

(2)

Structure & Process
Space-Time

Space now is not ^{obviously} connected with Space at some other time. Time comes in & reveals this structure of Space, a dimension of Space that was hidden. The whole is Space-time.

③ Your precious present is the measure of your grasp of the time dimension of Space Time.

④* The difference between a monad's body & his mind is that his body, being structure, includes time enough to solidify such a structure out of process, whereas his mind, being process and concerned with the not of the world does not attribute to the world more time than the s.p. furnishes. (This a muddled groping for something important. Work out)

⑪ A monad's progress is adding to the body structure more & more of the external world, which passes, by the monad's activity, from process to structure. Mental activity is a preliminary effort at this solidification, it is preparation of the ground to be taken over. Purposive activity marks off a section of the process which it will finally solidify into body.

⑫ The presence of the past in the present means that the process of the past lies within the structure of the present. The atom's solidity is due to the busy rotation of electrons.

⑬ The process of abstraction is the process of stalling by including time. A minute of the SS is not the S.S. a millennium of God is not God & in it there is no God. It takes time for a monad to fill space & it takes space for it to fill time.

Space-Time (14) That time may legitimately be regarded as analogous to a 4th dimension of space is evident from the fact that in a cinema film time does appear as a 4th space dimension.

(15)* Structure is process you take for granted, process you can only upon as substratum to your process, process which you are no longer interested in as process but only as outcome. This leaves you free to get on with your work, which is that portion of the Universal Structure which is for you, liquefied down into Process. Your unconscious is thus "Structure" to your Conscious "Process" & your Body

is the outward aspect of this structure. Actually, however,
Taking the view of the whole, one may look on all the
world as Process, so that all the steps to achieve a result
are doing componently with the doing of the result.
Or one may look on it all as achieved structure.
The former way is the truer, I think.

XI 17 22

①

Colchester 28.1.46

The Here-Now & the There-Then & the Where-When

Only the Here is Now; only the There is then. There is always Past/Future - both.

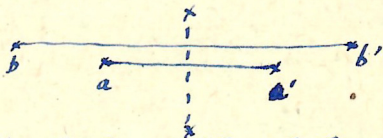
This means that extension in space is extension in time.
To extend by inclusion of more space in your body is to increase the Here-Now at the expense of the There-Then.

God is thus all Here & all Now. God is the Here-now; the world as Here-Now, & our here-now is a part of his.

The S-e, on the other hand, is all There-then. Things are

either to happen, or happened: the then is the edge, the infinitely small knife-edge Λ of the Present in which nothing can happen Zeno.

Zeno's puzzles are a question of level. Zeno was talking of the center - at which the arrow really is still. Time & space are of qualities & nature according to their level.



aa' bb' are the spatial extents of 2 organisms. Their temporal extents will be at a minimum, the time taken for propagation of light from b to b' , a to a' . More probably it will be greater - the time 'nervous thrills' of various kinds take.

17 21 22 23

Solidity and Time-scale ① A rotating propeller looks circular, and Newton's wheel, coloured with segments in the primary colours, looks white. A raindrop looks like a line.

② On the other hand the sun, though it describes an arc across the sky, doesn't appear to us in that guise. Nor do days & nights follow one another so fast that the result is twilight all the time. Nor are individuals so ephemeral we don't notice them, but observe only species. Nor do trees show a green flicker, as they grow & shed their leaves, a flicker so brief that it is seen

as a green haze in which no leaves can be distinguished.

③ Clearly the appearance of things is a question of Time, a question of Frequency. It is frequency which makes things look solid, infrequency which makes them look disintegrated or spread out.

④ Clearly the integration, the building of the world, is the inclusion of more & more time in the Now, as well as the inclusion of more & more space in the Here. You see the colour red because you merge the light waves arriving at different times, into one time. You hear music because you hear notes which apart in time, together, in one Now. Oneing Time-parts,

Solidity + Time - scale. Your world - i.e. you - is rich or poor according to the time which you can catch up & unify in your Specious Present. To your Supermonads the world is richer in all qualities because the world is more integrated in Time.

⑤ The higher the quality the longer time it takes to be itself. The higher the monad the longer time it takes to be itself. If you can grasp the sun with its planets for no longer than a day, you have no solar system. If you can see them in a longer time dimension you will see them as a Solar System.

⑥ It is not enough that you should follow events one after the other; you must unite them into one event.

⑦ This throws new & brilliant light on the nature of Time. In the lowest limit, Time is disintegrated & the world is utterly static & without qualities. Zeno's puzzles describe Time at the center.* Time does start off thus. But Time grows, develops. It is not a static dimension any more than Space is. It integrates its infinitely divided elements. And the evolution of the world in all its richness is this process of integration. * at center nothing can happen!
Time is a Growth.

Solidity & Time-scale - The Integration of Time

- ⑧ At electron level, atoms do not exist. Time has not coagulated sufficiently. The specious present of the electron is too brief to embrace a sufficient number of electron rotations round the nucleus for the atom's "solidity" to be grasped.
- ⑨ The Universe seems to us "open," loosely organized if at all, its qualities nebulous. Yet it is far more vital, personal, alive, real, & 'qualified' than you are - immeasurably more so.

- ⑩ If you take the world for an instant, the world doesn't exist, save as disintegrated electrons or sub-electrons. There are no world-wide instants.
- ⑪ It takes all time for God to be God; it takes no time for Him to be sub-es.
- ⑫ Every monad is a receptacle containing preserved time. It takes all time up to that monad for that monad to be itself.
- ⑬ But what has this to do with the time that we gather up in experience, giving experience its quality? To hear a musical phrase as music & not as a disintegrated series of notes involves the unification of a few moments, not of aeons.

Schubert's & Time Scale - The Integration of Time: Specious Pres.

(14) But it is with your whole past that you hear the music. The specious present, in which the phrase is grasped as one, is not cut off from the past. It is obviously not cut off from the larger "present" in which you hear the symphony as one. It is continuous with your ~~at~~ whole musical experience & career.

(15) Very important to correct the doctrine of the Specious Present by pointing out that, while on the further side it is fairly distinct from the Future, on the near side

it is quite un-distinct from the Past. There is flow & continuity between what is called the forms of memory & the given data of sensation, so that the product of the two (of given & of our moulding of the given) proceeds from all your past experience.

16) Thus it takes you a man, with the whole history of the world to man back of you, to know a man when you see one. And, elaborating this, it takes you with your span of experience present to unify what you see of the man into an appreciation of what he is. If you did not grasp him, as you grasp a musical phrase, in a fairly "long" S.P., you would miss the quality of him.

Solidity & Time Scale: The Integration of Time: Specious Pres.

① First, we have the thin Specious present, those few moments in which we distinguish before & after, but not Past Present Future.

Next, but not separated from the s-p by any dividing mark (save in post-motion), we have a wider "Present" in which, for example, the Symphony, the Play, or the Novel, is grasped in its temporal unity.

Next, but again merging with the above, we have your entire human experience of the world of your environment - which may be likened to a symphony or a play.

For in either case every new development is grasped into the whole & is what it is in that whole & not separably of itself. Thus every experience has meaning in experience-as-a-whole.

Finally, we must remember that your experience is the whole of your experience, & it takes every second of it since the beginning of time to see and the way you see red, or to hear a musical phrase just as you hear it.

Even your republican experience is involved in your understanding of this matter!

Solecity & Time Scale: The Integration of Time. Specious Present.

(18) Thus, strictly speaking, it takes a man to see a man. It requires countless billions of years to see a man as a man. It is necessary that those billions of years be united in the act of seeing the man, for him to be seen as a man. You see, more or less, what you are, you see the time-integration, the time-inclusiveness, that you yourself have achieved. You objectify yourself.

(19) See how beautifully this fits in with our scheme of your Past Present & Future



The Future, the Extremal, you drag down to your level, seeing nothing greater in the Universe than man because you cannot unify these greater beings in Time. It takes more Time than you are master of (w.) to see the Earth as a wonderful living Person which is what the Earth is. We have to put this Person in your Future because of your failure to grasp & make Present the Time span to which it has attained — the Time span which alone makes it the Earth Person.

You can only see Yourself.

Solidity & Time-scale

- (20) Another aspect of this failure-to-see of yours is that the Earth & the S.S. behave too slowly (by your reckoning) for you to grasp their character. Regarding the S-p field as constant, you include & move & move time in it as you progress, & that time is accelerated. Thus if you saw the Earth shooting out lines like rockets, & literally exploding (w) into rose-lines, you would be beginning to appreciate it. Similarly with your seeing the S.S. made solid.

21) Vastly important to note that this conquest of time is not salting it down, preserving it like ~~a~~ pickles. It is the putting of more & more time on the included active-list. (I say 'included' because all time is really on the active-list.)

Atoms are solid, not is not, man is man, for sure, because you have churned up & are always churning up ^{the liquid} time into solidity.* Not because you have let time stand & settle into solidity. Your inclusion of time is active inclusion, so that not a moment of your past but is also your present.

* Turning function into Structure