

Why The Universe? Gravity⁰ & Energy²!

By Karl Funds 2021-01-31

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Preface

To understand the Universe, perception needs to be from the Universe's point of view. The Universe is a 14.6-billion-year-old perpetual motion machine. The Universe uses light for distance and time, The Universe is a self-contained system where energy, gravity, and the resulting matter are neither created nor destroyed. Everything is recycled. The Universe is not constructed with consideration to 100-year lifespan organics. Gravity⁰ and Energy² are the only forces in the Universe. The beginning was the interaction between Gravity⁰ and Energy² which created a flow of matter in a non-cyclical motion outward in all directions at various angles creating a non-evenly distributed Universe. There is a wave generated every nanosecond moving the previous wave outward at the speed of light and carrying all information from one nanosecond to the next. Nanoseconds are the speed-of-light where pica-seconds are the speed-of-light squared. The quantum (vertical) interaction between Gravity⁰ and Energy² creates 11 Dimensions of power. The nanosecond horizontal waves create continuity and contiguousness of reality. The same energy/gravity exchange happening at the molecule level is happening to galaxies and the universe.

The Universe is an entity. A perfectly balanced machine. Gravity⁰ and Energy² in different proportions create the 11 levels of energy. Matter as we know it is the fourth dimension. Nothing is created and nothing is destroyed.

The only way to go from one point in space to a different point, whether a meter or million light-years, is the distance that must be traveled. There are no short-cuts for 100-year life=span organics.

Time is a function of the outward energy waves which humans view at 1/1,000,000 at the speed of light. Time is constant in one direction: outward from the center. Time is not vertical. Time is horizontal not to be repeated or changed. Time is Future/Present/Past. The past is always moving outward at the speed of light.

Nothing moves further than the speed of light. Black Holes all go to one place. White Holes send all energy to one place. There are no options that transfer faster than the speed of light. The Universe doesn't need more than the speed of light. The speed-of-light is the sixth dimension. There are no wormholes, warp-speed, or transporters in the universe. If aliens are on Earth, then they have been here thousands of years.

The Universe had a beginning and by the laws of entropy, will have an ending. How long is the Universe's cycle of expansion and redaction? Hundreds of billions of years and this cycle is 14.6 billion years old.

Billions and billions of years old with billions and billions of waves per second. Every wave is a result of a percentage of Gravity⁰ and Energy².

Light and Light-Squared

I start talking about c_1 and c_2 , and my friends will say, "my head hurts, stop."

Hawking wrote in the preface to his *Black Holes* book that, his editor told him "every equation will cut your sales in half."

Well, I am not trying to sell books, but I don't want to make heads hurt either.

Why would I think that I could contribute anything to understanding universal mathematics, that is far beyond my understanding, yet, as a whole, they formed a picture that I had never heard described before.

I had a picture that I have not yet seen painted or drawn operating the way I saw reality. I am trying to use words to translate a visual term, to that which can only exist as a visual reference. Using the previously mentioned string, I want to describe how the string can exist, and how all energy vibrations from the infinitely slow c^0 and to infinitely the fast c^2 affect what we see and what we don't.

Cheers,
Karl

Introduction One

- Gravity⁰ and Energy² are the only forces in the Universe.
- For every force there's an equal and opposite force¹; therefore.
 - If Gravity⁰ holds everything, then Energy² exists separate from gravity, as a force to excite matter.
 - Matter, in all forms (solid, liquid, gas, and plasma) is a result of a percentage of Gravity⁰ and a percentage of Energy². Every particle in the universe is a quantum exchange happening every nano-second.
 - $E=mc^2$ gives the energy relationship within any particle: The equal and opposite opposing force to energy is gravity.
 - $G=m/c^2$ or Gravity⁰ equals mass divided by the speed-of-light squared.
 - And by extrapolation, $M^2=EG$ or $M=\sqrt{EG}$
- There is only on or off, zero or one, yin and yang.
- The Universe is a 14.6-billion-year-old perpetual motion machine.
- There are no anomalies in the Universe.
- The Universe uses light to tell distance and therefore time between objects.
- The speed-of-light is a range with particles moving slightly faster and slightly slower the speed-of-light or approximately 186,243 miles a second.
- Faster-than-light is faster-than-time. The Universe doesn't need to go farther than speed-of-light.
- The Universe has a pulse. Every nanosecond the Universe expands by half the width of a molecule's nucleus. This outward roll or expansion is an expanding sphere each nano-second being moved out by the next wave replacing it. Each nano-second is the movement of light. All matter is in transition.
- Nothing travels **farther** than the speed of light. There are particles **faster**, revolving around light particles, but these don't go **farther** than light. Only faster.
- There is no possibility of farther-than-light travel. Organic matter has a speed limit of around 100,000 miles per hour.
- All force in the universe is either on or off. Zero or One.
- There is no up nor down in space.

¹ Sir Isaac Newton

Introduction Two

Somewhere between high-school science and 24-hours-a-day of the SyFy channel, there are myriad misconceptions of what is science-fiction? and what is science-fact?

From transporters (Star Trek) to wormholes (faster-than-light travel), from black holes (speculated to be doorways) to travelers to other dimensions and realities, have all contributed to a confusion between what science is capable of and what is impossible. Science fiction is science fantasy because there is truly little science in science fiction. Arguments over transporters and black-hole doorways, and what the laws of space and energy (or light as we see it; make some ideas “Fantasy” verse “Fiction”. Possible or even plausible when ideas are just ideas.

Forty years ago, a super-computer was the size of a small house, so having one in every home would have been sci-fi. Identifying the impossible ideas, which are science-fiction, from the improbable, but viewed as science-possible, starts with universal absolutes which cannot be violated under any circumstances, and separating what is possible from what is not.

$E=mc^2$ is an absolute given. But something has been overlooked. Einstein predicted that nothing could exist faster-than-light squared. It is at the speed-of-light squared, that all mass becomes energy. This perception limited how c^2 was interpreted and defined. By assuming that $e=m$ at the speed-of-light (or c^1), when in fact, $e=m$ at the speed-of-light squared (or c^2). Therefore, matter may exist at the speed of light and faster until c^2 is reached. At c^2 all $m=E^2$.

So, if c^1 and c^2 , then why not (c^0) or a gravity singularity where there is no movement of any particle. The singularity of nothingness held all particles in the universe in a motionless state, and the expansion was or proposed Big-Bang which started a progression of the exchange of mass to energy or vice-versa.

If there is a c^0 , c^1 , and c^2 , how fast could energy vibrate? The limit is the speed-of-light squared suggested c^2 .

Theoretical mathematicians have calculated 11 dimensions, and a progression between c^0 and Energy² yields eleven when counting zero as the first integer.

Science-Fiction, with the help of seamless integration of virtual and real actors, has convinced many people that these films are more sci-fact than SyFy [science-fiction].

Einstein developed early theories by imagining he was watching the clock at the end of the railroad car, and conceiving of space and time in relative terms.

But the simplicity of $E=mc^2$ is without “time” as a factor of the specific moment. Time became important because a human perceptive, something that was conceivable in human terms of years, was needed to explain the world and the earth’s place in the stars in the night sky.

But time is not applicable in human-time, or years, to the Universe. Light takes tens, hundreds, millions and even billions of years traveling at the speed of light to reach earth. This is not translatable in human life spans of a hundred years. Time is not defined in human or organic, lifespans. (see Time below)

Throughout history, those who have lived forever, like mummies and ghosts, have been around for thousands of years. Egyptian pharaohs believe they would endure the tributes provided in their tombs. This amount of time is nothing to the Universe. The earth is 4,600 thousand (or 4.5 billion) years old, and the universe is more than 14,000, thousand (or 14 billion) “years” old.

Sci-fi has planted the thought of space exploration still with a human-lifetime span. Faster-than-light travel was created and embraced, as a means to have many adventures, in far-away places, with a human-life span. Wormholes, Blackholes, and other implausible ideas of being able to travel the Universe within a human lifespan, dilute the real science of the Universe. The Universe is a 14.5 billion year perpetual motion machine.

Faster-than-light travel is not possible (see below) and the only way to travel or send a message between any two points is based on speed-of-light, c^1 . The message will travel at or close to c^1 .

Reality

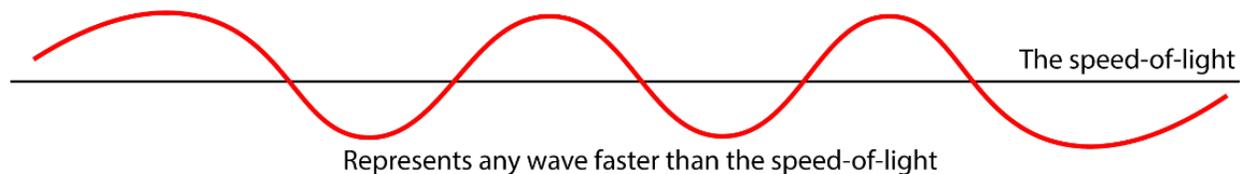
The speed-of-light being an absolute limit to the fastest exchange between any two points in the Universe, was the foundation for a “ladder” framework of all-realities and dimensions, as I imagined, being a single system.

In the following pages, I elaborate on ideas about gravity-singularity, the Big-Bang, and light-to-infinity or c^2 , and the dimensions and the realities formed. Why has the Universe happened just this one-time, that humans are experiencing [in our micro-moment in the Universe’s history], or with an eternity, could a 250 to 500 billion years cycle of expansion and collapse be happening repeatedly?

My ladder became: c^0 , c^1 , c^2 , and all matter and energy were rungs and spaces between each. The idea is that between two extremes, all possible outcomes could exist.

There is a vibration that governs how matter (inorganic and organic molecules) which manifest or exist moment-to-moment between infinity dense space and the speed of light squared.

The Universe is not just billions of years old, but billions and billions of events per second.



If you have a string between any two points, then at any point on that string could be moving, or vibrating, at any frequency as long it was solid for the moment it was needed to make the string solid between the two points or contiguous. The string can vibrate much faster than we see.

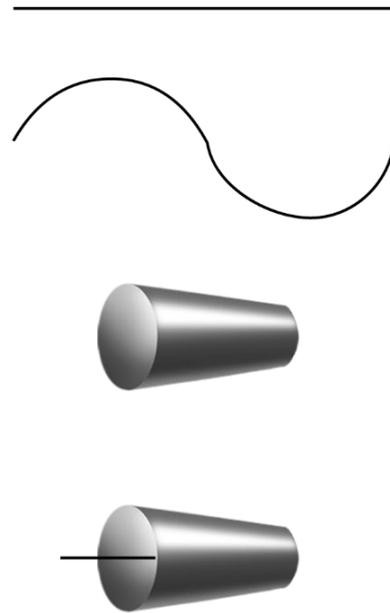
As decibels measure a volume scale, where every 10 points are twice as loud as the previous, until standing next to a jet plane taking-off is 120 decibels. Light behaves across distances and spectrums, and light or energy exists at wavelengths that create dimensions of energy that vibrates moment-to-moment between Gravity⁰ and Energy² (or from c^0 to c^2)

Before the luxury of 3-d imaging software, a line was a line, but we can now draw that line and we could rotate that line on its side, and the line is a vibration moving along what appears to be a perfectly straight drawn line.

Horizontal View



VerticalView



Each perspective of reality is governed by another perspective. The energy between c^0 and c^2 yields 11 dimensions.

In mathematics, a curve that is ascending to or descending, but never reaching the line, is called a limit.

Before the speed of sound was exceeded, there was only speculation as to what would happen; with some speculating reality would fall apart. But the speed of sound is not a limit. The speed-of-light is a limit, that requires converting mass to energy. Particle information is lost during the mass to energy transfer, and once separated, cannot be reassembled into the identical same particle it was before converting.

Once past a mathematical limit, the wave would change dramatically. When energy and particles move from Dimension-01 to Dimension-02, the energy wave is vastly different and non-reversible.

There are no limits to Energy². If all our known space were as a balloon (existing in speed-of-light governed space), then the next level of energy, or light-squared (c^2), would be like a sheet of paper just touching any moment or tangent to our reality.

There are no limits to Gravity⁰. Gravity⁰ is an absolute.

If the universe were a pond, and a pebble was dropped in the center, and ripples would move outward in circular or ring patterns throughout the pond. The waves mimic the nano-second waves generated at the center where Gravity⁰ and Energy² meet, that carry throughout the Universe being replaced by another wave a nano-second behind.

There are only two known realities which could exist: 1) exist outside the pond and look and view the pond and the rings moving through their cycles of beginning and ending waves; or 2) exist within the reality of the pond, where the wave you are part of, begins and moves through space and eventually ends. (see Time below)

Our reality is a wave with vibrations that contains wavelengths that bind everything together into the reality we see and feel, and yet, exists across dimensions we can only theorize about.

A Long Time Ago

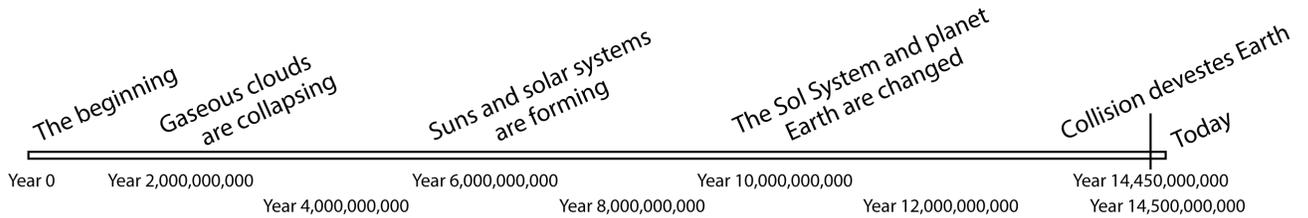
My granddad would sit outside with me at night, and he'd say, "look at all them stars, boy, and image how far apart each is from the other. The Universe is a mighty big place."

He was more correct than he could ever imagine, with the boundaries of the known universe pushed further outward with Hubble and other long-range instruments. Our knowledge of the universe has expanded exponentially since.

The expansion of the universe has been going on for some 14.5 billion years.

Billions of years and billions of miles were unimaginable to a boy and his grandfather on those cool summer nights. This was long before light pollution would dim my visibility of them. On those nights, all we had was our imagination to embellish what we saw, of what was then, called "time and space."

Fifteen billion years ago, there was nothing.



No universe. No stars to give any reference. There is no sensation of spinning because there is nothing to give any reference. There was no time or space.

15,000,000,000 years is an exceedingly long time. Fifteen thousand million years.

Only blackness with no sense of depth because there is none. There is no space.

Turn left, there is black, then turn right, more blackness. All directions. Up and down. Left and right. Just blackness.

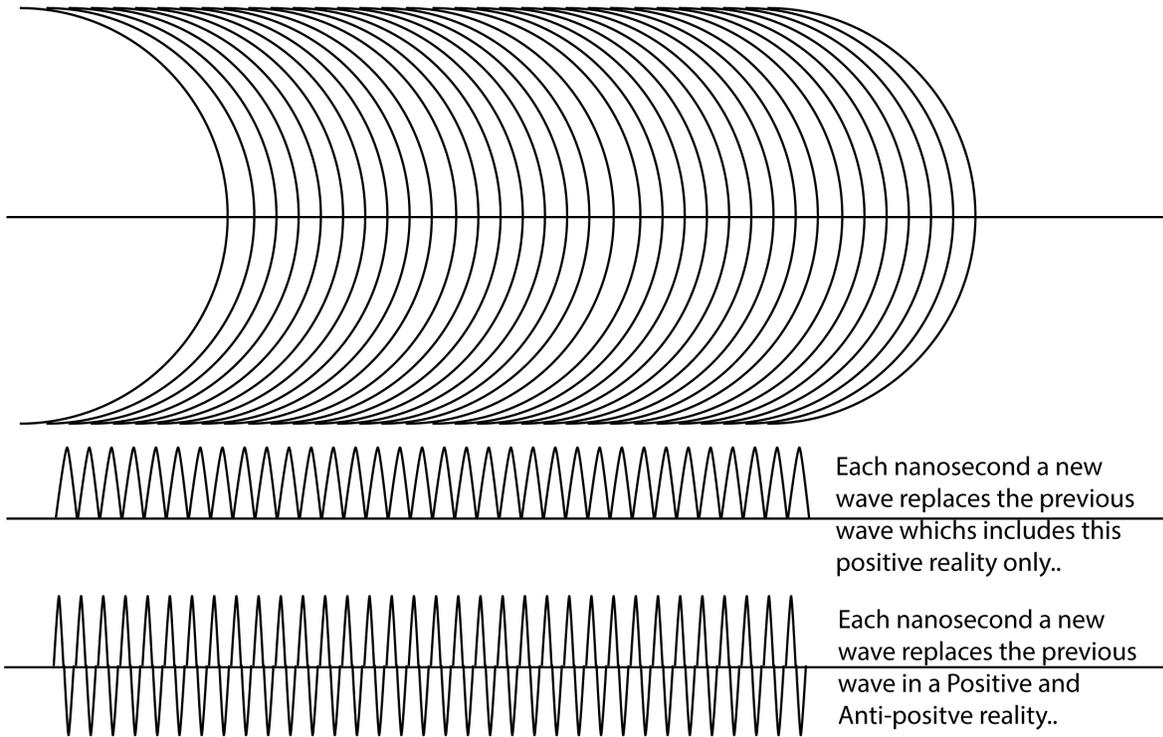
Within this limbo state, there is a pinhole of blackness darker than black. A limitless depth of darkness that points in no direction. The point appears as a point from every angle. This point is a dimension that holds all matter, with no energy to give any movement to any particle. All matter is compressed to a near infinitely small ball about the size of a soccer ball.

With no reference of time, what could be moments or light-years, there is a pinhole not of light but a muted dimmed speck best described as “reverse light.” The light is turning in on itself yet gives off no light energy. Within this speck of energy is all energy needed to give movement to every particle held by Gravity⁰. There is no light emanating. There is no context of space for carrying light from a source to the viewer. The spot is not light and yet, not the blackness.

Spheres Not Planes

The Universe is not flat, but spheres radiating from the center or where Gravity⁰ and Energy² interact. Every nanosecond a new sphere is created and moves the previous sphere outward only to be replaced by the nanosecond sphere. These are the waves of the Universe.

Nanosecond spherical waves



[Note: Anti-positive has been called Anti-matter, But it is not the matter that is “Anti”, only the charge. If there is Anti-positive, then there will be Anti-negative also. (Or Anti-Matter will have Anti-Energy.)]

Dimension-0. Zero movements.

In this place where there is no distance, these two anomalies stand apart from an endless blackness which could be light-years from each other or centimeters. Distance has no effect because there are only two forces that affect all matter, Gravity⁰ and Energy², contained within these two specks.

This “speck of gravity” is all the Gravity⁰ force holding everything. There is no gravity stronger than gravity at this point. This is the “off” in the universe. No movement and all gravity. No energy.

A place where all matter has no movement of any molecule. The object, whether a rock or a galaxy, will compress to the size of grains of sand. In comparison, all matter in the entire universe, without movement, would be about the size of a soccer ball. [In proportion, if the nucleus of an atom was the size of a marble and the electron the size of a BB shot, their distance apart is approximately three miles. The universe, even matter, is mostly emptiness. As if the moon at 230,000 miles from Earth, was brought tangent to Earth. That is an enormous volume of space compressed from a circumference of 230,000 miles to 6,000 miles [4,000-mile radius of Earth plus the 2,000-mile diameter of the moon.] The Universe was about the size of, previously mentioned, a soccer ball without energy. There is no matter more motionless than at Gravity⁰.

Dimension-10 is all Energy. All energy. No matter.

In the blackness, the “speck of energy” does not emit any brightness or light, because there is no context-of-space for light to exist. Light as we observe it moves within the context of Gravity⁰ and Energy². There is no distribution of Gravity⁰ and Energy² for light to exist. The energy speck contains all the energy to balance all gravity.

The balance, between Gravity⁰ and Energy², creates a context-of-space for any matter to exist in all forms (solid, liquid, gas, and plasma). Albert Eisenstein's² famous equation or “Specific Theory of Relativity,” defines the upper limit of all energy as the speed-of-light squared (c^2). There can be no energy moving faster than c^2 . All energy and no matter.

Gravity⁰ and Energy² are the only forces at work in the universe. All matter is a percentage of Gravity⁰ and a percentage of Energy². Gravity⁰ holds matter motionless. Gravity⁰ has no movement. Gravity⁰ is a force. This is the “off” position in the universe.

Energy² is the “on” position.

The interaction between Dimension-0 and Dimension-10 produces matter and energies in all forms.

² Dr. Albert Eisenstein ... $E=MC^2$

The Beginning

Fifteen billion years ago, there were only two opposites that had no interaction, Gravity⁰ and Energy². Separate from each other with no interaction.

Whether by proximity to each other, or an inevitable cycle of separation then convergence, Gravity⁰, and Energy² interacted.

The interaction between Gravity⁰ and Energy² did not produce an explosion. No Big Bang³. Energy, in a spiral like a tornado, is pulling matter and the accompanying gravity in a stream from Dimension-0 into a state of motion. The flow is not constant, due to inconsistent sizes of groups of bits pulled outward. The flow is always growing as each bit accelerates to the speed of light by the nanosecond. There will be a time in the first billion years where the cloud is not expanding as fast, as new matter being brought into motion, and will form heavier particles until the cloud regains expansion and the Universe spreads out.

All states of matter [solid, gas, plasma, and liquid] form between Dimension-0 and Dimension-10, becoming the reality we know. The universe is slow-moving but at the speed of light. (See graphic below)

Dimension-0 or Gravity⁰ held all matter motionless. As a human reference when trying to encompass the enormity of the universe as we see it if all matter was the size of a soccer ball, and there are at least five billion galaxies, then one/five billionth of the soccer ball will become an entire galaxy 100 light-years across with five billion stars and accompanying planets. A pinch of matter from this soccer ball is thrown into space. Each nanosecond (1/1,000,000,000) moves matter at the speed of light away from this center. Each nanosecond Energy² supplies the power for matter to start forming atoms. This stream has no reference with regards to up or down, nor vertical or horizontal. The spin of energy reaching from Dimension-10 or Energy² to Dimension-0 or Gravity⁰ is a constant spiral, but not on a plane. The rotation and spinning create an uneven distribution verse a large explosion where there would be a visible leading edge to the outward wave and if the explosion is big enough, there is a trailing edge to the explosion, much like an expanding donut shape. There would be outside and an inside with a hole in the center. In space, this is a sphere expanding. There is no reference in cosmology for a leading edge to the universe. The distribution of galaxies indicates a spin as an origin, not an explosion.

An explosion also implies there was an imbalance that caused everything to be released from Gravity⁰. There has also been a hand of God causality presumed. This proposed model has no explosion.

The universe is simply in an on or off, zero or one, yin or yang position at any nanosecond.

The range of the speed-of-light is Dimension-05. There are five dimensions where energy will increase exponentially to Dimension-10, as energy decreases from Dimension-05, or the speed-of-light, to Dimension-0.

³ Dr. Stephen Hawking – Big Bang Theory

The very first molecule.

Every particle in the universe is created by a percentage of Gravity⁰ and Energy⁰. All matter exists between Dimension-0 to Dimension-10. There are eleven Dimensions [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10] when counting zero as an integer. Eleven levels of gravity and energy combining in percentages to form matter (see chart below).

In space, the pinhole of Energy² sent a spinning spike of energy toward the pinhole of Gravity⁰. There is no up or down here. No direction in which to go. In the nanosecond [1/1,000,000,000th of a second] this first particle is pulled from Gravity, it enters the first dimension, where movement is in one direction only, or up and down. From zero movement into the first dimension requires energy per Einstein's $E=mc^2$ formula, where energy raised to the speed-of-light squared has no matter. Dimension-01 requires energy to keep the *matter* from falling back into Dimension-0.

The first freed particle is then pulled from Dimension-01 into Dimension-02 with two directions of movement, up, down, left, and right.

The third dimension [Dimension-03] naturally follows and then the fourth.

The fourth is the three directions of Dimension-03 and the movement of all particles moving outward every nanosecond. In the first second, the universe is a ball with a radius of 186,242 miles.

Dimensions.

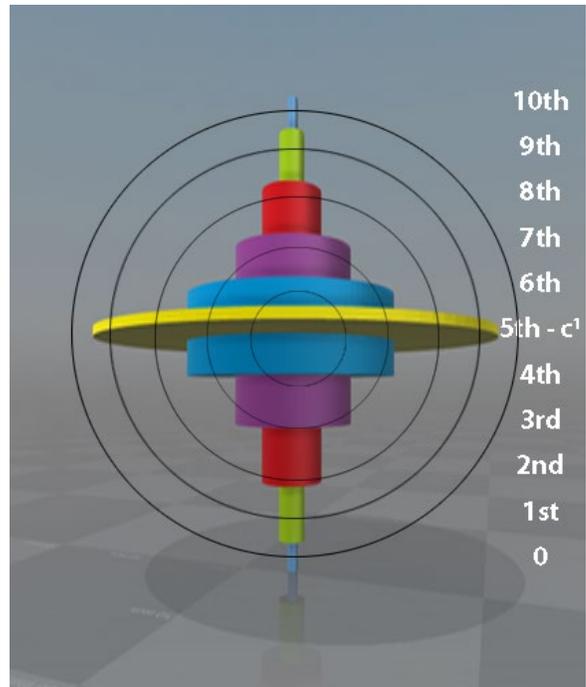
Dimensions are not other realities or parallel existence. Dimensions are progressive levels of energy and gravity combining.

Dimension-0 to Dimension-10 result in eleven dimensions when 0 is counted as an integer.

[0 is 1, 1 is 2, 2 is 3, 3 is 4, 4 is 5, 5 is 6, 6 is 7, 7 is 8, 8 is 9, 9 is 10, and 10 is the eleventh dimension.]

The speed-of-light value is approximately 1 foot per second. One-billionth of the speed-of-light or 186,242 miles/hour times 5,240 feet/mile = approximately 1,000,000,000 feet per second. Or about 1 foot per nanosecond.

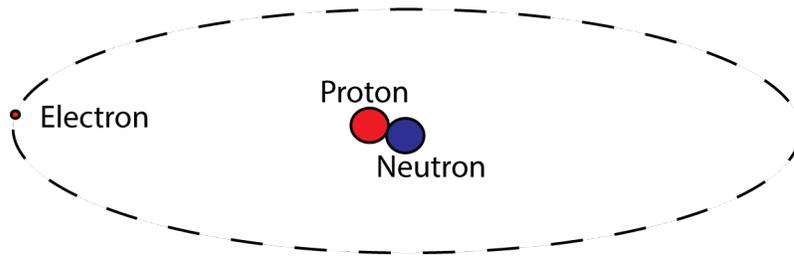
The speed-of-light squared, c^2 , is a pure state of energy with no gravity. Energy at c^2 equals 1/110,000,000 of an inch. Energy has turned in on itself to an almost infinitely small area.



- Dimension-0 has no value for movement since there is no movement.
- Dimension-1 has a value of 0.1
- Dimension-2 is 10
- Dimension-3 is 1,000
- Dimension-4 is 1,000,000
- Dimension-5 (speed-of-light) is 1,000,000,000
- Dimension-6 is c times 1.1
- Dimension-7 is c times 10
- Dimension-8 is c times 1,000
- Dimension-9 is c times 1,000,000
- Dimension-10 is 1,000,000,000 times 1,000,000,000 or c^2 .

Energy at the speed-of-light will increase speed by turning in-on-itself. Energy goes faster in a smaller area. Dimension-10 will be a size comparable to the soccer ball unit of mass when Gravity⁰ held all matter.

The Atom.



The Atom: The model of the atom that has been accepted for 150 years, needs revision. The proton, electron and neutron models is (are?) incomplete.

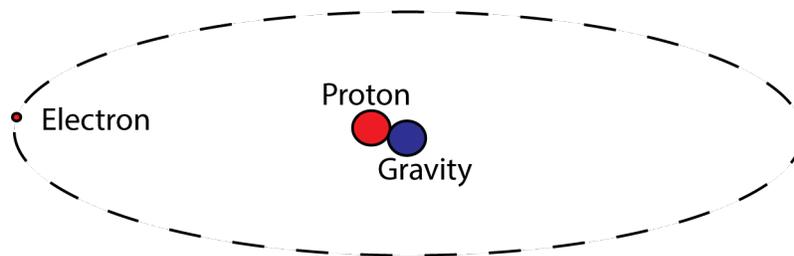
There is nothing “neutral” in the universe, so why is neutral an integral part of the model of an atom?

The Proton and Electron have opposite electrical charges but remain together. If these were magnets with opposite charges sitting on a table, they would repel as far as gravity and friction would allow. IN space, there would be no restrictions. They would fly apart and continue to do so. Yet, if the Neutron was gravity [$G=m/c^2$] the electron would be drawn by gravity and repelled by oppositely charged Proton.

The Neutron is a portion of Gravity⁰ holding the Proton and Electron together.

The value of Gravity⁰ is ridiculously small or equal to mass divided by c^2 . [$G=m/c^2$]

Gravity⁰ holds everything together. Molecules are held together by gravity. Molecules of the same gravity attract. Bonds are formed because of gravity.



Gravity and the Proton will tumble every nanosecond as every molecule also tumbles outward in a spherical wave which was created by the new sphere following this wave with a next wave. Every nanosecond as the universe expands. All particles in a wave remain in that wave from the beginning until the end.

Gravity holds and energy gives motion. Gravity likes gravity and energy likes energy.

Clouds form because of gravity. Water molecules congregate by attraction. Though heavier than the layers of oxygen below, the surface tension of water molecules keeps the cloud together floating above the atmospheric layers. Like a boat on the water. Oversaturate the cloud with water, and the cohesion breaks apart into rain or snow.

The Expanding Universe.

The first molecule created by the first movement in the blackness of nothingness gave time a context. Time is a measure of the movement and length of units traveled. Light gives the relationship between two objects. Light is time and distance for the Universe.

Energy in Dimension-10.0 is vibrating at a pica-second or 1/110,000,000 of an inch.

Gravity's surface tension held matter, but once broken, a stream poured forth at the speed of light in all directions. Each nanosecond created a spherical wave moving outward. All molecules in any given wave will roll over every nanosecond, or the speed of light and expand the universe by the width of an atom's nucleus. The Universe will expand until a collapse into local Black Holes. The Black Holes all go to the same place, [location 0,0,0], the center.

That soccer ball size of matter held billions of galaxies. A pinch of that mass will yield a galaxy with billions of suns and planets. The matter will expand into the gaseous-like clouds observed in the universe. The particles of gravity embedded in each molecule will hold the cloud together.

During the release of matter and gravity from Gravity's hold, there are also bits of free Gravity released. Freed gravity bits are at the center of suns. In areas where there is not enough matter for the formation of a solar system or galaxy, then the Black Hole is free standing.

Areas of gaseous clouds are without the Gravity⁰ needed to collect particles into suns and planets. These areas are energy heavy.

Dark areas in the universe are Gravity⁰ heavy. Not enough matter to pull inward, nor enough matter to form a Black Hole.

There are areas of space heavy with Gravity⁰, and nebula the larger than a galaxy which is light on Gravity and heavy on Energy.

The formation of a Black Hole precedes the formation of a galaxy. It is the spinning of the black hole and the force of Gravity⁰, which pulls nebula into circular motion on a horizontal plane. As the center pulls in, bits of Gravity⁰ are also forming suns, which pull matter into solar systems.

Galaxies will form around Black Holes. Black Holes also form individual suns. Suns form solar systems through a circular motion in a horizontal plane forcing particles to collide forming planets and moons. Gravity⁰ and Energy² interacting produces the universe.

Black Holes.

All Black Holes go to the same location: 0, 0, 0. The origin point of Gravity⁰. Regardless of the direction, a Black Hole may be facing, all gravity and particles go to Dimension-0.

White Holes surrounding Black Holes are Energy² being pulled from matter and absorbed by higher dimensions, Dimensions-6 to Dimension-10.

There are no “warp” holes sending voyagers or matter to a destination at a speed faster-than-light. It will not be possible.

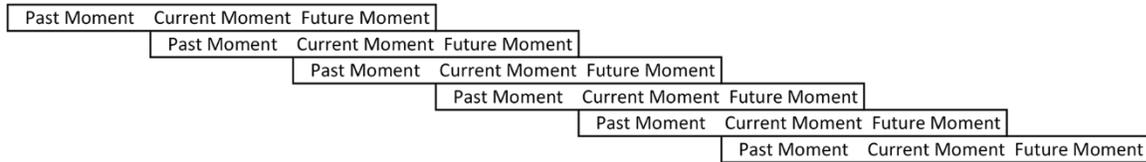
There is no going farther than light. [see Time]

Black Holes are a door to Dimension-0 that has to be traveled through Dimension-3, where energies are released; to Dimension-2, where more energy is released; and finally, to Dimension-1 then Dimension-0, with no energy or motion. The result is pure Gravity⁰ and pure energy not visible from our 4th dimension.

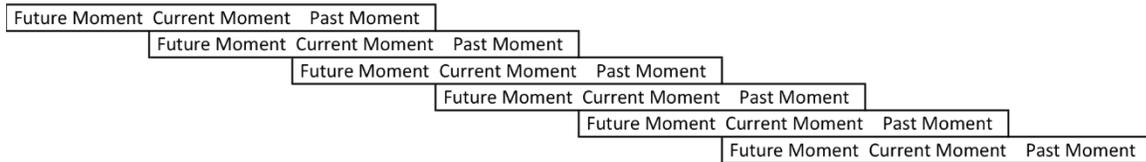
Time.

Time is NOT vertical. There is no going back and forth in time as *The Time Machine*⁴. The Universe uses the speed-of-light for time and distance. For organics, we observe the speed of light. [c=11,000,000,000 inches/sec] but process about one-billionth of that [about 1 ft/sec.] Time is on the Universe's scale, both small [down to pica-seconds] and large [to 14,500,000,000 years at the speed-of-light.]

Time has been seen where a future is coming at us leaving the past behind.



The above is how most view time. The past is behind, the future is waiting to happen. The current moment is a combination of past, current, and future.



Our reality is based on light. Light gives all the information needed. Light is the reference for the Universe. On Earth, we have Sol for light. Light takes about 500 seconds to travel from the sun to the Earth. That amount of time is all the future that is assured. Humans interact with a fraction of the information flowing through us every second. Then light continues outward, at the speed of light.

Faster (farther) than light is faster than time!

Example: Planet-A sends a transmission to Planet-B one-lightyear apart. A ship leaves Planet-A and travels two times [2x] the speed-of-light, arriving 6 months before the transmission. Going Farther than the speed-of-light violates time and being in two places at the same moment.

Energy does not go farther as it accelerates beyond the speed of light. Energy turns in on itself starting in Dimension-06. The range of the speed-of-light is the farthest-reaching energy.

There are cosmic rays that can precede light, but these rays are still in the range of the speed of light.

Waves or vibrations in every nanosecond are replacing the previous wave of every nanosecond. Everywhere there is the exchange of energies. The constant of Gravity⁰ holds it all together.

⁴ H. G. Wells.

The Universe uses light as a measure of distance and therefore units of time. There is no need to go faster than time. Not at 14.6 billion years old. The Universe has patience. The Universe waits. It has no ego to question a perfect perpetual motion machine. Or make adjustments for organic life.

Time for organics is reached by knowing how long the species will live, then create a calendar.

Time cannot be changed. The past had a moment, which has continued outward at the speed of light with every nanosecond heartbeat of the Universe.

Everything moves outward. Space itself is moving outward. Since everything expands constantly and equally, there is no perception of any change. When everything expands, even the scales expand at the same rate.

A moment creates a photo of that moment, that photo has been replaced by another and another behind that one. Constantly moving outward, every nanosecond, being replaced by the future. The past travels at the speed of light. Away. It cannot be caught up to. Nothing can go farther than light and light is flying away.

The past will always be the past, and the future is 500 seconds ahead.

To affect Time, the moment would have to be waiting to happen, but moments happen and are gone. Time cannot be changed. There are only 500 seconds before any moment happening on Earth.

Every moment, every nanosecond is replaced by a new one. The old moves out and is replaced by the new.

In The Darkness, Far from All Light.

There is a place so far from the light of our Universe, another 15 billion lightyears from the farthest point outward, where before the beginning exists. This place has no visible light for reference. So, there is no up or down, or left or right. Only blackness. How would light from a flashlight behave without the context of the Universe and the balance of Gravity and Energy to give all light a context to exist within? With nowhere to go, the light doesn't go aware. The light will generate in the unit, but there will be no projection into the darkness. Nothing exists to transmit the light. The balance of Gravity⁰ and Energy² creates reality.

My Grandfather.

Daddy Karl could never have imagined just how far apart the lights in the night sky really are. The dots we thought were suns in 1960, were whole galaxies of billions of stars. Nathan B. Karl was born in 1888 when stars were stars. No cars, no electric lights, no phones. Only the stars and fires for light at night.

He was as responsible for me learning about Gravity as any teacher. I was five and he would drive from Elkton, Md to our home near Wilmington, DE to get me. I was the only grandson. Coming back into Elkton there was a ½ mile steep decline at which time he would pull over, sit me in his lap, put the car in neutral, and I would steer down the hill. I couldn't reach the peddles, but I did see over the steering wheel. Gravity never failed.

Why?

As I have aged, life has gotten more and more difficult. Every answer requires a doctorate to understand. Life is simple and should be so. Be aware or not. See the world or hope the world sees you. But the Universe doesn't care. The Universe goes on because it doesn't care. The Universe is a machine built to sustain and grow.

The Universe has no secrets. All aspects we need are visible.

The Universe has a heartbeat every nanosecond for the past 14.6 billion years.

The Universe is Gravity & Energy.

Addendum 1 - Aliens

As outlined above, traveling space is very difficult and unimaginable for 100-year lifespans.

There is no traveling any faster than the speed of light. For signals and communications will travel no farther than the speed-of-light.

Organic life in any spacecraft will vibrate faster as the speed of the craft increases. With increased speed, there are increased vibrations. At **all?** matter approaching the speed-of-light will spread until it is unrecognizable from light. Organic life has a speed limitation of about 100,000 miles an hour (or 60 minutes or 3600 seconds). At 93,000 miles an hour, it would take 7,200 years to travel one (1) light year. Our current spacecraft hurdle at about 20,000 miles per hour.

Life can not be frozen or suspended or preserved during any journey. Being long-lived is the only means of space travel. If it takes 7,200 years to cross a lightyear, then these aliens are not going to have a quick look-see and turn around and go home. They are on a journey of at least 15,000 years or longer [7,200 years each way plus drinks]. Aliens would have 50,000 to 100,000-year lifespans or longer.

Therefore, if aliens are on Earth, then they have been here for thousands of years. Stop worrying.

Addendum 2 – The Earth is not a planet!

As detailed in my paper, The Earth Is Not A Planet, but a Freed Moon by Karl Funds, four billion years ago, the first planet in this system was a 30,000 to 40,000 mile in diameter gaseous planet which orbited at about 100 million miles from the sun. A catastrophe crushed the planet into the present asteroid belt and freed approximately 20 of the planet's moons, including Mercury, Venus, Earth, Earth's moon, Mars, Mars moon, and probably Pluto which has traveled outward for four billion years.

Addendum 3 – Earth and the Moon

How has it come to pass after thousands of years of human history, that nearly every object in the sky has a name with exception of our earth and our moon?

We call them by their generic because we have never named the earth Gaia and the moon, Little-G.

In looking outward, it is always good to systematically confirm your footing is on solid ground.