

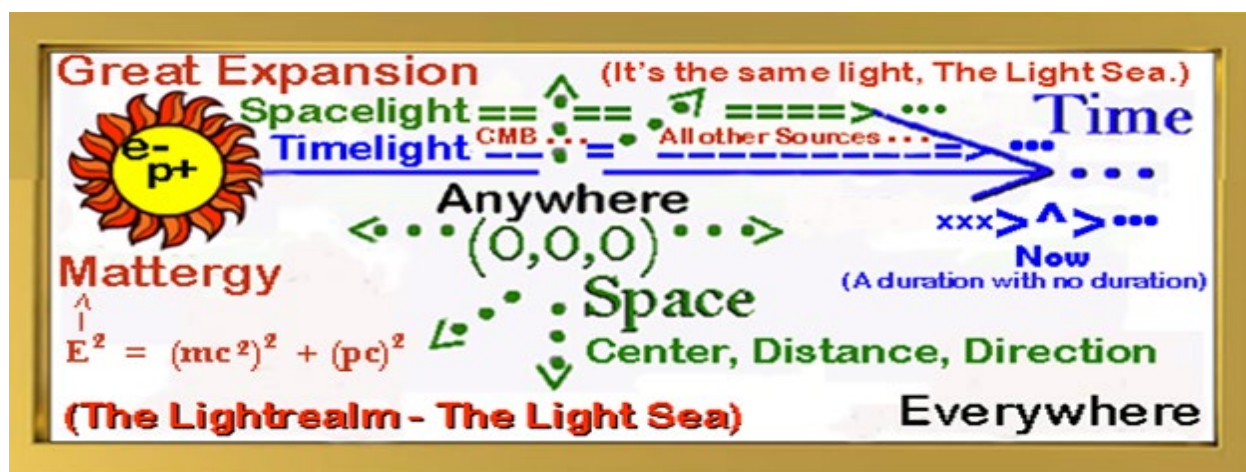


# The Newtonian Framework

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[Open Me. Adventure Awaits.](#)



## The Modern Newtonian Perspective

Your Guide to The Newtonian Approach

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## **Walking the Newtonian Framework**

**The Foundation (The building blocks of understanding):**

**Axiomatic Scaffolding, the recognition of axiomatic truth, the foundation of anchored, proper knowledge. (Axioms are, by design, self-evident, no proof needed, only recognition.)**

**The Audit Layer (Enforcing A is A):**

**Distinguish proper from improper truth. Improper truth—unanchored, unevidenced—is refused. The Audit Layer walks only what threads clarity. Extraordinary claims require extraordinary evidence.**

**The Process:**

**Apply proper knowledge through the scientific method to walk proper truth—repeatable, falsifiable, and referent-aligned.**

**Have an Open-Mind (The “how to” of any new, proper truth):  
An open mind is the gate. Discover further proper truth from existing truth and presented evidence, the only means to any proper future discovery. From what is known and evidenced, we walk into what may be. Hypothesis is the bridge; audit is the compass.**

Hello, curious minds and scientific stewards.

Request for **peer review**:

I'm Craig Seavey, a creative individual passionate about clarity, agency, and proper truth. I offer the Newtonian Framework: a rigorous, readable, and scalar approach to restoring referent clarity in physics—preserving the math, refining the descriptions, and anchoring every claim in falsifiability and audit. The Newtonian Framework restores clarity using a modern Newtonian approach to discover and apply proper truth, verifiable, falsifiable, compatible with the scientific method. The Newtonian Framework is thorough in scope, readable, entertaining, demonstrably scalar in result. I ask for collaboration. One curious mind is enough. A hundred would be better.

**$E^2 = (mc^2)^2 + (pc)^2$  is completely unchanged.**

*That 4th dimension is mathematically convenient. Nothing wrong with that, at all.*

**What I do:**

- 1) Define space. (*Centers, Distances, Directions*)
- 2) Define time. (*Rank-0 tensor, Time spans as experience*)
- 3) Move agency from spacetime to mattergy where agency properly belongs.
- 4) Reframe the descriptions for clarity, aligned with proper truth.

The Newtonian Framework is scalar in result, modular in scope, rigorously described. One curious mind is enough. A hundred is better.

**Is it you? What do you say? Yay? Nay? Either way, this inquiring mind wants to know.**



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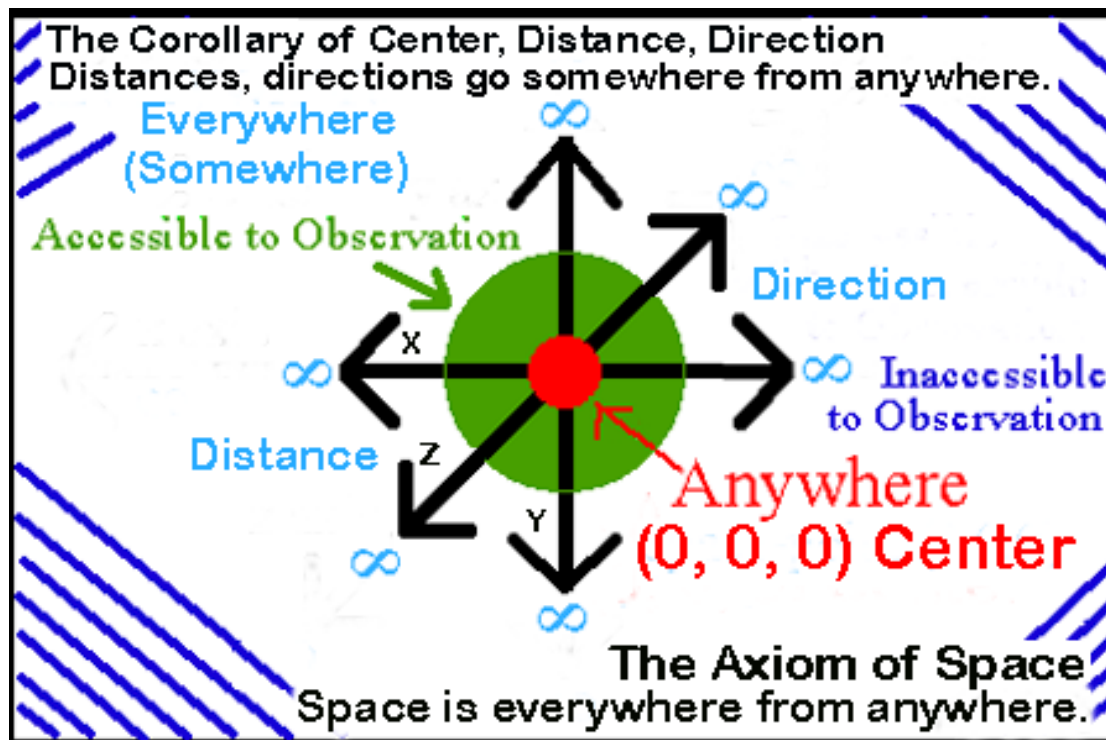
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# 1. The Axiom of Space: *The Euclidian Space.*

^ ->



**Space is everywhere from anywhere.**

- Space is the first condition, self-evident, no proof needed.

**The axiom of space is self-evident.**

Space is simply space. Space is Space. A is A.

Space requires no proof. **Space presupposes proof.**

The Euclidian coordinate **(0, 0, 0)** is The Center of The Universe.

**From anywhere (0, 0, 0), all Space derives.**

Space is **ordered and centered**, from any perspective.

Space is inclusive for every measure and motion.

Space is a metaphor, the origin of any map of Space.

To observe Space is not to locate Space, but to locate mattergy in space..

**The relation of Space to Time:** *Space is everywhere from anywhere.*

<> *Time is everywhere now, anywhere measured.*

**Space is everywhere, always in the Now. Now is everywhere at once.**

**Space is observed directly for what it is, simply Space.**

**Space is the condition for distinction, not a distinction itself.**

## Euclid: *Some Definitions ...*



1: A point is that which has no part → dimensionless anchor.
2: A line is breadthless length. → no width.
3: The ends of a line are points. → these points are dimensionless, too.
4: A straight line is a line which lies evenly with the points on itself. → no bend.
5: A surface is that which has length and breadth only. → planes are 2D.

## Euclid's *Five Postulates ...*

1. A straight line can be drawn from any point to any point. → Directional anchor. Rank-1 vector consequence.
2. A finite straight line can be extended continuously in a straight line. → Scalar extension. No stitched curvature.
3. A circle can be drawn with any center and radius. → Symmetry in scalar space. Curvature without inflation.
4. All right angles are equal to one another. → Geometric consistency. Scalar invariance across frames.
5. If a line intersects two lines such as the interior angles on the same side are less than two right angles, the two lines will eventually meet. → The parallel postulate. The non-Euclidean's don't like this, seems perfectly fine to me. But then, I'm Euclidian. Sheesh.

## DesCartes' *Five Postulates ... (Extensions of Euclid)*

1. A referent can be anchored between any two points. → Modular direction. Rank-1 vector consequence.
2. A scalar extension can be continued without stitched curvature. → Audit integrity. No inflation.
3. A curvature can be drawn from any center with any radius. → Symmetry in scalar space. Glyph of consequence.
4. All right angles are scalar invariants. → Geometric consistency across frames.
5. If a referent intersects two frames such that the interior consequence is less than scalar parity, the frames will converge. → Parallel postulate rephrased. Audit over assumption.

---

## 1a. The Corollary of Center, Distance, and Direction.



### - *Distances and directions go somewhere from anywhere.*

**Space has no agency.** Space cannot flex, bend, expand, contract—none of that. Space has no substance for agency to occur. Space is a mapped terrain: a canvas of projected infinite distance in an infinity of potential directions. Space is mapped in context, anchored by chosen center/origin. Direction is scalarized when a line segment is drawn between two origins—its slope expresses consequence, not agency.

**Centers:** Centers relate space outward from a chosen point. Context determines the center. Centers may appear within finite Euclidean objects—a baseball, a geodesic dome, the Earth, the Sun, the Milky Way. Centers of infinities are always arbitrarily placed. The center of the Universe is any arbitrary anywhere—a somewhere in everywhere.

**Origins:** Origins acquire meaning only when particular distances are measured. Origins are endpoints. Both sides of a distance measure are endpoints of that measure; one is a here, the other a there. The here and there are interchangeable. Orientation does not affect measure. Take a yardstick: does it matter if the measure is right to left, left to right, up to down, down to up, in to out, or out to in? No. It is the same distance that is measured.

**Anywhere:** From any center, all space is derived. The Center of The Universe can be anywhere, yourself, myself, planet Earth, the Solar System, Sagittarius A\*, Andromeda, Laniakea Supercluster, any choice of center is proper according to context. Context determines the chosen center or the chosen origins of any broad measure.

**Everywhere:** The set of all potential origin points for distances and directions.

**Somewhere:** A location at a finite distance, in a particular direction. Distances are always measured from somewhere to somewhere else. Again, somewhere and somewhere else are interchangeable.

The **axiom of space** is embedded in all such measures. **Somewhere** is a particular location. **Anywhere** is any one of the particular locations within the infinite **everywhere**.

---

## 2. The Axiom of Mattergy: **Mattergy matters.** <- ^ ->

-  $E^2 = (mc^2)^2 + (pc)^2$  -> rest mass + momentum derived energy -> **mattergy**.

<See it. Believe it.>

***The relevant “newly coined” compound abstraction is Mattergy.***

*Relativity is fine mathematically, just poorly described with respect to reality.*

*Let's ground our abstractions properly. Yes, Mattergy matters.*

*Clarity matters, too. (We're quoting Captain Obvious, true.)*

**Space is everywhere from anywhere.** -

Space is the first condition, self-evident, no proof needed.

Space is Space, simply space. Space is Space. A is A.

The Euclidian Center (**0, 0, 0**) is the anywhere from which everywhere derives.

Euclidian Space is a framework of distance and direction from a center.

***It is said, in the absence of mattergy space is Euclidian, i. e. Flat\*.***

***Well, duh! That's because space is flat\* anywhere and everywhere.***

***So, what then, is curving? lensing? bending? worm holing? black holing?***

**Mattergy does that. Mattergy matters. It sure does.**

**In The Newtonian Framework the relativistic agency(s) applied to space and time is/are moved to mattergy where consequence properly belongs. My bad: ‘\*’ By flat\* we mean spatial, not planar.**

---



### 3. The Axiom of Time:



***Experience before measure.***

<See it. Believe it.>

**Space is everywhere from anywhere.**

**Time is everywhere now, anywhere measured.**

**The Now is a duration of no duration:**

xxx>^>...

**^ Infinity in. Infinity out. No in-between**

**Past Future**

– From anywhere, the Now is everywhere at once. The age of The Universe is now after now after now, each sequence the same. Space is irreducible yet revealed through change.

**Time is measured as time spans:**

Measures of the now, with begin, with particular or projected end.

Time spans are always abstractions—never directly physical.

Time spans exist as experience: a second, a minute, an hour, a day, a lifetime.

The Universe experiences years in that sense. 13. 8 billion years currently.

Time spans are measured, yes, but lived through as well.

- **Time spans are measured abstractly as a sequence of Nows.**
- **Time flows now to future wherever and whenever experienced.**
- **Time is both measured and experienced.**
- **These are separate things.**
- **The experience of time is always now, however measured.**
- **Time is *lived through experience first, measured after.***

<Tensor> <Embed> <Time-Spans> <Travel> <Concept> <Universe>

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**3a. The Now** (The duration with no duration.)

<- ^ ->

**3b. Planck Time** (The smallest measurable duration.)

**3a. The Now** (*not what passes or will pass...but what is.*)

**The Now is a duration-with no duration**

xxx>^>...

**just points of temporal presence, indivisible and unmeasured.**

Analogy: *The 'arrow' of time.*

\* *Time is not a dimension, rather, a rank-0 tensor.*

\* *Time is only the Now, nothing else.*

\* *The Now is both non-spatial and non-extended.*

**Hence: The Now lacks duration, any duration whatsoever.**

xxx>^>... **Infinity in. Infinity out. A duration with no duration.**

**3b. Planck Time: Start->[ ]===== [ ]<-End.**

(The now moves through the Planck Time.) xxx>^>...

(Past) **Now** (Future)

**Planck Time** is the fundamental unit of time in the system of Planck units. It represents the time it takes for light to travel one Planck length in a vacuum.

**The standard equation is:  $t_P = \sqrt{\frac{\hbar G}{c^3}}$**

**Where: \*  $\hbar$  is the reduced Planck constant.**

**\*  $G$  is the gravitational constant.**

**\*  $c$  is the speed of light in a vacuum.**

**$t_P \approx 5.39 \times 10^{-44} \text{ seconds}$**

**Planck Time (PT)** is considered the shortest meaningful interval of time—below which the concept of time loses all validity. Yeah, right. As **The Now** crossed  $\frac{1}{2}$  **PT** there was another  $\frac{1}{2}$  **PT** yet to cross.  $\frac{1}{2}$  **PT** later we start our next **PT**. That **PT** we just spoke of? One more **PT** for the history books.

**PTs fly by in the blink of an eye, only to become abstraction...**

***PS. This works with seconds, minutes, days, any unit measure.***

## Demonstrable Proof: *Who proves axioms?* <- ^ ->

Okay, let's **demonstrate** the **axiom** of **time** (there we go!):

<b>Any Unit-Measure:</b> (Choose one or more) <b>Planck Time, Second, Minute, Hour, [your favorite unit-measure here]</b>		
You may select any mixture of any three unit-measures for this demonstration of contiguous measures, the same if you want (second, second, second), or mix them up (day, hour, week). It's an axiom. The demonstration doesn't care.		
<b>Your -- Just Ended</b>	<b>Your -- Up Now</b>	<b>Your -- Up Next</b>
It's a done deal. (The Now has moved on.)	xxx (begin)>^(end)... (Rank-0 Behavior)	<= After that one. (This one's up next.)

**Captain Obvious:** *(It is an axiom. C'mon.)*

**No matter your choice of measure, they all work the same. Any unit-measure is experienced, thusly:**

**Begin** -> []=====[] <- **End**

**Enter** xxx>^>... Going → **Halfway** xxx>^> Keep going → ... xxx>^>... **Over**

**Time spans are abstractions of properly derived durations.**

**Planck Time?** See above. **Second?** See above. **Decade?** See above.

**This is classic rank-0 tensor behavior, a magnitude.**

**Unit-measures are experienced, the span, remembered.**

**Time is everywhere now, anywhere measured.**

**Experience before measure. A is A.**

[<Axiom of Time>](#) [<Embed>](#) [<Time-Spans>](#) [<Travel>](#) [<Concept>](#)  
[<Universe>](#) [<Time Definitions>](#) [<Cone>](#) [<Sphere>](#)

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### 3c. Tensors (Time is Rank-0).



The Table of Tensors describes how different ranks model consequence. Each rank reflects the dimensionality of interaction, not stitched complexity. Time is a rank-0 tensor—a scalar, not a dimension. Higher ranks emerge as relationships grow in directionality, curvature, and observer modulation.

#### The Tensor Table: Ranks and Regimes

Rank	Type	Function	Example
0	Scalar	No Direction. Pure Magnitude.	Time as Anchor, Time Spans, Light Spans as Scalar Ripples
1	Vector	Directional Magnitude.	Acceleration, Observer Drift, Field Gradient
2	Matrix	Interactions Between Directions.	Stress-Energy Tensor, Curvature Field
3+	High Rank	Multi-Dimensional Consequence.	Mattergy Ripples, Gravity Waves, Observer-Modulated Collapse, String/M-Theory Constructs

**Rank-0:** Time is not stitched flow or dimension—it’s a rank-0 tensor. We explore light spans and energy densities using scalars. No direction, just magnitude.

**Rank-1:** Space is 3-dimensional, so vectors (rank-1 tensors) model directional phenomena. This includes acceleration, observer drift, and field gradients. These are the arrows of consequence.

**Rank-2:** When directions interact, we enter matrix territory. Rank-2 tensors model stress, strain, and curvature—the backbone of general relativity and field theory.

**Rank-3+:** These model complex, multi-directional relationships. Think gravitational waves, mattergy ripple, and the stitched scaffolds of string theory and M-theory. These are not mystical—they’re just higher-order consequence maps.

3d. Every time span embeds the axiom of time. [≤](#) [^](#) [≥](#)

*Time is everywhere now, anywhere measured.*

Active Time Spans		
*	The Universe: Great Expansion =====>... (Future)	
	(Past) xxx>^>...	
*	The Milky Way: Born =====>...	
	xxx>^>...	
*	The Sun: Born =====>...	
	xxx>^>...	
*	The Earth: Born =====>...	
	xxx>^>...	
*	The Moon: Born =====>...	
	xxx>^>...	
*	Humans: Born ==>...	
	xxx>^>...	
Fixed Measures of Time		
Planck Time: Start->[]=====[]<-End.		
Start Planck Time	xxx>^>...	Planck Time.
A minute: Start->[]=====[]<-End.		
Start The Minute	xxx>^>...	A Minute.
An hour: Start->[]=====[]<-End.		
Start The Hour	xxx>^>...	An Hour.

[<Axiom>](#) [<Now>](#) [<Tensor>](#) [<Time-Spans>](#) [<Travel>](#) [<Concept>](#) [<Universe>](#)

### 3e. Time to Define It:



*Call It What It Is. Labels can make us, or labels can break us. In the case of time and time spans, improper labels weaken our means to understand a thing for what it actually is.*

---

#### **Time: What it is not ...**

**Dimension – (noun)** A measurable extent of some kind, such as length, breadth, depth, or height; often used in various models to describe time as a fourth coordinate alongside spatial axes. This reclassification dissolves experience and replaces span with geometry.

#### **What it is (Rank-0, actually) ...**

**Tensor – (noun)** A mathematical construct that generalizes scalars and vectors, representing directional flow or transformation across coordinates. In sovereign framing, time is a tensor of becoming—anchoring change, not measuring extent. Time flows. It does not stretch.

---

#### **Time Spans: What they are not ...**

**Length – (noun)** The measurement or extent of something from end to end; a spatial property. Misused when time is treated as having physical length rather than abstract span. This confusion invites stitched metaphors and dissolves the Now.

#### **What they are (in our heads, of course) ...**

**Duration – (noun)** The amount of time something lasts; a span anchored in experience, not geometry. Duration is lived, remembered, and felt—not measured like distance.

[<Axiom>](#) [<Now>](#) [<Embed>](#) [<Travel>](#) [<Concept>](#) [<Universe>](#)

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### 3f. Time Travel? Not!



*Isaac's way: A trip with nowhere to go ...*

*Albert's way: We're all modern, really...*

**Isaac:**

*Let us examine, actual, real time (The Now):*    xxx  $\rightarrow$   $\wedge$   $\rightarrow$  ...

$\wedge$  Infinity in. Infinity out. Nothing in-between.                      Past      Future

All we have is The Now ( $\wedge$ ). The Now is the only “actual” of time.

The past no longer exists. It's gone. We remember yesterday, sure.

The future is yet to exist, yet to arrive. When the future does arrive, it too, will be a moment of The Now, immediately becoming past.

Proper Truth - Time is a rank-0 tensor, not a dimension.	
Myth	Experiential Reality
Time is a place.	Time is measured as spans.
We can revisit moments.	The only ‘moment’ is The Now.
The past is reachable through travel.	The past resides in our heads.
The future is instantly reachable.	Go to sleep. Wait. Wake up.
A dimension is a coordinate axis—a way to locate (where all locations are available). But time is not a location. It is a rank-0 tensor—irreversible, indivisible, and always directional.	
Try to locate the past. It's a thought in our heads. Want to go there? Watch the Back to the Future trilogy.	
And the future? We can go there, sure. Until we can no longer, we get there eventually, all of us. How to travel to the future: Go into suspended animation. Wait. Wake up in the future.	
Time travel imagines a return to what no longer exists, or an arrival at what has not yet begun. The axiom of time is in every time span because time is a rank-0 tensor.	

**Time Travel? Not this way, anyway. How about you, Albert?**

.

**Albert:**

[<-](#) [^](#) [->](#)

Let us examine, actual, real time (The Now): xxx  $\rightarrow$  ^  $\rightarrow$  ...

^ Infinity in. Infinity out.

Past      Future

C'mon, Isaac, one is enough. I know. Let me handle this one, okay?

**Albert again:**

Let us examine the fact that the laws of physics are the same everywhere. We are in an inertial frame, we experience the same. The laws of physics apply to any and all observers. Here on Earth, we experience the same physics. There on [fill in your favorite exoplanet here] they experience the same physics, same as we do.

In a galaxy, far, far away ... **the light from a thing is not the thing:**

The Milky Way starts. The galaxy far, far away started, too. The galaxies are the same age! But the galaxy far, far away, is truly far, far away. Let's make it easy; it is as far away in light distance as is the age of our own Milky Way. That's far enough, right there. I could go farther, but still... Let's say we're looking at them while they are looking at us.

The Universe. Yet a day goes by ...

xxx  $\rightarrow$  []=====  $\rightarrow$  ... (Both of us.)

Us: ... ^===== ^  $\rightarrow$  ... We observe them as if:

They are here.

We are here. **We young. They old.**

Them: ... ^===== ^  $\rightarrow$  ... They observe us as if:

We are here.

They are here. **They young. We old.**

**We young. They old. They young. We old. Simultaneously true!**

**There won't be any time travel. Isaac is right. Shucks.**

[<Axiom>](#) [<Now>](#) [<Tensor>](#) [<Embed>](#) [<Time-Spans>](#) [<Universe>](#) [<TOC>](#)



### 3g. *The Power of Conceptualization.*

<- ^ ->

*Experience precedes measure. Becoming precedes boundary.*

**Claim:** Planck Time is the smallest span of time we can measure.

Claim accepted. But, is that the smallest measure of time there is?

Let's conceptualize:

$\frac{1}{2}$  Planck Time +  $\frac{1}{2}$  Planck Time = 1 Planck Time.

$\frac{1}{3}$  Planck Time +  $\frac{1}{3}$  Planck Time +  $\frac{1}{3}$  Planck Time = 1 Planck Time.

$\frac{1}{10}$  Planck Time +  $\frac{4}{5}$  Planck Time +  $\frac{1}{10}$  Planck Time = 1 Planck Time.

We could divide it further, but paraphrasing Einstein himself,  
"Why a thousand? Ten is enough."

**Claim:** Time starts at The Great Expansion.

Claim denied. Time existed before The Great Expansion.

Let's conceptualize:

One minute before the Great Expansion? Yes. Conceptualized.

One hour before the Great Expansion? Yes. Also conceptualized.

One year before the Great Expansion? Yes. Easy-peasy.

---

**What did we just conceptualize?**

- Objectivity. Common sense. Proper truth.

**Time is a rank-0 tensor.**

<Axiom> <Now> <Tensor> <Embed> <Time-Spans> <Universe>

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### 3h. What is *Universality*? Call me Captain Obvious. [<-](#) [^](#) [->](#)

*Can we experience a minute together? Don't look at your watch. Pay no mind to that clock up there on the wall. Let us each experience that minute instead. Let's avoid any notion of time dilation, please.*

*Here we go then, sing along with me ...*

*1 Mississippi 2 Mississippi 3 Mississippi. Four.*

*5 Mississippi 6 Mississippi 7 Mississippi. More ...*

*53 Mississippi 54 Mississippi 55 Mississippi. Fun.*

*57 Mississippi 58 Mississippi 59 Mississippi. Done.*

*Great! Please, remember we just experienced a minute together. That minute is now history. Want to experience it again? That'll take another minute, for sure.*

Okay. We've experienced a minute, what else experienced that minute?

Gee! This will take a while. Lots of things aged by that same minute.

**Let's conceptualize:** Myself? Yourself? Ourselves? Yes. We're all a minute older. How about the dead? They don't age. They've been dead a minute longer, though.

Did The Earth get a minute older? It sure did, yes.

How about The Sun? 4.6 billion years + a minute. Heck! It's only a minute, but still, did the Milky Way also age by a minute? Yep.

And our local supercluster? Darn! The whole thing got a minute older, too.

And the biggie ...

Did The Universe age by a minute? 13.8 billion years + a minute.

Experience before measure. Remember that.

**And, that's why we call it Universal.**

[<Axiom>](#) [<Now>](#) [<Tensor>](#) [<Embed>](#) [<Time-Spans>](#) [<Travel>](#)

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## 4. Essential Set: *The Set of Ages.*

[<- ^ ->](#)

The **Set of Ages** is an inclusive set, of empirical or abstract timespans, from the smallest, **Planck Time**, to the largest, **The Age of The Universe**. Ages relate to one another, from smallest to largest, beginning to now.

### Typical Timespans:

**Empirical Ages:** Direct measure (e.g., A human age in years).

**Remembered Ages:** History (e.g., historical eras).

**Projected Ages:** Inferring a future age (e.g., life span of a star still living).

**Speculative Ages:** Conceptual spans (e.g., time before the Great Expansion).

**Newtonian Relativity:** Measures are related after experience.

### Concerning Boundary: *The Set of Ages.*

xxx → [] =====> ...

xxx ^ ^ ===== ^ ===== ^ ...

The Great Expansion starts.                      The Universe is aging.

The first Planck Time.      Each and every timespan in between.

**Corollary:** *The age of the universe is the cardinality of Planck durations since the first such that:  $T_{\text{now}} = N \cdot t_P \rightarrow \mathbb{T} = \{t_1, t_2, \dots, t_N\}$ .*

**The Set of Ages is an inclusive, well-ordered set:**

$\mathbb{T} = \{t_1, t_2, t_3, \dots, t_N\}$ ,  $\text{where } t_1 = t_P, t_N = T_{\text{Now}}$

**The largest duration in *The Set of Ages* is *The Age of The Universe*.**

The Universe is so many Planck Times old, so many minutes old, so many days old ...

How many years old is the Universe? Yes. This one is nice. Years it is. We have a winner!

Still ... **The Universe is as old as the first Planck Time until now.**

[<Eras/EPOCHs>](#)

[<Photons>](#)

[<Simultaneity>](#)

## 4a. The Set of Ages -- concurrent time spans:



[<See it. Believe it.>](#)

**The Age of The Universe** ~13.8 billion years (+ a minute, but I folded that in.) **Now**

**Birth of The Universe** xxx →[GE]=====→...

**Age of the Milky Way:** ~13.6 billion years xxx>^>...

**Birth of The Milky Way** xxx>^>...

**Age of The Sun:** ~4.6 billion years xxx →=====→...

**Birth of The Sun** xxx>^>...

**Age of The Earth:** ~4.54 billion years xxx →=====→...

**Birth of The Earth** xxx>^>...

**My Age:** *I'm 72 years old.* xxx →==→...

**My Birth** xxx>^>...

All active time spans age along with The Universe.

The time that has passed no longer exists.

Future is, by definition, the future Universe.

**(In The Now)**

**(Before Now)**

**(After Now)**

[<Photons>](#) [<Simultaneity>](#)

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## 4b. The Set of Ages -- *Eras and Epochs.*



Concerning the Age of The Earth: ~4.54 billion years, still aging.

xxx →=====→...

Birth of The Earth

Now

xxx →=====→... (Pre-Cambrian – 4.54 billion to 541 million Years ago).

Paleozoic Era: ~541–252 million years ago, over and done.

xxx →=====→...

Epochs:

Cambrian, Ordovician, Silurian, Devonian, Carboniferous, Permian.

*The shift from Paleozoic to Mesozoic (~252 million years ago) was marked by the Permian-Triassic extinction, the largest mass extinction in Earth's history.*

Mesozoic Era: ~252–66 million years ago, over and done.

xxx →=====→...

Epochs: Triassic, Jurassic, Cretaceous.

*The shift from Mesozoic to Cenozoic (~66 million years ago), following the Cretaceous-Paleogene extinction (bye-bye, dinosaurs), saw ripple effects that shaped the rise of mammals.*

Cenozoic Era: ~66 million years ago to Now. (Quaternary still active).

xxx →=====→...

Epochs: Paleogene, Neogene, Quaternary.

Now

*Humans appear in the Quaternary, quite recently considering the age of The Universe.*

The eras of the past have passed—until ours, which still beats.

<Ages>    <Simultaneity>

---

## 4c. Do Photons Age?



**Quick answer:** Yes. Indeed, they do. The Universe ages a minute, everything in The Universe ages a minute. That was easy. Q. E. D.

**I see some raised eyebrows. I will elaborate.**

Time, we experience time as we measure it. **Experience before measure.** Time spans, being abstractions, relate experience by duration and context, in this case age, then to now, now to then, the age of a photon from then, to now. Granted that, we will use light spans here. It is a photon, I mean a wave, I mean I was asked, “**Do photons age?**” I could use any light span but keep it simple. All light spans behave the exact same way. We will use the light span we are receiving right now from our very own Sun. At this very moment that light we see is on average 8 minutes, 20 seconds old. Gee! We are using the word ‘old.’ Why? **As the light travels it ages.**

Consider, when that **light left the Sun**, the Sun was 8 minutes, 20 seconds younger than now. that light is comprised of photons. Waves, particles, keep it simple, we’re aging photons. Okay, it took **8 minutes and 20 seconds** for that light to arrive at our optic nerves. **The Sun is 8 minutes, 20 seconds older** than we see, true? We will pick a single photon to explore that aging. That **photon was launched 8 minutes and 20 seconds ago**. It arrives now after 8 minutes, 20 seconds have passed. **The photon is 8 minutes and 20 seconds old**. So, yes, the photon is aging. The photon has been aging all along, in this case by **8 minutes, 20 seconds**.

We do have a measure here, true. That measure is **8 minutes, 20 seconds**. The photon is not affected by our measuring **8 minutes and 20 seconds**. before it hit the back of our eyeballs. Simple enough. **The photon ages as The Universe itself ages**. That photon travelled for **8 minutes, and 20 seconds**.

**Fact:** *The light from a thing is not the thing.*

*The Sun is seen 8 minutes younger than it actually is. The light span is 8 minutes, 20 seconds old. The Sun is 8 minutes, 20 seconds older than we see because the photons are 8 minutes, 20 seconds old when we see them. Experience before measure, that’s what this is.*

[<Ages>](#)

[<Concurrency>](#)

## 4d. Essential Study: *Simultaneity*.



Events are simultaneous when they occur at the same time, at the same moment of now. Take Albert Einstein's example of two lightning strikes being simultaneous. By Albert's own admission, the two strikes are indeed simultaneous. They are simultaneous when both strikes occur at the same time, no observer needed. Should we be equidistant between them we "see" them as simultaneous. If we are not equidistant, we see one before the other because it takes light time to travel over distance. Albert has put up a red herring. Einstein's lightning example distracts from event simultaneity by spotlighting signal delay.

Simultaneity can include many events at once. Simultaneous events simply occur at the same time. We stand in the rain; the water rains down. As countless raindrops fall, some of them hit us in the face at once, yes, simultaneously.

Our Moon orbits The Earth. Simultaneously, Phobos and Deimos are orbiting Mars. Those well-known Galilean moons all orbit Jupiter. Every moon of every planet in our solar system orbits its planet simultaneously. Gee! Every orbit of every star in the Milky Way simultaneously orbits Sagittarius A\*.

Do we need more examples? Might we discuss all the events that are indeed simultaneous? The list of events is much too long.

**All life living anywhere in The Universe lives simultaneously along with us.**

All time spans whether extrapolated, completed, or on-going, age along with The Universe. Indeed, all active time spans age simultaneously, no exception.

**Events do not need a witness to be simultaneous.**

[<Ages>](#) [<Concurrency>](#) [<Eras/EPOCHs>](#)

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## 5. Essential Set: *The Set of Proper Truths.* <- ^ ->

*The **Set of Proper Truths** is an inclusive set, the set of all proper truths. The members of this set are independently derived. We take each case-by-case. To stitch, or not to stitch, that is the question. It is quite self-evident, do not stitch.*

**Let's examine this classic logic truth table as Gottlob Frege, Charles Sanders Peirce, Bertrand Russell, Emil Post, Ludwig Wittgenstein, and Jan Łukasiewicz be my witness.**

IF	THEN	VALIDITY	MEMBER
True (If water)	True (Then wet)	Properly True (Water is indeed wet.)	Yes
True (If wet)	False (Then water)	Properly False (Not all things wet are water.)	No
False (If dragon)	True (Then animal)	True, Premise Irrelevant (Dragons are allegedly animals.)	No
False (If dragon)	False (Then fire-breath)	True. False is False. A is A. (Nothing breathes fire.)	No

**Proper truth is truth properly earned. Truth must be earned, not assumed.**

**Proper truth, then, arises when all is true. Members of the Set of Proper Truths earn membership, not by preference, but by implication.**

**Newtonian: Time is a rank-0 tensor.**

**This is properly true. It passes the “proper” test, earns membership. We all agree.**

**Relativistic: Time has dimension.**

**This truth fails the “proper” test. Sorry, not a member. We violate the axiom of time.**

**Newtonian: a newborn baby that travels for 2 years is two.**

**This is properly true. It passes the “proper” test.**

**All ages are members of The Set of Ages.**

**Relativistic: a newborn baby travels for 2 years at near light-speed remains newborn. This truth fails the “proper” test. It's a consequence of measure distortion.**

<Stitched> <Paradox> <G E> <W/P>

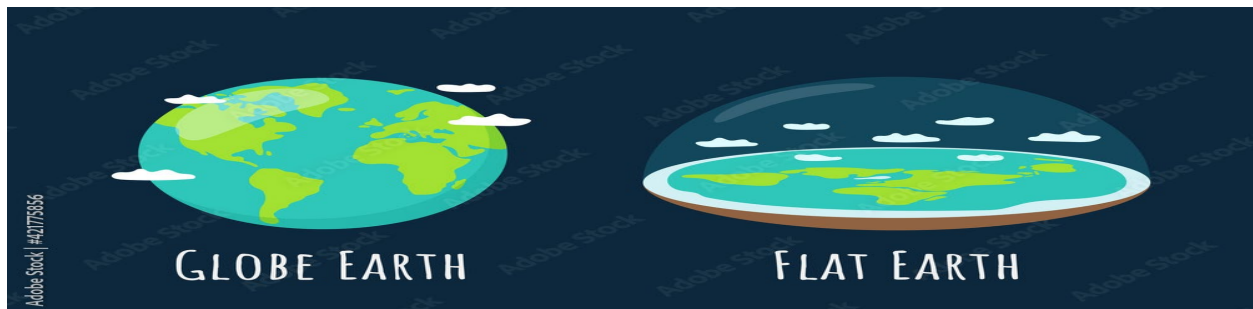
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## 5a. Anchoring the Absurd a.k.a. How to Stitch ... <- ^ ->

**Stitched (adj)** - In the Newtonian Framework, a stitched term is one that hides its seams—composite, metaphorical, or unobservable. Stitch signals vagueness: a failure to anchor experience, i.e. Stitched assumption. Stitched metaphor. Stitched narrative (e.g. The Flat Earth – actually, The Earth is an oblate spheroid.)

**Anchored (adj)** – In the Newtonian Framework, an anchored term is grounded in fact—observable, experiential, and free from stitched seams. We replace vagueness with clarity.



**How to Stitch:** Begin with a false premise, treat the premise as anchored. Go for it.



<Paradox> <G E> <W/P>

## 5b. The Truth Table (Stitched):

<- ^ ->

Premise	Treatment	Result	Notes
<i>True</i>	<i>Treat as True</i>	<i>Anchored</i>	<i>Scalar Clear</i>
<i>False</i>	<i>Treat as False</i>	<i>Rejected</i>	<i>Proper Audit</i>
<i>True</i>	<i>Treat as False</i>	<i>Suppressed</i>	<i>Epistemic Error</i>
<i>False</i>	<i>Treat as True</i>	<i>Stitched</i>	<i>Blinding Fog</i>

That fourth row is where stitched cosmologies become paradox theater, and metaphor masquerades as measure. It's where "Time is a dimension" becomes "The future already exists," or "let's visit our long-dead grandpa, give him a condom." "Flat Earth" becomes "observable model." It's whether the Andromeda Paradox makes war with us, or not. It's where [*Place your number of dimensions here*] get "compactified," curled up at every point in space. It is where twins age differently. It's where photons don't age at all. Heck. It's where the Sun stops in the sky for a whole day. (Joshua's enemies do die, though. They're right about that.) Shucks. Joshua dies, too. Oh, well ...

### Fallacies that reinforce Stitched Truth and hinder Proper Truth.

<b>Character Attack</b> – Attacks on character rather than the argument itself.
<b>Straw Man</b> -Misrepresentation/Exaggeration of a particular argument.
<b>Red Herring</b> – Arguing for or against a thing not relevant to an argument.
<b>It Doesn't Follow</b> – Premise does not lead to the conclusion.
<b>Hasty Generalization</b> – Implying Increased scope from tiny examples.
<b>Begging the Question</b> – Treating false premises as true.
<b>False Cause</b> – Sequence isn't consequence. Causes must be properly true.
<b>False Dichotomy</b> – Reducing choice to two when further choices exist.
<b>Argument from Ignorance</b> – Ignorance has no bearing on truth, or falsehood.
<b>Burden of Proof</b> – Claims without evidence can be properly dismissed.
<b>Unlinked Conclusion</b> – Illogical connections between argued points.
<b>Bandwagon Fallacy</b> – A thing widely, popularly believed must be true.
<b>Argument from Authority</b> – [ <i>insert your expert here</i> ] says so.
- Proper Truth requires consequence, not credentials.

<Truth>   <G E>   <W/P>

## 5c. Paradox? Not! Just a Small Dose of Fact ... <- ^ ->

**Paradox occurs when facts are obscured. Facts provide solution.**

Paradox	Resolution	Axiom
Twin	We all age the same.	Time
Grandfather	Time is a rank-0 tensor.	Time
Fermi	Time and distance prevent arrival.	Time, Space, Mattergy

**Concerning the Fermi Paradox (sic):**

**The laws of physics, in fact physics itself, are the same everywhere.**

*Let us examine, actual, real time (The Now):*    xxx  $\rightarrow$  ^  $\rightarrow$  ...

^ Infinity in. Infinity out. Nothing in-between.                      Past      Future

**Time:**      Time is a condition of existence, us, them, everyone, anyone.

**Space:**      The distance to travel is beyond exorbitant.

**Mattergy:** Baryonic matter collapses at/above the speed of mush.

**The speed of mush:** The speed above which baryonic matter turns to energy.

So, what speed is that?  $1/10^{\text{th}}$  c?  $1/5^{\text{th}}$  c?  $1/3^{\text{rd}}$  c?  $1/2$  c? Pick one. It matters not.

There exists a speed beyond which baryonic matter does not survive the trip.

Beyond that speed, even atoms dissolve. Matter becomes energy.

$$E^2 = (mc^2)^2 + (pc)^2.$$

**All beings, both we and they, live in the Now.**

**The faster we go, the less time the trip takes.**

**The slower we go, the more time the trip takes.**

**The speed of mush is well below the speed of light.**

**Distance? Exorbitant. Speed? Count on mush.**

<Truth>   <Absurdity>   <W/P>

## 5d. The Great Expansion: *Not a Bang. Not a Boom.*     <- ^ ->

*We might not be able to fix this. It is so culturally embedded.*

**We should fix it, though. The phrase “Big Bang” is stitched and confusing.**

**A bit of history:** For quite some time now we’ve treated the Big Bang as an explosion. Sir Fred Hoyle (poor fellow) coined the term sarcastically. He was a steady-state advocate. He was making fun of that explosive notion. Yet, the term stuck. It is now firmly, culturally embedded. We are now told it was not an explosion, instead an expansion. Explosions do involve expansion as debris is flung outward from the blast site. However, these days this notion of explosion is, by consensus of the honorable scientific community, better served to be described as an expansion. Let’s consider ourselves lucky. Sir Hoyle, in a fit of creative bravado, could have easily called it the Big Boom.

**Now, the present day:** If it was indeed an expansion, why not simply call it that? An expansion is an expansion. A is A. The Big Expansion, yes. That works. We might just go with that. Since we are reclassing this notion, we still have the word – big. We might change that, too. Might we find a better adjective than big? Most certainly we can. The Huge Expansion? The Grand Expansion? The Very First Expansion? All those phrases could work, true.

The best adjective for this is, in my humble opinion, great. We can simply call it that, The Great Expansion. Let’s do a poll. Make it a term of the people, for the people, by the people. Wait! It is proper to be wary of people in large groups. A poll might produce a bad answer. We’ll cut to the chase. It’s now deemed The Great Expansion. That’s my vote, anyway.

It was **The Great Expansion**. It should have been always so, never not. But here we are in the 21<sup>st</sup> century. We all make mistakes. This one is easily fixed.

The Big Bang is now The Great Expansion, a proper truth.

<Truth>   <Absurdity>   <Stitched>

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## 5e. **Essential Guess: Wave/Particle Duality.**

[<- ^ ->](#)

*Qualifier: I claim no expertise in quantum mechanics whatsoever. There will be no posting of quantum equations, no elaborate discussions of test results, slit experiments, use of the CERN particle accelerator, none of that. Instead, I will use simple common sense to discuss the nature of waves and particles from a Newtonian perspective.*

### **Concerning Waves and Particles:**

**Firstly, waves are waves, particles are particles. A is A.**

**Waves and particles are two different things.**

**My guess:** Waves are the path of light unhindered. These are primary. Waves are a continuous flow. Particles are consequence of hindrance of the waves. Particles, of course, have distance between them. They are discreet, individual objects of mattergy. Waves are waves. Particles are particles. Light travels first as wave, particle when it contacts particles.

### **Thought-experiments are helpful. Analogies help because of experience:**

*We have a water hose. We are washing a car. We turn on the water and a stream of water exits the hose, rushing toward the car. It is a continuous stream of water until the stream hits the car. When the stream hits the car, the water splashes. The stream is the wave. The splash is the particle. This is what I mean by: wave primary, particle consequence.*

Common sense has us conclude waves travel through a medium, waves in water, sound through air. So where is the medium for light waves? It is The Light Sea. The wave travels through a different aspect of mattergy, The Light Sea, the zero-point field, call it what you will. Vacuums of space are never empty. Thank you kindly for considering this guess.

**The photon is in the box ... is it a wave? Or, a particle? We have to look, don't we? Bullwinkle pulls quantum theory out of a hat.**

**Darn it! That's classical mechanics!!!**

[<Truth>](#)   [<Absurdity>](#)   [<Stitched>](#)   [<Paradox>](#)

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## 6. *Proper Measure: The Native Frame.*



***Measurement from a state of rest is properly true.***

The laws of physics apply to everyone, everywhere, all the time.

Any measure taken *-in and of-* the *native (rest) frame* is a proper measure.

An inch is an inch, a mile a mile, a minute a minute, one Mississippi.

This *native frame* is the frame that will *appear distorted* to others.

### 6a. *Improper Measure: It's Distortion.*

***Time Dilation and Length Contraction are Distortions of Measure.***

*Time dilation is temporal distortion.*

*Length contraction is spatial distortion.*

***The things measured are never changed in any way.***

Distortion occurs only when measure is taken from outside the native frame of the thing/event. Measure does not change things or events. Distortion is observed, not existential.

**Experience before measure:** we have measure distortion, a proper truth. Measures of time and length in any native frame within that same frame are always spot-on. Outside the native frame, of the native frame?

***Again, time dilation and length contraction are distortions of measure.***

To properly demonstrate these two proper truths, we shall explore two examples, age, and food. One is the classic **twin paradox**, using **families** instead of **twins**. In the **Family Solution**, one family remains on Earth, the other family travels for two years, covering two light-years distance, there and back. To make things interesting, both families have just born two newborn babies, mommy, daddy, and newborn baby. One family remains on Earth, the other goes on a light-speed vacation. The **Foot-Long Solution** explores the journeys of a foot-long sub. **Experience before measure, always.**

[<Foot-Long>](#) [<IOAT>](#)

## 6b. Analysis: *The Family Solution.*



**To Prove:** *The families are the same age, always so, never not.*

**From the Set of Ages:**

**Age of Universe:** ~13.8 billion years (The oldest time span of all, still growing older).

xxx → []=====→...

**The Great Expansion**

**Now**

**The families' ages:** *However old they are, they're still growing older.*

xxx →==→...

**The two families starting ages** **Now**

**The stationary family:** *However old the family is, they are still growing older.*

xxx →==→...

**The starting ages of the stationary family** **Now**

**The moving family:** *However old this family is, they are still growing older.*

xxx →==→...

**The starting ages of the moving family** **Now**

**Discovery:** The families are always so, never not the same age because the families are both aging along with The Universe. Therefore, time has the same effect on both families, aging them appropriately as The Universe itself ages. A newborn staying newborn? My gosh! No!

**Proven:** The families are the same age, always so, never not.

<IOAT>



## 6c. Analysis: *The Foot-Long Solution.*

<- ^ ->

**To Prove:** *A foot-long is a foot long, always so, never not.*



The foot-long sub we purchased from Sandwich Paradise before the trip.  
(Okay. We freeze-dried it. Who wants to eat a stale foot-long sub?)

The sub at Sandwich Paradise. []===[] <- Measures a foot.

The sub at near light speed. []===[] <- We're about to eat a foot-long.

The sub as seen from afar. [] <- It's the tiniest sub one can imagine.

**Discovery:** Anyone would be quite disappointed to eat a tiny sub, traveling fast, or not. How many tiny subs would that be for a full stomach? Lucky it's a delicious foot long Italian Delight with all the fixin's. Those poor fellows looking on from afar, they must be content with eating, I don't know, what? Subby Bits? Crumby Shorts? Itsie-Bitsies. They're gonna need a bunch of 'em. Sure.

**Proven:** *A foot-long is a foot long, always so, never not.*

<Measures>

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## 6d. *The Insight of All Time ...*

<- ^ ->

***Time dilation and length contraction are Distortions of Measure.***

***The things measured are never changed in any way.*** Distortion occurs only when measure is taken from outside the rest frame (native frame) of the thing/event. Measure does not change things or events. Distortion is observed, not existential. Experience before measure, there is indeed measure distortion. This is a proper truth. Measures of time within a native frame are spot-on. Measures of time from outside that frame are distorted (*time dilation*). Measures of length within a native frame are spot-on. Measures of length from outside that frame are distorted (*length contraction*).

**Distortion presupposes a reference that isn't distorted.**

**The Native Frame:** There is no measure distortion relative to myself, in my own native frame. There is no measure distortion relative to yourself, in your own native frame. The Laws of Physics, and thereby experience, are the same for everyone, everywhere, all the time. In every native frame the axiom of space applies, the axiom of time applies, the axiom of mattergy applies. Axioms are axioms. A is A. Axioms apply all the time, for every observer (sic) all the time. Why the (sic)? It's experience before measure. Observers? We don't need no stinkin' observers!

**A minute is a minute in every native frame. Doubt it? Sing 1 Mississippi. Anyone, in that native frame can sing 1 Mississippi. There is no time dilation at all. Anyone, in that native frame can eat a foot-long sub. That foot-long sub remains a foot long because it's a foot-long sub. There is no length contraction at all. To treat measure distortion as experience is to invoke row 4 of the truth table. A false if, a false then, it's true that it is not true. Families age the same. Foot longs remain foot longs. The Insight of All Time. Experience before measure.**

<Measures>   <Family>

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## 7. Laws and Principles: Isaac, Albert, and I. <- ^ ->

### Newton's Three Laws of Motion:

1. **Inertia:** An object at rest stays at rest, and an object in motion stays in motion unless acted upon by an external force.
2. **Acceleration:** The force acting on an object is equal to its mass times its acceleration.
3. **Action-Reaction:** For every action, there is an equal and opposite reaction.

**Newtonian Relativity:** *Measures relate independent of observation.*

**The Axiom of Time:** Time is everywhere present, anywhere measured.

**Newtonian Time:** Time, being a rank-0 tensor, is absolute, uniform, and independent of observed or external conditions.

**Universal Gravitation:**  $F = G \frac{m_1 m_2}{r^2}$ .

### Principles of Special Relativity (1905)

1. **Principle of Relativity:** The laws of physics are the same in all inertial frames of reference.
2. **Constancy of the Speed of Light:** The speed of light in a vacuum is constant for all observers, regardless of their motion or the motion of the source.

**Modern Relativity:** Time, a dimension, is relative to observers, motion, gravity.

**Mass-energy equivalence:**  $E^2 = (mc^2)^2 + (pc)^2$ .

### Principles of General Relativity (1915):

**Equivalence Principle:** Being in a gravitational field is locally indistinguishable from being in an accelerating frame.

**The Field Equation:**  $G_{\mu\nu} + \Lambda g_{\mu\nu} = \kappa T_{\mu\nu}$

This relates the curvature of spacetime ( $G_{\mu\nu}$ ) to the energy and momentum of matter and radiation ( $T_{\mu\nu}$ )

<Fan>

<Real>

<Cone>

<Sphere>

## 7a. The New Law of Acceleration.



*This new law refines Newton's gravitational law using mass-energy conservation and observable acceleration. The math is familiar. The terms are clarified. The meaning is restored.*

**Universal Gravitation:**  $F = G \frac{m_1 m_2}{r^2}$ .

**The Field Equation/Relationship:**

$$G_{\{\mu\nu\}} + \Lambda g_{\{\mu\nu\}} = \frac{8\pi G}{c^4} T_{\{\mu\nu\}}$$

**Equivalence Principle:** Being in a gravitational field is locally indistinguishable from being in an accelerating frame.

**Field Equation:**  $G_{\{\mu\nu\}} + \Lambda g_{\{\mu\nu\}} = \kappa T_{\{\mu\nu\}}$

This relates the curvature of spacetime ( $G_{\{\mu\nu\}}$ ) to the energy and momentum of matter and radiation ( $T_{\{\mu\nu\}}$ )

**Correction Made:**  $a = \mathcal{A}_Q \cdot \frac{\lvert M_1 \rvert \lvert M_2 \rvert}{\lvert r^2 \rvert}$

Where  $\mathcal{A}$  is the universal scalar that couples conserved mattergy to observable acceleration across curvature. This scalar refinement preserves Newton's geometric scaffolding, replaces stitched terms, and restores experiential clarity. Note: This law models acceleration—not gravity. The scalar  $\mathcal{A}$  anchors observable consequence, not stitched attraction.

**The Axiom of Mattergy:** *Mattergy matters.* Mattergy is the conserved agent of curvature—folding mass and energy into one experiential anchor.

'F' (Force) is changed to 'a' (acceleration). Force is stitched. Acceleration is observable.

'm' (mass) has been changed to 'M' (mattergy).

Mattergy includes all conserved energy contributions—rest mass, kinetic, thermal, etc.

This change is made to add mass/energy conservation (as is the nature of mattergy) to Newton's Law of Universal Gravitation. It becomes the Law of Universal Acceleration.

[<Real>](#)

[<Cone>](#)

[<Sphere>](#)

## 7b. Bucket Study: *If Isaac had a ceiling fan...* [<-](#) [^](#) [->](#)

**To Demonstrate:**  $a = \mathcal{A}_Q \cdot \frac{\langle M_1 \rangle}{\langle M_2 \rangle \langle r^2 \rangle}$

This scalar law of acceleration applies to both classical and quantum regimes. In this demonstration, we operate within a decohered context—so the expectation values  $\langle M \rangle$  and  $\langle r^2 \rangle$  collapse to fixed quantities. The formula remains structurally invariant, but its interpretation adapts to regime.

### Items needed:

One Ceiling Fan (mounted and operational, with 3, 4, or 5 blades.)  
3, 4, or 5 bungee cords, 3' long each, matching the number of fan blades.  
1 standard plant hanger that cradles a hanging flowerpot from above.  
A two-liter clear milk jug,  $\frac{1}{2}$  empty or  $\frac{1}{2}$  full depending on your world view.  
(Water can be substituted for milk, of course. We only need a viscous fluid.)  
(Optional: a remote control for the ceiling fan).

### Steps to Take:

Attach bungee cords to fan blades as close to the motor as possible.  
Attach the other ends of the bungee cords to the flowerpot hanger.  
Place the milk jug with the liquid in the flowerpot holder.  
Turn on the fan, slow for a time, medium for a time, then high speed.  
Observe what happens to the liquid in the jug.

<p><b><math>a \rightarrow</math> Acceleration (Equivalent to gravity, but this is not that).</b> <b>The scalar cause of curvature, centripetal acceleration.</b> <b>The cause of the liquid curving upward along the jug's walls.</b></p>
<p><b><math>\mathcal{A}_Q \rightarrow</math> Quantum-aware scalar constant:</b> <b>Couples conserved mattergy to observable consequence.</b></p>
<p><b><math>(M_1) \rightarrow</math> Mass of the liquid (mattergy participant);</b> <b>Collapses to fixed value in this demo.</b></p>
<p><b><math>(M_2) \rightarrow</math> Mass of the rotating system (fan + Earth);</b> <b>Decohered, treated as classical. (The system that imparts acceleration).</b></p>
<p><b><math>(r^2) \rightarrow</math> Radial distance squared from fan axis to jug's center of mass.</b> <b>This sets the scale of curvature in the rotating system. In quantum regimes, it's an expectation value; in this decohered demo, it collapses to a fixed scalar.</b></p>

[<Law>](#) [<Cone>](#) [<Sphere>](#)

## 7c. Reviving Realism:



The Honorable Paul Marmet reintroduces realism by describing and relating the same new knowledge about the reality of length dilation and changing clock rates, as does Einstein. Marmet makes the proper enhancements and additions to Classical Mechanics, while justifying his position on the basis of verified Quantum Mechanics and the principle of conservation of mass/energy, instead of the constancy of light. Marmet provides a rational, realistic description of physical reality, placing Classical Mechanics back on a correct track, such that prediction again matches observation. Within this context, relativity is a redundancy. Quantum Mechanics and Classical Mechanics taken together incorporate and describe *all physical realities* previously attributed to relativity.

Marmet recognizes the difference between **Newton's equations**, *which are always perfectly valid in any and all related frames of reference*, and **Newton's physics**, *which lacks coherency*: there is no place for changes of mass, length, and clock rate. Newton was not aware of the effects on matter due to changes that occur as a result of different gravity potentials, and/or different accelerated states. Newton's physics is NOT compatible with the principle of mass/energy conservation. Marmet adheres to mass/energy conservation and realism by keeping careful track of proper units, by including changes of mass, length, clock rate as required, thereby restoring coherency to Newton's Physics.

**In Conclusion**, physics is more than a virtual model of reality. Science demands a physical description of Nature coincident with reality. The requirement of realism has profound implications for the application of physics to the real world, and the future growth and survival of Mankind. Euclidian space, thought to be a relic of the past, remains the all-encompassing, most accurate description of space. Time, as constrained by physical reality, contradicts any suggestion, assertion, or conclusion that time can be navigated dimensionally, in any physical sense, whatsoever. Time travel remains the province of fantasy. A remains A, after all.

<Law>

<Accel>

<Sphere>

## 7d. Minkowski Light-Cones.



**Relativity Principle:** The laws of physics are the same in all inertial frames.  
**Constancy of c** Light in vacuum always travels at speed independent of source or observer.

$s^2 = (c \cdot \Delta t)^2 - (\Delta x^2 + \Delta y^2 + \Delta z^2)$ This interval $s^2$ is invariant—every observer calculates the same value, regardless of motion.
<b>Depending on the sign of events are classified as –</b> <b>* timelike, spacelike, or lightlike (on the light cone.)</b>
<ul style="list-style-type: none"> <li>• <b>Timelike (<math>s^2 &gt; 0</math>)</b>            Time separation dominates.            One event can causally influence the other at or from a distance.            Requires mattergy with rest mass.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Spacelike (<math>s^2 &lt; 0</math>)</b>            Space separation dominates.            No causal connection possible□light would need to travel faster than c to connect them.            Elsewhere□ events.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Lightlike (<math>s^2 = 0</math>)</b>            Exactly on the light cone. Events connected by a light signal.            Only the momentum term <math>(pc)^2</math> reaches this edge.</li> </ul>
<b>This interval is invariant – all observers, regardless of motion, agree on its value.</b>

This principle does not violate the axiom of space, nor time. In fact, the relativity principle supports them. This principle allows The Newtonian Framework to co-exist alongside General Relativity as descriptions of the fact itself, that relativity is a proper fact, a proper truth. Both systems support it.

<b>Minkowski Spacetime Structure:</b> A pseudo-Euclidean 4D space with 3 spatial coordinates and one temporal coordinate .
<ul style="list-style-type: none"> <li>• Interval Formula: <math>s^2 = (c \cdot \Delta t)^2 - (\Delta x^2 + \Delta y^2 + \Delta z^2)</math></li> <li>• This is the Minkowski metric (sometimes called the Minkowski norm squared).</li> <li>• Invariance: All observers, regardless of motion, agree on the value of <math>s^2</math>.</li> <li>• Light Cone: Events with lie on the cone—reachable by light. ?            Timelike events (<math>s^2 &gt; 0</math>) are inside, spacelike events (<math>s^2 &lt; 0</math>) are outside.</li> </ul>

The mistake (a simple mistake) becomes apparent. Time is actually a rank-0 tensor (pure magnitude,) not a dimension. Here time is a DINO (dimension in name only) and a DIMO (dimension in math only.) The mathematics is fine, it gets results, but ontologically it violates the axioms of space and time. Correcting this restores coherence without discarding the predictive machinery.

This scaffolding assumes light's sovereignty over the axioms of time and space. Time and space were not unified—they were surrendered. Space carries no agency. Time is a rank-0 tensor, not a dimension. Time and space cannot be merged. They are unique, each with their own identity. This ontological distinction forbids fusion. Minkowski neglected to preserve the axiomatic experience of time and space. He surrendered those truths to a false construct: elevating the **measure of time** over the lived **experience of time**, an improper unification of time and space. Coordinates were stitched to scaffolds that had lost referent weight. Space ceased to be spatial. Time ceased to be temporal. Spacetime—was not a truth, but a concession, a concession to light's mathematical invariance, its measure, over the rank-0 behavior that stitched abstraction built to obey the ripple, not to honor the axioms of time and space. A is the experience of time. The **light-cone** is a causal consequence of the **light-flash**, not any inertial frame. Light travels distance over time. It is not sliced—it is emitted. Spacetime is a floating abstraction—derived, stitched, and disobedient of the very axiomatic concepts it claims to merge, not foundational, instead derived, built to obey light's sovereignty while pretending to preserve legacy scaffolds. The edge of the cone is only traversed by the light portion of mattergy, the  $(pc)^2$  part of  $E^2 = (mc^2)^2 + (pc)^2$ . The  $(mc^2)^2$  part cannot reach the edge of the cone because only the  $(pc)^2$  travels at  $c$ . **Light-Cones** are “cones of light” surrounding current events: **flashes of light**. The **upper-cone** is **causal-future**, the **lower-cone** **causal-past**. The *present* (*The Now*) represents a particular current event (observed or not), a ‘particular’ light-flash.



## 7e. Newtonian Light-Spheres.



**Axiom of Space:** *Space is everywhere from anywhere.*

**Axiom of Time:** *Time is everywhere now, anywhere measured.*

**Common referents:** *Anywhere / Everywhere.*

**Unique Identities:** *space  $\neq$  time. A is A. B is B. (two separate things.)*

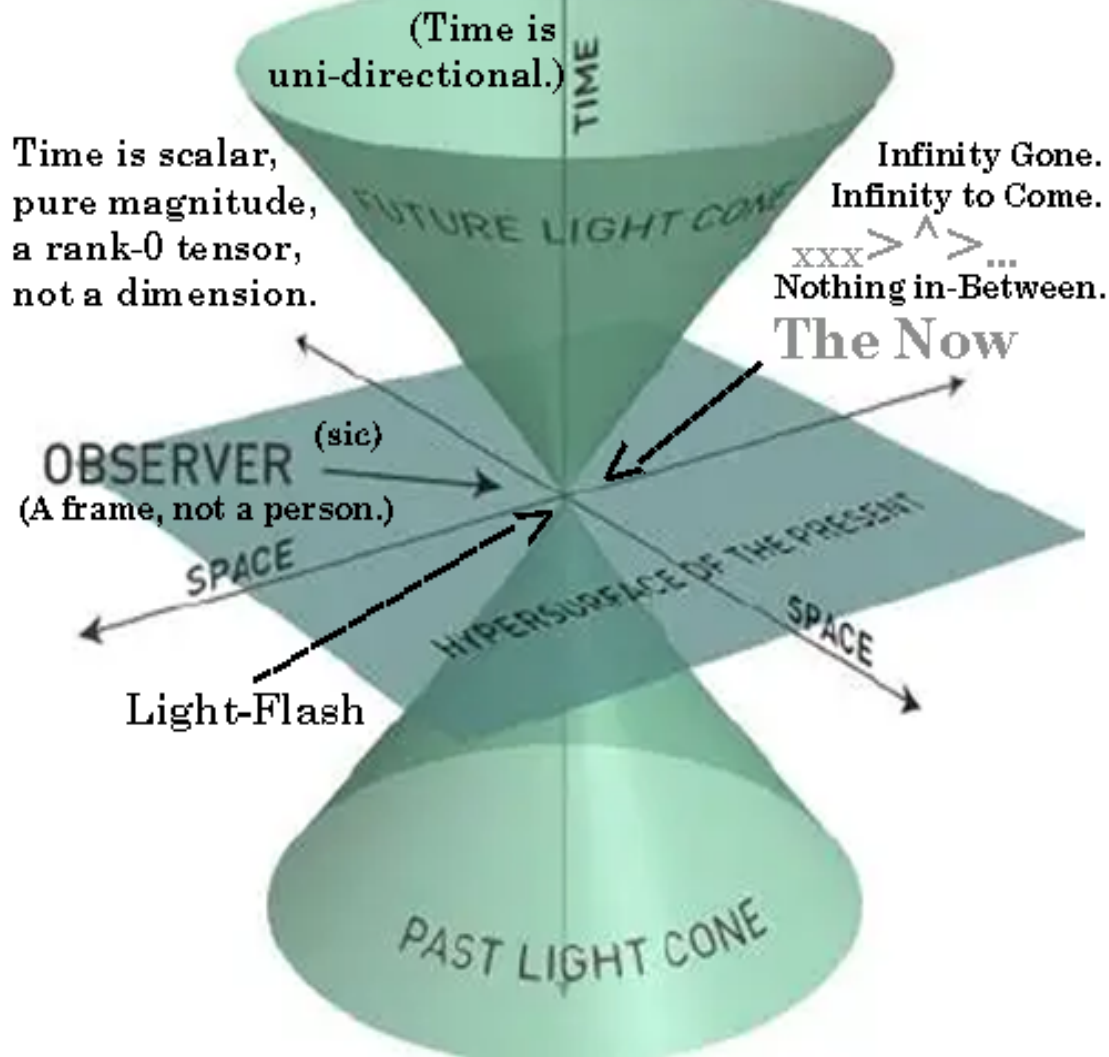
The Newtonian perspective reframes the standard light-cone as properly a light-sphere. The light-flash becomes a flash-point (space) AND a flash-moment (time), the very same event. That event occurs at a Euclidian center (0, 0, 0), has two measurable aspects, measures of time (the flash-moment) and measures of distance (the flash-point). The sphere is created from a single event measured in two ways: distance and time. All light-spans are abstractions. Light travels distance, AND lives duration. This understanding arises because light obeys both axioms, space, and time. The distance aspect is a measure of real space (Euclidian space) yet as the flash-point is only observed in the now, one must abstract the distance via measure as that distance is a measure derived from the ever-expanding light using the constant speed of  $c$ , and the elapsed time spent moving through space.

<->

<- ^ ->

Minkowski Light-Cone  
(Newtonian Corrections Added)

False Dimensionality  
Rank-0 Behavior



The Axiom of Time: *Time is everywhere now,  
is embedded in all time spans. anywhere measured...*

Time spans are measures of time as experienced,  
measured as durations of a chosen unit-measure.

Time spans only exist as abstraction:

. The Past => durations of remembered history,

. The Future => durations of time yet to be.

On-going spans are part history, part yet to be.

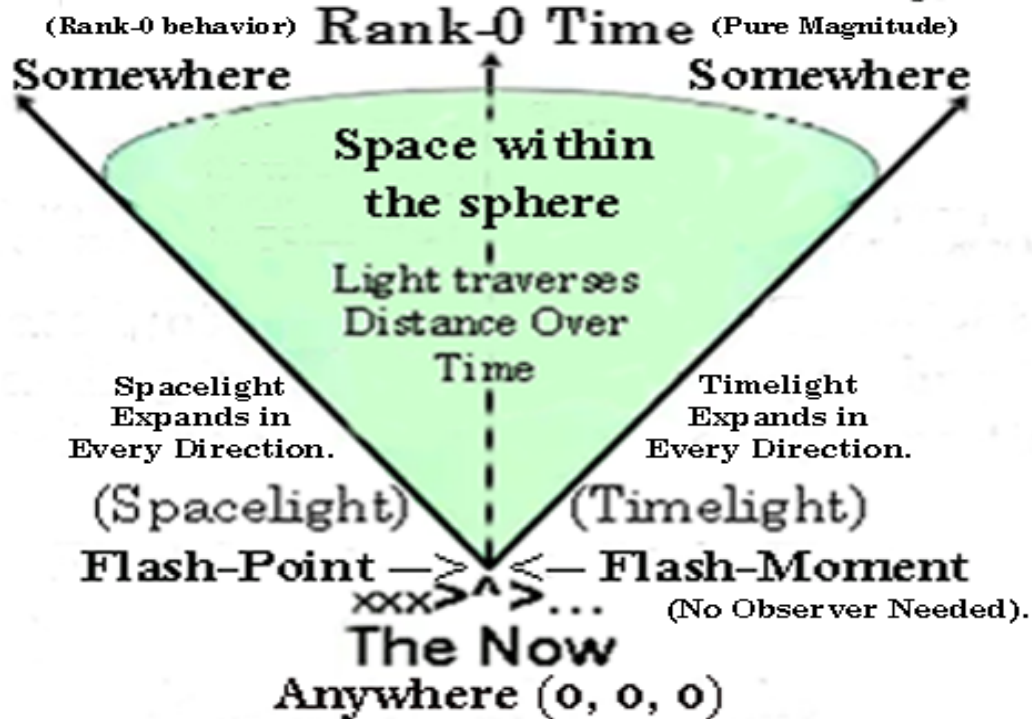


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<- ^ ->

## The Newtonian Light-Sphere

(A 2D slice of a 3D sphere) Here, there, Everywhere



Spacelight and timelight are the same light,  
spacelight for spatial propagation,  
timelight for temporal propagation.

**Axiom of Space:** *Space is everywhere from anywhere.*

**Axiom of Time:** *Time is everywhere now,  
anywhere measured.*

**Light obeys both axioms.**

<Now> <Law> <Accel> <Fan> <Real> <Cone>

## 8. The Lightrealm: *Keeper of The Light.*



### The Light Sea: *Carrier of The Light.*

*The accepted scientific standard for **light** is herein acknowledged and assumed. **Light** is considered to encompass the entire electromagnetic spectrum. The active agent of **Lightrealm** is **The Light Sea**. While conventional physics often refers to the “**fabric of space**,” such terminology implies a two-dimensional surface. Seas behave volumetrically, as does **The Light Sea**.*

#### **Light is light. A is A.**

- Light moves at constant speed **c**. In all directions, in everything related, **c** is constant. The constant **c** holds across all phenomena, instruments, and observers.

*Light is arriving right now, the light we see and feel. The past is history. We live in the now. We anticipate future. Light obeys the axiom of space, and the axiom of time, both, always so, never not.*

**Time and space have 2 common referents concerning measures.**

**The Lightrealm and Light Sea have the same common referents:**

**Anywhere:** Center (0, 0, 0), the place where measure occurs.

**Everywhere:** Possible distances and directions for measures.

**What matters:** Mattergy, the things measured ...

Whatever they may be, however measured.

The **Light Sea** is mattergy being mattergy, that which is of the **lightrealm**.

*Mattergy matters. Measure that. Experience before measure. It's experience.*

***It is said, in the absence of mattergy space is Euclidian, i. e. Flat\*.***

***Well, duh! That's because space is flat\* anywhere and everywhere.***

**‘\*’** By flat\* we mean spatial, not planar.

---

**So, what then, is curving? lensing? bending?**



**worm-holing? black-holing?**

**Mattergy does that. And that’s why, mattergy matters.**

**Light isn’t matter. It’s part of mattergy.**

**That’s why  $E = pc$  still bends the flat.**

*So, for light, this reveals: energy is real even when rest mass is zero.*

*The source shifts—from “mass at rest” to “momentum in motion.”*

*The constant  $c^2$  declares that energy and mass are interchangeable.*

*Light, as pure energy, broadcasts **\*\*mass equivalence in motion.\*\****

**The Universe: Space is everywhere from anywhere.**

**The lightrealm and The Light Sea are everywhere from anywhere.**

**The Universe and the lightrealm/Light Sea are equivalencies.**

<b>Aspect</b>	<b>Fabric of Space</b>	<b>The Light Sea</b>
<i>Ontology</i>	<i>Abstract/Metaphorical</i>	<i>Axiomatic/Grounded</i>
<i>Curvature Source</i>	<i>Mis-defined Spacetime</i>	<i>Mattergy as Bending Agent</i>
<i>Measurement</i>	<i>Distorted Measures</i>	<i>Measure from Context</i>
<i>Purpose</i>	<i>Visual Storytelling</i>	<i>Foundational Reclass</i>
<i>Framework Status</i>	<i>Analogy in the Abstract</i>	<i>Anchored Analogy</i>

***The Nature of Light:***

***The Lightrealm keeps. The Light Sea carries.***

**Light is known, well-studied, and its behavior well-understood by scientific consensus. These behaviors give rise to the notion of a Light Sea — an omnipresent, energetic field of a full spectrum of electromagnetic energy and matter, through which space, time, and presence are observed and measured.**

---

**Mattergy Is what real is all about. Electro-Magnetic. <- ^ ->  
Baryons. Whatever. Mattergy is what we are measuring.**

**Mattergy is where agency occurs. Mattergy is itself agency occurring. Mattergy is the cause that causes cause. Mattergy behaves as proper of itself, resists acceleration, responds to gravity, causes events pursuant to the nature of that which we measure and study. Mattergy is measured allowing for potential distortions of measure. Energy isn't "other than" matter, instead mattergy moves, changes form, interacts in ways that are in the nature of mattergy. Mattergy matters. A is A.**

---

### ***The Lightrealm, The Light Sea, The Manifestations of Mattergy.***

**An organized understanding of light that traverses space, marks time, in a variety of potential measures. Light reaches us in The Now, as the arrival of observed spatial conditions like distance and direction from center, or temporal conditions measured from The Now, Light is a medium by which we make measurements. Measurement Dilation arises because light provides relational metrics distorted when motion is observed under relative conditions.**

---

### **The Set of Ages, the Axiom of Time, in Action.**

**Reality unfolds through light's arrival in The Now. The Set of Ages captures durations — abstracted spans of time, past history, The Now, and anticipated future. Time travel is disallowed by the axiom of time before we even get started. Time spans are always abstractions. The axiom of time is imbedded in all time spans.**

**<Parent>**   **<Children>**   **<Root>**

---

## 8a. The Light Sea: Carrier of All Things Light.

[<-](#) [^](#) [->](#)

**Let's compare these two abstractions:**

- 1) The Fabric of Space
- 2) The Light Sea

*First, foremost, fabrics are 2D, The Light Sea is 3D, space is 3D. Q.E.D.*

**Let's continue:** *We just cooked some burgers on our BBQ grill. I like cheese on my burger (an opinion, yes), so I fetched a "slice" of American cheese. Now, I notice that the 24 slices in the package represent slices from a brick of cheese, the slice being 2D, while the brick is, of course, 3D. If the fabric of space is a slice of something, what is being sliced? Space? Where is this brick (sic) of space? Error 404: Brick of space not found." Error 405: There is no fabric brick either, method fails.*

*PS. This works with pickles, too.*

**And a further analogy:** *We see a submarine, The USS Mattergy, travelling through the ocean. The Mattergy is displacing the water around it. The Mattergy is bending the water, curving the water, cutting a hole through the water. Once the Mattergy has passed through a particular portion of water, the water returns to its natural state, smooth, flat, unhindered. Where is the brick then? The water is the brick. The 3D nature of space is retained by abstracting a Light Sea instead of a fabric of space.*

**The Light Sea is a far better abstraction than the fabric of space.**

**Far better?** *I think so. Submarines displace water like fish swim in the sea, always so, never not. **Agreed?***

[<Lightrealm>](#)   [<Children>](#)   [<Root>](#)

---

8b. Parent Concept, Lightrealm: Anchored/Grounded.     <- ^ ->

**Proper Truth:** Proper abstractions have coherent referents.

**Spacetime revisited:** The unmentioned concept – **light**. Albert uses **light** as foundation of **space** and **time**, **spacetime**.     **Just say so.**

< See it. Believe it.>

Compound abstractions must be built from, and remain faithful to, the nature of the root concepts from which they derive. When a root concept is axiomatic, the axiomatic nature of the root concept must be retained for coherence to persist when taken further, in all later abstractions.

---

*The current accepted scientific standard for light is accepted and assumed.*

**Light** – the “energy” aspect of mattergy.

Light is a root concept of all of these new compound abstractions:  
Lightrealm, The Light Sea, Spacelight, and Timelight.

**Lightrealm:** Keeper of all that is light (our parent (root) concept.)

**The Light Sea:** Carrier of all that is light (the agency of the lightrealm.)

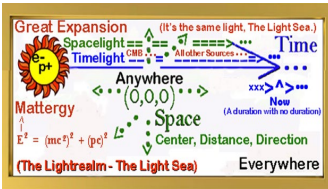
<Lightrealm>    <Light Sea>    <Root>

---

## 8c. The children: *Spacelight, Timelight.*



The lightrealm is the foundational (parent) abstraction that encompasses all that derives from the nature of light. The Lightrealm is not a place, rather an abstraction of conditions that arise from the nature of light as we observe it, measure it, and draw proper truth from those observations. The lightrealm, as the keeper, and The Light Sea as the carrier, give structural cohesion to the child concepts spacelight and timelight. When we see that light is energy, lightrealm becomes the canvas on which energy paints reality.



< A Picture is worth a thousand words.>

**Spacelight:** *a compound abstraction of space related to light.*

The Lightrealm is everywhere from anywhere. (Distance, and direction from center).

*We observe light traversing space—reaching us from a source, across distance, and along a direction. Mattergy matters. What? Light? Where? Why? When? How?*

=====

**Timelight:** *a compound abstraction of time related to light.*

xxx>\* \_\_\_\_\_ >...

Great Expansion                      (The age of The Universe, the longest duration)                      ^ Now

Time is everywhere now, anywhere measured.

Though light travels through time, we observe it only in a dimensionless moment we call The Now. Time is a rank-0 tensor not a flowing dimension. Measures of time derive from the actions of mattergy in space. Measure only matters where *Mattergy matters*

=====

<Lightrealm>                      <Light Sea>

## 8d. The Importance of Root Concepts:



Spacetime is derived from its root concepts, space, and time.

Spacelight is derived from its root concepts, space, and light.

Timelight is derived from its root concepts, time, and light.

=====

**Spacetime and spacelight each have space in common.**

### **Axiom of Space:**

*Space is everywhere from anywhere.*

Spacetime must comply with the axiom of space, an axiomatic root concept.

Spacetime violates the axiom of space by granting non-justified properties to space (that space is a source of agency rather than mattergy).

Spacelight must comply with the axiom of space, an axiomatic root concept.

Spacelight obeys the axiom of space to provide center, distance, and direction.

=====

**Spacetime and timelight each have time in common.**

### **Axiom of Time:**

*Time is everywhere now, anywhere measured.*

Spacetime must comply with the axiom of time, an axiomatic root concept.

Spacetime violates the axiom of time by granting dimension to a rank-0 tensor.

Timelight must comply with the axiom of time, an axiomatic root concept.

Timelight obeys the axiom of time. Time spans derive from time-related events.

Observations in and of the now form temporal abstractions we call time spans.

***The axiom of time is embedded in all time spans.***

***It's proper truth. True to experience, it is.***

---



## Root concept: *Space*.



Spacetime must comply with the axiom of space, one of its root concepts.

**Space provides center, distance, direction, nothing else.**

Spacetime violates the Axiom of Space by claiming spatial attributes (fabrics, 4D magic trampolines). Such attributes are the province of mattergy where proper agency resides.

## Root concept: *Time*.

Spacetime must comply with the axiom of time, one of its root concepts.

**The Axiom of Time: *Time is everywhere now, anywhere measured.***

**The Present Moment is always The Now:  $xxx \rightarrow \wedge \rightarrow \dots$**

- Time is the moment of now, not a place in Space.
- Space is irreducible yet revealed through change.
- Time is everywhere at once, anywhere measured.

**Fact: *The measure of time*  $xxx \rightarrow \text{=====} \rightarrow \dots$**

**The Now: Infinity in. Infinity out. Nothing in-between  $xxx \rightarrow \wedge \rightarrow \dots$**

**Time is measured in time spans:**

– *A completed time span*  $[] \text{=====} []$

Begin          End

Completed Time spans have particular begin, particular end, Nows irrelevant. Nows come and go for the life of the span. All time spans are abstractions, completed or otherwise. Time spans persist as repeated Nows.

Time spans exist as abstraction. Time spans have length only as abstraction.

**Spacetime violates the Axiom of Time when claiming time has length.**

Time spans are only abstract lengths. Time is a rank-0 tensor, not a dimension.

.

# Root concept: *Light*.



*We honor the accepted, objective description of light.*

- \* Constant speed  $c$  in all directions.
- \* Consistent behavior across all frames of reference.
- \* Arrives now, takes time to propagate.
- \* Dual nature of light, both particle and wave:
  - Wave behavior invites abstraction of light spans.
  - Particle behavior is not about the span, but the arrival.
  - In all forms light obeys the Axiom of Time.

**The Now: Infinity in. Infinity out. No in-between.**

xxx>^>...

- . -- Light arrives in a moment of now, at the observing location.      Past      Future
- . -- The behavior of light is objectively known.
- . -- Light leads to specific observation followed by particular abstraction.

## **The relationship of time to light (time spans / light spans.):**

*Time spans and light spans describe abstract relationships.*

*These spans exist only in our heads not in reality.*

Both time spans and light spans are compound abstractions.

Light is used to identify the thing observed with respect to either spacelight, timelight, or both.

Span implies a calculated or assumed length. Neither implies length in ontology.

Both describe relations as observations that connect events.

**Light is measured as light spans:**

*A completed light span* []xxxxxxxxxxxxxxxxxxxxxxxxxxxx[] <- Abstraction

.                                      Begin                                      End

**Measures with particular begin, with particular end.**

Light spans are abstraction. Light spans have length (as abstraction).

Light spans have abstract length. Time is a rank-0 tensor, not a dimension.

**Spacelight expresses the behavior of light as measures of light spans.**

**Timelight expresses the behavior of light as measures of time spans.**

<Lightrealm> <Light Sea> <Parent> <Children>

## 9. Spacetime meets new friends.

<- ^ ->

*Spacelight refers to space as it relates to light.*

*Timelight refers to time as it relates to light.*

*Spacetime violates both the axioms of space and time*

<See it. Believe it.>

The Now: xxx>^>... Infinity in. Infinity out. ← We proved it, right there.

**Essential fact:** *Light in the **Now** is abstraction of history, on-going abstractions related to The Now, and speculative, predictive abstraction of future. **Mattergy** manifests these abstractions via **spacelight** and **timelight**. **Light travels through space, and rides on time's observable Now with respect to observations of mattergy.***

Spacelight expresses the behavior of light as measures of light spans.  
Timelight expresses the behavior of light as measures of time spans.

*(Mattergy always matters. Light is the energy part of mattergy.)*

The Newtonian Framework is experience before measure. During the discussion of laws and principles, the Law of Universal Gravitation was improved by the addition of mass/energy conservation and compatibility with Quantum Mechanics. The Newtonian Framework is simply modern Classical Mechanics. That 4th dimension remains its mathematical self. I will mention, though, leave time travel to the movies. It's a trip with nowhere to go.

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# The Newtonian Framework



## The Newtonian Perspective: *Closing Remarks ...*



*It's okay to disagree, yes. Call it opinion, that's okay, too.  
Might we agree to disagree? Where might we agree?  
Where might we disagree? I agree with the math. We  
agree with the math. Agreement noted. I disagree with  
some explanations where others agree with them.  
Disagreement noted.*

*Let's make a side-by-side comparison:*

The Classic/Modern Perspective	The Relativistic Perspective
Reality exists whether or not we're watching. Laws don't bend. Time ticks the same for all of us.	Reality flexes with our motion. Laws transform, not break. Time ticks differently on different spaceships.
Observer Independent, Invariant, Objective	Observer Dependent, Covariant, Subjective
Space -> Euclidian, Cartesian ... Space is flat, fixed, measurable from center as distance and direction. Space is passive and inert, a passive agent. It doesn't act, only holds. Axiom: Space is everywhere from anywhere.	Space -> non-Euclidian ... Acquires some aspects of Mattergy (Light), fused with time in a way that obscures agency and consequence.  Axiom: I have no idea. If there is one, I haven't seen it.
Time -> Rank-0 Tensor, Universal, Independent Agent. Time flows without curvature—sovereign and unbent.  Axiom: Time is everywhere now, anywhere measured.	Time -> The 4 <sup>th</sup> Dimension, Observer-Measured. Acquires some aspects of Mattergy (Light), Active Agent, Combines with space. Axiom: huh? What's that? If there is one, I haven't seen it.

<p><b>Mattergy -&gt; The agent of action and change combines matter and energy, allows mass/energy conservation.</b></p> <p><b>Axiom: Mattergy matters.</b></p> <p><b>(The terms high-lighted yellow below derive from mattergy (light.))</b></p>	<p><b>Mattergy -&gt; N/A, Matter (mass) and Energy are treated as separate, the one transforms to the other and vice versa.</b></p> <p><b>What can I say? Axiom undefined.</b></p>
<p><b>Universal Laws, Invariant. Three Laws of Motion. Gravity enhanced as acceleration. Quantum Mechanics factored in.</b></p>	<p><b>Laws Co-Variant, Observer Oriented. Those relativist principles and postulates go here.</b></p>
<p><b>Lightrealm -&gt; Parent abstraction used to derive all child terms surrounding light.</b></p>	<p><b>I have no idea. As far as I know they never named this. The Fabric Warehouse? The Universal Cotton Ball? They just say Universe.</b></p>
<p><b>The Light Sea -&gt; A 3D analogy. Mattergy swims in it.</b></p>	<p><b>The Fabric of Space -&gt; 2D analogy, Is that stitched sheet muslin, or percale?</b></p>
<p><b>Spacelight → Space is a passive agent; light is an active consequence of mattergy's self-interaction. Light obeys the axiom of space. Light travels distance over time. Light does not redefine space. Timelight → Time is a rank-0 tensor, universal and independent. Light obeys the axiom of time, arriving in The Now. Light does not redefine time.</b></p>	<p><b>Spacetime → Unified 4D manifold. Space and time fused, shaped by mass-energy. Space gets its stretchiness. Time acquires curvature from light and motion. Spacetime is treated as real while being an actual floating abstraction.</b></p>

## Final Thought: The Defense Rests



*Math is Math. Fact is Fact. A is A.*

$\sqrt{-1} \dots \sqrt{-n}$  This is not real. It is useful fiction, but a fiction nonetheless.

- \*  $i$  is defined as  $\sqrt{-1}$ .

- \*  $\sqrt{-n}$  becomes a scaled imaginary value (e.g.,  $\sqrt{-25} = 5i$ ).

### Complex Numbers:

- \* Combine real and imaginary parts:

- \* Used in algebra, calculus, and differential equations.

### Applications:

#### Electrical Engineering:

- \* AC circuits use complex numbers to model phase shifts.

#### Quantum Mechanics:

- \* Wave functions often involve imaginary components.

#### Signal Processing:

- \* Fourier transforms rely on complex exponentials.

#### Control Systems:

- \* Stability analysis uses poles in the complex plane.

## Quantum Mechanics and the Imaginary Unit

### Core Equation:

The time-dependent Schrödinger equation features the imaginary unit  $i$ :

- \* 
$$i\hbar \frac{\partial}{\partial t} \Psi = \hat{H} \Psi$$

That  $i$  isn't decoration—it's structural. Without it, the wavefunction loses its oscillatory behavior, and quantum evolution collapses into classical drift.

### Complex Numbers in QM:

Quantum states are vectors in a complex Hilbert space. Observables are real, but the machinery underneath is complex-valued. Every  $\sqrt{-n}$  lives here, scaled and scaffolded by  $i$ .

---

Yet, *i* is quite imaginary, yes? Math is Math. A is A. 

- **Claim:** M-Theory posits 11 dimensions, with 7 compactified into infinitesimal spaces at every point in 4D spacetime.
- **Compactification Mechanism:** These dimensions are “curled” into  $G_2$  manifolds—mathematical structures with no observable volume.
- **Scalar Consequence:** Packing seven spatial dimensions into a dimensionless point is not scalar—it’s symbolic fiction.
- **The Anchored Proper Truth:** Observable consequence is the curvature compass. If a dimension cannot be measured, tested, or anchored—it does not exist in scalar reality. It is not a proper truth. Theoretical physics often uses “compactified” or “curled” dimensionful dimensions that evade detection. Shucks. That’s not subtlety—it’s fiction.
- **Dimensionless means dimensionless. Zero is Zero. A is A.**

Usage	Meaning	Example
Scalar Proper Truth	A claim holds proper truth by consequence, not stitched metaphor.	“Time is a rank-0 tensor” is proper truth.
Scalar Consequence	A statement that ripples through reality, not just math.	“No observable volume = no volume at all.”
Scalar Anchor	A pedagogical foothold against euphemism.	“Imaginary numbers are fiction” is scalar anchor.
Scalar Audit	A test for whether a claim is properly real, measurable, and consequence-bearing.	“Seven curled dimensions in a point” fails scalar audit.
Scalar Grammar	The disciplined use of rank, tensor, curvature to describe reality.	Outreach packet glossary entries use scalar grammar.

## Compactification? Let's talk that over.



Compactification is often described spatially, extra dimensions, curled like circles or folded into Calabi–Yau manifolds. This framing misleads. The true consequence lies not in space, but in mattergy. These dimensions ripple through particle identity, symmetry breaking, and interaction strength. Their shape is not measured. It's inferred from the behavior of mattergy in proper space.

Compactification is not a spatial reduction. It's a mattergy encoding. In some simplified models (like early Kaluza–Klein theory), extra dimensions are treated as 1D circles ( $S^1$ ). They have a center in imaginary space, a proper mathematical convenience, not a proper truth.

Hey! What about the center? Where is that?

Calabi–Yau manifolds and similar compact spaces define their own by their topology and curvature—not by a central point. I asked where. Dimensions can't be measured? Unmeasurable dimensions? Their shape is inferred from mathematical consistency, not physical detection.

- Isaac says so as well. He says you play a game of imaginary circle.

Call it, “curled like a circle,” it's metaphor. The actual geometry is far more intricate—multi-dimensional, non-Euclidean, and centerless, not so much A is A.

**We prefer A be A. Let A be A. Always so. Never not.**

**Math is Math. Fact is Fact. A is A. Thank You.**

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