reincarnates indefinitely in cyclic time, or lives in eternity, in linear time, which infinity are they referring to?

Furthermore, as Brahman and Atman are one, expressed as *Tat tvam asi* 'That thou art', where is this personal soul? As we are all one, there is no doership or ownership.

As all beings in the Universe are interdependent, where are the independent individuals who supposedly have free will, praised or punished for actions judged as 'good' or 'bad'? And who cares anyway? Life is happening.

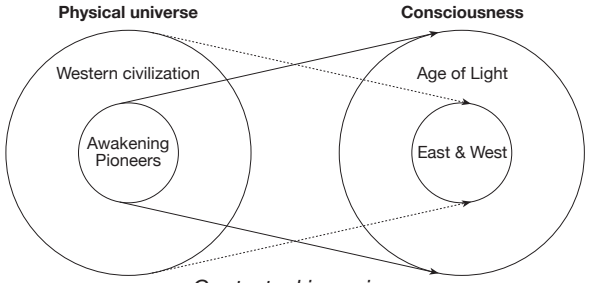
The Universe is evidently intelligently designed, but there is no designer thereof, as a being separate from any other, thereby reconciling Darwinism and Creationism.

Living Peacefully at the End of Time

Awakening to Total Revolution

Because of the divergent tendencies of evolution, Western civilization is based on the false belief that we human beings are separate from the Divine, Nature, and each other, whereas our Authentic Self and True Nature is Wholeness, with no divisions or borders anywhere.

As a consequence, religion, science, and economics are based on seven pillars of unwisdom, misconceptions of God, Universe, Life, humanity, money, justice, and reason. The seventh pillar is Aristotle's either-or Law of Contradiction, which we need to embrace with the both-and Principle of Unity, if we are ever to live in love, peace, and harmony with each other and our environment, resolving paradoxes and conflicts in Impersonal Nonduality.



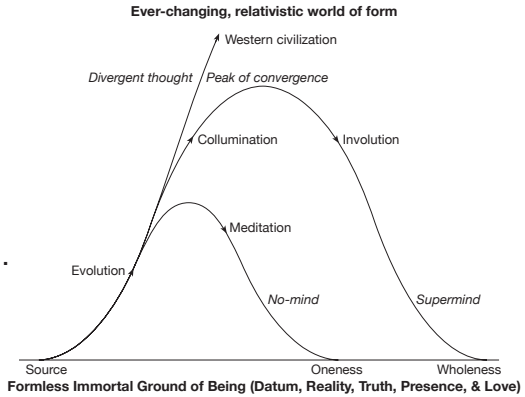
Contextual inversion

Our emerging species

In the evolution of species and civilizations, ontogeny normally recapitulates phylogeny; as children we learn by mimicking our parents and teachers, who tell us how and what to learn.

However, when new species and civilizations emerge, a few pioneering individuals break free of the past, evolving in a quite new direction, called pædomorphosis, 'the forming of the young'. If these intrepid explorers reach a critical mass, then phylogeny recapitulates ontogeny and a new species or civilization is born.

To reflect today's great Spiritual Renaissance, we can call the species currently emerging *Homo divinus*, whose members follow a simple, life-enhancing work ethic, focused more on spiritual awakening and liberation than on materialistic and monetary acquisitions and unsustainable rampant consumerism.



Three human ontogenetic paths

Seven pillars of wisdom

As the Abrahamic religions consider God as other, to end the long-running war between science and religion, we can replace their incompatible contextual concepts of Universe and God with the realization that Consciousness is all there is. This all-encompassing worldview is encapsulated in the Sanskrit word *Satchidananda*, the bliss of Absolute Consciousness, the Transcendent Context and Immanent Foundation for the seven pillars of wisdom.

In our emerging Wisdom Society, we can thus see that the Universe is not one of many physical worlds and Life is not a property of the DNA molecule, but arises directly from our Divine Source, also called *Dharma*, *Tao*, *Rita*, *Prana*, *Qi*, *Logos*, *Animus*, *Spiritus*, and *Élan vital*.

Returning Home to Paradise

As the majority of people accelerate away from Reality, depicted in the path marked 'Western civilization', an increasing minority is passing through a psychological death, mimicking the Cosmogonic Cycle before *Homo sapiens* becomes extinct.

The small bell curve denotes *Homo divinus divinus*, taking the short cut to God with No-mind through Advaita, Tantra, Tao, Zen, Kabbalah, Gnosis, or Sufism, exemplars of *prisca sapientia* and *philosophia perennis* 'eternal, ancient wisdom'.

Rather than killing the mind, the large bell curve denotes *Homo divinus universalis*, healing the sick mind so that it becomes translucent as Supermind in Ineffable Wholeness.

We are then at once standing on the summit of the Mountain of All Knowledge and resting in the depths of the Ocean of Consciousness, illustrated by Hardanger Fjord in Norway, where 1000m mountains plunge into the sea, 1000m deep.

On the Edge of Time

Egolessly changing from the horizontal dimension of time to the vertical through the complete convergence of science and ancient wisdom

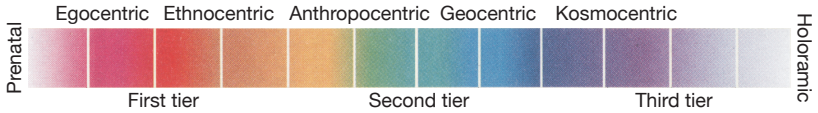
Evolution is currently passing through the most momentous turning point in its fourteen billion-year history, a wonderful opportunity for everyone on Earth to realize their fullest potential as Divine, Cosmic beings.

by

Working harmoniously together with a common vision

Inhibitors to cocreating a peaceful society

The laws that govern our grievously sick society are defined by people living mainly in the first tier of Ken Wilber's spectrum of consciousness, autosoterically teaching our children the seven pillars of unwisdom and falsely believing that technological development can drive economic growth indefinitely. We human beings are the leading edge of evolution, not computers.



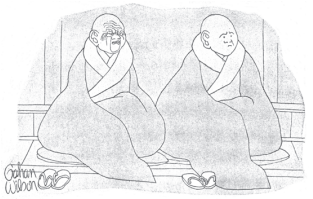
But the cultural creatives, living mostly in the second tier, are not only severely limited in their awakening by the tyrannous, democratic pull of the prevailing culture; many are also afflicted by what Abraham Maslow called the Jonah Syndrome, illustrated by Arjuna's words in the *Bhagavad Gita*. When Krishna showed him the Ultimate Cosmic Vision—"all the manifold forms of the universe united as one"—Arjuna said, "I rejoice in seeing you as you have never been seen before, yet I am filled with fear by this vision of you as the abode of the universe."

Not surprising therefore that very few people have yet reached the third tier as superintelligent, superconscious beings, defined by the *What is Enlightenment?* magazine as "an identification with all life and consciousness, human or otherwise, and a deeply felt responsibility for the evolutionary process as a whole … an emergent capacity, rarely seen anywhere".

So Pierre Teilhard de Chardin's prophecy that all the divergent streams of evolution would one day converge in a megasynthesis of gnostic inner knowing and all symbolic knowledge at the Singularity in time in the superhuman, synergistic collective has yet to be realized.

Resting in Stillness

As taking an unimpeded Holoramic view of the Universe can lead to overwhelming rapturous ecstasy, the best we can do, if we had a choice, which we don't, is to rest in Stillness, Peace, and Presence, 'prior to existence', knowing that the entire world of form is simply the delightful, illusionary play of the Divine. For as Shakespeare said, "All the world's a stage, And all the men and women merely players."



Young monk: *What happens next?*
Elderly monk: *Nothing. This is it!*

He who knows does not speak.
He who speaks does not know.

Tao Te Ching 'Mystical Whole'