

The Aura : Time, Speed & Space

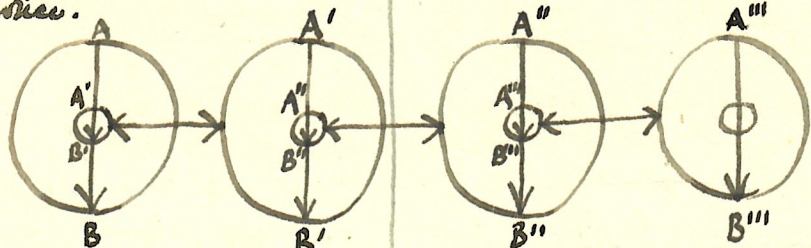
- ① First refer to the Windows Pane Theory in which we saw how, if the field is constant, space shrinks as we approach the higher monads, & space swells as we descend ^{to center.}
- ② As we descend towards the center we slough space. Space grows in our field & the surplus is 'destroyed' or uplets.



Field A B becomes field A' B' and the difference is done away with. The window pane A B A' B' remains constant but less & less of the world is seen through it.

③ Now what are the consequences for Time of this swelling of space + its amputation to keep it within the field: this bed of Procrustes?

④ Take an object moving across the AB field in ~~1 sec~~ a second, ^{not} too fast for the observer to notice.



$$AB = \frac{1 \text{ ft}}{1 \text{ sec}}$$

$$A'B' = \frac{1}{10} \text{ ft}$$

$$A''B'' = \frac{1}{100} \text{ ft}$$

$$A'''B''' = 1 \text{ second}$$

The Aura: Time, Speed & Space (5) Now, by expanding the space within the field & trimming off the edges, while keeping the field itself constant, we reduce the time taken by the object to travel across the field.

If we multiply the space by 10 diameters the object will take only $\frac{1}{10}$ th second to cross the field. If we enlarge the ~~space~~ space by 1000 diameters the object will take only $\frac{1}{1000}$ th of a second to cross the field.

(6) In other words the swelling of space & its trimming to a constant field involves the swelling of time & its trimming to a constant field.

④ Another illustration: if your field is a chess
the mile takes a day to cross the field. If you
narrow down your field to pin-head size the mile
takes only a second to race across it. over

⑤ In other words, ^{'the same'} speed is not constant. * It depends
upon how much space is included in the observer's
field. If very much space is included, as when you
look at the stars, their speed is very slow. If
very little space is included the speed of the same
object is hurried in proportion. As space swells
towards the centre speed is accelerated; as space
shrinks towards the circumference speed is slowed down.
To 405 - no speed. To S.E. - infinite speed.

60 miles or hours = 360 miles

The Curva: Time Spent & Space. ⑨ This is obvious when travelling in the train. The nearer trees move much faster, relatively to you, than the further ones. Objects on the horizon move hardly at all. $Velocity = \frac{Space}{Time}$

⑩ $Speed = \frac{Space}{Time} \therefore \text{Increasing } \frac{Space}{Time} = \text{Increasing } \frac{Space}{Time}$
 $Velocity \text{ constant} = \frac{Space}{Time}$

$\therefore$, to keep the fraction a constant, when space decreases time must decrease by the same ratio.

⑪ Now all the above traits of our human field, & of our human time-flow. Now the tower the mountain the narrow its field. a moving object ~~an object~~ that for us in our

more inclusive field takes a second to cross that field takes only say $\frac{1}{100}$ of a second to cross the lower monad's narrower field. Yet for the lower monad this $\frac{1}{100}$ of a second must be as "long" as our second, just as its field, though $\frac{1}{100}$ of diameter of our field, is for it just as big as ours. *

(no: this is wrong)
see p. 6

(11) Carr (p. 79: Theory of monads) says: we all recognise constancy of velocity when we compare range of activity of human being with that of other creatures.

(12) You are watching an ant. You perceive that it is positively racing along. This view is based upon your recognising the altered scale of the ant's world.

The Law: Time, Speed, & Space. In your human reference frame the ant actually moves very slowly: it is slow, which you perceive, it moves very quickly. You recognise that an ant's mile is your foot. And you also recognise that the ant's hour is your minute.

⑭ The law is this: it takes as long (in my experience) for an object to cross my field AB as it takes (in the experience of a lower monad) for the same object to cross its narrower field $A'B'$. In other words the speed of the object is constant as Carr says above.

(15) The speed appears to me to increase as the field narrows, but this is not really so. The distance covered is the same - namely the A B field. The time taken is the same. The velocity is the same.

(16) Thus to an electron, the path of another electron in the same atom across its A B field, is not immeasurably swift, nor the time taken immeasurably short, nor the distance travelled infinitely small. All are of the same order (for the electron) as your similar experiences are for you. What is for you infinitesimal time & space is for the electron long drawn out.

The Curva: Time, Space & Space (17) To the electron the
 sun is a minute point of light (see Curv) almost
 infinitely distant, and an earthly day is almost
 infinite time. In the limit, at the centre, the world
 is infinitely expanded in time & space (18) Yet the whole
 being infinitely remote, is infinitely small! Thus
 Space destroys itself. And Time, being infinitely
 drawn out, destroys itself too, for nothing can happen.
 Distances are so great that they cannot be travelled,
 & time is so long-drawn-out that the Future never
 becomes Present, nor the Present Past. In this world

there is only Now, and only Here. Here the field AB has become emptied of all Space and it takes no Time for an object to traverse it.

(19) At the other extreme, the field AB includes all Space. There is in it no There, only Here. It is impossible to travel in this space, because you only travel from Here to Here which is nonsense. And travelling from Here to Here takes no time at all.

No Area Time, Speed & Space : * Ratio.

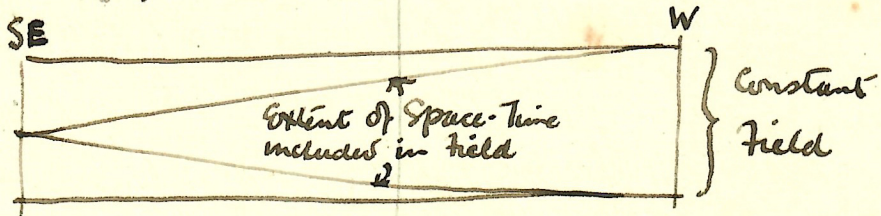
Really the speed is ^{not} constant (See Car) ^{here} which means ~~that~~ Speed is constant when the mile moves as fast in its perspective as I do in mine.

If we take a speed at human level: A to B takes one second, and see this speed from other levels, we find that it gets faster as we go down & slower as we ascend in the hierarchy. To God it is still, static; to o.e. its speed is infinite.

But if we wish to find a speed that is constant for all levels, ^{as seen by them} we must see space and time swelling as we

descent & diminish diminishing as we ascend.

Clear up the confusion of this Note.



XVII

As Recipients a Passive, Time flows 'back' for us. ^{not time} _{! but}
As Active it flows 'forward'. _{In practice it is}

(i) What we receive as perceptions, sensations, stimuli, if we understand them at all, we refer back to the past. To understand a thing is to trace its past back to a familiar point. A letter received now is referred to the past in which it was written. A scar on a man's face refers to an accident long ago. Why? means, & what's its Past? The present perception refers us back to a past event which is its cause. It is a sign,

referring us back to something more important than itself. Thus
a tombstone says: His Jacet.... A building is said as
old, a man as having a good, bad, glorious, miserable
past. All things as perceivers refer us back to a Past.

(ii) But for functional names. He letter refers me to
the state of mind of its writer a week ago in order
that I shall take present action.

But present action is never purposeless. I must have
a reference to the future to act now. Just as I must have
a reference to the past to receive now.

All stimuli refer to the Past, all behaviours to the Future.
I receive the Past & give the Future. (or is it).

See how functional the Past is in me. It gives meaning
to all I receive. And the Future is the meaning of my action.

We should use our imaginations to free us from the tyranny of time.

① First we can change its rate of flow, visualising the landscape heaving & billowing like the sea; iron melting to dust in our hands; skyscrapers popping up out of the ground as if they were fired from a gun, & disappearing as rapidly; the sun whizzing across the sky.

② We can slow down the flow, imagining a conversation in which the sound of my voice takes five minutes to cross the room,

(But of course your physiological processes & brain

functioning would be hurried or retarded, & would ~~too~~ be in the ~~sa~~ same relative position to events as ^{they are} ~~the~~ is now. In other words to see the world slowed down we must imagine our brain processes hurried & vice versa.)

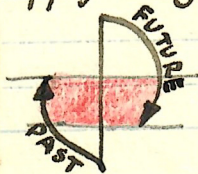
3. We can reverse time & see morality reversed.

4. We can travel in time & live in the past & the future.

Past and Future overlapping in Specious Present.



apply really.)



Your specious present is a unification of "past" "present" + "future" in a present which contains before + after but no knife-edge on which these absolutely divide. (In your S-p the terms past + future don't

apply really.) Your S-p is where for you past + future overlap. For God all past overlaps with all future. And when there is overlap there is no past + future but only before + after.



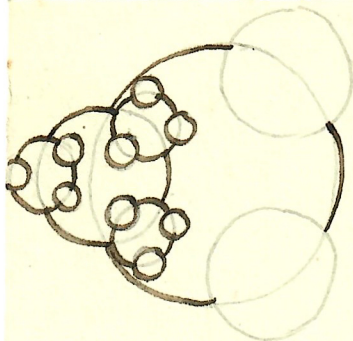
For God the overlap is complete
and all is in the Specious
present. For him the future
is one-with-the past. For us

this is the case only in our 2-D picture heads.
Beyond our S.P.s Future & past seem quite distinct.
This is our limitation, not the truth.

AT VII X1
8 9 16 21 22

(1)

"Hollowers" of Monads. The 'biospheric' arrangement is pretty universal; for a monad, ~~new~~ apart from its lower levels, is primarily a surface. The living part of the SS is an outer part: the Earth is a bio-spiral enclosing much 'lower-grade' space. The Earth's living tissues are superficial. You as man are this human exterior: its interior is more primitive. The cell as cell is concerned with energy-exchange with its environment, at its face or surface. The atom's activity is principally an affair of its outer electron rings: the inner ones are (a) more primitive, (b) more stable.



Monads develop the perimeters of that volume of space which they have appropriated.

Our diagram would become:
instead of



The Earth is planetary to the sun, Life is planetary to the Earth, the electron is planetary to the atom.

(Great Design (71)) Molecules usually in dynamic state, with the atoms oscillating to & fro, or revolving round one another, or both.