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The Earth's History Upon Merging Hindu and Western Findings

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Abstract:. This paper explores the theories of the Indian scriptures, which are acknowledged worldwide as being the oldest, and the latest findings of Western scientists. There is a surprising connection between what Western scientists have discovered so far and what is written in the scriptures of India. Theories like the Big Bang and the Theory of Evolution are similar. The paper starts with the Big Bang and the formation of the solar system. It then ventures into the different layers within the earth, including the magnetism caused by the solenoid action of the outer core, which protects the beings of the earth from harmful extraterrestrial particles. It then explains why the moon is very critical for the survival of life on earth. Next, the critical atmosphere is examined, followed by questioning if all these coincidences could be so rare that the Earth might be the only place where life exists in the universe. Then, the timelines of Hindu scriptures, which are vastly greater than what Western scientists' postulate, are examined. Rebirth is studied, and finally, a study of the possibility of travelling through space is examined.

Keywords: Indian scriptures, Western Science, similar theories.

INTRODUCTION

The Force, the Great God of all, named Brahman by Hindus, was the beginning. He split himself into three, Brahma, Vishnu, and Shiva who are the guardian deities of creation, perseverance, and destruction respectively. It all began with the Big Bang which made the sound A……U…..……..M…..…….. (the sound of God); the scriptures state that Aum not just represents Brahman, it is Brahman.

The Big Bang is an ongoing process, and its Aum sound can still be detected with modern scientific instruments. Some may question the fact that sound cannot travel in vacuum, but sound in Indian culture means vibrations, as in electromagnetic vibrations. The purpose of creation was so that God could love the universe, and the beings of the universe were given free will to love him back.

Because humans are naturally outward looking, they must be conscious of the staggering size and age of the universe. With this knowledge they will realize that no matter how much physical wealth and military power they (or their countries) accumulate, it is totally insignificant compared to the universe. Thereby, they will be forced to focus within themselves to eventually find the ultimate truth that they are themselves God.

Initially Brahman thought, "Nobody was there before me and nobody knows who I am," so he thought of creation. He first became Iswara (or Shiva). Iswara created Maya Shakti (the female aspect of God).

Maya Shakti created the material world, initially as Hiranyagarbha, which was an egg-shaped gaseous cloud. The current universe is also a much larger egg-shaped structure. An egg's arc structure distributes forces effectively, allowing it to resist forces from one direction better than a sphere of similar size. An egg-shape is also the optimal shape for balancing magnetic and electric fields. However, a sphere manages pressure evenly from all directions, which is why deep-ocean submersible pods are predominantly spherical.

The world today depends on motors. In the early days of the induction motor, Nikola Tesla demonstrated the induction motor at the 1893 World's Columbian Exposition in Chicago (Carlson, W. B. 2005). He used a two-phase induction motor to create a rotating magnetic field. On a wooden platform, he placed a copper egg. When he switched on the current, the rotating magnetic field caused the egg to spin on its side, and as its speed increased, the gyroscopic effect made the egg stand upright and spin on its major axis. This famous demonstration, known as "Tesla's Egg of Columbus." illustrated the principle of the rotating magnetic field, which is the core concept behind his AC induction motor.

An egg (or more technically, an ovoid) is a specific type of shape that is similar to an ellipsoid but is asymmetrical. One end is more pointed than the other. This asymmetrical shape is crucial for why a chicken's egg, when rolled on a flat surface, tends to roll in a tight circle rather than a straight line (Mytiai, I. S., & Matsyura, A. V. 2019).

Within this egg-shaped gaseous cloud, reactions began to happen, and manifested forms, named Virata, came into being. Eventually, these forms were given intelligence and a sense of

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individuality and were named Jivas (singular Jiva) (Karunakaran, P. 2025).

Brahma is the law giver as well as the law administrator. Out of their fear, we can see that the Sun sets on time, wind blows, fire burns, and Indra and all his Gods do their jobs properly. Indra is the king of the Gods and is often equated to the Greek, Zeus, the Roman, Jupiter, and the Norse, Thor. All the planets do not bump into each other because of Indra and the other Gods. Rewards and punishments are used in serious militaries just as it is used by God to ensure all runs well in the universe and large destructions to creations do not happen (Allen, N. J. 2003).

This apparently solid world is actually empty. If the nucleus is the size of a football, the closest electron will be 15 km away (Peierls, R. E. 1959). Even within protons, neutrons and electrons, there is the same orbiting structure making the universe essentially empty. Since the atoms are mostly empty, if the Earth is squeezed it will fit in a 1" X 1" X 1" cube as today's scientists describe. The reason a human cannot put a finger into a solid material is because of the repulsive forces preventing it (Smolin, L. 2004).

A partial acknowledgment of this concept is seen in the "Philadelphia Experiment." About half of the searches about it state vehemently that it is true, including a movie made about it in 1984. But it must be noted that any military would want to hide such extraordinary results; therefore, official sources tend to call it a hoax. The legendary event claims that in late 1943, during World War II, the American Navy conducted a top-secret experiment to make the USS Eldridge invisible to enemy radar. The project allegedly went horribly wrong, causing the ship to disappear in a flash of light and reappear hundreds of miles away (Smolin, L. 2004).

The main point to highlight here is the claim that some soldiers' bodies were fused into the ship's metal hulls. This suggests that, given the appropriate conditions, a human can, in fact, interpenetrate a solid material (Smolin, L. 2004).

If things are broken down, scientist today state that currently accepted smallest particle is the "God Particle" or the Higgs Boson which is the smallest possible ripple in the Higgs field which provides mass to particles (Baggott, J. 2012).

The Higgs field permeates the entire universe providing mass to particles that interact with them. Electromagnetic fields do not interact with the Higgs field which is why they do not have mass (Consoli, M., & Cosmai, L. 2020).

Space is filled with forces, currently classified as the Unified Field Theory consisting of electromagnetic force, gravitational force, weak nuclear force, and strong nuclear force. The fact that electrons do not crash into each other or onto the nucleus is due to the forces that hold them in place.

The Sages acquired all knowledge which rhymes with what current day scientists are finding by becoming God themselves, just as the Sun is visible via the ray of the Sun itself. If one focuses on something, over time the answer will become apparent.

The Sages of old focussed on the primal questions of why and how this universe happened and became Gods themselves enabling them to understand the whole sequence of events leading to us being here. In a similar vein, many of today's scientists make discoveries through prolonged and intense concentration on specific problems.

Here on Earth, nuclear arms, pollution, the hole in the ozone layer, and the host of problems we have today, are things we need to work on, but they will not destroy the Earth. It is just not scheduled to happen; God has canceled the sure destruction in 2012 (Matsumoto, D., & Hwang, H. S. 2012). The 2012 destruction was predicted by numerous cultures and seers. The Earth has entered a new yuga (Sathya yuga) starting much earlier than the scheduled time by direct divine intervention on 10/23/2015, 12:15, hence we are now living in the Sathya yuga (Uvacha, S. S).

Prior to that date we were in the Kali yuga where selfishness and hate were the norm and after that date, beings will start becoming increasingly spiritually powerful. The transition from Kali to Sathya yuga has not been felt by humanity at large yet; it is just like switching off power to a fan, the blades will keep turning for a while (Karunakaran, P. 2012).

Right after creation, Brahma, Vishnu, and Shiva had a discussion. They decided to hide divinity, since attaining it is the goal of all humans. Humans can attain anything else, but they need to make it hard for them to attain the ultimate goal of life here on Earth which is the realization that we have always been God ourselves. Brahma suggested that it should be hidden on the Moon, where they will

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never reach. But Vishnu said they will reach not only the Moon or Mars; they will even reach the Sun so that is not a good plan. Shiva then suggested hiding it at the bottom of the ocean. But Vishnu said, like fishes they will reach the bottom of the ocean, making it too easy for them. Finally, Vishnu came up with an idea that since the human mind was designed to be outward looking, divinity should be hidden within them; this was agreeable to all three and was implemented.

The detailed sequence of the initial events of the universe was as follows:

- Initially there was Brahman who is the ultimate consciousness, the Purusha who is neither manifested nor unmanifested.
- Next came Iswara who is the thinking Brahman.
- Iswara created Prakiti (nature) or Maya Shakti (the creative energy which creates all). This is the Avyakta-Purusha who is the unmanifested Brahman.
- Next came the Hiranyagarba or the material Brahman or the Cosmic Golden Egg consisting of energy and matter.
- Next came the Virat Purusha or the Cosmic Being. The Cosmic Being pervades the entire universe in which the divine natural forces have emerged as faculties. The Hiranyagarbha or Virat Purusha is known as the manifested Brahman.
- Next came the Indriyartha or the sense faculties which brought about hunger and thirst.
- Next came the Indriya or the senses. The senses were housed in a physical being through which the divine forces can be expressed. This is also known as the Jiva or the individual manifestation or the body.

A human must love God as a person to eventually realize he / she is part of that God. Just as a boy and girl fall in love and eventually merge to become one; the existence of the two sexes is to practice the loving relationship with God. God does not like atheists who do not acknowledge the existence of God (Karunakaran, P. 2025).

Love and truth are powerful forces that run the universe, and women are driven by the power of love while men by truth. It is for this reason that women are endowed with beauty and softness to nurture love while men are endowed with rugged strength to decipher the truth.

God designed women to be beautiful in men's eyes and through other senses, thereby attracting men to be with them, which enables procreation and the continuation of the species. Similarly, male animals like monkeys, lions, cats, and dogs are attracted to females of their species because they appear beautiful to them, leading to procreation and the birth of offspring (Eneyo, M. B. 2019).

God does not like a girl who does not acknowledge the existence of a boy or vice versa. A girl who prefers to just be with another girl indefinitely (lesbian, gay) is a person not following the process God created to eventually have a relationship with God. It can be visually observed that those who go in the lesbian or gay tract do not become physically proper girls or boys (Michaelson, J. 2012).

Most humans have a vision of a perfect girl or boy. This is talking purely physically, just as cattle farmers will judge cattle and bid higher or lower prices for them. For this author, being an electrical engineer, the analogy would be the authority specifying the current carrying capacity of various cross-sectional areas of wires. Which is equivalent to the perception built up in our minds of how a female or male should behave. But various factories around the world cannot achieve those exact current carrying capacities due to the variations in copper purity. Therefore, each factory will publish their own slightly different current carrying capacities.

Analogically all girls or boys have a built-in perception of how the ultimate girl or boy should behave but cannot achieve those ultimate characteristics. But a girl or boy must follow as much as possible characteristics of females and males, just as the Earth diligently rotates around the Sun every 356.25 days and on its axis every 24 hours to enable life on Earth to flourish. All living and supposedly non-living things (by Western standard) must follow their duties; the Hindu view is that all things are alive in some form.

When this author sent the above, one person commented that Vishnu who turned into Mohini married Shiva which is a male-to-male marriage. The answer was: "Vishnu turned into Mohini before he married Shiva. You got to play your role. When I die, I may be reborn as a female, so I got to do my dharma of marrying a man. Previously I was a student, so I studied, now I am an engineer doing engineering research. I could not do engineering research while I was in primary

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school. And I cannot go to primary school now and hang around with other primary classmates. All need to do their duty (dharma) according to their body types, age, education etc. (Sharma, H. 2023).

Another commented that what Vishnu did by changing to Mohini was like transgender, but the reply is, "Mohini had a full female body meaning every of her six trillion cells had the XX gene while all six trillion cells of Vishnu had the XY gene. Transgenders of today just get some body parts of the other gender and claim they have changed sex (Trivedi, C. P. 2012)."

Formation of the Universe

At first, the universe was an infinitely dense and incomprehensibly small fireball. Then the Big Bang occurred to form the fabric of the universe in a process called "inflation", which lasted for only one millionth of a second. The universe quickly formed the basic forces in the sequence below 1 - 4 where 1 and 2 are within the nucleus, where 1 overcomes the repulsive forces of protons within the nucleus, and 2 allows some protons to undergo a decay into a neutron, releasing a positron and an electron neutrino. And 3 is the force keeping the electrons in its place and 4 keeps the planets and stars in their place. Going from 1 to 4, the force is strongest in 1 and weakest in 4. But the distance over which the force can exert increases and is greatest at 4.

- Strong nuclear force
- Weak nuclear force
- Electromagnetic forces
- Gravity

Later the universe started to expand but at a much slower pace. This can be imagined as an explosion happening in free space, there is nothing stopping the movement of particles or electromagnetic waves except the small interaction between these particles. When the energy of the first explosion was spent, the rest of the movement of the particles was not dependent on the initial force of the explosion which gave acceleration, thenceforth the particles moved increasingly without acceleration at a constant speed (Qin, S. 2022).

After the first second, the universe was made up of electromagnetic waves, and particles like quarks, electrons, photons, and neutrinos. After three seconds, nucleosynthesis began to occur forming protons and neutrons which combined to form the nuclei of simple elements, predominantly hydrogen and helium. Even after 100,000 years, there was no matter, as we know it today. Light, X-rays and radio waves dominated the universe (Lincoln, D. 2012).

Atoms were then formed by nuclei linking with free electrons. After 200 million years, galaxies and stars started to form out of pockets of gas, which condensed due to the force of gravity.

Scientists today, like Stephen Hawking have calculated that the universe is continually expanding and contracting, which is the Big Bang, Big Crunch, Big Bang, Big Crunch,……. which happens over billions of years. According to calculations, contraction will happen when the critical density is reached. This figure is 1.1×10^{-26} kg per cubic meter or six hydrogen atoms per cubic meter. Thus, the density of the universe decreases to a certain critical value after which it will contract. The ratio of actual density / critical density is equal to Omega. The universe expands when Omega is less than one. When Omega is greater than one, the universe collapses, in a Big Crunch (Hawking, S. 2009).

Ripples caused by the shock waves of the Big Bang have been observed and measured. Observations using today's instruments show that the universe is flat. The reason for this can be understood from the following analogy: if three tiny ants are placed on a balloon, and the balloon is suddenly (before they can move) blown up, each ant will observe the other ant moving away from it. As the balloon gets to be very huge, each of the three ants will think they are on a flat surface and cannot see the other ants. Therefore, it is not that the universe is flat but the instrument of today cannot detect the curvature of the egg-shaped universe.

Hydrogen and helium are the main composition of the luminous component (the stars), which is continuously decreasing in density value. But there is also a dark component, which can be detected only by its gravitational influence on luminous matter.

Later stars made of atoms formed the universe as modern scientists and instruments can observe. But the initial light traveled even further. This light formed the universe of light, which is very much bigger than this universe of matter. Even beyond this universe of light is the universe of truth, because the first particles out of the Big Bang are truths. The universe of truth is very much larger than the universe of light.

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Today's scientists know that there is a conscious force that is keeping the universe together in its current form and not allowing it to collapse on its own gravity and call it the "hard problems of consciousness" which can be roughly defined as the things you cannot program a computer to do. The physical body and its surroundings form the conscious aspect of a person, and the conscience is the ability to differentiate right from wrong. The conscious and conscience together form the consciousness.

FORMATION OF THE SOLAR SYSTEM

Among the zillions of particles that are moving away from the epicenter of the explosion, is the Sun. The Sun was a huge mass of heated gas, larger than the orbit of the current solar system. As the Sun contracted, nine concentrations of swirling heated gas and dust became the nine planets of today. It is the gravitational force of the Sun that keeps the planets in their orbits.

Formation of the Earth

The third planet away from the Sun is the Earth we live on. It now has a diameter of 7908 miles (12,728 km) and has a mass of 6 X 10^{24} kg. The Earth was formed about 4.3 billion years ago.

Today, the Earth spins at a very fast rate of 1038 mph (1670 km/hr; the Indian scripture figure is 1000 mph). To determine this speed, a few factors are used. The Earth rotates on its own axis once every 24 hours. The radius at the equator is 3954 miles (6363 km) so the equatorial circumference is 24855 miles (40000 km), thus the speed of the Earth's surface, at the equator is 24855 / 24 = 1038 mph (1670 km/hr). The Earth moves around the Sun at **67,000 mph** (107,000 km/h; the Indian scripture figure is 66,000 mph). The Sun moves in its own orbit through the Milky Way galaxy at **490,000 mph (**792,000 km/h). The Milky Way galaxy moves at **1,300,000 mph** (2,100,000 km/h) (Sanders, J. L. *et al.*, 2019).

The bold numbers above are to enable seeing the difference in the numbers. From these numbers, one can notice that the Earth is moving slower than the Sun, which moves slower than the galaxy. And the Earth has less mass than the Sun and the Sun has less mass than the galaxy. Einstein said, as we increase our speed of movement, mass will increase and will reach infinity mass at the speed of light. Therefore, to travel fast you need mass and since a rocket has the lowest mass among these, it will have the least speed. This means traveling to other star systems on rockets can be predicted to fail. The solution of humans' desire to travel through space is given in 3.4.

Other data about the Earth, Moon and the Sun are:
Distance from the earth to the Sun ≈ **108** X Ø of the Sun
Distance from the earth to the moon ≈ **108** X Ø of the moon
Sun Ø ≈ **108** X Ø of the earth

In Hinduism most mantras are chanted 108 times. The following latest scientific data corroborates that the number 108 matches with what is written in the Hindu scriptures.

- Distance from the Earth to the Sun ≈ **108** × Diameter of the Sun.
- Average Distance from Earth to Sun: approximately 149.6 million kilometers (93 million miles)
- Average Diameter of the Sun: approximately 1.392 million kilometers (864,938 miles)
- Calculation: **108** × 1,392,000 km = 150,336,000 km
- This is very close to the actual average distance of 149.6 million kilometers.
- Distance from the Earth to the Moon ≈ **108** × Diameter of the Moon
- Average Distance from Earth to Moon: approximately 384,400 kilometers (238,855 miles)
- Average Diameter of the Moon: approximately 3,475 kilometers (2,159.2 miles)
- Calculation: 108 x 3,475 km = 375,300 km
- This is also relatively close to the actual average distance of 384,400 kilometers.

Sun Diameter ≈ 108 × Diameter of the Earth

- Average Diameter of the Sun: approximately 1.392 million kilometers (864,938 miles)
- Average Diameter of the Earth: approximately 12,756 kilometers (7,926 miles)
- Calculation: **108** × 12,756 km = 1,377,648 km
- This is relatively close to the actual average diameter of the Sun, which is 1,392,000 kilometers.

Formation of The Various Layers of the Earth

As the molten Earth spun, dense material, predominantly Iron (Fe, ≈ 85%) and Nickel (Ni, ≈ 5%), moved to the center, and lighter material like silicon moved to the surface. This seems counterintuitive because heavier material will go to the outside in a blender.

In the beginning of the formation of the Earth, it was a swirling cloud of gas and dust from which

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the elements had been formed in ancient stars and stellar explosions. As the cloud condensed, the Earth gained enough gravity (gravity is proportional to mass) to exceed the centrifugal force of its spin. This caused heavier elements to sink to the center, while lighter elements floated toward the surface. In this way, the "tug of war" between centrifugal force and gravity was won by gravity, leading to the layered structure of our planet.

The heaviest elements at the very bottom of the Periodic Table needed extra energy for their formation and were therefore formed in stellar explosions such as supernovae. The very heaviest elements are formed from neutron star mergers.

It is for this reason that the most abundant elements on Earth are iron, oxygen, silicon, and magnesium. However, within the Earth's crust where we live (and also deeper in the mantle), silicon and oxygen are dominant. Oxygen (O) is the most abundant, making up about 46% of the crust by mass. It is a highly reactive element that combines with others, including silicon, to form oxides and silicates, which are the building blocks of most rocks. Often, two to three oxygen atoms combine with one silicon atom, which explains the greater abundance of oxygen. Silicon (Si) is the second most abundant element, accounting for about 27% of the crust by mass.

After silicon, the third most abundant element and the most abundant metal in the Earth's crust is aluminum. Iron is the fourth most abundant element in the Earth's crust. Though aluminum is finding increasing usage in building things for humanity, it is still not a "close competitor" of steel (≈ 98% iron alloy) in large-scale construction. Steel remains the dominant choice for structural applications due to its superior strength and durability. In the electrical industry, although aluminum has significant disadvantages such as much faster corrosion, about half the melting point, and lower conductivity than copper, it is making great strides due to its lighter weight and lower cost.

In Earth's early days, there was constant bombardment by meteorites, intense volcanism, and a poisonous atmosphere. The nuclear fusion reaction that keeps the Sun hot did not occur on Earth, and it gradually cooled down.

After millions of years, the top surface cooled to become the crust we live on. Today, Earth has four distinct layers: the inner core, the outer core, the mantle, and the crust. The inner core is a solid ball of iron (≈95%) with a little nickel (≈5%). The outer core is made of liquid iron (≈85%) and nickel (≈5%). Surrounding this is the mantle, which is a hot and slightly viscous substance mostly made up of silicon and oxygen. On top of the mantle is the cooler crust, which has enabled life to flourish.

The Core

The Earth's core is about 1,800 miles (2,900 km) below the surface and has a total diameter of approximately 4,300 miles (6,900 km). The Moon has a diameter of around 2,159 miles (3,475 km), meaning the diameter of Earth's core is about twice as large as the Moon's. For context, the core's total diameter is also nearly twice the straight-line distance between New York and Los Angeles, which is roughly 2,444 miles (3,933 km) (Brett, R. 1976).

The inner core is a solid crystalline sphere composed mostly of iron (≈95%) and a small amount of nickel (≈5%). It constitutes approximately 1.7% of the planet's total mass. This solid core has a diameter of about 758 miles (1,220 km), which is close to half the straight-line distance between New York and Los Angeles.

The outer core, which is about 1,400 miles (2,250 km) thick, is always molten due to the lower pressure at that depth.

The immense pressure at the center of the Earth, which is about 3.5 million times greater than surface pressure, causes the iron to solidify even though the temperature is believed to exceed 11,000°F (6,093°C)—a temperature hotter than the surface of the Sun. This solid crystalline iron core spins faster than the Earth itself.

Magnetism of the Outer Core

The Earth's outer core is composed primarily of liquid iron (≈85%) and nickel (≈5%), along with lighter elements like sulfur and oxygen. While it shares a similar composition with the solid inner core, the outer core remains in a molten state because its temperature is high enough to melt the material at the pressure experienced there. In contrast, the immense pressure in the inner core raises the melting point of iron and nickel above the temperature, keeping it solid (Smylie, D. E. *et al.*, 1984).

Magnetism is an intrinsic property of ferromagnetic materials like iron, nickel, and cobalt. The ability of a material to support the

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formation of a magnetic field within itself is measured by its permeability.

Relative permeability is a measure of how easily a material can be magnetized. It is the ratio of a material's magnetic permeability (μ) to the permeability within a vacuum (μ_0).

$$\mu_r = \frac{\mu}{\mu_o}$$

A very high μ_r value, like that of iron, indicates that it can be strongly magnetized.

The relative permeability (μ_r) for the most magnetic elements—iron, nickel, and cobalt—are 200,000, 600, and 1,500, respectively. It is important to note that iron's relative permeability is significantly higher than that of the other two top ferromagnetic elements.

When a strong external magnetic field is applied—for example, from a permanent magnet or an electromagnet—the magnetic domains begin to align with the external field (Bozorth, R. M. 1947).

In ferromagnetic materials there are regions named domains. In one domain all electrons around atoms spin clockwise and in the next domain all electrons spin anticlockwise. Meaning the spins line up with each other within each domain. But since there are about equal numbers of domains where the electron spin is clockwise versus domains where the electron spins anticlockwise, a piece of iron is not magnetic; or overall, the magnetism of all domains cancels out. But when a permanent magnet or electromagnet is used to swipe over a piece of iron, the electron spins of all atoms, in all the domains line up with each other, turning it into a magnet. This is the process that causes ferromagnetic material to be magnetized. If the strength of the electromagnet next to the piece of iron is increased, eventually all domains are aligned with the external field. At this point, the material is said to be saturated, and it acts as a strong magnet. When the external field is removed, the domains largely remain aligned, and the material retains its magnetism, becoming a permanent magnet (Bozorth, R. M. 1947).

Following the same principle, when electrons move parallel to each other in a coil of wire, it becomes a magnet (an electromagnet). And when a ferromagnetic core, which is normally laminated sheets of iron or silicon steel, is placed inside the coil, the magnetic field from the current aligns the magnetic domains in the core, dramatically strengthening the overall magnetic field of the electromagnet.

However, iron at the inner core does not cause the Earth's magnetism because it is too hot. If one takes a piece of magnet and heats it up, it turns back to iron because the heat causes the electrons spins, in all the domains to not line up anymore.

But in the outer core there is molten iron flowing. Iron atoms readily release two or three electrons from its valence shell to enable their electron shells to resemble that of the noble gases. Thereby electrons are flowing parallel to each other in the outer core in the direction of the earth's spin meaning they are mostly flowing deep inside the earth at the equator, just as they flow parallel to each other in a wire coiled as a solenoid, resulting in a magnetic field surrounding the Earth—a process known as the geodynamo.

Thereby the earth can be equated to a giant electromagnet where the magnetism at the poles (the Artic and Antarctica) is stronger than at the equator.

This magnetic force shield around the Earth is called the magnetosphere which protects the Earth from extra-terrestrial electromagnetic waves and plasma (charged particles), mostly from the Sun but also from other stars.

This electromagnetic force should be differentiated from gravity, which is another fundamental force of attraction that depends on the mass of objects.

Fleming's Right-Hand Rule is a mnemonic device used in electromagnetism to determine the direction of the induced current in a conductor moving through a magnetic field. When the thumb, forefinger, and middle finger of the right hand are held perpendicular to each other, they represent three mutually orthogonal directions:

- Thumb: Direction of **F**orce or Motion (the direction of movement of the magnet).
- Forefinger: Direction of the magnetic field (**B**), from North to South pole.
- Middle finger: Direction of the Induced Current (**I**).

A common way to memorize this is that the main domestic intelligence and law enforcement agency of the United States is named FBI, their agents are gun wielding, and we need to place our fingers like a gun before naming them **F**, **B** and **I**.

As a magnet passes over a copper wire at a right angle to the direction of movement of the magnet,

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an electric current is generated in the wire. This phenomenon is a result of electromagnetic induction, a principle described by Faraday's Law. The magnitude of the current depends on the rate at which the magnetic field lines are "cut" by the wire, or in other words, the rate of change of the magnetic flux. Therefore, moving the magnet faster or using a stronger magnet (more powerful magnetic field) will generate more current because the wire experiences a more rapid change in magnetic field density.

To visualize the generation of current, say the magnet has 10 field lines and it is moved laterally over a piece of copper wire. The wire below it will initially see zero field lines when the magnet is far, then it will see 1, 2, 3, 4, 5, 6, 7, 8, 9 field lines / second, as the magnet is moving towards the wire and 10 field lines / second when it is right above the wire, then it will see 9, 8, 7, 6, 5, 4, 3, 2, 1, 0 field lines / second as the magnet moves away from it. It is the change of the number of field lines / second or field density / time experienced by the copper wire that enables the generation of current within it.

Most teachers in schools teach that F is the direction of force of the magnet or the direction the magnet is moved, but this author wrote an electric book where he calls F the variable **F**ield density, where the F can still be used.

The logic calling F the variable **F**ield density is that even if the most powerful magnet on Earth is placed over the wire, it will experience millions of field lines, but no current will be generated. This is because it does not experience a varying **F**ield density. The magnet must move back and forth over the wire, or it must vibrate over the wire to generate a varying **F**ield density in order to generate current in the wire.

Therefore, vibration is important in all aspects of this universe, right down to copulation. Likewise, the God Particle or the Higgs Boson is not a particle. It is the smallest possible ripple or vibration in the Higgs field which provides mass to particles. The Higgs field permeates the entire universe, providing mass to particles it interacts with; it does not interact with electromagnetic fields (or e-m waves) which is why they do not have mass (Karunakaran, P. 2018).

The Mantle

The Earth is composed of four main layers:

- **Inner Core**: This is the innermost layer. It's a solid sphere with a **radius** of about 1,220 km.
- **Outer Core**: This is a liquid layer surrounding the inner core. Its thickness is approximately **2,260 km**.
- **Mantle**: This is the largest layer, surrounding the outer core. Its thickness is about **2,900 km**.
- **Crust**: This is the outermost, thinnest layer. Its thickness varies significantly, but it averages around **40 km** (much less than the other layers).

The radius of the Earth can be derived by adding the estimated thickness of the layers:
Inner Core Radius: ≈ 1,220 km
Outer Core Thickness: ≈ 2,260 km
Mantle Thickness: ≈ 2,900 km
Crust Thickness: ≈ 40 km
Summing these gives the Earth's total radius:
1,220 km + 2,260 km + 2,900 km + 40 km = 6,420 km
The diameter of the earth is:
2 × 6,420 km = 12,840 km

This value is very close to the accepted average equatorial diameter of 12,756 km. The slight difference is due to the use of rounded average numbers for the layer thicknesses.

The mantle is composed of solid silicate rock and behaves like an extremely viscous fluid over geologic time. Its temperature is between approximately 1000–2000°C, and it flows at a rate of only a few centimeters per year (Karunakaran, P. 2018).

This movement, known as convection, drives plate tectonics on the surface. The mantle's viscosity is trillions of times greater than that of water.

The primary elements in the mantle are silicon and oxygen, which form minerals like olivine ($(Mg,Fe)_2SiO_4$) and pyroxene ($(Mg,Fe)SiO_3$). Silicon dioxide (SiO_2), also known as silica, is also a key component.

The deepest hole ever dug was done by the Russians (Kola Superdeep Borehole) and it is 7.6 miles (12.2 km) deep while the crust of the Earth is 19-43 miles (30-70 km) thick. Therefore, humans have not dug holes to reach the mantle yet. It would, however, be incredible to dig towards the mantle and utilize that heat to drive steam engines to help produce electricity for the needs of humanity without incurring pollution such as when electricity is generated from coal plants. This has already been done, mostly in earthquake prone regions, where the heat is closer to the surface of the Earth. This is called geothermal energy.

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This clean energy is far superior to solar panels or wind turbines which are intermittent; it is not at all easy to back up a large solar farm. For example, a cloud cover can hover over a 1 GW solar farm taking out 80% of the electricity within 10-20 minutes; that is 800 MW suddenly missing. The electric utility must back it up or else the whole grid will trip because supply is suddenly not equal to demand. Supply must always be equal to demand or else the grid will trip. But the startup time for a coal plant is eight hours, 1.25 hr for an internal combustion engine (ICE), and 0.75 hr for a gas turbine (GT) (Karunakaran, P. 2018).

Comparatively geothermal energy is not intermittent. It must also be noted that within a coal plant, there are many engines, and some can produce only 1 MW but the biggest in large countries can produce 800 MW (Helffrich, G. R., & Wood, B. J. 2001).

Therefore, when a sudden cloud cover hovers over a 1 GW solar farm, taking out 800MW, multiple engines must suddenly be started up all over the grid to back up the 800 MW of missing power (Karunakaran, P. 2018).

The problem is compounded by the fact that starting and stopping large engines too frequently causes significant mechanical damage.

The Crust

The crust is the upper layer of the Earth. The crust is fractured into more than a dozen overlapping tectonic plates. These tectonic plates have different thickness at various places on Earth. The crust under the oceans can be only ≈ 4 miles (≈ 7 km) thick, of dense and heavy ballast rock, while the crust under the land mass can be about ≈ 25 miles (≈ 40 km) thick, of lighter granite rock.

These tectonic plates continuously slide atop the hotter layers below. The overlapping points between plates are called subduction zones which are where the biggest earthquake strikes, destroying whole cities or causing huge tsunamis and changing Earth's map slightly each time. The eruption of volcanoes also most often occurs at the boundaries between the plates. Thankfully most of the meeting points of the plates are beneath the oceans and therefore do not affect the population above it as much. The infamous Aceh earthquake is an exception where an earthquake in one of these subduction zones causes tsunamis which killed ≈ 230,000 people.

The crust moves at a rate of about one inch (2.5 cm) per year. The strength of this movement is tremendous. As an analogy, a hit on a person by a toy car driven by a child will not really hurt, but a hit by a truck at five miles/hr could break a bone (Rudnick, R. L. *et al.*, 2005).

The collision of the Indian Plate onto the Asian Plate caused the formation of the Himalayas. This collision is still going on resulting in the current growth of the Himalayas by two inches (five centimeters) every year. When you divide the height of Mount Everest which is 8,848.86 meters by 5 cm, the result is 176,977. Therefore, it was around 176,977 years ago that the Indian subcontinent collided with the Asian continent.

Another case is the Pacific Plate, which is drifting northward, scraping along the edge of the North American plate. The result of this tremendous force is the San Andreas Fault, which cuts vertically through the state of California for nearly 700 miles (1,125 kilometers). This 100-million-year-old crack in the crust between these two plates is 20 miles (32 km) deep.

The Moon

After the Earth cooled and formed its final structure, the hypothesis of how the moon form is named the Giant-Impact Hypothesis. This theory, which is widely accepted by scientists, suggests that the Moon formed from the debris left over from a collision between the early Earth and a Mars-sized planetesimal (with about 10% of Earth's mass), often called Theia. The Giant-Impact Hypothesis describes a glancing, high-angle impact (Cameron, A. G., & Ward, W. R. 1976).

Think of it like a cue ball hitting another cue ball on a pool table, but at an angle. This kind of collision is powerful enough to strip off a large amount of material from both bodies, but not so direct that it would obliterate them. The energy from the impact vaporized parts of both Theia and the early Earth, launching that material into a ring of debris that later coalesced to form the Moon. The cores of both bodies likely merged.

Because the explosion had a specific value, the debris went up to a particular orbit around the earth. This orbiting ring of debris then coalesced under its own gravity to form the Moon. This theory explains why the Moon's composition is very similar to Earth's mantle but lacks the heavy iron core. The iron core of Theia likely merged with Earth's core.

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The Moon's composition came mostly from the mantle and crust of the Earth, which explains why it lacks iron which lowers its mass and therefore has a gravity of only 1/6 that experienced on Earth. Table 1 shows the composition of Earth's and Moon's soil (Cameron, A. G., & Ward, W. R. 1976).

Table 1: A comparison of a typical Earth's soil versus the Moon's soil:

Elements	Earth's soil	Moon's soil
H	2.1 %	
C	1.6 %	
O	57.7 %	42.0 %
Al	5.0 %	7.0 %
Si	27.1 %	21.0 %
K	1.3 %	
Ca	4.1 %	8.0 %
Fe	1.1 %	13.0 %
Mg		6.0 %
Others		3.0 %

The lack of H, C and K on the Moon could be explained either by the fact that it got burnt away in the explosion or the Moon acquired more of the composition of Theia that collided with the Earth. Table 2 is a comparison of the dimension of the Earth versus the Moon.

Table 2: A comparison of the dimension of the Earth versus the Moon:

	Earth	**Moon**	**% of Moon vs Earth**
Diameter	12742 km (diameter)	3474 km	27
Mass	5.97×10^{24} kg	7.35×10^{22} kg	1
Surface gravity	9.8 m/s^2	1.62 m/s^2	17
Surface area	510 km^2	38 km^2	7
Volume	1.08×10^{12} km^3	2.19×10^{10} km^3	2

The diameter of the Moon is 400 times smaller than the Sun, but the Moon is also 400 times less far away. This coincidence causes the Moon and the Sun to appear roughly the same size.

The probability of the sequence of a meteorite impacting Earth resulting in the formation of a Moon with its specific mass relative to Earth's mass is very small anywhere in the universe. This enabled the spinning Moon to provide just enough gravity to stabilize the tilt of the Earth relative to its path around the Sun. The Moon acts like a gyroscope resisting over tilting of the Earth.

The gyroscopes used in airplanes contain a spinning disk that generates angular momentum. A classic demonstration of this principle involves placing disk on a shaft spun by a small motor powered with a battery within a 4-inch cubic box. Even if the box is balanced precariously on one of its corners on a table, the spinning disk's angular momentum will prevent it from tipping over, resisting even a finger force to make it topple down; it will simply go back to remaining balanced on the cube's corner. Therefore, a gyroscope seems to keep an object where it was originally.

The only difference between the airplane's gyroscope and the Moon as a gyroscope is that the forces are not mechanically connected but gravitationally connected. The angular momentum of the spinning disk in a gyroscope has the same effect as the angular momentum of the spinning Moon which prevents the Earth from tilting beyond 23.5^o relative to the Earth's path around the Sun.

This limited tilt causes the equatorial regions to have a stable climate throughout the year and summers in the northern hemisphere during June and winters in December.

Computer simulation showed that without the Moon as a gyroscope, the Earth tilt can vary between 0^o and 90^o resulting in extreme seasonal variations; with the poles facing the Sun in one season and is totally away from the Sun in the next season; thereby making live hard to impossible.

The Atmosphere

The original atmosphere of the Earth consisted of hydrogen and helium. These light elements were, however, heated by solar radiation and escaped.

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Initially the Earth was like the Sun, a ball of fire where nuclear fission and fusion continuously occurred. Subsequently, it became a ball of ice because space is cold (-270.45^{o}C) and the Earth did not have the air layer to insulate itself against that cold. Eventually as there was a build-up of atmosphere, portions of ice covering Earth melted into water and life started evolving.

The volcanoes formed the atmosphere by spewing out effluents in the proportion of water vapor 55%, carbon dioxide 24%, sulfur 13%, nitrogen 5.7%, Argon 0.3% and chlorine 0.1%. The constant collision of water holding meteorites on to Earth in these early days also contributed to the large amounts of water on Earth. Most of these effluents became clouds surrounding the Earth. The large amount of carbon dioxide, which emitted from the volcanoes, is now mostly locked up in rocks such as limestone (Lutgens, F. K. *et al.*, 1995).

The effluents from the volcanoes became heavy clouds that enveloped the Earth in darkness for millions of years. Then a downpour started, which lasted for a few 100,000 years. This caused the formation of rivers, seas, and oceans.

The Improbability of Life in the Rest of the Universe

Scientists today are searching for Earth-like planets by observing their distance from their stars. But some scientists have also came up with the Rare Earth Hypothesis (Forgan, D. H., & Rice, K. 2010).

The reason is because it is not just Earth's distance from the Sun that enables life here. The presence of the magnetic field, the unique composition of the atmosphere, gravity, the Moon's role as a gyroscope, and a whole host of other incredible coincidences are what allowed the widespread life seen on Earth to develop.

Scientists have observed using the Hubble and James Webb telescope that there are 100-200 billion galaxies each having a few million to a billion stars and each star having numerous planets each.

But is it possible that the peculiar structure of the Earth is so uncommon that the Earth is the only place in the entire universe that life as we know it can thrive? Space agencies like ISRO, NASA, SpaceX have stated that they have not observed aliens despite being around for almost 70 years.

The Creation of the First Life Form

The few hundred thousand years of rain also came with a continuous stream of lightning bombarding the surface of the Earth. This was caused by the collisions of the clouds which consisted of dust and water vapor. This lightning caused reactions, which fused various combinations of gases and elements to eventually form the first simple bacteria. Tidal forces caused by the newly formed Moon were also a key in promoting the first stages of development of life.

Cyanobacterium was among the first microbes formed. It is the simplest single-celled life form known. This microbe first appeared at the bottom of the sea about 3.5 billion years ago. They were unicellular bacterium, but some can be up to 0.5 mm long (De Duve, C. 1995).

Today cyanobacteria are a relatively substantial proportion of the marine plankton, which are tiny organisms, which wander in the oceans, they could be bacteria, plants, or animals like jellyfish. In the tropical seas, there can be up to 100 million cyanobacteria in a liter of water. They have a cell structure called the prokaryotic cell. The cell wall encloses a liquid called cytoplasm, within which a single strand of DNA is attached at one point to the plasma membrane. There is very little internal organization within the cell.

These prokaryotes multiply by simple cell division, forming clones or exact copies of themselves. The offspring has the same genetic code as the parent; imagine looking exactly like the rest of your family. This explains why, even though the Earth was filled with cyanobacteria, evolution to other life forms happened only after a billion years. Thus, for a period of one billion years, cyanobacteria were the main life form on Earth.

The cyanobacteria gathered on rocks, which are now called stromatolites. Later as other life forms evolved, cyanobacteria became food, and their numbers decreased. Today one can still find this moss like stromatolites thriving in Australia, at Shark Bay.

Production of Oxygen By Cyanobacteria

With an atmosphere and sufficient warmth, cyanobacteria became the dominant life all over Earth. There was no other lifeform to disrupt its growth. It was the cyanobacteria that enabled other lifeforms to exist on Earth, because after a billion years, they produced enough oxygen through photosynthesis to satisfy the absorption by the

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minerals on the Earth's surface (oxidation), as well as to change the composition of the Earth's atmosphere. Cyanobacteria changed the Earth's atmosphere from a sulfur dioxide, nitrogen, and carbon dioxide rich mixture to the present-day air composition of gases as shown in Table 3 (Knoll, A. H. 2008).

Table 3: The composition of gases on Earth currently

Nitrogen	78.08 %	
Oxygen	20.95 %	Total N_2 & O_2 = 99 %
Argon	0.93 %	
Carbon dioxide	0.04 %	

Other less common atoms and molecules include water vapor (which can range from 0 – 4%), hydrogen, ozone, methane, helium, neon, krypton, and xenon.

Other Life Forms Evolved From Cyanobacteria

Eventually the source of food (sunlight) became scarce as the whole Earth was covered by cyanobacteria. The struggling plants at the losing end, just below the "fat" top layer, were desperate for food and evolved the ability to move to spots where there was sunlight. This ability for plants to move is depicted by the common plant called Mimosa pudica whose leaf closes upon touching it; there is also a pitcher plant that moves to trap insects inside.

Over time, even the spots of sunlight became scarce and some plants out of desperation took the big step of being "cannibals" (herbivorous) by eating the neighboring plants. After millions of years, these moving plants became small animals, which evolved to become fishes. Since food was plentiful for these fishes, they eventually became huge.

The proliferation of herbivorous fishes resulted in a reduction of plant life, resulting in food deprivation for the smaller fishes. Out of desperation in their search for scarce plant food, some herbivorous fishes took a giant step of being "cannibals" (carnivorous) by eating their fish neighbors.

The herbivorous fishes which were now pursued by carnivorous fishes eyed the plentiful vegetation at the beaches. This vegetation grew after the poisonous volcanic atmosphere cleared into a fresh, oxygen filled one, thanks to their (and our) ancestors, the cyanobacteria (Knoll, A. H. *et al.*, 2013).

Some desperate herbivorous fish took a giant step of wriggling over the hot beaches to have a mouthful of this vegetation and wriggling back each day. Over time, these fishes evolved hard backs and bottoms to withstand the heat of the beaches, their skin was eventually filled with melanin to help withstand the ultraviolet light of the Sun. Eventually these fishes evolved into tortoises-like animals. From these tortoises evolved the other land-based animals.

THE TIMELINES

When Brahma wakes up, creation comes to live and when he goes to sleep there is a temporary suspension of activity. Brahma started life with the Big Bang and will end his life with the Big Crunch after 100 Brahma years. With each Brahma year having 365 Brahma days, each day has 12 Brahma hours of night and 12 Brahma hours.

Of the four ages, Kali yuga spans 432,000 years, Dwapara yuga is double that and Treta yuga is triple that and Sathya yuga is four times that. That is 1 + 2 + 3 + 4 = 10 Kali yuga spans of time is one **Maha yuga** which is 432,000 X 10 = 4.32 X 10^6 years.

1000 Maha yugas is one day for Brahma and is called a Kalpa and is 4.32 X 10^6 X 1000 = 4.32 X 10^9 years.

Another 1000 Maha yuga span of time is one night for Brahma and is called a Prayala.

Therefore, a Brahma day & night is 4.32 X 10^9 X 2 = 8.64 X 10^9 years.

A year of Brahma is 8.64 X 10^9 X 365 = 3.1536 X 10^{12} years.

Brahma's lifespan is 100 Brahma years, totaling 3.1536 X 10^{12} X 100 = 3.1536 X 10^{14} years. Following this, the Big Crunch occurs.

Therefore, during each of the 100 Brahma days and nights, things come alive during the Brahma day of 4.9 X 10^9 years and then all living and non-living things go to sleep during the Brahma night of 4.9 X 10^9 years. In this author's opinion, as we are unmoving as we sleep at night, the whole universe just stays unmoving for the duration of the Brahma night (Srinivas, S. 2021).

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Only after a hundred Brahma years or 3.136 X 10^{14} years will there be a Big Crunch during the Brahma night, and everything gets destroyed. Then a new Brahma is created who will start a new Brahma day.

We are currently living on the 1st day and 1st month of the 51st year of Brahman's 100 Brahman year lifespan.

Therefore, the last Big Bang happened 3.1536 X 10^{14} X 51/100 = 1.608336 X 10^{14} years ago or 160833.6 billion years ago and not 13.8 billion years ago as our scientist has currently determined.

Coincidentally 1 + 6 + 0 + 8 + 3 + 3 + 6 = 27 and 2 + 7 = 9. Also, Brahma lives for 100 Brahma years which is 3.1536 X 10^{14} years where 3 +1 + 5 + 3 + 6 = 18 and 1 + 8 = 9.

Many Hindus do such calculations for their home or car plate number and prefer it to add to 9. This is because 9 represents God since multiplying anything with 9, even a giant number, and the sum of the digits of the answer will eventually add to 9. So, God is 9, if you multiply 9 with whatever number (change it to a human, a cow or a stone), it ends up back to 9.

Coincidentally modern-day scientists determined that the Earth to be 4.54 billion years old ≈ 4.32 billion years which is the Hindus scriptures' span of time since the beginning of the last Kalpa (Knoll, A. H. 2013).

There are four types of pralayas, namely, nitya prayala, naimittika prayala, praktika prayala and atyantika pralaya.

Nitya prayala is when you go to sleep and the world you know of disappears. Only when you wake up, you remember everything.

Next is **naimittika pralaya** when Brahman wakes up from his night, the end of his sleep.

Next is **prakrtika prayala** which happens at the end of Brahma's 100 years (Brahma years) of life.

Next is **atyantika prayala** when you realize divinity, and everything disappears and your world crashes to nothing because you have become God.

In each of the 4.32 billion years, there are 14 Manus. A Manu is a beginning being who starts one set of creations which could be human beings or others (Carlson, W. B. 2005). The last Manu that is acknowledged by Christians and Muslims to be Adam.

Changes occur in the thought processes of beings of the world through the four sections of the 4.32 million years which are Sathya, Treta, Dwapara and Kali yugas. For the first period of 1.44 million years or the Sathya yuga, beings of the world are in full consciousness. Beings get less conscious over the next three yugas, as if getting gradually more and more drunk with desires. An analogy is a table with four legs. In the Sathya yuga all four legs of their consciousness are present. In the Treta yuga, the table of consciousness stands on three legs and in the Dwapara yuga the table of consciousness stands on two legs and, in the Kali yuga the table of consciousness stands on only one leg. Thus, beings are more realized at the first of the four yugas and less realized towards the fourth yuga which is of 4.32 million human years (Carlson, W. B. 2005).

This explains why during the Kali Yuga; many cruel humans overlook the future consequences of their actions either in this life or in future lives. The stories illustrated in this book indicate how pure and superior in intelligence as well as physical might, human beings were in previous yugas when they had more than "one leg" of consciousness.

However, of the four yugas, the Kali yuga is far more congenial than the previous three (Sathya, Treta, and Dwapara) for the acquisition of wisdom and the cultivation of discrimination because humans have many simple paths for liberating themselves. In the Kali yuga, the simplest spiritual activity of all can be used, which is always reciting the name of God or by always thinking of his glory. But some who read about the Kali yuga are scared because they believe the ultimate disarray will occur (like the movie 2012) and others call it the age of conflict. But through this apparent mess, there will be a few heroes among humans who can learn the difference between right and wrong. The Kali yuga was stopped on 10/23/2015, 12:15 by direct divine intervention and the current yuga is Sathya yuga.

A human soul disappears during the Brahman night and reappears again during the Brahman day, that is the soul will forget who he / she is for a period of 4.32 X 10^9 years as Brahma sleeps and wakes up again as Brahma wakes up. Just as we disappear during a dream and appear back when we wake up. For example, a person named John knows his name, knows how his body looks like. But as he sleeps and dreams, he forgets that his name is John, does not remember his body form,

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his home, family, community, country, Earth and its surroundings. When he wakes up, he remembers everything. But in the dream as well as in the wakeful state only one thing remains true and that is his consciousness; how he behaves in both states are the real him. For example, this author has been reminding himself that he is God since 2011; everything was created by God therefore everything is God and the realization that we are God is the final achievement of a human being. Because of that long practice of reminding himself that he is God, even in one of his dreams, he was telling someone else that he is God.

The soul must continue to be reborn till it becomes Brahman, and this must happen right through Brahman's day and night. When you attain Brahman in this Earth's daytime you are called Jivamukti and when you attain Brahman upon death you will be called Videhamukti. Jivamukti is superior to Videhamukti.

There are 14 lokas, starting from the top they are named: 1) Brahma 2) Tapah 3) Janah 4) Mahah 5) Suvah 6) Bhuvah 7) Bhuh (EARTH), 8) Atala, 9) Vitala, 10) Sutala 11) Talatala, 12) Rasatala 13) Mahatala 14) Patala-loka.

If a human passes away in the daytime, they will generally go to the higher lokas and if they die at night, they will go to the lower lokas. Of course, this cannot be artificially induced like remaining on a ventilator till the appropriate time. But if a human did great deeds and ended up in the Brahma loka, they must come back upon finishing their merits. Non-Earth lokas are just rest time, the real exam is here on Earth. In non-Earth lokas, they may enjoy various things like dancers (Apsaras), food and music. The higher lokas are generally preferred by people to attain. But the time you spend in any of these lokas are limited (Dokras, U.).

One of the greatest learned scholars was a child named Nachiketa. He told Yama (the God of Death) that he was not interested in Yama's offer to live in Svaragaloka (also known as Suvah, a heavenly realm of pleasure, the fifth loka in the list above). Nachiketa rejected the offer of enjoying dance, music, and other pleasures for 1,000 years because it was temporary and would eventually end. He was only interested in becoming a Jivamukti (Chaudhary, S. 2023).

Jivamukti is a Sanskrit term that means "liberation while living." It is derived from two words: jiva, meaning "individual living soul," and mukti, meaning "liberation from the cycle of death and rebirth."

It is possible that in the Abrahamic books, heaven is referring to this place. And those books mention living there forever because the typical period of living there is in thousands of years.

For those praying and loving a God form there are subset lokas. Praying to Vishnu will take you to Vishnu loka, praying to Rama will take you to Saketa loka, praying to Krishna will take you to Brindavan loka, praying to Brahma will take you to Brahma loka, praying to Shiva will take you to Kailasa loka and so forth. But the time a human can spend in these lokas are limited according to the merits accumulated while on Earth. The Jyanis do not care for any of these lokas, they just focus on how to become God themselves.

Humans must know the real goal of life is always thinking of God as we perform duties. We should realize the value of this attitude and not be like a monkey which is holding a valuable diamond; you throw a stone at it, and it will throw the diamond back to you.

Rebirth and Hinduism

Upon dying, a being will go to the universe of light (heaven) and enjoy the merits of activities one performed while on Earth. Or he / she may suffer in hell which is deep below Earth as well as a portion of the universe of light.

As an example of the weightage of punishment for crimes, there is a case in the scriptures of a man who told only one lie in his life. He (Yudhishthira) was sent to hell for one hour before proceeding to heaven. His story comes in Chapter 11.

A great boon for a human is to be born again in a family which inculcates spiritual energies. One must avoid the draining of energies and one of the biggest drains of energies is sexual energy.

To illustrate this, Vishwamitra was a great sage with so much spiritual power that he created another universe. Prior to being a sage, he was a great king named Kaushika. But a great sage named Vasishta defeated him and his 200,000 soldiers. From this, he realized that spiritual pursuits are far superior to military capabilities. Vishwamitra then started delving deeply into spirituality and achieved the capability to even create a new universe, which led to Indra (the king of Gods) putting a stop to his activity. To achieve this, Indra sent an agent goddess named Menaka to seduce him, and it actually worked, and they had a

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child named Shakuntala. Of course, he eventually found out what was going on and abandoned her, refusing the emotional blackmail of the need to take care of their child. Vishwamitra then went to the Himalayas to continue his spiritual pursuits. And Menaka went back to heaven; secretly she was just an agent of Indra and did not have motherly feelings for her daughter. Shakuntala was brought up by Sage Kanva in his ashram. She later married king Dushyanta and their child, Bharata expanded the Indian empire to the furthest extent in history, spanning from Europe to all of Asia. The Sanskrit name of India is Bharat, named after that emperor of India.

A common span of time a person spends in heaven is 10,000 years. After spending this time in heaven, the person will come back to Earth (rebirth) as a being in accordance with the merit accumulated in the past lives. It is common for a man to come back as a woman or vice versa. But it is very rare for a human to come back as an animal other than a human unless they lived an extremely cruel or adharmic (not according to your calling or unrighteous) life (Perrett, R. W. 1987).

To be born as a human is a very great achievement in the universal scheme of things. Even very cruel humans generally come back as human but with numerous medical or social problems. Here on Earth, he or she will try again to achieve the goal of self-realization that we have always been God. It may take millions of births but reaching this goal must eventually occur.

Why then do we not have the memory of our past lives? Some people do have memories of their past lives. There have been many recorded cases of people all over the world remembering a previous life. Some young children, for example, can go to a strange home and tell the family things which only members of that family know. Highly evolved beings have full memories of their past lives. But for most of us, this amnesia is very useful. If a person was a great murderer in one life, he would have filled his mind with all the tactics of being cruel. Even as a baby he will have memories of murderous tactics and will not be able to turn over a new leaf (Perrett, R. W. 1987).

There is a growing realization among top scientists that the universe is more a thought process, which manifests itself as the physical world rather than a physical universe on its own. Everything started with the Big Bang, so everything is God; the difference lay only in the varying degree of consciousness that we are God. A human being is God as much as a cow, a bird, or a stone. A human being breathes 21600 times a day making the sound, “so ham” which means, “I am that” in Sanskrit (“so” means “that” and “ham” means “I am”). Thus, we tell ourselves we are God 21600 times every 24 hours.

Realizing this unity of all creation is a will of God. This author experienced his hockey team, which was the most multiracial in his city, always coming out as champions; therefore, God favours those who promote unity in diversity. Then there is the multiracial USA being the largest economy on Earth. Unity in diversity is divine which pushes away sorrow. The verse in the Bhagavad Gita which indicates this is that God will take care of the needs of those who see divinity in everyone and everything. Therefore, if we see divinity in all the different races of people and all the variations seen on Earth, we will be specially taken care of by God.

The world is always changing depending on time, space, and circumstances. The early human thinkers were not satisfied with the temporariness all around. They wanted to be happy. The objects of the senses were all temporary.

Say you liked some dish but after consuming it, the happiness leaves you. Like a child who is given ice cream. For the first cup he will be very desirous of it and will be even happier to get a second cup and a third cup and a fourth cup. But by the fifth cup, he must be persuaded to eat it, and he will totally refuse to eat the sixth cup. The happiness and desire to consume ice cream which was so high before the first cup and even higher before the second cup has disappeared. This is the same boy and the same ice cream, but the desire has disappeared. This is the same for all objects of desire like wealth, fame, name, and progeny. By increasing it beyond a certain limit, there is no further happiness.

Humans were not getting permanent happiness; every joy was temporary; the early thinkers realized this. Of course, there are also humans who keep hankering after the material source of joy till they destroy themselves, like drug addicts. Their desires are like a fire burning a pile of wood, they keep satisfying the fire with more wood (more drugs) till the fire consumes them. Some justify getting into desires (like intoxicating drugs) to eventually get rid of that desire, but the truth is that indulging in it can consume the person.

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The early thinkers then thought the forces of nature must be the source of power to which they can turn to get answers in their quest to get permanent happiness. So, they prayed to the wind, oceans, rivers, mountains, Earth, and lightning. These forces became their Gods. They gave reverential names to them and started worshiping them as Gods. But eventually they realized all these forces have connections to each other. Man, for example, came from the five elements (Earth, water, fire, wind, and ether) and will eventually merge back into them. The early thinkers then realized that there is an underlying unity in the existence we see.

For example, electricity may power a light bulb to give light, a fan to provide wind, an oven to produce heat or an air-conditioner to produce cool breeze. But the underlying electricity in the wire is the same. These seekers of old analyzed this way and cannot find the divinity outside, due to a lack of guidance.

For example, Isaac Newton pondered about the apple dropping. Everyone knows that an apple will fall from a tree, but Isaac decided to ponder on why it happens. He called it gravity (he shifted the meaning of an existing word). This unbiased questioning is critical in science as well as spirituality. But Isaac's quest was external, which led to his mental problems later in life.

The moment a human being questions who they are, they begin their spiritual journey. These ancient seekers were trying to find the fundamental basis for everything and eventually realized the answer was not to be found in the outside world.

They started with concentration, like observing an apple falling. From there, they began to contemplate, and finally, they began to meditate. This progression from external observation to internal stillness is a universal path to self-discovery.

They finally realized that there is tremendous intelligence in everything in the world. So, the basis for everything must also be extremely intelligent. This super intelligent being is managing things, bringing about things and taking it back. Finally, they decided to look within themselves and were so happy to find all the answers.

The source of everything has three characteristics, which are truth, auspiciousness (intelligent and doing good without self-interest) and beauty; Sat, Chit, Anadam in Sanskrit. Most of these successful seekers were so happy to find the answers and just kept it to themselves as it was difficult to communicate such ideas in human languages to others.

But a few decided to code it, and this became the Vedas. So, the Vedas is not one book or written by one person, it is a whole array of knowledge attained by these seekers over thousands of years who all reached almost the same understanding that they are themselves God.

Some later seekers decided to write a compendium of all the previous discoveries. It is like the ever-growing knowledge of physics, chemistry, and biology of today which seems to be merging today. There are some ideas of current day sciences which are being debunked over time. For example, for over 1,500 years, the prevailing belief was that the Earth was the unmoving center of the universe, with the Sun, planets, and stars all orbiting it. But to disregard all those intelligent thoughts or pathways to proper solutions (2+2=4 seems like a proper solution) by the great seekers, is like throwing away all the research found by modern scientists over the last few hundred years because some scientific facts have been debunked over time. Historically, humans have engaged in such crazy activities such as book burnings. For example, the number of books burnt in the Nalanda university library was so huge that it took three months to completely burn.

One seeker named Veda Vyasa decided to compile all this knowledge based on the inputs given by other seekers. He categorized it into four categories, The Rigveda (the oldest, which are hymns of praise to various deities), Samaveda (melodies and chants), Yajurveda (sacrificial formulas), Atharvaveda (spells and charms).

Vedanta (the realization that we are God ourselves) is a deeper experience within all these truths and is contained in the Upanishads. Sanatana Dharma came out of this, and Hinduism, Buddhism, Jainism and Sikhism are offshoots of Sanatana Dharma. They are just like different schools having different dress codes and some unique cultures for students, but the knowledge acquired is the same (Sullivan, B. M. 1994).

The Vedas are inside of everything, from a stone to animals to humans. The stone is not able to consciously understand it; the animals are better at realizing it and humans have the greatest ability to be conscious of it.

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The Vedas are the full knowledge of everything, ranging from the rudimentary knowledge of basic living and relationship with others, to science, including the ultimate knowledge, which is that we ourselves are the all-powerful God. The earliest codification of the Vedas is the Rigveda which is a collection of Sanskrit hymns.

As beings get more intelligent from stones to fishes, terrestrial animals, and finally to humans, the Vedas within become increasingly liberated or less tied down by the ropes of attachment to the material world. Among human beings also, there is a varying degree to which the Vedas are exposed to the mind. Basically, the Vedas are tied down by ropes of material attachment to the world in lower manifestations of God (stones, trees etc.), as the manifestations increase in quality; the ropes of desires are cut, thereby exposing the real God within.

For very highly evolved beings, the thought process is so powerful that they can see beyond the normal three dimensions that we normally perceive. They can travel through the fourth dimension of time. They can create any physical objects, out of thin air, just as Brahma's thought created the Big Bang and the universe. They can cure people of any medical condition as their minds cause the appropriate movements of organs within their patient's body to achieve the cure.

Thus, their minds can replace all the complex instruments and procedures of a typical hospital operation. They can get things to move, replacing the multi-million lines of software, electrical wiring and mechanical fabrication engineers normally perform to achieve the same result. These feats are possible due to the knowledge they gained through meditation and penances which had cut specific ropes of desires which previously tied down the Vedas within them.

Note that the penances recommended for achieving this state vary in different yugas as below:
For the **Sathya yuga – meditation**.
For the **Treta yuga - mantras** (string of words which can unleash power).
For the **Dwapara yuga - ritualistic worship** of God.
For the **Kali yuga (current age) - the repetition** of the names of God.

The Avatars

The Earth is a unique place in the universe. Its ability to support life stems from an incredible series of fortunate conditions: the planet's perfect distance from the Sun, its protective magnetic field, the formation of the Moon which acts as a gyroscope to stabilize Earth's 23.5° tilt, and the oxygenation of the atmosphere by cyanobacteria.

Hindu scriptures state that Earth is the only place in the entire universe where beings can advance spiritually.
Life-forms may exist on other planets or moons where environmental factors like temperature and electromagnetic radiation fall within a habitable range. However, it is only on Earth that a change in spiritual level can occur. Life on other worlds might feel sterile or mechanical, like living in a highly advanced city that makes one feel less human. Similarly, beings on other planets may be technologically advanced but lack human spirituality. Hindu scriptures teach that even gods must come to Earth to increase their spiritual levels. This is because spirituality—the realization that one is divine—surpasses all other achievements, including military power. The Puranas, for instance, contain stories where a single sage defeated vast armies (Jones, N. F. 2015).

To ensure that the beings of Earth do not stray from the right path, highly evolved beings have descended to the planet as guides. During each of the four *yugas* (cosmic cycles), humanity has made contact with these beings a specific number of times:

- 800 times during the Sathya Yuga
- 600 times during the Treta Yuga
- 400 times during the Dwapara Yuga
- 200 times during the Kali Yuga

Some may question why these highly evolved beings appear as sages, like Agastya, Vasishta, or Jesus. The reason, as the story of Vishwamitra indicates, is that spiritual power is far superior to other forms of power. It surpasses the egoistic power of *yagnas* (rituals through which Brahmins achieved power), the military skills and weapons of the Kshatriyas who ruled for ages, and the financial acumen through which the Vaishyas have recently acquired power.

The author argues that the ability of the Shudras to transform materials like sand into valuable computer chips—along with their precision in

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following instructions—will become paramount as computers and AI take over.

For those who doubt that engineers are the modern equivalent of Shudras, the answer lies in considering the Puranas. Who among the people of ancient times dealt directly with the material world? The Brahmins dealt with the ephemeral spiritual realm. The Kshatriyas dealt with the equally ephemeral world of warfare, where outcomes were affected by countless factors like the skills of warriors and the quality of weapons. The Vaishyas dealt with the unpredictable world of finance, which is not as tangible as the physical world. It was only the Shudras who consistently worked with the material world (for instance, by making pots out of clay); in ancient times, the other three *varnas* (Brahmins, Kshatriyas, and Vaishyas) largely avoided this domain.

It must be noted that today, engineers worldwide are rarely in politics and therefore have little say in the governance of countries. In previous times, politicians were guided by Brahmins. Today, financial clout runs politics, and in the near future, engineers who master the material world will have a significant say in how politics is run.

This reflects a profound change over time. In ancient days, the spiritual power of a single person could achieve the same effects that now require vast amounts of software code, complex mechanical fabrication, intricate electrical circuitry, and sophisticated business strategies.

The top spiritual leaders famous in the world today are among the 200 highly evolved beings who came during the Kali Yuga. So, who is the Almighty God? In the Hindu tradition, God in full form (the Avatar) has descended to Earth only ten times. The infinite, indescribable God is called by various names and split himself into three primary aspects:

- **Brahma** (the creator)
- **Vishnu** (the preserver)
- **Shiva** (the destroyer)

Vishnu, the preserver aspect of God, has incarnated nine times. The tenth incarnation is an aspect of Shiva, who comes to guide beings on Earth whenever they go astray.

Hindu scriptures state that Vishnu's incarnations took forms that corresponded to the most prevalent beings on Earth, following a sequence similar to Darwin's theory of evolution. The first avatar God took was that of a fish. This was when the atmosphere was still poisonous, and terrestrial life had not yet appeared. Violence was rampant in the oceans; fossils of ancient fish resemble war machines with vicious teeth and armored bodies. The fish avatar's purpose was to bring spirituality to the creatures of the sea.

(Though Hindu scriptures identify the nine avatars as incarnations of Vishnu, it is this author's perception—based on their words and actions, such as Krishna's revelation of his cosmic form—that the avatars are direct incarnations of Brahman, the ultimate reality.)

As animals began to move onto land, God took the form of a tortoise. Its shell provided protection, and its melanin-rich dark skin shielded it from the Sun's heat and ultraviolet rays respectively of the beaches. Because vegetation was more abundant on the beaches than even in the shallow seas, the tortoise became the dominant creature on Earth. The tortoise Avatar then brought spirituality to the era's main inhabitant.

Later, these creatures evolved into pigs. This explains why they have flat mouths suited for eating fruit that fell from immense trees and melanin-deficient skin adapted to the dark jungles. It was then that an Avatar in the form of a pig incarnated to instill spirituality among them.

As other forest dwellers evolved and brutal conflicts arose, God took the form of an invincible half-man, half-lion creature (Narasimha) to bring spirituality to the animals of the jungle.

Later, when *Homo floresiensis*-like, three-foot-tall humans evolved from primates, God came as an Avatar of the same small stature.

As humans started farming in nutrient-rich volcanic soil, their average height grew to 23 feet. Consequently, God took the form of a 23-foot-tall human Avatar. Subsequent Avatars were shorter—first 13 feet tall, and then the height of modern humans—as the soil's fertility continued to decline over time.

God takes the form of the dominant beings of an era to be relatable to them, as this is the only way they will accept him as a teacher. The Avatar even shares the frailties of those beings, getting sick and dying, just as was recorded for the later human Avatars. The logic is that this makes the Avatar relatable not only to the beings of that time but also to future generations who hear their stories.

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The theory that humans were once, on average, 23 feet tall could explain why some ancient structures, like Hindu temples and the pyramids, were built with enormous stone blocks. It is not logical that humans of our size would choose such massive bricks. This author visited an ancient temple in Tamil Nadu where the stone bricks measured roughly 6' x 4' x 4'. It would likely take at least ten strong, modern-day humans just to carry one such block (Jones, N. F. 2015).

God in the Big Scheme of Things

When the last Big Bang made the e-m AUM sound, truth emerged from the AUM and moved at an incredible speed. This formed the universe of truth. Next came the initial bright flash which moved at the speed of light. This light became the universe of light or the heavens. In the heavens, the particles are light photons. Then only came the denser atoms; initially mostly as gas, especially H_2 which later turned into other heavier atoms.

A single human being has a mind which has a memory capacity so humongous that the whole computer storage of Earth today will look like a virus by comparison. Most humans only remember what they did in this life as explained previously in "The cycle of birth and death," but within the human mind are stored memories from all the millions of lives they have lived through. In dreams we remember our past lives. We do also create dreams; for example, we could be bashing up our bosses, because during the day, they have been bad bosses. Opening our memories, including that of past lives, have been successfully done using hypnosis techniques by experts.

One scientist and medical doctor, Dr Allan Somersall stated that a single human cell is more advanced than all the scientific discoveries and inventions humans have come up with so far. A single strand of DNA can store information of the growing characteristics of every, of the six trillion cells in an adult human being; a human body also has 380 trillion viruses and 60 trillion bacteria. The Hindu scriptures state that the human body renews all cells every seven days. Current day scientists state that this is true of only the skin and gut cells but not the blood or muscle cells which can last for months.

Results from the Human Genome Project have shown that there are 3.1 billion base pairs within 23 pairs of chromosomes (22 autosomes and the X and the Y sex chromosomes). These DNA codes contain information stored in a very advanced algorithm, compared to the 0,1 binary system that we use in computers today. And all this information is stored in a tiny strand of DNA within an invisible human cell. Basically, we are light years away from achieving the technological levels of the human body.

Of those three billion base pairs, only a tiny amount is unique to us, making us about 99.8 % genetically like the next human. A physicist, Dr. Riccardo Sabatini stated that if human genetics is printed, it will take up 262,000 pages and only 500 of those pages are unique to any individual. Imagine sifting through a quarter of a million pages of a book only to find a mere 500 that distinguish one individual from another. In percentage terms only 0.19% (remember it as 0.2%) of a human's gene is different from another human.

Yet Humans have fought horrendous wars and enslaved others based on a mere 0.2% genetic difference. While most contemporary humans focus on the brutality of the Western world's actions toward people from equatorial and tropical regions—where climatic conditions allowed for survival with less physical exertion—these brutal fights and enslavements have been occurring for millennia.

Hinduism itself is the quest for freedom.

God created the universe out of him / herself (there is no sex). At first there was God, and he created everything; most religions on Earth today endorse this belief. Therefore, everything and everyone is actually part of God because at first there was nothing and God created everything out of himself.

Therefore logically, you are God. But people of Earth have been lied to for generations with the disjointed narrative that this is not possible. The ultimate purpose of life on earth is to realize that you have always been God yourselves.

When the Big Bang happened, the first thing that came out of it was truths which travelled at an immense speed to form the Universe of Truth.

The next thing that emanated was light or e-m waves which formed the Universe of Light.

After this the slower materials shot out forming the material world we are living in now.

The Universe of Light is much larger than the universe of matter (the difference in size is described in the scriptures as a small basket versus the size of the Earth) and the Universe of Truth is

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equivalently very much larger than the Universe of Light.

After a human being or any being dies on Earth, one may travel to heaven located in the Universe of Light and enjoy the beauty and freedom of the mind in the very much larger spaces. In the Universe of Light, we will have much less mental blocks than here on Earth where we are currently restricted with things like traffic lights, examination results and sometimes racism.

But if one's merit is greater, one may live for a long time in the Universe of Truth, enjoying much greater freedom and expansion of our minds. Here a human soul can become as large as a galaxy enjoying great freedom.

If one's merit is even higher, one will merge with God, fully in the state of realization that one is God himself, having all knowledge and power.

Therefore, as humans evolve spiritually, they are increasingly freeing their minds of blocks and restrictions.

An analogy of the restrictions we put upon our minds is a baby elephant tied with a rope to a pole. When it is young; it physically cannot move much away from the pole. But when it grows big, it can easily break the rope but continues to stay near the pole because it has been mentally blocked from moving away from the pole. Similarly, as humans break their mental bonds, they acquire immense power. This explains the immense power of good or even bad people in the stories of the Puranas.

When we dream, we are travelling immediately to the Universe of Light. When we think deeply, we are travelling immediately to the Universe of Truth. Therefore, there is no need for rockets for us to travel into deep space; with some meditation techniques we can control this travel as sages have done.

Humans or all other animals have blood vessels as well as complex systems of nerves but what cannot be seen with the range of e-m frequencies perceptible by humans or machines developed so far is a very complex system of energy pathways. 101 of them emerge from the heart region in a thumb-sized source of life. Each of the 101 splits up to 100 channels and each of those 100 channels splits into 72,000 channels.

Of the 101 pathways from the heart region, one leads to the crown of the head and is well-developed in spiritually advanced sages. When they pass away, their lifeforce travels up this energy pathway and need not come back to Earth to strive again; they have full realization that they are God. Some do come back to Earth, only to be guides for the rest of humanity on Earth.

Traveling Through Space

As mentioned in the beginning of Chapter 2, the fact that the Milky Way galaxy moves much faster than the Sun and the Sun move much faster than the Earth indicates that fast moving objects have higher mass.

The specific speed of the Earth, the Sun and the Milky Way are 107,000 km/h, 792,000 km/h and 2,100,000 km/h respectively.

From this data, one can observe that as the mass of these three bodies increase from the Earth, the Sun to the Milky Way Galaxy, their speed increases. And Einstein stated that mass will increase as speed increases till it reaches infinity at the speed of light. Einstein's equation of relativistic mass is:

$$m = \frac{m_o}{\sqrt{1 - \frac{v^2}{c^2}}}$$

where:
m is the relativistic mass
m_0 is the rest mass
v is the velocity
c is the speed of light

As the velocity approaches the speed of light, the denominator approaches 1-1= 0 and therefore m or mass of the particle approaches infinity.

The speed of light is 1,079,252,848.8 km/h ((1079252848.8 km X 1000 m) / (60 min X 60 s)) $\approx 3\times10^8$ m/s).

Since rockets have a very low mass compared to the Earth, the Sun or the Milky Way, it can be predicted to fail to reach even the nearest star (Proxima Centauri) which is the 4.24 light years away. This means once we reach the impossible speed of 3×10^8 m/s it will take 4.24 years to reach the next star.

Upon the Big Bang, the atoms moved at a relatively slow speed compared to what emanated initially, which was truth and light. Atoms formed the universe of matter, in which we are living now. The current size of the universe of matter, with all the stars, is humongous but the universe of light is very much bigger. Similarly, the universe of truth is very much bigger than the universe of light.

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Beyond the three universes is the pure empty space which is God.

The human mind is the most incredible creation in the entire universe. It is a biological machine, which can, in a dream, travel to an incredibly huge distance to the universe of light. In deep thought or meditation, the mind travels to an even further distance to the universe of truth.

Therefore, humans can already travel incredible distances all over the universe with the body we have. This is controllable with meditation techniques; some secret government agencies are already utilizing these techniques to spy on other countries. Therefore, there is no need to build rockets to make observations of the universe. Rockets should be utilized only to help put satellites in space as an aid to mankind here on Earth (Miroshnichenko, L. 2023).

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