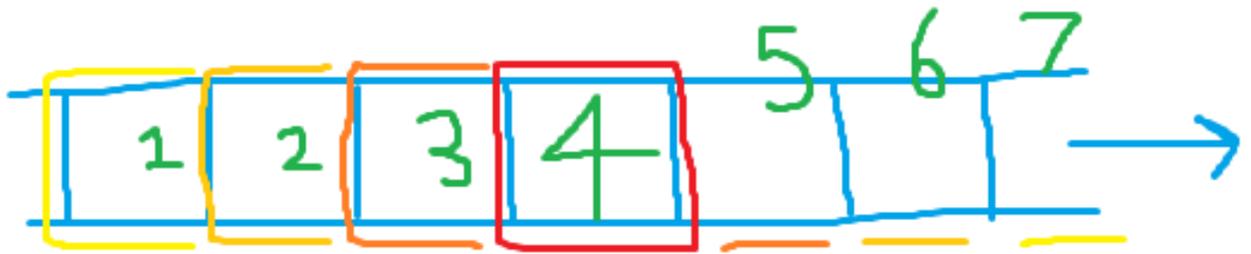


# PERCEPTOR FRAMES.



this paper may explore zeno's paradox, light in special relativity, and reality framing itself. i didn't bother to google to see if the term perceptor frames, which is just a term i made up, already means anything to anyone. the term just feels right here. we live in a world of common sense which is expressed in our rational minds as classical physics. zeno's paradox is just a dumb idiotic question deliberately formed in a way inconsistent with physical reality, or common sense from the classical point of view. obviously if i give a turtle a good head start in a race around a race track, and then run fast, i will easily win the race because calculus is obviously nonsense. at least when applied in this way. now i can sit here writing this paper whose images and ideas are coming from my mind, and perhaps convince myself and maybe even you that reality is nonclassical, SR (special relativity) is true, reality is JIQF (just interacting quantum fields), LIAM (life is a movie) and SOSEICTMP (someone or something else is controlling the movie projector). and it might even be true. i don't know.

but if you walk across town to McDonalds accepting any one of these four suggestions about reality fully, you either won't make it back home safely or wind up in a nut house. to function in the world, raise a family and work any job without getting fired the first day every time, you need to ignore these high minded ideas as the utter nonsense of fools which they are. yet i still like to explore them mentally. maybe i waste my time. so i am one of the fools. anyway. my wife T said something interesting about writing a story: it comes from your mind so anything can happen. very well said i think. is it possible the universe is just a story? and can we write the sub-stories in it? well to some degree we do. but can we as humans someday fully master an ability to write reality itself as easily as we write fairy tales? without being crazy i mean, believing it is happening. actually manifesting reality, being the causal force itself? not just the slow tedious process of making tools to chip away changes to our world? big fundamental question and probably a stupid one.

to anyone with common sense awareness of motion and velocity in the real world, SR is MFN (mind-fu\*\*ing nonsense). and it really is unless something else is really going on, but badly explained with lousy metaphors. pinheads get the math and say they understand it. they all lie of course. i do believe they get the math and good for them. i get it myself fairly well perhaps.

but saying they understand it just gives them the stage. a good stand up comic can hold the stage too, and at least make us laugh.

the JIQF (just interacting quantum fields) is my favorite idea of reality as you can tell by my paper and a scifi story which i made a lame attempt at writing. it is fun sometimes for me though, so i enjoy a fantasy story as i write it and then re-read my own story until i get bored with it. which happens fast. it might even make a great movie if a better writer than me wrote the screenplay. i want the world to be JIQF because that reality could really send us to the stars, even turn reality itself in to a practical fantasy land. who wouldn't choose that? but like you all, when i close the book, stop writing or pause the movie in my head, the floor is still solid, gravity sucks, and i am not superman. the change in perception happens immediately of course with just a click as if waking from a dream. the mind is just a dream all the time. even when it is logical. that its logical forms match our everyday world of appearances is of course fortunate for us. whether the appearances are fundamentally real of course is always being explored by philosophers, and even physicists now. eventually if i don't quit, this paper will make another fruitless attempt to resolve all the paradoxes using the film strip metaphor in the image above and below.

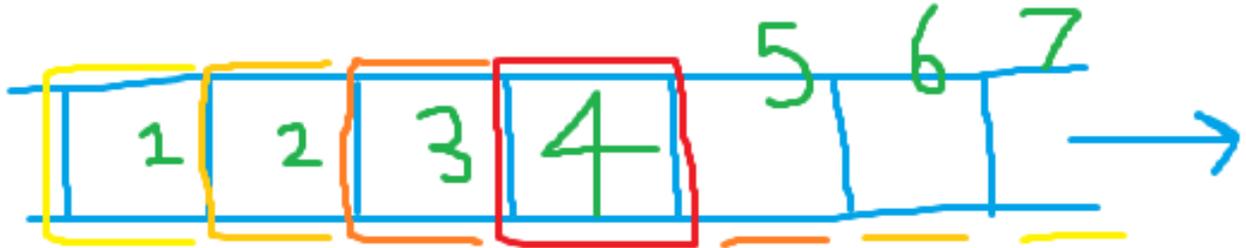
is it true that the reality of space and time is a movie? the LIAM (life is a movie) metaphor is everyone's holodeck dream, and many respected theoretical physicists explore this idea. i admit i will love it if it turns out to be true and we can get holodeck control of the universe. keep your day job though and stay with classical physics in the practical world so you won't get fired on the first day of every job you land. if the LIAM idea were fully true and we could control the projector, i could actually be captain kirk one day and superman the next, and enjoy all the lois lanes i ever want. sounds fun for sure. and i could do all this without cheating on my wife because she could play all the lois lanes. one day brunette another day blond, avoiding the redheads of course for obvious reasons, though the temptation is always there.

the SOSEICTMP: [so-sayk-tum-pea].

someone or something else is controlling the movie projector.

SOSEICTMP was popular in ancient times, and still is as religion. i can't knock it and i won't. this perception is hard wired into us, some brain biologists say. since i don't know how reality works, i will not judge until we have all the answers. don't hold your breath too long though. it's not good for you. i think we can hold faith and doubts at the same time without conflict. we do after all have two brain hemispheres. maybe that's what they are for. to hold alternative perspectives at the same time. it is not a sin. it doesn't have to be a fight we are always having with ourselves hopefully. besides, isn't it much more fun to beat up someone else instead of ourselves? just kidding of course. it is just immaturity to start fights with others because we can't handle conflict within. so don't fight your own conflictedness, that would be a triple fight. accept your own inner conflictedness instead as your ability to hold more than one point of view. and be proud of yourself. our ability to hold multiple points of view is our ability to make

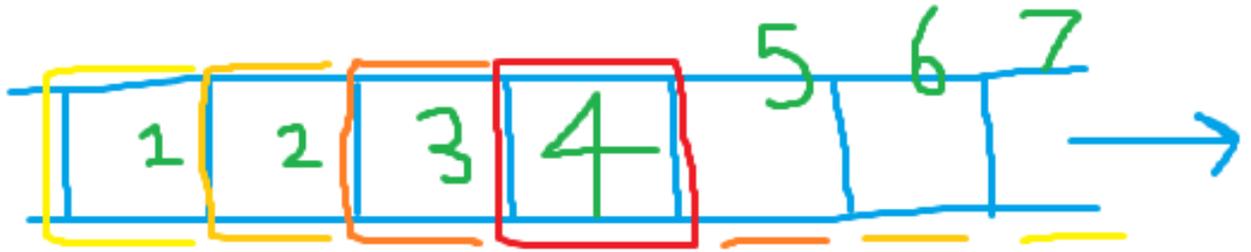
choices and to be respectful of others. so here we go if you are still here on my little page. below is my drawing of a blue filmstrip with the red square identifying the space where each still frame of a movie clicks through. the film strip of course doesn't slide through smoothly. it advances in quick jumps momentarily still so it won't blur each still image. then clicks away 24 times or so per second. you've all hopefully heard the loud clickety sounds of the old movie projectors when you are stuck in a seat near the projector.



imagine now for a moment that the blue part of the image above is a strip of click-jumping and sliding movie film. the red square is the slot in the projector where light shines through the flipping still frame pictures. so that red square is the present moment in our LIAM metaphor. the orange partial square to its left is 1/24th of a second ago in this movie, or the previous moment of reality in our metaphor. notice two additional past moments are represented in lighter shades of orangish color. obviously i have represented each moment, each 1/24th of a second of time, as the green numbers, with numbers getting smaller towards the left representing those past frames fading from memory. and the numbers 5, 6, 7 enter the squares as they move closer to the red perception frame, representing the idea that apparently in reality the future isn't formed yet. but we don't know. it does appear to us that the nearer future moments are more formed than more distant future moments. again we don't know. it could theoretically be that our future moments, at least a ways into our futures are in the reel already. determinism. or it could be more like grade school. you have to stay in class. but you can move on to other grades. other levels of reality creation in this metaphor. i would love to graduate in LIAM school. imagine having a cosmic PHD?

hi lois, which one are you? i had you as blond yesterday right? no i was a brunette yesterday. oops sorry my bad. anyway you're my wife either way so let's have some fun! don't try this at home or in classical reality. that would be cheating. what time is it? no one knows for sure so let's procrastinate.

:-)



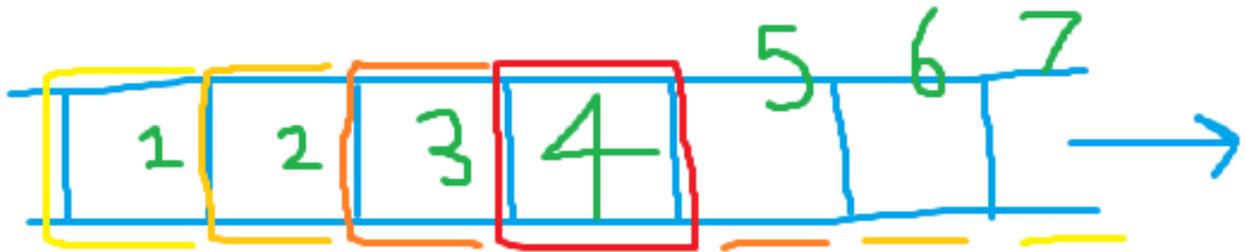
once again with the metaphorical film strip clicking through the red perceptor frame. if we had no internal memory capability whatsoever, we would always perceive an unchanging still frame of reality wouldn't we? it would be changing in time very fast of course, but with absolutely no memory of preceding frames flipping through time, each for 1/24th of a second, we would actually be perceiving only a single frozen unchanging moment of time not knowing that reality has been flipping, changing unnoticed by us. thinking of course is not possible in this situation. but pretend for a moment that thinking is possible. always locked perceptually in a frozen unchanging moment of time, it would be strange indeed. reality would always be changing all the time. and our single moment would be changing to another each 1/24th of a second, but we would always only perceive the moment we are in without any past temporal reference frames with which to mentally compare.



we would be perceptually frozen in a still frame of time while actually flipping through the frames of time normally not knowing it. now try to imagine attending a real movie at the theater with an extremely impaired memory function. would you perceive anything at all? would you be just a zombie staring at a glowing picture on the wall? that would be my guess. i say these silly sentences to drive home the point that it is actually you who are composing the movie at the theater. were it not for your mind's ability to be still perceiving the fading near past frames as the future frames flip into and through the red square perceptor frame of the fleeting present moment of awareness, there would be no movie playing on the screen. in other words if you did not have a built in time comparison framer there would be no meaningful perceivable experience to the movie.

now what does this have to say about our perceived reality in a world of space with an invisible time dimension which tries to make sense of motion and change. i have no idea. these are concepts. but something does more than try to make sense of it. it does a damn good job. if reality really is SR, JIQF, LIAM, and SOSEICTMP, and we are the perceptor frames, then the biggest miracle of all is that any mechanism, system or entity can organize it all into a movie experience like reality, and with some ability to select plot options as we journey through the

film. now back to reality as we may or may not understand it. click out of this dream of which is the mind, kiss your wife and care for the kids.



but one more thing. our interpretations of SR are nonsense. the speed of light cannot be an actual physical constant finite velocity where classical velocities don't add up. whatever  $c$  is, it is not a velocity in our ordinary idea of speed. you can play all kinds of games with time in your equations, but the world still works the way it works and we don't yet know how it works. we do have a lot of the pieces of the puzzle, but the puzzle does not yet resemble a picture we can glue together and hang on the wall without embarrassing ourselves when company comes over for dinner.

we do seem to be our own perceptor frames in a biological, neurological sense. or perhaps what the relativity people call space-time is itself the perceptor frame. in this case it is perceptor frames, us, within the larger perceptor frame of space-time. there may also be a perceptor frame an entity or soul brings to incarnation. but we don't seem to be able to decisively settle this issue as a human species. SR actually claims that space and time are frame dependent, varying from frame to frame with none absolute, but mis-identifies  $c$  as an ordinary velocity. an ordinary velocity, if there actually is such a thing, and this is doubtful since SR is well confirmed, cannot modify time flow. since time and space modifies according to frames of reference, there is a suggestion here that light is a causation inducing phenomenon, and as such cannot be said to be a mere velocity through the space it modifies.

this would be tantamount to claiming that the velocity of han solo's millenium falcon has an actual velocity in the movie. it is of course just appearances on the screen. the only speed actually in the whole movie is the rate of the still frames flipping through the red square in the drawing:



and SR suggests the same may be true of our classical reality experience. if so it is an experience not a physical world. yet we are stuck with the experiences and the experiences are real. if these ideas have merit then  $c$  is not a velocity but a reality processing rate.

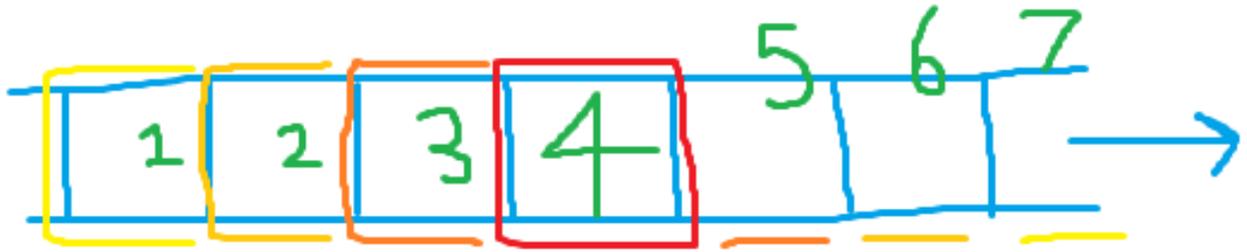
is the universe a story? is it his story or ours? or both. or neither? hug your kids. one thing i know. this paper is a story either way.

i can't help myself. i always have to add another dumb thought. let's assume a GOD created the cosmos so she could have kids and let them learn to grow up in it. maybe she's yearning for adult conversations and the angels don't fit the bill. maybe she made a man but he was an a\*\* hole.

if so GOD must be a dumb blond. instead of a vast cosmos with too many restrictive rules and limitations on potential development, like a real light speed limit, she could have just made a high capacity quantum apple computer and avoided all that trouble with the dumb apple they say eve stole but adam probably did.

in other words, wouldn't a flexible sort of simulated cosmos where absolutely anything perceivable is possible be a better way to instantiate a never ending adventure? of course it would. so is GOD a dumb blond or redhead god help us. i just hope it's a girl.

okay now the film strip metaphor is nice and easy to visualize, but what is time really? i suppose it is comparisons of cycles at many levels from atomic energy cycles of electron shells all the way to the largest practical cycles for our use, the spinning earth for day and night, orbiting moon around earth for monthly cycles and the earth's orbit around the sun for counting years. but who does the counting to make it perceived time? a conscious or self aware life form of course. and all life is self aware. why do you think a rabbit scampers away? to stay safe of course if it can. how could it be afraid if not self aware? an animal blends itself naturally with the cycles of nature. roosters crow at dawn and birds tweet. humans needing to coordinate the many interconnecting events of modern life have built clocks into all the myriads of devices. GPS satellites, the CPU in your computer and the watch on your wrist and your cell phone all work together to connect all the linking points of the system. but not just our system, all of nature, the bugs in the air flapping their little wings to the beat of their own living time rhythms, a bee landing on a flower that smells just right if that's how they sense them. a hungry eagle in flight with its sharp eyes zeroing in on its prey which scampers and moves in its time rhythms. all because the same time-bending light in us bends for their world frames too. sitting here at my desk my chair rocks gently back and forth when i take breaks from writing to contemplate or enjoy coffee and a cigarette i shouldn't smoke. that's personal time of a kind. just feeling like rocking in the chair or sipping the coffee. this has more to do with the experience of time. maybe no words are flowing out of my mind space to put down through the keyboard, through the silicon circuits of the computer to be displayed on the screen to be then read back to myself to see if i think they suck or not. all this is time. but none of it is truly time unless perceived. where is it perceived? they may call it the minds eye or the human heart or whatever but no one has yet located it. it is the one place that is a nonlocal place, space itself perhaps. but not just coordinate space, perceptual space.

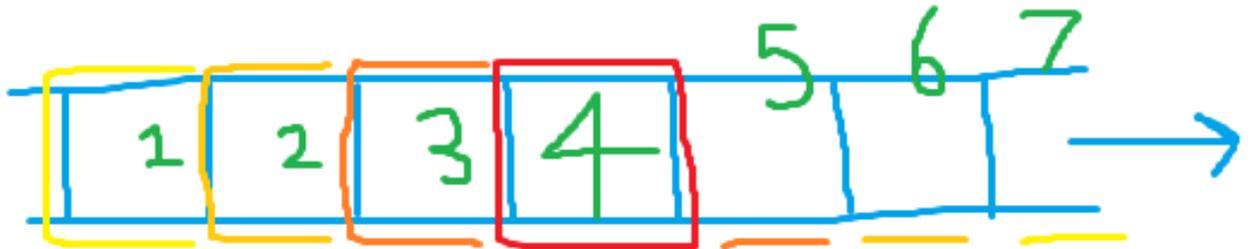


a biologist looks for it in the brain and doesn't find it. a physicist looks to the atom, but that's just a clock. a peasant looks to the sun or moon. but a meditator looks within. and that's where it actually is but yet a location in space and time cannot be found for the ultimate clock because the ultimate is awareness itself. somewhere in light itself probably because that is where SR does its time warping magic.

this is even deeper than electron orbital cycles. the seat of self awareness may be in light itself. right at the intersection of the electric and magnetic undulating waves of the electromagnetic spectrum of light itself wherever light is, whether in space or interacting causationally modifying the dance of changing electron energy levels inside us. all our atoms in an electromagnetic dance and interfacing with space itself, the space-time continuum. the music of the spheres. ultimately metaphysical. the continuum itself and all beings embedded in it. GOD if you want to give it a name. i call it AU. [ah-oo]. when you talk to yourself you're trying to talk to it maybe. or maybe just frustrated. but isn't frustration just a feeling of not liking time's flow at this moment within yourself? so we meditate or breathe deeply before we act. because acting in anyway in the world, setting events in motion by choices or impulse modifies future events in our life space and the spaces of others. we spin our gears which turn the gears of others. sometimes the gears slip a bit between ourselves and others. other times they link up in coordinated fashion and we work together. if things don't work out well we meditate or take a break to sync up with our inner clocks and perhaps even metaphysically with perhaps light itself, or the integrated purposes of the cosmos itself of which we are.

to sync up with the ultimate time bender itself, light, is probably the best we can do to improve our lives. breathe. all of existence is unity in that metaphysical point which is everywhere light is. is there anywhere it is not? light is modifying every electron in every atom in the entire cosmos all the way down to every atom in your body, and right there in light itself maybe where you actually are seeming to look out from behind your eyes and between your ears. and not because your brain is located there, but simply because that is where your eyes and ears are. if your eyes were on your knee caps and your ears on your ankles, yet your brain in your head, you would probably perceive yourself to be located behind your kneecaps and in your ankles. yet still your self awareness would be from within light itself, a unified field. the cosmos looking out at itself from every location life forms exist. you are the universe experiencing itself. in that sense you are GOD, when not just absorbed in personal affairs. and yet even then though perhaps engaged selfishly. but that too is the cosmos taking care of its sense organs. does it care about its sense organs? do you care about your toes when you stub one? every step you make is a unit of time on the courses you chart. so chart your course well by syncing up all the clocks, but especially the metaphysical one you can only link up within. know first your true self and you will do no harm to others. this is the universe's prime directive.

so where is that little red square perceptor frame actually located if the metaphor even applies in some way? i guess it is at the interface of undulating electric charge and magnetic poles in light itself cascading up through all your atoms and nervous system and out through your sense organs perceptually. so light as a whole is not only the stuff that projects the appearances of reality to each reference frame, each life form, it also contains the clickety clackety, jerky motions of time frames which slide past the minds eye. able to bend both time and space, it adapts to each reference frame giving the cosmos itself eyes and ears and boots on the ground everywhere.



so light is not only the stuff doing the looking, it makes all the forms and makes them all perceivable. of course there are other quantum fields. but none like light. light is the one unavoidable, indispensable quantum field. who knows, perhaps it originated all the other fields? i don't know. the only fully truthful statement i can make.

yet i still type. gabby on the keys. if SR (special relativity) is actually proven someday with a space probe actually getting to half  $c$  or so, and the time dilation effects and length contraction along the propagation line can be physically measured and verified, then we may have a real theory of reality frame physics. who knows, we may then say that indeed  $c$  is not a true velocity, but a reality processing phenomenon which mimics a velocity in the realities it manifests. if it were just a reality processing phenomenon without mimicking velocity in space, we could go all the way to  $c$  on the way to alpha centauri, and still always have another  $c$  range ahead of us, thus we could approach  $2c$ , still having a full  $c$  range ahead and go to  $3c$ , etcetera to potential infinite speed eventually. all the while the folks back home, only seeing our images coming in at standard light speed relative to earth would see us always approaching the speed of light never reaching it. relativity intact because the spacecraft is many reference frames away in another continuum space. if we carried on this at say  $1.4 G$  acceleration and continued skipping to new reference frames conserving relativity, but actually  $100c$  eventually relative to our first frame outbound from earth, we might find ourselves across the galaxy in only a year. but thousands upon thousands of years have passed on earth during our year, and also at our destination. so a one year journey for us onboard like this to a distant star is actually a journey to that star thousands of years in the future. add to that the fact that images of stars across the galaxy are something like  $100,000$  year old pictures, and you come face to face with the difficult fact that you can't make any specific plans of what or whom to visit. so these trips if possible will need to be very very long term sustainable multi-generational ships. big big projects.

of course there may be an entirely different game to play with quantum field theory if it ever becomes usable fact. the entire cosmos might be fantasy. then every and all possibilities are up for grabs. if the universe is a holographic fantasy from top to bottom and through and through, then time and space travel is just playing different tapes. all fantasy right now of course. the

shocking thing is serious theoretical physicists spend time pursuing that. so who knows? plant your feet on solid ground as always of course. and laugh at these ideas for now. and row row row your boat gently down the stream. merrily merrily merrily merrily, life might be a dream. but don't turn it into a nightmare by believing anything i just said.

watch a good movie instead.

