

Atomicity of Time & Space: The Dependence of Time & Space on each other.

most important to distinguish concrete space from abstract space & concrete time from abstract time. Bergson does the latter, calling it Duration.

I do both & show that the reality is concrete, filled, Space-Time. Really there are no instants in your life at all, only an extension of Time from the (s-e) start. All the time you know is evolved up to your level. So with space. You know no points. Your space has evolved up to your level. It takes the whole of Time up to you for you to exist or think or do for, as

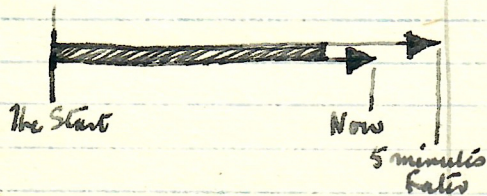
you say, for a second.* So also it takes space
involved up to the unity. you can give it, for
you to live & act.

Brevity is littleness. Bigness is Duration. Time
& Space are inseparable sure as abstract. Concretely
space is as big as it is old. Things grow
bigger as they grow older: you do. This is
a universal law.

For you, at the centre of the Aura, to become self-
conscious downwards towards 2-c level, you must
change your time-scale no less than your space-scale.
The perspective is a time-space perspective 

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Atomcity of Time & Space. * There are no intervals of time for you - intervals of say a second. There are only the growths of the time you are & live in - & that is reckoned from the start of time.



The Evolution of Time and Space from Atomcity to Wholeness is Evolution. There is no Time & Space save what is evolved by

Struggle & Experience and all the throes of the evolutionary process. Even T. & S. achieved only by Suffering, Thought, Religion

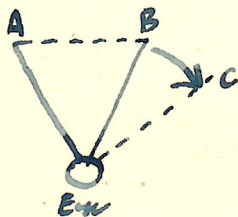


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The Specious Present and the Seen Space. Infinite time intervals and Infinite Space Intervals. Taking time by itself, without the help of space, we can only grasp up to say 12 seconds. Taking space by itself, without the help of time, we can only grasp up to say 4' at the range of 1 foot. That is, without moving the eye. From A to B. To bring C into the field of vision would mean looking at A & bringing time in to help space out.



Clocks help time out by bringing within 'Specious Space' time ^{intervals} that cannot be got into the 12 seconds of Specious Present.

Calendars bring 365 days into one Glance. You can see what happens at a Glance.

It is the organisation of our 'Precious Present' with our 'at a Glance' which has given us a greater grasp of time & of space than either could have given us alone. But the great lengths of time we can appreciate must be brought within the Seen Space & not within Infinite Time. And the great expanses of space grasped ~~to~~ must be grasped within one S.P. & not in infinite Time.

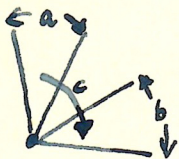
James: Textbook of Psychology, 340: Different impressions on the same nervous organ interfere with each other's perception & can't be attended to at once. Hence we don't locate them in each other's

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Spacetime Present + Seen Space

in a serial order of extremity, each alongside of the rest, in a space larger than that which any one sensation brings.

Now You move your eyes from seeing (a) field to seeing (b)



field, through arc (c). The motion takes the briefest time & is well within your S.P.

Its time is directly perceived. It is the time of the space (a) to (b) You perceive

this space by this time. You perceive feet by seconds.

Conversely you can read off in directly seen space distance (a) (b) on clock & call it 20 minutes. You perceive 20 mins by so many inches. The arc (c) is the arc of inferred time.



We can get a lot of space into our S.P., & a lot of time into our Seen space. You can include A & B in a space-grasp (on clock) but not in a time-grasp; or in a time-grasp (timing to observe & wide field of view) but not in a space-grasp.

Presumably higher animals have a S.P. shorter than ours & a field of vision possibly a little narrower. But the difference between their total time & space grasp & ours does not lie here. It lies in their failure to organise time & space to the extent that we have organised them.

Is the evolutionary story one of (a) Increasing width of field of vision (b) Increasing time-grasp of S-P (c) Increasing organisation of (a)(b) to yield vast grasp of infinite time & space?

③

Specious Present & Seen Space Is it not our business to
organize time & space so as to hand up to higher levels a ^{giving}
bigger S.P. which we have fabricated. & can also enjoy as
inferred time & space, but which the higher level can ~~enjoy~~
enjoy as simple S.P. & seen space?

Then our S.P. & our Seen space are fabricated for us
below the level of our consciousness. This is the time weaving
of space & time by practice, by the effort of organization
in concrete experience.

The notion of "all the space there is" implies a Perceiver
of it. A Perceiver who apprehends it directly & all at once.
The notion of "Past, Present, & Future" implies an Experiencer
of it. An Experiencer who apprehends it directly in one S.P.

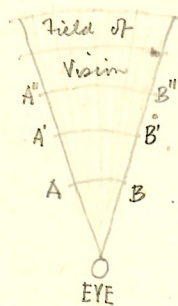
Now we imagine or think of the world as a whole in space,
& in time, & we call this the real world. In so doing
we are implying the Experiences described above, God, as the
basis of the real world. He infers no time from space,
& no space from time, but experiences both in one
Field of View.

This Field of Time & Space (perfectly knit so that the
Time is compounded, below God's level, of Time inferred
from Space, & the Space is compounded then of Space
inferred from Time) has been organizing, evolving. Yet it is
the basis of Reality, the Absolute to which we always are
unconsciously referring.

There must be some lovely parallels between the SP
& the Seen Space.

Specious Present & Seen Space

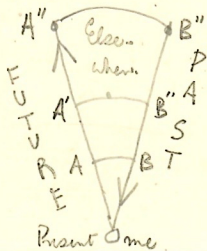
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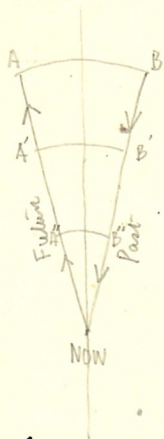


You can see
Star A & Star B at
once.

You can in one seen space see more of the space
of your higher stars than of your lower stars.
Your field of vision widens as it deepens.
Is there any corresponding depth of time-grasp
in your S.P.?

There is the hollow grasping of more &
more time. I see the
star's past but affect its
future. There is a spreading
of a sort of S.P. as the
field of vision deepens.
but the S.P. is hollow!



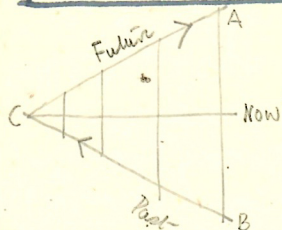


AB , the bottom S.P. of the star is, however, filled
in by $A'B'$, $A''B''$, etc. Perhaps, without
 this filling of yours, the stars S.P. is
really hollow! AB may be a gap of
 1000 years. $A''''''B''''''$ may be a gap of .001
 second. But theoretically there is no AB time
 between the two, in the cone V .

Now there must be some relation between the
 S.P. & $A-B$. It would be so simple if you
 could see the time arc AB .

Is the event you see here at $A''B''$ the complete filling in of
 AB ?

Specious Present & Seen Space (5)



We get the same hollow effect in the Symmetrizing diagram.

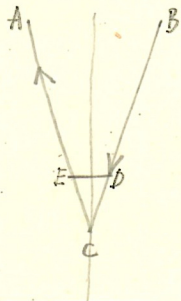
The Now I see now at C lies within my S.P. Therefore, if the S.P. includes what a Now was 500 years ago, my S.P. embraces that period up to the 'present'.

This is OK for $B \rightarrow C$. But how can $C \rightarrow A$ be included in my S.P.?

But there is a great difference between the grasp I have of an object's past because of the time it takes to get information to me, & the grasp of it I have in the S.P. Or is there? Do I find that the S.P. stretches far near

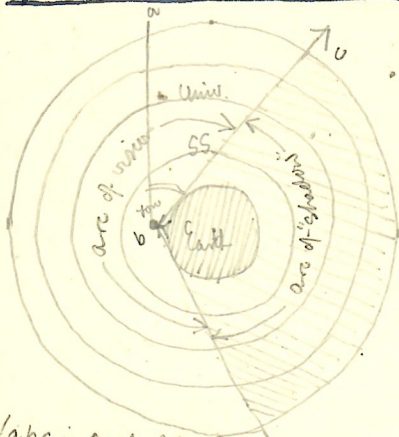
What run & lengths for for me? Experiment: vital point.
Was a match whirled near me leave a trail of light
of the same ^v length (for the same 'run' speed) as a rocket?
_{run}

The correct diagram leaves out the A B lines, which
are ignored. The only way from B to A is via C, so far as
we are concerned. But you intersect the lines at E D &
do not live at C, in the pure NOW.



But is there no hollowiness in our visual
space field? There is. We can't see the Earth,
the SS, the Univ, but only representative parts
of them in space. Just as we can only see
representative ^{some} parts of these.

Specious Present + Seen Space ⑥



(abc is angle of vision within the arc of vision.)

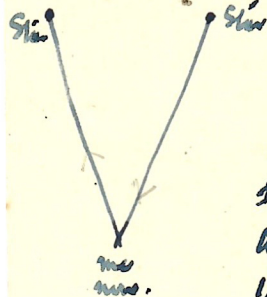
breaking-down present, or anything else that lies between you +

The earth casts a sort of vision shadows so that you see at once approximately $\frac{1}{2}$ the sphere of the heavens: you see a hemispherical dome of sky, with such parts of SS + U as happen to be visible in that half. Is this 'holerunner' one that corresponds to the time-holerunner of vision?

Then is another sort of holerunner. You see the sky but not the

the star. Star - direct to you, apparently. This is really a great hollowiness. All the most elaborate breaking down process: ~~into~~ from SS, SS to Earth, Earth to life etc is

Star really involved in my seeing the star but the seeing is a hollow seeing + I miss all this.



— the time +.
 Into the 12 seconds of my vision of the star are packed 1,000 years. Into the $\frac{1}{100}$ th inch of the space of my vision of the star are packed 1,000,000 miles my (the star's diameter.)

Note it is not only the time taken to switch your eyes from A to B that gives them distance apart. The extent to which the eye muscles are used is also important clue. See James, Textbook p. 340-1.

Specious Present & Seen Space ⑦ James p 341: "We look at a point; another point upon the retina's margin catches our attention, & in an instant we turn the fovea upon it, letting its image successively fall upon all the points of the intervening retinal line. The line thus traced so rapidly by the second point is itself a visual object, with the first & second point at its respective ends. It separates the points, which become localities by its length with reference to each other." But the first point is now not clearly seen, or not seen at all perhaps. Anyway, clearly the series of images between the 2 points & the motion of point 2 itself all involve time & all happen within a specious present. My argument is not invalidated. What the above

amounts to it that, corresponding to $A \rightarrow B$ is a virtual event
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 $a \rightarrow b$ in me.



In diagrams it is right & inevitable to show
time by a line or a curve, as in graphs, so
as to include in one glance time extending
beyond our S.P. Our diagrams have more
than an excuse, & more than analogical validity,
where Time is concerned: they are of the very nature of
Time, which proceeds by integration with Space. Our
diagrams of Time in terms of Space are part of the
means whereby the S.P. of the Hierarchy is extended.

Spatial Percept & Seen Space ⑧ Sensation of depth depends largely on Memory & so on Time grasp. E.g. Relation of size of house as present retinal image, compared with retinal image of house at typical range, gives relation between present range of house & typical range: i.e. distance of house. E.g. Rotating stick assumed to be constant in length, yet apparently shortening & lengthening. The depth of the stick when end-on, is essentially said to be the same as the length when seen in front elevation. But, if the stick is rotating fast, the end-on & front-lev. views are both included in one S.P.

