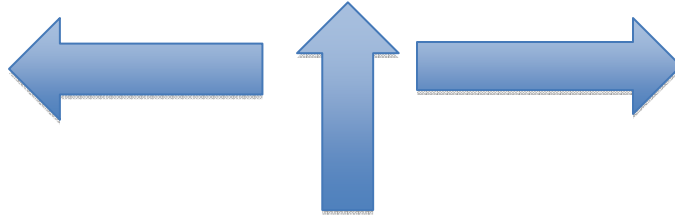


**Zero and Decimal invented to explain the structure of the universe by Yogis
and Why Time pure illusion**

By Sanjay Rao

October 2014

Expansion to Infinity **1000.0001** Reduction to infinity



The Bindu/Decimal that arises out of Shunyata/Nothingness (or the infinite Paramatma)

When Hindu Yogis gave us the decimal and zero (Shunya), they were not trying to solve the problems of math. They were replicating the structure of the Universe through numbers, After all the universe and all the creation of God is the most precise language on this earth and that is math. The universe is itself precise math.

This article is about trying to weave the gap between yogic teachings in the Vedas and Math, and how the two are really one. To understand one you have to understand the other. Unlike the Hindu of today who likes to divide and put everything into compartments, thus you end up having so many divisions within the Dharma. The Yogis have always had an inclusive mentality, as they see each and everything in the universe as interconnected. They see the so called differences not as isolated objects but as differentiated facets within one united whole. The logic is fundamentally simple, if Parmatama is the entire universe; can anything within it be not him? A simple fundamental fact that most people practicing the dharma on a daily basis can't grasp.

Everything is connected. Nothing can exist individually or in isolation.

So let's start with Vedic teachings and see how it's the same semiology that is expressed in Mathematics. Before we get into that, let's first understand two symbols. Zero is called Shunya, and the word comes from Shunyata which means nothingness, or emptiness. The entire ether of the universe is Shunyata. Shunyata is also infinity, and because it is infinity in space and time, it contains everything in the material and non material universe within it. In simple terms Paramatma.

The dot is also the decimal or in Vedic literature it's called the Bindu. The decimal or the Bindu has no value, but is that critical point where nothingness transforms into creation. It is the center of everything always and forever, it has to be the center because it's from this, that all creation comes forth. This is the Bindu that all yogis concentrate on in meditation. This is the Bindu that exists in the center of all Mandalas that symbolize the universe; This is what the westerners now call the point of origin of the universe in the Big Bang.

In very simple terms if you follow the mandalas through the centuries in the Hindu and later Buddhist traditions, the Big Bang is represented right in the center of it pictographically. Our Hindu forefathers already knew about the Big Bang, and by concentrating on the Bindu, the Yogi goes back in time and to the instant when the universe first burst forth into creation. Some Yogis are able to penetrate the Bindu and go behind or beyond it.

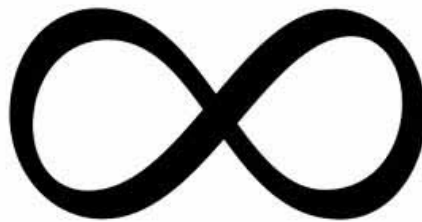
If you follow the decimal display as we started the article, from the central decimal, you can reach infinity by increasing numbers to the left of the decimal, or you can reach infinity by reducing the numbers to the right of the decimal. In a strange paradox of nature, as also explained by our Yogis, whether you expand or contract and keep on at it, you reach the same result, i.e. you encounter infinity.

Now you will ask the question, what lies behind the dot through which all creation arises, and the answer is again infinity that is also called shunyata (eternal emptiness)? (Vedanta Sutra: states that Brahman (Parmatma) is That from Whom this Universe proceeds (brahma), in Whom it subsists (Vishnu), and to Whom, in the end (Shiva), it returns.)

If you have understood the above structure and can imagine it in three dimensions, from emptiness (infinity) through the Bindu (decimal) comes creation, and if you follow creation in any direction, you will end up in infinity (emptiness), which was the initial starting point. Everything is a loop, or in Sanskrit it's called Chakravyuh.

Remember the Bhagwad Gita warns you not to enter this labyrinth and get lost within it when you engage the five senses. Here again, the Vedantas are clear that your consciousness is infinite or infinity and the five senses are the sensors for the Physical universe. Therefore the Yogi tries to detach from his five senses and all the creations of his five senses like knowledge and memory and its enjoyments and retreats to his consciousness within that is timeless and therefore infinite.

Now let's understand Infinity. Since infinity is unlimited in space or time, it's the core attribute of the Paramatma. Let us examine the symbol for infinity.



Those of you who are familiar with Rangoli or Janmashtimi, use the symbol of Rama Padhuka or the foot print of Ram /Krishna as



Do you think this is a coincidence? Nothing is a coincidence is what the Yogi says.

So if we move on from the decimal to the Zero or Shunya, although the zero is empty of inherent value, it's the zero that increases the propensity of the number. A reminder that all value comes from nothingness. Zero has no properties, yet it amplifies the properties of a value placed on either side of it. Whether this number is increasing or reducing, as in 10.01.

Let's now move from the deeper meaning of numerical's to the nature of the universe.

All Yogis will tell you to drop the 'I' consciousness and with it, you will drop the limitations of the 'I'. In the infinite when you define a I, it's a restricting and a limiting definition. The I is restricted to the creations of your five physical senses, and your limited brain with its memory included. Your memory is limited to feedback from the five senses. This itself indicates, how much ever you learn, or accumulate knowledge, it is and will always be finite, and will never be sufficient to comprehend the Infinite, because you are trying to operate from the finite to understand the infinite which by definition is not possible.

To overcome this, you have to let go of the finite and dissolve into the infinite. The mind has to expand into infinity. (I prefer the definition mind to brain because the brain is a physical organ, while the mind is the unrestricted faculty of consciousness, cognition and memory or Chitta which continues even after death). The more you identify with your thoughts, memories and knowledge, the more you are stuck in the 'I' and the more frustrating it will be to realize god or the infinite. To realize the infinite, the only possible way is to dissolve the I, this can be done only through meditation, or Bhakti, which could be in the form of song, dance or to be completely merged through self prayers. Knowledge will get you nowhere, as accumulating all the knowledge in the world is not a speck of dust on the feet of the Parmatama.

Let's go back to the decimal equation. On the left is expansion or increasing numbers and on the right is reduction or decreasing numbers.

If you read the types of siddhis of the Yogis, one of the maha siddhis is the ability of the Yogi to expand his mind to infinity at will, and also the ability to drop it smaller than an atom or reduce it to, many many billionths of a Mu, The Yogi enters infinity either by expansion or by reduction and in doing so is in Samadhi and realizes god. In Samadhi

there is no awareness of the 'I' as by now the Yogis consciousness is infinity or nil. The opposites are the same. To you they are opposed ends; to the yogi they are the same.

This is how time collapses

Now when you drop the 'I' and your mind expands into infinity ,your mind encompasses **all space time in the universe , i.e. you become infinity in expanded and contracted form** and when you encompass all space time in the universe, time collapses , you see all past and present.

The nature of past and present is encoded and defined by time. Time is measured by the speed of light or lesser intervals of the speed of light. The reason is because light is what carries information of past and present. Let me give you an example of this. The light on the sun takes eight minutes to reach earth. Assume a bang happened on the sun, your friend who stands on the sun will know instantly, and if you are on earth, you don't know as yet. So for you it's the future. Eight minutes later, you see the bang, for you it would be seeing the present, but for your friend it was the past, about eight minutes in the past. Now imagine if you were in the opposite ends of the universe? How many billion years would have elapsed? The Yogi on the other hand does need light to reach this information to him. By expanding the mind, he has instantaneous information on all ends of the Universe. This is Bhrama Gyan. Brahma Gyan does not mean historical information, but instantaneous awareness of all past, present and future from your physical point of view.

For the Yogi, everything is instantaneous including all past and future.

Outside of the limitations of speed of light or physical time, is the Hindu concept called KAAL (In Sanskrit kaal means outside of count). Infinity is that KAAL.....from which the Hindi word Kal arises, Hindus use kal to refer to tomorrow and also yesterday. When I was young, I used to think, to call yesterday as well as tomorrow Kal was kind of silly as it could lead to confusion. Its only much later, I understood that for a Yogi who collapses time, There is only the now (aaj in Hindi). Anything outside of the now is Kaal (kal) or timeless space , because when he collapses time by becoming infinity, he can locate his point of interest anytime in our future or past, and whichever point he locates himself in is 'NOW' or aaj. That was the symbolism that the Yogis were passing on to us. And we forgot the significance of it in our society.

If, I explain the phenomenon in terms of the numerical line in the beginning of this article. By becoming infinity, the Yogi encompasses both ends of the digital line. At will by focusing his attention like that decimal or dot, he can focus his mind anywhere in the passage of time in the past and the future and see it like its unfolding freshly in front of him.

Expanding on the Bindu or the Dot

The Bindu or the point of creation (even in the BIG BANG) is Durga or 'The mother' (I am not talking about Durga vs. Lakshmi versus Saraswati) The collective feminine principle or simply 'Ma Shakti' in this universe is also called Durga by many Yogis. She is a summation of all the subtle or feminine energies that permeate this universe. This feminine principle or subtle energy of the universe, is what gives the energy to create solid matter (if you understand Higgs Boson, or how matter comes to exist from non matter), The feminine energy or subtle energy creates physical matteri.e. the Dewis create the Dewas (only the mother can create other material forms).....the subtle creates the grossthat is why every Hindu Dewa, always a Dewi standing next to him as a reminder to usshe is the subtle energy (kinetic energy) that creates the dewa (potential energy) or the kinetic energy builds up potential energy that initiates action or translates to work. In other words the Shakti supplies energy for the physical action.

Let me explain this further:

Brahma physically creates the inanimate universe and life, However unless Saraswati, his consort, does not imbibe his creation with basic survival knowledge, all his creation will die. The calf as soon as it's born knows where the tit of the mother is and can suck milk to survive. The human child knows it should cry to ask for milk to survive. The plant with no brain, knows it has to create seeds to bring about a new generation. This is Saraswati's knowledge making it possible for Brahmas creation to survive.

Vishnu protects the Earth. He is the preserver. But how can anything exist and survive purposefully unless Lakshmi does not give it Prosperity? All Vishnu's preservation of life forms will be in misery unless Lakshmi does not imbibe his life with prosperity. Greedy Hindus have equated Lakshmi with money. This is not correct, she stands for prosperity, which includes, health, happiness, and all other forms required to have a good life and imbibe a quality of existence into Vishnu's preservation effort.

Shiva is the God of destruction in this illusory universe of creation, where every form of creation has a shelf life. Unless Durga gives energy Shiva can't destroy anything. As our scriptures tell us unless Durga gives Shakti, Shiva can't even get up from the bed. In just the way that a huge Boeing 747 cannot run without fuel.

These descriptions are not meant to judge personalities, but to understand the trail of energies in the universe that originate from the Paramatma (infinite), Each of these energies have been personified into Gods. All these Gods too are just like angas (arms) of the all pervading Parmatma/Brahman /infinite. It's futile to argue which god is superior or inferior. Everyone has a role to play in Parmatmas/Brahmans organization and running of this universe or srishti.

Back to the Bindu, (Decimal, Dot) or ‘The Mother’

Most Yogis refer to ma Durga as THE MOTHER, The feminine Mother or subtle energy is the cause of all physical creation (Sanskrit: srishti, prakrit)the decimal in mathematics , is the representation of Ma Durgashe (the decimal) **is the gateway of energy that moves from the unmanifest to the manifest. Garba means womb. And according to the Rigveda, All creation comes out of the Hiranyagarbha (Rigveda: Hiranyagarbha sukta 10.121). It is from this garbha all the lokas came to exist. The Garbha itself came to exist within the Infinite Parmatma for a year before the lokas burst forth from it.**

Durga comes from the root word Durg, or fortressIn ancient times, when the word was createdthe Durg or fortress was a secure, self contained unit in case of war and siege. It had all the food supplies, pandits, soldiers, libraries, the king and the queen all things need to restart a kingdom after the war. In effect, it was like a seed that could like a plant grow, into a huge dynasty. In the same way, The dot or decimal is like a seed that contains all creation within it and from it all physical creation bursts forth.

Now if you visualize the digital statement at the beginning of this article in 3D as a video. Behind the decimal is the great void, the infinite or Parmatma or Shunyata as Buddhism also describes it.....from that unmanifest, non genderthrough the bindu.....explodes the manifest (the big bang of the universe).....on one of the bindu expansion takes place, on the other side reduction takes place, and when this expansion or reduction takes place to its extreme it merges back into the infinity. (Bhagvata: This was the Supreme Seed of all creation, subtler than the subtlest, greater than the greatest, larger than the largest).

When space time is created, space and time, become finite principles, So we have to create physical measurements for both space and time. For space it's the meter, and for time, its seconds. When you merge space time it becomes meters per second till you reach the speed of light, after which Physics says you can't go faster than that light.

But the Yogi who breaks into Kaal is not a prisoner of that space time. The Yogi who extricates himself from the I (or the limited universe), i.e. the physical universe, by expanding his brain into infinity or KAAL starts to see time and space, as a limited system, and he observes it from outside of that limitation.

Because he is merged in infinity, by definition he sees all past and present because he has no fixed point of view. Wherever he is situated, its defined as 'Ab'hence, the yogis say, there is no past or future, but only ab, everything else is KAAL.....the point from where you observe the system. The normal man who can't break into KAAL is stuck in a fixed 'ab'and is buffeted and absorbed in the turbulence of the AB or his fixed physical existence linked to time and space, without being able to see the past and the future.

This is what the Yogis call stepping out of the body. This is what the yogis call dissolving the I, this is what the Yogis call the universe is within you (when you are expanded to infinity). This is what the Yogis call timeless, This is what Yogis call observing the illusion. It's an illusion because you are not bound within it, although you feel as if you are bound within it.

The simultaneous duality is an illusion and is also real at the same time. It's real in the sense that all interactions within the limited system, create a change and awareness within you and therefore it's real, it's an illusion because all the substrate on which the drama unfolds is like a flight simulator. The situation or substrate is unreal, but the learnings it gives you is real.

Within that framework, the Yogi does not debate between dwaita or adwaita, they are the left and the right of the same coin. The opposites are the same. The expansion of both sides of the coin by Madhwacharya and Shankracharya gives us a more dynamic stereo view of creation.

Since everything is connected and nothing is stand alone, just one more illustration about the Bindu. The Hindu woman wears a Bindi which is a symbolism of the Bindu between her eyebrows. This is in front of the third eye. Behind the Bindi is the brain which is the seat of all thoughts and in front is the physical universe. So in a way, this process of the woman who wears a bindi is a representation of The Feminine principle of the universe, or 'The Mother', who through thought behind the bindu, channels all that conceptual energy into action in the physical universe in front of her, just as the same way as the Parmatma channels his intention into physical form through the mother who is the seat of the Hiranyagarbha.

About Author - In search of the ultimate truth beyond concepts and notions, in that silence, after 20 years in soulless corporate board rooms.
<https://twitter.com/#!/sanjayrao1010>

To read more articles by author <http://www.esamskriti.com/essay-other-articles/sanjayrao.aspx>