

He had First Matter seen undressed;
He took her naked, all alone,
Before one rag of Form was on.

Butler: Hudibras, Pt. I, Canto I, §60.

That the absolute Substance groundlessly is and not is not, that is for us the
wonder of all wonders.

Edmund von Hartmann: Kategorienlehre, p. 528.

Edmund

Except for the point, the still point,

There would be no dance, & then is only the dance.

T. S. Eliot: "Burnt Norton"

All around him Patmos lies
Who hath spirit-gifted eyes,
Who his happy night can suit
To the great & the minute

E. M. Thomas: "Patmos"

Look within; within is the Fountain of all
good. Such a fountain, when springing waters
can never fail, so thou dig still deeper &
deeper.

Marcellus Aurelius: Meditationes VII, XXXII.

p. 23

Dead forms a never-dying life do shroud;
A boundless sea lies in a little cloud.

Robert Southwell: "Of the Blessed Sacrament of the Altar"

"What of vile dust?" the preacher said

When God to all his paladins
By his own splendour swore
To make a fairer face than heaven,
Of dust and nothing more.

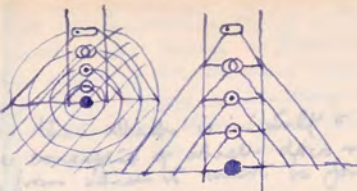
G. K. Chesterton: "In Praise of Dust"

Matter cannot be divided into parts of parts to infinity in respect of its spatial dimensions,
or of that dimension which appears as temporal. And matter, as usually defined,
and as we have defined it, has no other dimensions. It cannot therefore be divided
into parts of parts to infinity. And therefore it cannot exist.

J. M. E. McTaggart: The Nature of Existence § 362

Suppose a man had moulded all sorts of figures out of gold, & were unceasingly to remould
each into all the rest: then, if you should point to one of them & ask what it was, much
the safest answer in respect of truth would be to say 'gold', & never to speak of a triangle
or any of the other figures. . . . Now the same thing must be said of that nature which
receives all bodies. It must be called always the same; for it never depends at all
from its own character. . . . By nature it is then as a matrix for everything, changed & divers-
ified by the things that enter it, & on that account it appears to have different qualities at
different times. . . .

Plato: Timaeus: 50 A, B, C. (Compston trans.)



CHAPTER IV

TO THE CENTRE, AND BACK

THE CLOSE VIEW (continued)

The Close View (continued)

1. Towards the Centre The physical basis

I appear to be a man. Science is not satisfied, & on close inspection I turn out to be a society of animals. ~~Research reveals that these are really molecules; at last the molecules are, in fact, atoms.~~ ~~And atoms have now been reduced to electrons and protons.~~ ~~What, then, are electrons and protons? Are they, too, systems of something else in action?~~ My observer's quest is the stuff I am made of, but so far he has found only structures and behaviours in each region. The structure's ^{building} materials & the thing that behaves always ^{below} ~~lead me~~ in the ~~next~~ region, to be the structure of even finer materials and a behaviour of even finer agents, ~~not a substance at all.~~ In the search for my basic physical stuff, the observer is always referred ~~the~~ downwards. An electron & proton the primary stuff of the world?

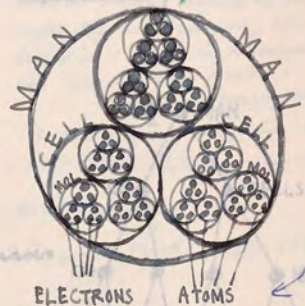
Science is an enterprise of yesterday & today, & there is no letting what ~~science reveals~~ millennia of research might not uncover in me. ^(it would be a pretty structure - one) Quite possibly future scientists will find a world ^{in a very electron.} It is ~~conceivable~~, as ^{Anaxagoras} ~~Leibniz~~ ^{believed}, that matter is infinitely divisible. ~~Modern physical sciences~~ that there are worlds within worlds without limit. ~~regards that~~ ~~and I agree with them~~ ~~that Leibniz was wrong.~~ ~~How can it be~~ ~~that it seems, my observer~~ ~~must come to~~ ~~the end of his search, having found the core of me.~~ ~~What is this core~~ ~~likely to be?~~

If it is continuous, or broken ~~into units?~~ ^{the former is} ~~indistinguishable?~~ ^{units give rise to particles.} ~~How can~~ ~~paradoxes~~ ~~give birth to variety?~~ ^{Such} ~~questions have occupied philosophers of every age, from Thales & Empedocles~~ ~~& Heraclitus (who~~ ~~reduces all things to~~ ~~water, air & fire)~~ ~~to a Spinoza~~ ~~(with his one Substance),~~ ~~Heckel & Spencer~~ ~~& Coleridge (with his one who makes~~ ~~the whole~~ ~~ether),~~ ~~S. A. Alexandry (with his primordial Space-Time),~~ ~~& finally Russell & Whitehead (with their Minimal Events).~~ ~~Most who have considered the question~~ ~~have held~~ ~~Bergson is a notable exception - he has held that there~~ ~~can be no change~~ ~~without that which does not change, and that there must be,~~ ~~neither that which changes, a sea of changeful substances, and, as a~~ ~~condition of motion, a thing which moves.~~ ~~Far go as far as Parmenides~~ ~~in one direction & deny change altogether, or as Bergson in the other,~~ ~~and that there is only change, without anything~~ ~~something that changes.~~

question is:

problem is: what, if any, are the ^{potential} relations of the space between my electron-observer myself as proton? What would an observer, who could sufficiently annul himself, register there? Is this space, perhaps, unoccupiable & consequently as good as non-existent?

How many boxes are there in the nest of boxes, & what does the last one hold?



ELECTRONS ATOMS

Each circle contains itself into matter and is itself in matter?

Anaxagoras (Pamph. Early Greek Philosophy, p. 258): "Not is there a least of what is small, but there is always a smaller; for it cannot be that what is should cease to be by being cut."

Leibniz: Monadology §65: "Each portion of matter is not only infinitely divisible... but is also actually subdivided without limit."

* Kant's Second Antinomy of Pure Reason was ^{that} matter cannot be infinitely divisible, nor (if) can it be composed of simple & unextended parts. Kant's 'solution' was to make space one of the forms of our perception & not objectively real.

The question of the continuity of physical 'substance' is linked with the question of the continuity of space. Important discussions are: Bergson: Creative Evolution, p. 162; & Russell: Our Knowledge of the External World, p. 132 ff.

3. Natural Philosophy (London 1911)

Part I. Ethics I.

+ Max Müller: Indian Philosophy, p. 204.

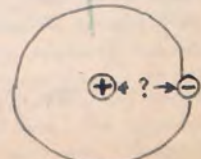
The Riddle of the Universe. XII

2. First Principles, p. 127.

• E.g. Space Time & Being, p. 1.

• E.g. Russell: Outline of Philosophy, p. 257 & Whitehead: Science & the Modern World pp. 129, 87

E.g. Creative Evolution, p. 317.



~~for~~ unless it is featureless, & it cannot impart information because it is
 featureless. ~~the function is to~~ ^{often} ~~impart~~ ^{close a gap with a name:} ~~to give a name to a gap so that~~
~~the gap remains.~~ If it is one, how explain the world's manifoldness;
 if many, the world's unity? * In short, the philosopher, ~~confronted~~ ^{confronted} ~~with~~ having
 formulated existence, is ~~confronted~~ ^{confronted} ~~with~~ the ~~problem~~ ^{problem} of ~~reconciling~~ ^{reconciling} ~~qualities~~ ^{qualities} ~~with~~ ^{with} ~~existence~~ ^{existence},
 for on his hands the problem of explaining the difference between ~~qualities~~ ^{qualities} ~~and~~ ^{and} ~~non-existence~~ ^{non-existence}.

2. The Centre of the regions: Unity & Nothingness. ^{while he has not gone to} still to reach the centre of
My observer finds that, ^{he cannot suspect the centre of the regions} ~~through which he has travelled~~, ^{nevertheless} his journey has revealed
tendencies which give a clue to what lies at the end, ~~of it~~. First there
is the fact that at each successive level ^{the members} ~~uniformity~~ ^{r. the} ~~increases~~ ^{varies}
~~with numbers~~. Two of my liver cells are ^{in many ways} ~~probably~~ more alike than any
two men. Two of my carbon atoms are probably far more alike than
any two of my cells. Electrons are ^{supposed} ~~to be~~ all precisely similar.
~~I cannot help feeling that this is an exaggeration~~, ^{However, that may be, the evidence is} but it is sufficiently
clear that progress is towards ever greater similarity between ever more
numerous units. Since any remaining differences would call for further
analysis, the ultimate units are presumably so alike as to be indis-
tinguishable even to the ideal scientist. * But in that event what
is left to separate them? — Are they not ~~one~~ ^{being}, according to the principles
of the identity of ~~indiscernibles~~?

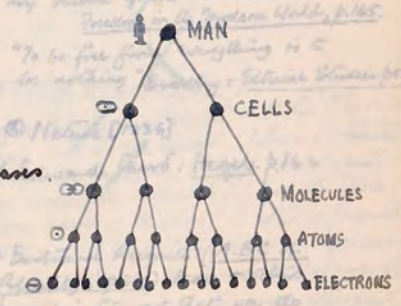
Such a conclusion is supported by the second ~~fact~~^{clue} noted by my observer: the 'smaller' units are, in actuality, anything but small. It appears easy enough to point out the boundaries of my human body, or of a cell of mine, but ~~my electronic units~~^{the physiological units} refuse to be confined. They are world-wide, though centered here; each is an organization of electro-magnetic tensions in the whole of space. My observer seems to be coming towards a region where ^{units} ~~units~~ ^{overlap} overlap & finally merge into a continuous field. The many melts into the one.

What is this One that is utterly featureless? Each of my engines was less ~~interesting~~ varied, of poorer content, than the last; each left more quality or value behind. This center, ~~remains~~ is the place where no content, no distinguishing mark, is left, & there remains - Nothing. From the other side I, who am at my observer's goal, can add my confirmation - I am not ~~off~~ many, but One. The billions of little lives I declare to be one life. The billions & billions of billions of individual molecules and

But the matter is finally ^{arranged} settled by the observer who
- is already at the centre - ² myself. (See To Chang, I, II, III)

• Spinoza defines substance as that which is in itself, as that the idea of which does not presuppose the idea of any other being as its source & origin. E. Thines!

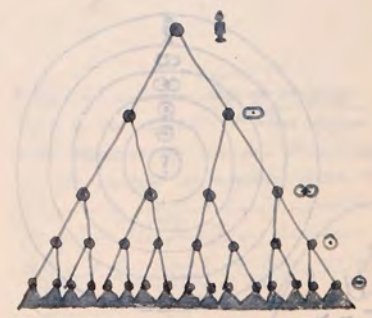
* Goethe, Max: Oswald held that matter is continuous. For modern science, ~~the whole is left~~ of 'matter' is ~~done~~ ~~continuous~~, & the continuity is found rather in the ~~space~~ spatio-temporal field, of which matter is a local sampling. See J. W. N. Sullivan: Atoms & molecules, p. 44, and Kram: Impulsive Universe, p. 138.



o Leibniz believed that "there are never two beings which are perfectly alike & in which it is not possible to find an internal difference" (Fourth Letter to Clarke)

* Meyerson (Explication dans les sciences, p 205) takes the view that scientific explanation is ideally the ~~diff~~ reduction of differences to seeming differences between underlying identities.

- See James Ward (Relativ. & Evolu., p. 195 ft.) on the unattainable lower limit of Pluralism — an $\alpha\pi\epsilon\iota\sigma\tau\epsilon\upsilon$, indeterminate Being, not differentiable into individuals. See also Eddington's: (The Expanding Universe p. 59) on the subject of a homogeneous medium as a basis for changing realities of physics.



There is a celebrated Persian ~~story~~ parable of a contest between certain Greek & Chinese painters: while the Chinese painted exquisitely, the Greeks were content merely to polish the surfaces allotted to them, till they reflected the work of their rivals & all the world besides. So, by following the negative path to the central nothingness, they arrived at all things. X "Do not retreat from the corpulence of bodies," says Sir Thomas Browne, "or resolve things beyond their first matter, & you discover the habitation of Angels... the ubiquity & omnipresent Essence of God."

X This story appears in Al Shazzali's *Ihya*, & again in Salaluddin Rumi's *Masnavi*.

Religio Medici Pt. 2, § XXXV.



Browne: *Religio Medici*, Pt. II, Sect. IV.

* The degree of my reality in the degree in which I grasp the world. Thus John Macmurray writes of 'normal' people: "Leaving the outside world they lose themselves; their inner life dies & goes into dissolution, & they become ghosts & echoes..." *Freedom in the Modern World*, p. 165.

"To be free from everything is to be nothing" Bradley: *Ethical Studies* p. 52.

Nature [1836]

* Edwards Quir: *Hegel*, p. 162

* Bertrand Russell (*A.B.C. of Philosophy*, p. 210) & others have pointed out that we do not know what is happening at the centre of 'a particle of matter', but only what is happening in the field, where the matter is not. I go further & say that nothing is happening at the centre.



+ On the immediacy of interaction between two minds see Ward: *Reason of Ints.*, p. 255.



④ There are many passages of the Taoist philosophers which the concept of the Tao seems to approach the concept of the Central Nothing. "The sage abides by actionless activity." "The Tao is hollow: use it & there is no overflowing. How fatherless it is!" "Are you able to become an (unself-conscious) babe? Are you able, as you cleanse the mysterious mirror, to leave no traces of self-consciousness?" "Go on to the limit of simpleness: Hold fast to the stability of stillness." "Hence to the root, hence, I affirm, to the stillness."

and atoms and electrons - universes within universes of inconceivable complexity - emerge as the simple fact: myself. At the centre there is unity. But unity of what? What am I but the things I take in? As Hume showed, I can search for laws in my experience & never finding any who has those experiences. "God, who truly knows me, knows that I am nothing." I know myself as a function of what is not myself. * I am a vacancy - for a world, a receptacle, ~~the~~ furnished accommodation. * In myself I am ~~nothing~~. The view out & the view in agree in this, that at the centre the many are One, and the One is ~~nothing~~, nothing-in-itself. "I become a transparent eyeball; I am nothing; I see all." It is true Emerson is speaking of a mood, a revelation, but whether I notice them or not, such are the facts. "The thing in itself is nothing."

And, after all, this ~~is~~ what & might have been expected. I need ~~nothing~~ to be myself - to be anything whatsoever. I am what I do to space: take away my space & you abolish me. The centre of my Regions is that one spot in the universe where, because I am given no elbow room, I am ~~nothing~~. * crowded out of existence. * Alice had reason to be a little nervous about her shrinking so much, "for it might end, you know," said Alice to herself "in my going out altogether, like a candle." What is less expected is the sudden blinding of the candles. When all is lost, then all is won.

3. The centre's ~~own~~ function ~~is~~ ^{simply} a piece of nothing, but it is not ~~for that reason~~ a ^{limit} ~~limit~~. The centre is ~~merely~~ theoretical limit to the spell I cast over space. To say that it is necessary & does work is an under-~~statement~~; in fact ~~statement~~. * Then are plenty of good reasons why my observer should regard it as his goal. Two of them concern me here. First, to this centre converges all that which acts upon me. I cannot be got at any other way: the train of events which does not arrive at this terminus is to me as though it did not exist. The world seems a ball, & misses me altogether. Second, it is from this centre that I act. I am powerless suddenly to initiate a motion in the region of my cells, or molecules, or mankind: the disturbance starts at the centre & works its way through ^{in turn} ~~my~~ region, developing as it advances. ~~This~~ is only another way of saying that, when my ~~scientific~~ observer wants to know what is really happening, he draws nearer.

Here at the centre I really do act, and really am acted upon. ^{to here is my innermost sanctum; here I am} Here I keep house; & the rest is only politics. And I stay at home: * those who think they have found me out of doors, in other regions, are mistaken. They see the ~~ghosts~~ ^{apparitions} of me - ~~ghosts~~ ^{apparitions} infinite in number & variety, but ineffectual. They see the ~~apparent~~ ^{apparent} ~~manifestations~~ ^{manifestations} of that central ~~point~~ ^{point} which, though changeless, is the ~~source~~ ^{initiator} and ~~parent~~ ^{parent} of change; though one, is yet the ~~beginning~~ ^{beginning} of infinite multiplicity; though nothing, is yet the ~~condition~~ ^{condition} of all.

But to think to a ~~point~~ ^{point} to discover the world in it. "Here the figures, here the colours, here all the images of every part of the universe are concentrated to a point." O what point is so marvellous! ... These are the miracles... forms already lost, mingled together in so small a space, it can recreate & reconstitute by dilation." (Tao Te Ching, II, IV, I, XVI.)

* Landau: *N. Books*, pp. 117, 118.

118. *Indians: N. Amer. pp. 117, 118.*
 from already far, might suffer in some degree of relaxation.
 point is as remarkable as the fact that we are interested in all the ways of any part
 of the universe, for the reason, for all the ways of any part
 that it appears to a person to be obvious to me in it. Then
 for the position of objects in relation to each other.
 which, through changes, is the result of the action of all
 but self-interest. They are the result of the action of all
 variations. They are the result of the action of all
 than who think they have found us out of state, in other words, and
 then I keep saying I the most is only perfect, and I stay at home.
 How at the same time I would be out, and really am acted upon.

[illegible]

"To be free from everything is to
be nothing" - Lao Tzu: Chinese philosopher
4th century B.C.

② Marine [1902]
+ Marine (1902): Marine p. 105

[illegible]

7000 d. 2nd + 3rd

④ There are many persons who think the concept of the "Gospel" is something which can be taught by words alone. It is not so. The Gospel is a life, a way of living. It is not a set of rules or a collection of facts. It is a power which changes the heart and transforms the mind. It is a love which binds us together and makes us one. It is a light which dispels the darkness and brings us to God.

Here I act — but how? I push this paper-weight. Because it is a cylinder, it rolls across the desk. Yet my paper-weight is itself + I am myself. We are two different things. Nobody could confuse us; there is no secret understanding between us; what is mine is my own & not to be confused with what belongs to this piece of metal. How then do I move it? How can 'motion' leave me, jumping in some unimaginable disembodied form from the tips of my fingers, and settle in the paper-weight? And how can the paper-weight, which has rolled back again, make my hand a part of some of its motion? As Hume shows, this bandying about of 'states', this transition from cause to effect, is not transparently natural: it is merely common. I labour under the delusion that what to me an occurrence a hundred times, or a million times, is to understand it. The reverse is true: only the exceptional is unmythical. I think I know how I push my paper-weight moves when I push it, but in fact I know no reason why it should not pass through my hand, or explode, or turn into a hundred little paper-weights, or even start off a conversation with me about what it ought to do. I cannot explain how any effect is possible, much less why a particular effect should follow a particular cause.

Causation is a profound mystery, but it is a mystery that fits into the general picture. My paper-weight and I act on one another because we come to terms, because we meet on common ground — the centre, nothingness. Here we do more than agree: we sink our differences — or rather it is we who sink, leaving our differences floating, till we reach that level where we are identical. At that the centre there is no mine & there, no ~~mine & there~~ my paper-weight & I are quite indistinguishable. So it is with my observer: he can only get at me by approaching, but he comes on my terms. When he gets to my cell region I refuse to recognize him as anything ~~superior~~ to cells; in my molecule region he is for me mere molecules: and so to the centre, where he is nothing. Nothing can touch me ~~but I should say~~: only the nothing can touch me for because to touch me is to be acted on by me is to come here & share my nothingness. All action is stooping to conquer, when stooping is absolute abasement. However little we have in common, a creature can always get at me, & I can always get back at him, provided we get rid of every personal peculiarity that stands between us. ~~And when we are in contact, the same rule applies: I have to digest the other, break him down utterly, before I can assimilate him.~~



Herbert Spencer out that change is unthinkable: either it is internally caused, or externally caused, or uncaused — & none of the three makes sense. The doctrine I put forward below is actually a combination of all three.

Don't miss Paulsen: 'Introduction to Philosophy', p. 211 ff.

(according to Hume)

* Features of Human Nature

* Causal efficiency exists not in objects but in the mind. When I observe a constant relation between two objects to be constantly repeated, I get the idea of one causing the other: "after a frequent repetition, I find that, upon the appearance of one of the objects, the mind is determined by custom to consider the usual attendant, & to consider it in a thorough light upon account of its relation to the first object. It is this impression, then, or determination, which affords me the idea of necessity." Treatise of Human Nature, Bk. I, Pt. III, 14. Rogers 375

The view put forward here is that a ~~variant of~~ the doctrine of Lotze, in Microcosmus, that interaction is only possible if elements are phases of one underlying substance. See R. B. Perry: Philosophy of the Recent Past, p. 92. James Ward: Realism of Ends, p. 15 ff.

+ As Marcus Aurelius says 'no man can properly call anything his own, nor his son, nor his body, nor his life.' (Meditations, XII, 11) What I really am, what I have & hold, is — nothing; what I have is — nothing.

In the words, * This is another way of saying there is no contact. ~~this agrees with the view of modern physicists.~~ On the subject of contact between the absence of contact between material particles, see Bertrand Russell: ABC of Relativity pp. 7, 12, 197. + Outline of Philosophy p. 148.

Because, at the moment of contact, the contacting bodies vanish. This lines up.

Whether one creature is much that the other, or whether the other is much that the first, the same rule applies.

History of the world is a history of the struggle for power. The struggle for power is the struggle for the right to live. The struggle for the right to live is the struggle for the right to be free. The struggle for the right to be free is the struggle for the right to be happy. The struggle for the right to be happy is the struggle for the right to be immortal. The struggle for the right to be immortal is the struggle for the right to be God.

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Things spoken together make one wheel;
And they fit into 'nothing' (at its centre):
Herein lies the usefulness of the carriage.

Thus it is that, while it must be taken to be advantageous
to have something there,
It must also be taken as useful to have 'nothing' there.

* "And Smallness, or Rarity, is ascribed to God's Nature because He is outside all solidity & distance & penetrates all things without let or hindrance. Indeed, Smallness is the elementary Cause of all things, for you will never find any part of the world but participative in that quality of smallness... This Smallness is without Quantity or Quality; it is Immeasurable, Infinite, Unlimited, & while comprehending all things, is itself Incomprehensible."

Tao Te Ching, Ch. XI
(trans. B.R. Hughes) p. 49

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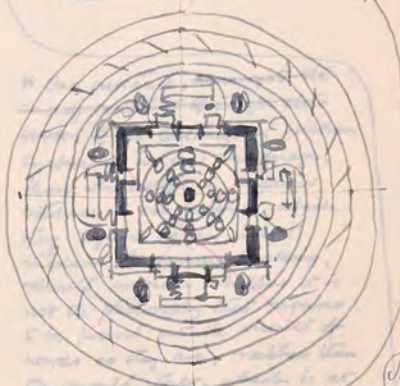


(Upon this Centre the mystery of Causation (whether it be the action of mind on body, or the body on mind, or body on body, or mind on mind) is focused. And since the Centre is also (as I shall argue in a later chapter) in some sense the whole, the doctrine I am advocating here is essentially the same as the occasionalism of Geulincx & Malebranche. God is the efficient cause of every event. ~~the apparent cause is only~~ The stimulation of my eye is not the cause but the occasion of my seeing, which God makes.

* Deocartes had suggested that the Pineal Gland was the medium that enabled mind & body to interact, but Geulincx & Malebranche prefer to make this node disappear upon God. In principle both were right. The Centre infinitely small & the infinitely large are alike involved in the Centre. See Ch. XII, §

It may be said that there are two varieties of nothing: the nothing that is prior to something, and the nothing that is contrasted with something. Of these the first is meaningless or unthinkable, while the second borrows so much definition from its environment that it is really more than nothing. The Centre belongs to the second category. It is very far from being a mere nothing. My Centre & its regions are inseparable from its regions, as the still centre of a wheel is from its turning rim. The whole concentric system is a whole of interdependent parts, none of which is comparable in importance with the central standing point & goal of all the system's traffic.

'Mandalas' are found amongst all peoples & from the earliest times, but they reach their greatest complexity in Chinese & Tibetan Buddhism, where they are used as instruments of contemplation. The centre (where the Buddha is often represented) is the part to which the highest significance is attached.



Buddhist Mandalas *
 *Principle of Chuang Chou.
 *Aristotle: De caelo ii, 13.
 See also Heath: Greek Cosmology, XXXVI.

And certainly no aspect of me is more mysterious, I have nothing clear nothing to explain myself. I have only explored my ignorance. This central void out of which springs all I do & into which flows all that is done to me, this ground of my being, this is in truth the ultimate mystery. This, surely, is what William Law refers to as 'a root or depth of the soul' from whence all their faculties come forth, as lines from a centre, or as branches from the body of the tree. They speak of the fact that this at the centre of the world in the 'Ground of Being'. It is the focus of the Buddhist mandalas, the principle of the 'unmanifested' house of Zen. This, again, is the Philosopher's Stone, but the teleology of the centre is immense: men have found nothing else so fascinating. The name it is known by depends on the epoch & the interests of the thinker. For a maximander it is the Unmanifest; for Parmenides it is the unchanging, unmoving, unbroken Uniformity; for Plato it is the Receptacle, the nurse of all becoming; for Aristotle the prime matter; for the alchemists the Philosopher's Stone; for Bruno universal ether which is itself the only soul; for Leibniz naked, gleaming monads; the eternal ether; for Boehme the Ungrund; and the Abyss; for a recent writer "the yawning abyss of non-being in his (man's) own nature." I do not for a moment equate ^{all these} very diverse notions. Yet each is, I think, aimed at the Centre. And each, in so far as it is a description of something, is bound to be wide of the mark.

*Timaeus, §49, 50

*Nicolas Berghauser: The Dialectic of Unity, p. 54.
 "Ken is in the soul," says Eckhart, "something which is above the soul, Divine, simple, a pure nothing; rather nameless than named, rather unknown than known.... Sometimes I have called it a power, sometimes an universal light, & sometimes a Divine spark." Cf. the 'Centre of the soul' of Plotinus

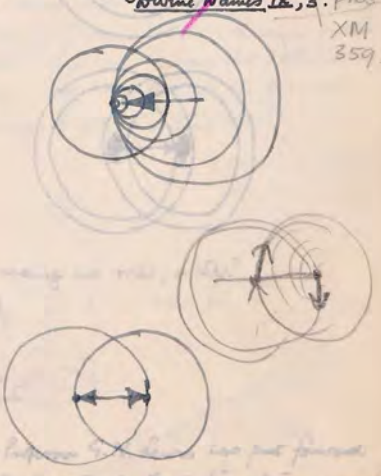
In another of its aspects it is the Atman of the Upanishads, the Synteresis of Alexander of Hales, the Bonaventura, Albertus Magnus, or St Thomas, the 'little light' of Eckhart, the universal spark, the apex of the mind, the divine spark, the apex of the soul, the not-itself.

4. Is action at a distance possible?
 To act on me is (at least at the point of application) to become me. There is no action by mere contact - whatever contact may mean - and a fortiori there is no action at a distance.

But this is flat (C.S. prints out) contradiction, merely, to the conclusions of the first two chapters of this book. Now I record that the secret of interaction is to be careful not to coincide, but to keep one's distance - the more of it the better. If I would benefit by my observer's human actions I must retreat from him till I get to the place where he is human, while by this same act I put myself in a position to act humanly towards him. What is given is the fact of our activity: its quality is what we make it by our range or leverage.



My mechanical advantage increases with the length of my lever, which is a regional instrument. I am of more moment as I recede from the fulcrum of my action - at which spot (the Centre) I am of no effect at all. My moment in Region ① is 1 wd, in Region ② = 2 wd, in Region ③ is 3 wd, & so on indefinitely.



Is ~~not~~ this ^{not} action at a distance, or, more precisely, action by overlapping, when centre does not meet centre, but ^{the} ~~centre~~ ^{of one party} coincides with the circumference of the other?

How to get at ^{a man} ~~another~~ ^{at} ~~by getting~~ away from ^{him} ~~another~~. This may well sound odd: it leaves out half the story. I find that I have already, in the last paragraph, ^{outlined} ~~used~~ ^{key} the words that: towards. I do not act ^{on} ~~on~~ ^{my observer} ~~him~~ & he on me: we behave towards one another; we act in each other's direction. Each of us sets going from his own centre a train of words that ^{works outwards} ~~builds up~~ till it reaches the other's centre, & then is no interaction till both ^{arrive} ~~get home~~. It is as if ^{each of us} ~~we~~ ^{set} ~~lit~~ a ^{train of} ~~pair of~~ ^{words} ~~of~~ ^{destined to} ~~explode~~ a charge in the other's middle & action at a distance is, in fact, delayed action.

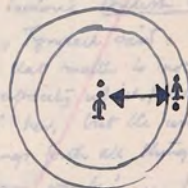
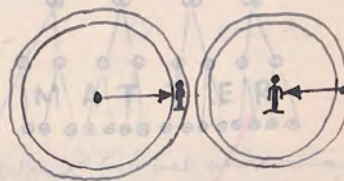
At the risk of ^{further} ~~repetition~~, let me be quite clear about this. I am at my centre, when I find I am nothing, & my observer is at my circumference, when he finds I am a man. So far, all is transparently simple: but it is here the ^{complication} ~~fun~~ starts. We both ^{project} ~~change~~ our minds, ^{neglecting} ~~projecting~~ what we have ^{found} ~~found~~: each of us ^{at} ~~now~~ claims he knows what is in the other's place. My observer says I am a man at my centre, and I say I am nothing at my circumference. ^{These two pairs of} ~~statements are contradictory~~. They are also true. The spot where I am a man is then at the circumference and here at the centre; the spot where I ^{cease to be} ~~am nothing~~ is at anything is here at the centre and there at the circumference. Thus it is just as true to say I am a man here (breaking down to nothing over there, to make way for my observer, as it is to say that I am nothing here (building up to a man when my observer is, in order to over him. In fact, that is how I act ^{act upon him} ~~on him~~ - by establishing out there a centre of my own which coincides with his. And he in turn acts on me by finding through his centre in me. After all, then, what I call action by overlapping is not ^{merely} ~~the~~ action of a centre on a region, or of a region on a centre: it is action between centres. ^{And then is only} ~~that one really one centre~~. ^{first} ~~identification~~ ^{unification}.

But note the consequences. My centre is not here alone, but potentially everywhere. More especially it is in my object; as ^{this} ~~my~~ object's centre is in me. Our interaction is the ^{game} ~~game~~ in which we ^{exchange} ~~exchange~~ centres & their contents. The light that stretches between us, dividing & uniting us, building us to ^{apart} ~~apart~~ ^{aspects of this game} ~~aspects~~ & destroying us again, is, as light, the centre in action.

Logic & Abstract Logic

"Sometimes the intuitive logic that underlies linguistic expression is subtler or simpler than the logic of the schools." (The Jespersen: Logic & Grammar, Society for Pure English, Tract No. XL)

* One instance, ~~amongst the~~ ^{of the astonishing wisdom} ~~of the astonishing wisdom~~ ^{embodied in our language} ~~embodied in our language. Those who adopt a superior attitude to our language, which they regard as an inept medium for serious thinking, should consider whether it is not the philosophy that refuses to be bound into the mould of words as they are, rather than the mould itself, which is at fault. Good workmen sometimes blame their tools - but only when the tools are bad ones. Certainly it ^{is} ~~is~~ ^{unfortunate} ~~unfortunate~~ to stand an instrument that, ^{as it is} ~~as it is~~ ^{used} ~~used~~, can give ^{so} ~~so~~ ^{many} ~~many~~ ^{valuable} ~~valuable~~ hints.~~



* Professor G. N. Lewis has put forward the hypothesis that two atoms connected by a light ray may be looked upon as in contact. The 'interval' is zero in relativity theory, & Professor Lewis suggests that this fact be taken seriously. (See J. W. N. Sullivan: The Basis of Modern Science, p. 201.) The doctrine I am advancing here has something in common with this suggestion.

A Venn diagram consisting of two overlapping circles. The intersection of the two circles is labeled with the word "LIGHT" in capital letters. A double-headed arrow is drawn below the word "LIGHT", spanning the width of the intersection.

A hierarchical tree diagram illustrating the progression from mind to matter. At the top is the word "MIND" with a small figure of a person above it. "MIND" branches into "LIFE". "LIFE" branches into four nodes, which then branch into "MATTER". "MATTER" is at the bottom, branching into many small circles representing individual atoms or particles.

different to moral individuals,

* In his historic British Association
address, Tyndall said: "Bruno....
declares that matter is not 'that mere
empty capacity which philosophers have
presented her, but the universal mother
who brings forth all things as the fruit
of her own womb'..... I discern in that
matter which we... have ~~thus~~ hitherto
covered with opprobrium, the promise &
polarity of all terrestrial life."

J. Carvel
Phil Kelly

O₂ Grden A

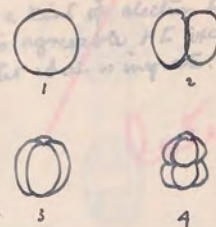
A hand-drawn diagram of a cell, represented as an oval with a thick border. Inside the oval, there are three small, solid black circles arranged horizontally, representing nuclei. To the right of the oval, there is a small, dark, irregular mark.

~~Gut is long & branched~~

* There are many variations & complications which this simple model overlooks. For example, in the atom, the correspondence between the naturalist orbit (with 2, 8, or 18 electrons) and the observer's naturalist field (leading to a jump to a more remote viewpoint) is obvious; the correspondence between various other features of the atom & the model I give here is not at all obvious. So it is at other levels. ~~Only~~ the same principles apply throughout, but only in the broadest fashion.



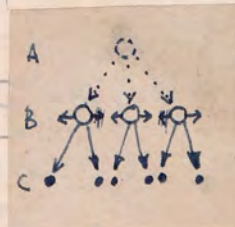
Certainly he can, especially if he is prepared to wait long enough. ^{begin} as a single cell, which ^{grew} ~~started off~~ as an embryo that was for my observer first one cell, then a number of similar cells, these these cells becoming more & more dissimilar. Each, in the general scramble to get a living, ^{was} ~~is~~ obliged to become a specialist in body & manner of life. ~~It is~~ Ruthless competition, ^{mutual} ~~the~~ thwarting, that forces cells to such lengths. Once the cell is forced from these conditions & lives on its own in a ^{laboratory} ~~series~~, it ^{finds to} ~~becomes~~ reverts to the unspecialized state; ^{but} In my body the price of survival is a highly peculiar adaptation to a highly peculiar environment. ^{Such} ~~This~~ adaptation is ^{non-altruistic} ~~concern for the general welfare~~ ^{for itself} ~~concern for the welfare of the others.~~ ^(in disease) ~~And the end~~ ^{it is each for himself, even to the ousting of the others.} ~~of being.~~ ^{of the struggle} ~~of being.~~ ^{of the struggle} ~~of being.~~ ^{of the struggle}



Early stages in the development of the ovum, before differentiation starts. When differentiation is complete there are some 50 kinds of cell, including:-

This horizontal picture is clearly ~~nothing~~ but the first half of the vertical picture over again, in slightly different terms. All ~~four~~ ^{the} stages — ~~proliferation~~ from oneself, ~~multiplication~~, ~~differentiation~~, ~~reproduction~~, ~~and~~ ~~evolution~~ ^{outgrowth}, + the shift to a lower plane, are here repeated. But there is still the second half of the vertical picture, which is precisely the contrary of the first half. Does this also manifest horizontally?

That Contradiction, which is the ~~very~~ essence of the vital process, is latent in its ^{not absent from its cross-sections} cross-sections: a little probing brings it out. My cells are many; they are extremely specialized; they are anything but altruistic. Yet ~~each behaves as if~~ ^{have} they ~~were~~ could hardly do better for me if



(i.e. cell-divis. leads growth of the whole)

And As the organism gets older, perfect (~~cell-dividing~~)
of the new no longer ~~increases~~ exceeds the destruction of the old. Finally it ceases altogether:
the end is ~~the~~ ~~age~~ ~~disorder~~ & death, & descent to a lower level of being.

Spindle projection

They had been a company of saints & martyrs inspired by a single ideal - to offer their lives a continual sacrifice for the sake of the life of the whole. They also seem to have little in common, yet their great differences only reinforce the unity of what they build. If they had been men it would be said of them that they ^{do} not sink their differences so much as dedicate them in self-effacing service, & that what draws them together ^{is} love. * What is such a picture but the second aspect of the vertical process - complete with the ^{lower} stages: differentiation, attraction, loss of differentiation, & merging, ^{as shift to a higher level} described in new terms?

In any case, the consequence is the emergence of the breath of a new order.



* Attraction & repulsion ^{can be observed} ~~belong to~~ all levels. At one level I have insight into what they mean from the inside: love, & hate. "Anger, hatred, fear, ~~repulsion~~ ^{whiteness} terror, attraction, love, terror, ^{say whiteness}, "attraction, love, hunger, eagerness, massive effortment, are feelings & emotions closely entwined with the primitive functioning of 'retreat' from' and of 'expansion towards'."

Symbolism, p53

Bacon (*Natural History*, Century IX) writes "It is certain that all bodies abhor each other, though they have no more, yet they have perception: for when one body is applied to another, there is a kind of election to embrace that which is agreeable, & to exclude or ~~repel~~ ^{reject} that which is inopiate." (S & MW 52)

Later

6. The results of sociability - & unsociability.

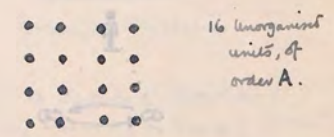
The question is still to answer: how are the qualities of myself & my world built up out of nothingness?

Such a question can only be answered in terms of other equally insoluble mysteries. ^{The most I can attempt is} I can only hope to state it & then significantly, & even this programme will fill the greater part of the book. In this ^{part} of the inquiry I am taking the observer's view of me. ~~that~~ He is limited to ^{nothing} watching from outside the behaviour of ~~various~~ ^{various} units that (overlaid) shrinking, approaching & receding, & executing ^{various} other movements) ^{so that he} to may discover ^{the sort of behaviour that goes with the emotion of various} the connections between this behaviour ^{and} qualities. ~~which~~ ^{accompany} it what this behaviour might mean in the experience of the actor himself (whether man, or cell, or lesser unit) is really ~~not~~ ^{no} business of my observer's, & any interpretation he makes in terms of his own experience is provisional, & ^{inherent} suspect. Not until Part IV, where I went to the view outwards from the units, is the inside story of enmeshment taken up in earnest. Here the outside's account (in so far as he succeeds in ^{bound to be rather} unearthing an outside) is like a deep man's description in visual terms of a ^{play} ~~signifying~~.

Marlow R & M 7

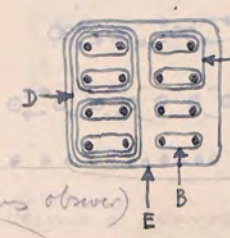
+ Seneca said that he returned from men a diminished man, & Rousseau that the breath of man is deadly to man, & is nevertheless ~~attracted~~ ^{that} the solitary man is a contradiction in terms. Man is men. And as it is at all levels: $\neq$ reality is social.

With these limitations acknowledged, let me ask again: what is the secret of enmeshment?



16 inorganic units, of order A.

It is sociability. And sociability entails ~~first the coming together of units~~ ^{of diverse} the performance ~~by these units of different functions~~ ^{involving their differentiation in structure as well as behaviour} ~~that~~ the knitting together of these functions, ^{unit of a} & the emergence of a ^{new} order with new characteristics. Sociability is, in fact, a ^{notion} ~~action~~ of the vertical process ^{that} ~~recorded~~ ^{by} my receding observer. The many ^{that} become the one; the separate ^{that} merge; differences



The same, organized into four orders: B, C, D, E.

Another name for this ascending process is sociability: ^{but} when similar ~~units~~ ^{differentiated} units ~~are~~ ^{drawn} drawn together, or ~~units~~ ^a ~~units~~ ^{social} - emerges. Then sociability is creative of ~~the~~

& another name for the descending process (unwished by the approaching observer) is unsociability.

that, interlocking, make agreement all the firmer: — these make a true society and are the condition of true individuality. "Fellowship is ~~life~~ life, & lack of fellowship is death." + William Morris: The Dream of John Ball. Ch. 4.

Let me run over a few examples. The disembodied electrical charges, or local warpings of space-time, or centres of world-wide electro-magnetic fields (whichever description is preferred) of which I am composed do not behave as if each were the only one existing: fortunately for me they have to do with one another. There is 'attraction' between electrons & protons, 'repulsion' between electrons, & this tendency finds scope in societies of between two & several such electron & proton members. Each type of society has its regular & rhythmic rules for members, its dance-patterns ~~to be~~ ^{which} follow, to an observer who does not ~~cannot~~ ^{fails to} follow the swift motions of individuals, are the structure of the society itself. Now the point to note is that this new society, which is an atom, behaves as a whole quite differently from its members as individuals. For example, under suitable conditions, it acts as if it were a solid particle; it has a tendency to link up with ^{the} atoms of ~~certain~~ ^{specific} types; it absorbs & emits radiation in packets or quanta, & so forth. It is something new in the world.

My atoms, in turn, are sociable. They get together in communities ^{hundreds or even thousands strong}, sometimes only two. But the molecule's behaviour is ~~entirely~~ ^{entirely} of a new order. Thus when two hydrogen atoms enter into intimate ^{intimate} ~~intimate~~ ^{relationships} (of a sort quite unlike the ~~relationships~~ ^{relationships} of electrons & protons) with one oxygen atom, the three are one molecule of water, & water conducts itself quite differently from the gas hydrogen, & from the gas oxygen, & from a mere mixture of these two. Somehow water has arrived out of non-water, & somehow the new arrival comes of the fact that certain atoms are busy weaving networks of social relationships. The same tale is repeated at my molecule level (atoms ^{show} themselves capable of chemical behaviour unknown at the atom level), at my cell level (where molecules that are 'dead' as individuals are, as giant communities, 'alive') & finally at my human level (where extremely primitive animals succeed in passing themselves off as a man, thanks to their wonderful social organisation).

Two short, I owe all I am & do to this universal sensitivity which unites shows towards these fellow-units. I am a pyramidal social enterprise. My existence is poised on an inconceivable number of knife-edges of ^{social} conduct. An outbreak of individualism at any level would

Society is a project — reflect mesh — with 2 tendencies —

Propulsive: reflective activity is always tending ① to draw in its object (= sociability) = anabasis

② to repel its object (= unsociability) = katabasis = distinct to grow & assert itself

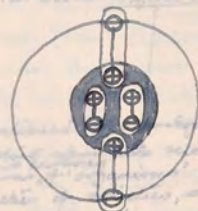


Diagram (purely schematic) to illustrate some of the 'social' relationships between protons & electrons in the Helium atom.

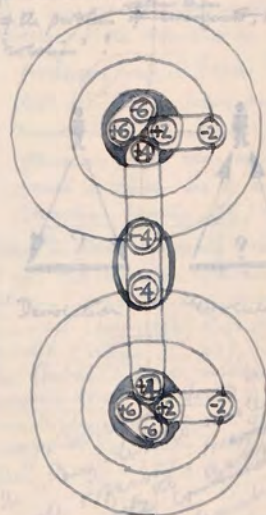
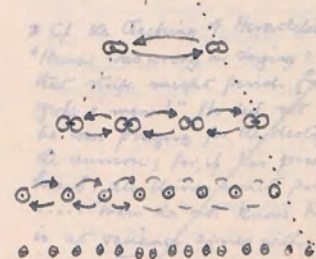
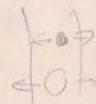


Diagram to suggest a possible pattern of 'social' relationships when two carbon atoms form a carbon molecule.



mean my instant dissolution. How is it that - at least till I die - this does not happen?

This much is certain; what sociability ~~appears~~ ^{appears} maintains, ~~friction~~ ^{friction} ~~unsociality~~ ^{unsociality}, ~~as well as~~ ^{continually} ~~the two are inseparable.~~ New structures are ^{continually} produced by the building up of new material; new material is ^{continually} produced by the demolition of old structures. My elections, ~~as much as~~ ^{as} my manhood lying in ruins, ~~as my manhood~~ ^{as} is the function & apotheosis of my elections, ~~and all levels must be achieved~~ ^{and all levels must be achieved} ~~the white~~; nothing is done once & for all. The individualism in me kills me; the sociability nourishes me; & to live is both. I live, that is to say, by the ~~my dying~~ ^{my dying} death-clearing failure of my parts to reconcile their differences, ~~as well as~~ ^{as well as} ~~no less than~~ ^{no less than} ~~I am~~ ^{I am} by new life. ~~promotes~~ ^{promotes} ~~necessitates~~ ^{necessitates} in social organization. ~~It~~ ^{It} is as necessary to my manhood that it should continually ~~destroy itself~~ ^{destroy itself} (by a sort of progressive outbreak of anti-social behaviours incited from the lip) so that it should ^{continually} ~~rise~~ ^{rise} from the dead (by a spreading of sociability from the base).

that the hierarchy is a social one, ^{maintained & enforced} that its qualities ~~are~~ are relationships at various levels, & that when these social relationships give the qualities various.

- James Ward : The Realm of Ends.
- Lloyd Morgan : Emergent evolution.
- J. C. Smuts : Holism
- C. D. Broad : The Mind & its Place in Nature

* Whitehead, who is equally naïve
insists upon the idea of the world
in terms of 'organisms' which are
societies of societies, of events,
divine and colours, sounds, scents,
he emerges from nature. Following
Plato, he calls these 'eternal objects',
which are required for nature but
do not belong to an ideal or permanent
realm. See Science & the Modern World
p 19 ff. Again, as is all things
fundamental, is not this a statement
of the problem of emergence, & not its
'solution'?



'Devolution'

Evolution



Evolution - Devolution

* Cf. the Teachings of Heraclitus:

"Homer was wrong in saying: 'Would that strife might perish from among gods & men!' He did not see that he was praying for the destruction of the universe; for, if his prayers were heard, all things would pass away."
..... Men do not know how what is at variance agrees with itself. It is an attainment of opposite tensions, like that of the bow - the lyre."
Burnet: Early Greek Philosophy, p. 136.

7. The members of the societies

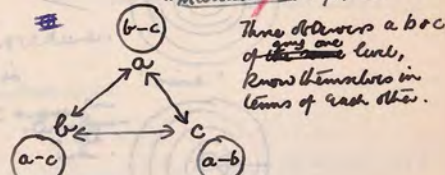
But what (common sense wants to know) are these alchemies, atoms, & molecules, in reality? In the previous chapter I spoke of the alchemies as the 'observers' of the proton, & in this chapter of the 'social' relationships between such units. I am not guilty here of ^{visions} anthropomorphism? Have I any better name for attributing lifelike & mindlike characteristics to atoms than a savage has for attributing the same characteristics to rocks & rivers & trees? Is Lotze just romancing when he says that behind the tranquil surface of matter, behind its rigid & regular habits of behaviour, we are forced to see the glow of a hidden spiritual activity? ^{the Schopenhauer, who goes on to say that the only real causes are the activities of spirits, - but talk nonsense!} When he says that what the scientist ~~would~~ call force is really will, & that we start with what is reasonably certain - my own experience of what it is like to be me. As man, I notice some of the peculiarities of this place - those which have human interest, which are important for me as man. But I realize them as having pattern, continuity, emotional tone, ^{the truth is:} The pattern develops, & in this I seem to play an important part. ^{the fact is:} I know myself in terms of this developing pattern: apart from it I am nothing. The ordering in ~~way of~~ ordinary language, I am aware of the situation, & I react to it in accordance with my purposes. All this happens at the human level. But I am not only human. The question is: what happens at other levels of myself? I am an immense hierarchy of individuals, all behaving with due respect to their particular circumstances, & if they failed in this I would vanish. How, at these lower levels, do I react appropriately? For example, how do I as a molecule take account of the position & mass of all the other molecules, & adjust my behaviour perfectly to them all? Science assures me (in her own phraseology, of course) that this is what I actually do at molecule level, but adds that it is her business to record the performance, not to explain how it is done.

How is it done? As a man, I lay hold of what is here where I am, & not what is somewhere else; & as a molecule I am not likely to improve on this arrangement. I can only suppose the molecule somehow latches in the situation when it is, so far as the situation is 'molecular', holding its various aspects together in a unity, & ^{because} the molecule behaves in a manner befitting to the situation ^{as for the situation} has become a part of the molecule's existence. So also with all my subsidiary units: Each is constantly taking on certain characteristics of the place where it happens to be, & is behaving in accordance with its own nature as thus modified. The characteristics it takes on are those which apply to it - those which belong to its own level. The rest it leaves aside.

If this seems doubtful, consider the alternative. It is that by some miracle an atom in any body 'knows' what is going on all over the world, in all its immeasurably complex atomic detail. How it gets this information, far exceeding

13 - "what is nothing for itself, is truly nothing at all," says Ward. "Nature thus resolves into a plurality of co-active individuals; & the range & complexity of the correspondence between a given individual & its environment marks the stage to which it has advanced in its interaction with the rest." * *Reason & Indo*, p. 21

* The panpsychism sketched in this Section derives from the long succession of pluralist philosophers - Leibniz, Fichet, Paulsen, H.K. Ward, & in our own day, A.C. Richardson. Ward's *Realism & Ethics* is the book to which I owe most here, though I cannot follow him in many points of detail. See also Plato's *Parmenides*, 132 E-F, in which he discusses the dilemma: either 'all things think', or 'they are thoughts which exist without being in any mind which thinks them.' * *Microcosm*, i, p. 408.



These observers a box of ^{one} level, know themselves in terms of each other.

* It is love & hate. Empedocles taught, which sets the elements in motion.

* Francis Bacon believed that all bodies have perception, & 'even more a perception precedeth operation'; for else all bodies would be alike one to another. (*Natural History*, II) For

him 'the total depravity of inanimate things' (to use Gail Hamilton's phrase) was a fiction. Spinoza believed all individual things to be animate (animate) though in various grades. (*Ethics*, II, III, §. See also III, §. 41) And Leibniz, of course, makes the universe animate down to the least of monads.

How Hobbes was obliged to admit there was something in Bacon's view. (*Element. Phil.* IV, 25.)

Whitehead's term is *prehension*. Things are 'grasped into a rational unity, here & now', but 'the things so gathered into the grasped unity have essential reference to other places & other times.' (*Science & the Modern World*, p. 87.)

"The connectedness of things is nothing else than the togetherness of things in occasions of experience. Of course, such occasions are only rarely occasions of human experience."

Adventures of Ideas, p. 204 (Religion edition).

* Prehension is all-important, for me, to the *me qua non* of every level.

"As the outcome of a prodigiously long evolutionary process," says Lloyd Morgan, "responsive behaviour is directed towards the source of physical effluence." (*Contemporary British Philosophy*, 5th series [Ed. Huxford] p. 285.)

Would add that, while the evolutionary process goes on to higher & fuller prehensions, prehension of one kind must be there from the start.

These three are the same as the three in the previous diagram. The only difference is that the three are now connected by arrows, indicating a flow of information. The arrows point from the three nodes to the central node, which is labeled 'W'.

Fennel ~~Basil~~ Basil
that all contain large quantities,
and are a powerful preservative
of the oil from oxidation.
It is also a good preservative.

1. The first of these is the fact that the
 2. second is the fact that the
 3. third is the fact that the
 4. fourth is the fact that the
 5. fifth is the fact that the
 6. sixth is the fact that the
 7. seventh is the fact that the
 8. eighth is the fact that the
 9. ninth is the fact that the
 10. tenth is the fact that the

The following is a list of the
 names of the persons who
 were present at the meeting
 held at the residence of
 the undersigned on the
 1st day of March, 1881.
 (The names of the persons
 who were present at the
 meeting held at the residence
 of the undersigned on the
 1st day of March, 1881, are
 given in the following list.)

[illegible][illegible][illegible]

+ It is believed in Tibet that if one stops all mental activity, one becomes invulnerable to others. (See Davis-Neel, op. cit. p. 274)

Whether the facts, the existence of the theory shows a wellspring of ancient recognition of the doctrine that projection & reflection are correlative

[illegible]

If there were thoughtful, considerate individuals, who are willing to give up their "small" part for the good of the whole, we all see how it could be done. I am sure you will find many people who are willing to do so.

[illegible]

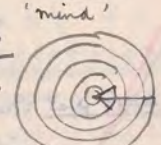
in range & in accuracy the information available to science, is quite max. pleasurable. Does the atom send out innumerable scouts to all other atoms, receive their reports, & use them as a basis for its plan of action? No, the idea is absurd. At atom-level I function as I do at man-level, by talking to myself what is best when I am. For me & for James Ward, the physicist's atoms are "the outside appearance of so many active beings, each of which is something for itself." X. Aub. after all, the mysterious view, the view which at first so descriptively transparent, is really opaque to the understanding (not to say actually meaningless), the view on which the binding of prot. nets, is not panpsychism but its materialist opponent. Matter or energy apart from all mind — that is the valid hypothesis, that is the fantastic speculation, that is the costume, the occult, the monstrosity. But at man-level (common sense points out) I am conscious of what I am; at the lower levels I am unconscious of what I am. Between these two conditions is a world of difference. But these primordial units, C.S. molecules, are incapable of consciousness.

This is not the place for a discussion of 'emissionism', whatever that may be. Here I will only briefly state the doctrine of this book, & leave detailed arguments for later chapters. At the human level I am a view outwards (I call this my procedure). By far the safest hypothesis is mind) & a view inwards (I call this my body). I do not see how any other way to take this fact seriously, & argue from it to the unknown. The only alternative is to argue from the fact of a self can exist unless it is of a certain direct nature. X. Doubtless, at the lower levels, the view outwards is very limited & abstract — but that is only to be expected when the view inwards is equally impoverished. It is idle to expect of atoms any great hold upon reality. But some hold it must have. For the atom to exist at all is for it to embrace just so much of the world as

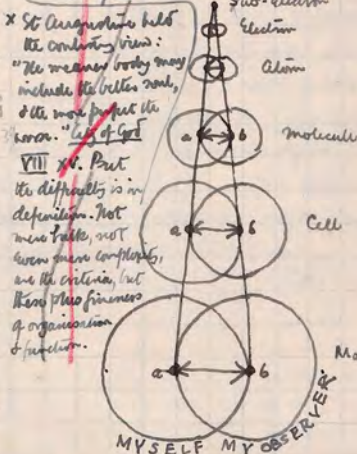
when my outlook is atomic I am an atom — ; when my outlook is human I am a man — my I have no outlook at all I am nothing, the to, then, is that an atom, is an atom because it who, because it is so much less aware than a at atom level than at the human level, because exist is to be aware of some of the characteristics of the other 'heres'. When I am utterly unaware of what to the 'heres' of my observers, who cease to observe the lowest

level up to man-level, my story is one of increasing appreciation of the situation, with increasing contribution to the situation. But the situation in all its levels is essentially me & the same, & it is grasped in essentially the same fashion. As Royce Morgan expressed it, "there are no physical systems, & integral entities, that are not also psychological systems; & no psychological systems that are not also physical systems. All systems of events are in their degree physico-psychical." Emergent Evolution, p. 26. For the time being, my answer to common sense's charge of anthropomorphism is that since the units under discussion are mine, or fully represented in me, anthropomorphism of some kind is fully justified. I regard my subsidiary units as a lower power (so to speak) of myself, as myself not yet at my best. More generally, I say that an existent thing is in principle like myself, if only because it is continuous with me, & in the end, is me. The alternatives to these views are wild guesswork about things whose natures are alien to mine, or utter scepticism.

In this book I reject the notion of entirely 'unconscious mind', which seems to me (as to many others) to be a contradiction in terms. I follow Leibniz, Clifford (Lectures & Essays, II, pp 61 ff) & Ward, in believing that there is no absolute unconsciousness. (and backed up by H. P. Muller) X. Reason of Ends, p. 64. Ward (who like Clifford linked his ultimate physical units (atoms) with ultimate psychological fact (will) calling the result the 'will-atom' — the essential unit of existence. (Kilpe 129)



Goethe says: "Man is properly the only object that interests man." & Pope: "the proper state of mankind is man." As I would put it, a man is (i) a view out upon men, & (ii) a view in upon a man.



the view out = $a \rightarrow b$
the view in = $a \leftarrow b$
My 'here' = a
My observer's here = b
Like Bradley, Ward insisted that the basis of conscious life are no being or fact, outside psychological existence. 'Actualities' are... entirely experiences: no factors as never abstract possibilities. They are living agents; & the result of these interactions is a personal epigenesis, the only creation that precludes recognition. Ward: The Reason of Ends, p. 108.

In making reality experiences La Perle (1903), p. 500 Charles Renouvier (La Nouvelle Moradologie (1901) Daloz insisted that the germs of conscious life are present from the beginning, & unfold as circumstances allow. Renouvier is one of the many modern philosophers who maintain that causation is only applicable as analogous to our own volition. (like Spinoza) Nature of the Physical World, p. 259 ff

TP To reject this view is to assert a fundamental discontinuity in nature: at some point, impossible to pin down, in the evolution of 'matter', 'mind' puts in its unheralded, & appearance of it is not unheralded, because, intellectual appearance. The unknown produces from its womb this known child, so utterly unlike its parent, & this in spite of any sensible gulf between 'mind' & 'matter', & 'matter' & 'mind'. It is this is not supernatural, what is it? As Redington, along with many other men of science, & I have to make clear, science tells us nothing about the atomic intimate nature, & it is ridiculous to assert that the atom is non-material, then wonder how systems of atoms can possibly affect the thought that systems of atoms produce by systems of atoms comes from.

- Adventures of Ideas, p. 202.
- "It is a mistake to think that, in bodies that are actually living, a coordination has been achieved that raises into prominence more functions inherent in the actual organism." (p. 200) Ward
- (Realms of Ends, p. 146) "Decomposable evolution is creative leaps, at first interacting casually, coming to have common ends."

7. Propaganda Logic To the hierarchy of levels. The properties of a thing are to the being as the properties of another thing are to the being, & analogously, rightly used, is an important instrument of knowledge. See Gilson: God & Philosophy, & Dorothy Emmet: The Nature of Metaphysical Thinking, p. 176.

- Brentano: Early Greek Philosophy, p. 48.

* This is the doctrine, sometimes called Spiritual Pluralism, taught by Fechner, James Ward, Whithead, & many others, from varying points of view. What ^{of these} doctrines have in common is ^{the point} that men-in-society quibble due to all grades of being.

is the one we know. It is the one which
social experience.... History the social
"worlds" various. (1) "The consciousness
of the consciousness of the social law in the spiritual world, p. 64.
(2) "The first thought" says Peckham, "leads away from all experience, and from everything which is conceivable in terms of experience; hence it leads us into the dark, because the notion of the 'thing-in-itself' behind experience.... has in fact no basis in experience.... The second thought leads out of the light of common experience only into higher light, inasmuch as our ^{own} consciousness.... furnishes us with a clue to the more universal, broader, higher & more luminous consciousness, & supplies us with the means for inferring it."

W. Macneile Dixon: The Human Situation ^{P. 157}
A modern version of panpsychism is
proposed in this book with a
prop literary & rare in philosophy.
see pp. 354 ff. particularly.

* This point is argued by M. H. Dallen in his Basics of Modern Science, (P) pp 210 ff.

Leans MV 38.

After all, it is not as if we understood 'mechanism' or 'matter' as found almost regularly of behaviour in the smallest constituents of nature. On the contrary, Heisenberg seems to show that ~~precision~~ absolute precision does not belong even in the innermost workings of the atom. ~~at the lowest levels of~~ what looks like iron necessity or rigid uniformity of natural law may well be no more than a statistical effect, the winning out of ~~one~~ large individual differing by the simple accident of ~~one~~ taking the average or total performance of very large numbers. At any rate the old notion of ~~complicated~~ ~~non-law~~ ~~forming~~ ~~mechanism~~ to fall or cohere or freeze, is now ~~altogether~~ ~~dismissed~~ ~~in~~ ~~more~~ ~~many~~ ~~in~~ ~~the~~ ~~microscopic~~ which occurs between them.

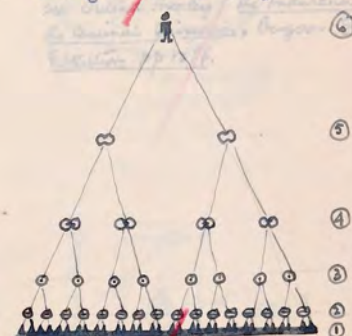
permitted to write, for occasion, & Alexander's print-instants.^o

I am a pyramid, broad-based upon nothing that grows more solid & lively and interesting towards the apex; & preserves itself in this condition by constantly distinguishing itself from the apex downwards & rebuilding itself from the base upwards.

I do not mean that these
 conceptions for which may be added
 the gods, deities, & apex of Amazons
Thales, & Aristotle (respectively) are
 equivalent: rather I mean that they are
 different ways of apprehending the same
 reality.

(except where the context implies to the contrary)

+ By 'election' I mean election & position, & any other similar particles (such as positions, means, & neutrons), which physicists look upon, & negative to look upon, as elementary.

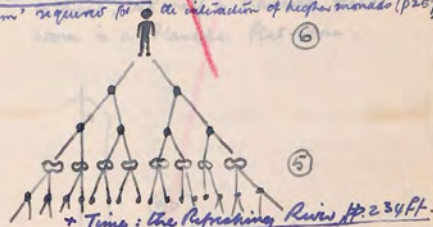


X Giuseppe Caponbacci, in Browning's poem, sees
 Guido sink to: the doleful end,
 At the horizontal line, creation's verge,
 From what just is to absolute nothingness.

Eng. Lit. 216.



basis of * See Ward: Reason of Ends, p. 254 ff., on "natural
memoria", which he regards as marking the bottom limit
of both material & materialish character. "The physical concept of such a limit
is the dynamical concept of a mass-point and a center of force." The corresponding
psychological concept answers to what Leibniz happily described as memoria
memoranda see causae recollection." Ward considers that five memoria
give the "uniform medium" required for the utilization of higher memoria (p. 25)



* These 'large molecules' presents a number of difficulties. For instance, silicon atoms link themselves in a regular network in which each atom shares ^{each of} its four outer electrons with a neighbour, so forming a crystal; however many millions of ~~of~~ ~~atoms~~ of atoms this crystal contains, it is in effect one molecule. Again, it is arbitrary whether the ~~larger~~ ~~less stable~~ such aggregates ~~of~~ ~~molecules~~ as proteins, which whose molecules lack true atomic union, ~~should~~ be called super-molecules, or particles. Many - if not most - of the levels of the hierarchy, including those above the level of man, present difficulties of one sort or another. In the present state of knowledge I do not think ~~any~~ a perfect scheme is possible.

The next noteworthy feature of the pyramid is that it has an ^{infinite} uniform indefinite number of sub-levels, ^(or 'mesoforms', to use Needham's term⁺) ~~to~~ not clearly defined, within the main ~~levels~~ ^{storeys}. Such as the organs & tissues that lie between my cell-~~level~~ ^{level} & my ~~members~~ ^{work}, & the chromosomes, genes, & colloidal particles that lie between them ~~that are the hereditary within the cell~~ ^{that are the hereditary & make things move}. These my molecule* ~~work~~ ^{work} & my cell level. ~~Each~~ ^{Each} pounds-individuals are like committees & sub-committees formed within a club: they are essential to the running of the whole, but they do ~~not~~ ^{lack} enjoy the autonomy & distinctness that the club enjoys at its level, or the club-members enjoys at his level.

But finally, I must not allow myself to be taken in by ^{the details of a hierarchy} ~~a scheme~~ that is ^{no doubt} ~~perhaps~~ arbitrary & certainly provisional. What constitutes a distinct individual ^{or 'moral', or a clearly-defined} ~~is~~ stage of development, is a matter of opinion, & advances in science are bound to put any ^{scheme} ~~such scheme~~ out of date. The general pattern alone will remain, & it is only the general pattern that is important. The temporary - or contemporary - details, with their admixtures of myth, &

"If we look carefully," Needham writes, "at the steps between the successive levels of organization we find that the sharp lines of distinction are only made all the more sharp by the "mesofoms" which occur between them."

prefecture, & the provincialism of a particular age, are ^{embodied} here because it is in these terms that I must think if I am to think at all. They are scaffolding, ^{without which} no structure of more than one story can be built. ~~without it.~~

nevertheless

Some sort of working guide I must have, ^{however} as to what constitutes a true ^{single} or individual. Strictly speaking there is no such thing on earth. A true or perfect individual is one whose inner conflicts are all resolved, who is independent of surroundings, ^{delimited from within}, beyond the reach of accident, clearly defined, sufficient unto himself. The degree to which a thing ^{has} these characteristics is the measure of its individuality. Clearly I fall far short of the ideal; so does a cell, or a molecule, or an atom. On the other hand, ^{compared with} my pen, my ^{cloud}, & the cloud I can see over there, ^{out of my mind}, these individualities ^{comes nearer than the others to} is of a very high order. The cloud ^{approaches} the condition of a mass aggregate: half of it is just as cloud-like, its boundaries are vague, its shape at the mercy of every ^{out of} wind, its parts ^{are} a rabble. Nevertheless even the cloud is not entirely without individuality: the fact that I can pick it out & name it shows as much. To be at all is to be in some degree an individual. As Locke pointed out, the principium individuationis is existence itself. At the other extreme there is, ^{in the} ~~the~~ man I would like to be, a man truly original, pursuing one ^{intently} aim under all circumstances, imperturbable, the same in success & defeat, self-sufficient, not divided against himself - yet even this paragon would be far from attaining true individuality. He ^{would still be} utterly dependent on his environment, subject to a million accidents, constantly obliged to ^{change along with} circumstances, ^{in big things} practically powerless. It there are degrees of being, so that it can be said that one who ~~absolutely~~ lacks individuality that he is not, & of one who absolutely has individuality that he is, then I lie midway. "Man partly is," said Thompson, "and wholly hopes to be."

Is the individuality of one of my units, then, simply a question of how high its place is in the pyramidal scheme? Obviously not. My heart has a status above its atoms, yet in important respects it is less truly an individual. The nucleus of a cell in my heart stands higher in the scale of wholes & parts than a molecule in that nucleus, but it stands lower in the scale of individuality. Clearly there are two criteria of here, & they do not run parallel.

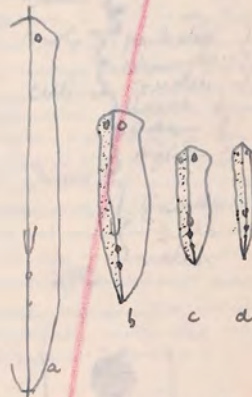
The pyramid is not therefore a confused & useless conception: its architecture is only more intricate than I had bargained for. The fact is that, while there is from the base to the apex a general ^{advance} increase in individuality as

while there is from base to apex a general advance in individuality (particularly in its aspects of self-determination & independence)

various
+ For the biological aspect of the question see Julian Huxley: The Individual in the Animal Kingdom, Penguin: Science Education pp 13 ff.

* The literature is immense, but one of the most interesting discussions of the relation of the part to the whole is Woodger's in Proceedings of the Aristotelian Society, 1932, 1933, 1934. See also L.T. Hobhouse: Mind in Evolution p 413 ff.

o Half a stone is a little stone; half a man is only a corpse - that is the price he pays for individuality. But individuality is not simply proportional. Half a chair is not a chair, but half a Planaria flat-worm is a Planaria flat-worm.



Planaria lugubris (a) cut in half, regenerates itself out of its own body, ^{each} half the material, till the other half is made up (d).

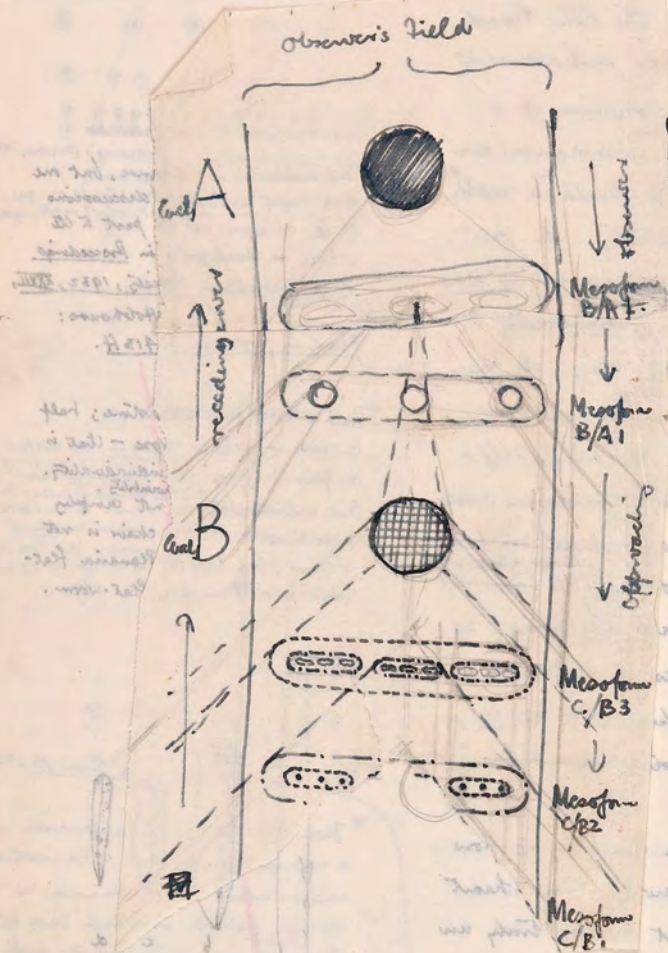
4
CELL

5
CHINE

...the ... of the ...
... the ... of the ...
... the ... of the ...

...the ... of the ...
... the ... of the ...
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...the ... of the ...
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...the ... of the ...
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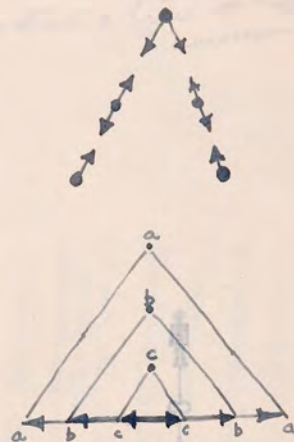
...the ... of the ...
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... the ... of the ...

C

What is the pyramid which is the ~~subject~~ topic of this chapter? (as Rilke says)
 It is, almost literally, a castle in the air. At the base is the ~~sub-structure~~ ^{sub-structure} of sub-structure; at the apex my observer; between ~~the~~ ^{the} base & apex, the space that "prado transports" ~~transports~~ ^{transports} from us to the top. My observer moves up & down, & as he does so the pyramid grows & dwindles.

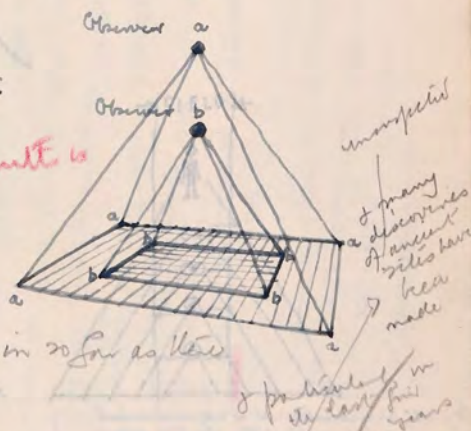
is inactive, every downward effect destructive. Then are two exceptions: the base & the apex. The man can only destroy, the sub-structure can only build: that is to say I exist as a man by self-annihilation, as sub-structure by self-creation, as intermediate steps by both the traffic between these two. More accurately, the base is the only level of true creation; all others, by ~~raising an apex~~ ^{raising an apex} ~~establishing spaces~~ ^{establishing spaces} that subdivide & takes in more & more of the base, realise progressively what is created there, or, by sinking, realise less & less. They originate nothing, destroy nothing, own nothing, & all they seem to have is borrowed.



He can pick his observation post, but not the view he gets from it.

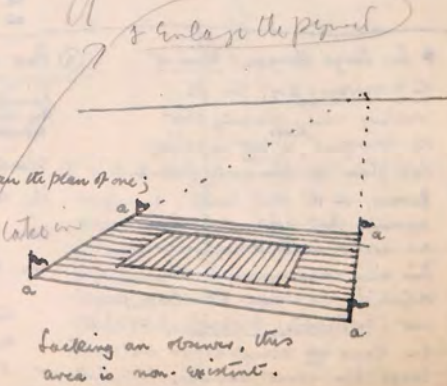
My observer's field of view is constant. There are upper & lower limits to what it can hold. ~~Now this is~~ ^{Now this is} ~~accidental or contingent limitation~~ ^{accidental or contingent limitation} ~~that it is part of my nature, & of his~~ ^{that it is part of my nature, & of his} ~~not the pre-condition of the whole pyramid~~ ^{not the pre-condition of the whole pyramid}. I am a man because ~~the~~ ^{the} ~~area of the base is~~ ^{area of the base is} ~~at the apex~~ ^{at the apex} ~~a man~~ ^{a man}; I am a cell because ~~the~~ ^{the} ~~area of the base is~~ ^{area of the base is} ~~at the apex~~ ^{at the apex} ~~a cell~~ ^{a cell}. When the observer is at the base I am a sub-structure, because that is all his field will accommodate. ~~I am not~~ ^{I am not} because he is no longer in a position to take any of me in.

Thus having built the pyramid, I ~~now~~ ^{now} ~~raise it to the ground~~ ^{raise it to the ground}. ~~The truth is~~ ^{The truth is} ~~fact it has never been more than the plan of the structure set out~~ ^{fact it has never been more than the plan of the structure set out} in all its details, rather as buildings are set out with pegs & string before the work starts. ~~How, then, can it talk of the pyramid~~ ^{How, then, can it talk of the pyramid} ~~or of higher levels~~ ^{or of higher levels}. If the higher levels exist they are my observer, not mine; & if they are so low as these is in any case a pyramid, it is one which he marks out in space by his movements away from the base when I really am. Everything happens as if my observer were an archaeologist & I were the confused ~~masses~~ ^{masses} of some long-forgotten ~~structure~~ ^{structure}. On the ground there is not the slightest trace of anything ~~of interest~~ ^{of interest}, but when the archaeologist takes photographs from a ~~height~~ ^{height} the plan is quite clear. ~~He does not therefore imagine~~ ^{He does not therefore imagine} that he has rebuilt the ~~structure~~ ^{structure} & is himself the pinnacle of it. So it is with my observer. He ascends, as the apex of an ever-growing pyramid. But it is a pyramid of ~~space~~ ^{space}; he has no notion he is climbing nothing ~~anything~~ ^{anything} more substantial than ~~space~~ ^{space}. However high he rises, I, who am the reality he is concerned with, am never raised an inch above ground level.



• The value of air photographs in archaeology was shown by O.G.S. Crawford in *Air Survey & Archaeology* some 20 years ago: ~~more recently~~ ^{more recently} ~~the~~ ^{the} ~~air surveys have been found of immense value in town-planning, map-making, agriculture, geological prospecting, buffer-control, & so forth.~~ ^{air surveys have been found of immense value in town-planning, map-making, agriculture, geological prospecting, buffer-control, & so forth.} See Frank Scarlett's article in *Journal of Royal Institute of British Architects*, June, 1946. The fact is ~~incontestable~~ ^{incontestable} that here to show how aviation has put men in the position of his own ascending & descending observers, with practical, ~~months that are as yet~~ ^{months that are as yet} ~~hardly recognized~~ ^{hardly recognized} ~~intellectual~~ ^{intellectual} ~~planned~~ ^{planned} ~~emphatic~~ ^{emphatic} results that may well be of the greatest importance.

Yet what is the pyramid's ground plan without one who can take it in; what is taking it in but ~~being~~ ^{being} ~~in the right~~ ^{in the right} ~~position to take it in~~ ^{position to take it in}; what is being in such a position but ~~the fulfilment of the plan~~ ^{the fulfilment of the plan}? Thus it is not a matter of indifference to me whether I am observed or not: no apex; no pyramid. ~~The effect I have on space is that~~ ^{The effect I have on space is that} ~~he cannot take in more than a given amount~~ ^{he cannot take in more than a given amount} ~~without passing to the next level~~ ^{without passing to the next level} ~~or less than another given amount without passing to a lower level~~ ^{or less than another given amount without passing to a lower level} ~~to pass~~ ^{to pass} ~~pyramid~~ ^{pyramid}.



more than

And, then is a broadly observer from whom
I can borrow buoyancy from an observer, I am, entirely earth-bound, & without a trace of self-
consciousness.

He brings out what I am. He is more than necessary to me: he is a good half of what I am. For
if I am to achieve any status higher than sub-electrons it is in his eyes
that I must do so. Emergence, in other words, ^{there is more in emergence} ~~is more than the coming together & oneing~~
of diverse units: is necessary: there must be an observer of roughly equal status for whom that being
is a reality. ©

At long last

10. The superimposed pyramids.

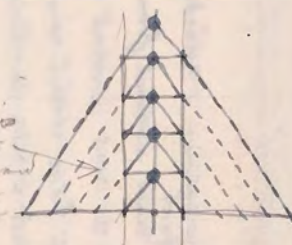
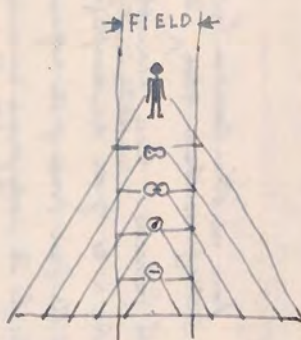
If what I have written in this chapter is moderately true, a startling
(I think, important) fact emerges. ^{the} ~~It is this:~~ ^{It is this:} there is only one of me
— one sub-electron, one electron, one atom, one molecule, one cell, one man
— at each level. ^{then is no difference} ~~their fabulous numbers are fabulous literally as well~~
~~as figuratively.~~ For common sense this is sheer nonsense. So it with
reason: the argument I now put forward ~~is directed towards & proceeds~~
from another side of human nature, which has learned that every piece of
common sense needs its piece of 'nonsense'. An uncontradicted truth is at
best a half-truth.

My observer is attending to a number of units. He is not satisfied,
there & more similar units are drawn into his field. But this cannot go
on: ^{the strain is too great;} there comes a moment when the many are one. Of course this
is, between levels, a number multiplies; & the interval between the real-
isation of the new unit & the realisation of several new units may be infinite-
simal. But, at the very most, I am a few hundreds of cells, molecules,
& so on; & from certain points of view I am only one of each. Certainly
it is meaningless to describe me as twenty billion ~~of the~~ cells & I know
not how many quadrillions of molecules. In other words I am really more
like a sky-scraper than a pyramid — or rather like a tower, whose base is
my observer's field, & whose storeys are little pyramids.

Common sense repeats that this is absurd, & that I am failing to
distinguish my observer's infirmities from his abilities. What is more,
I am applying his visual limitations to levels at which vision is impossible.

To this I ^{say} reply that I rely on the observer at my apex, & if he is
wrong in such a crucial matter as my numbers, I may as well resign
myself to a solitary existence at ground level. I prefer to believe that
what he registers is truly myself, & to common sense's second objection I
say that my observer's incapacity is not of vision alone: he cannot imagine
the number of cells I am alleged to contain — let alone the number of electrons.
Nor can he figure to himself a ten-thousandth of an inch — let alone a thousand-
millionth.

In the representation of size, says Amiel, 'the mind is merely the dupes of itself'.
Journal, 1st February 1876.



The electron microscope can
magnify ^{up to 50,000 times} ~~30,000 times~~ & reveal some of the
largest molecules. That is the present
limit.

knows,
© J.B.S. Haldane (Possible Worlds, p. 6.)
makes the point that the scientist,
most believe in the huge figures.
to use because his calculations are
successful the answers to his
calculations are successful in practice,
must believe in the unimaginable
numbers by means of which the right
answers were arrived at. ~~They have~~
~~number & level cannot be derived.~~

x As Whitehead truly says, "perpetrator
is the dead abstraction of men fast from
the living importance of things felt."
Modes of Thought, p. 55.

Schultz 5-69

In Adventures of Ideas Ch XII, § VIII, Whitehead discusses the traditional philosophy of overlooking the main characteristic of 'sensa' - their "enormous emotional importance. The vicious notion has been introduced of mere reception of entertainment, which for no obvious reason by reflection acquires an aesthetic tone. The very opposite is the true explanation."

In this chapter



Small analysis of the
hypothetical basis

~~Definition~~

Rate of change,
like numbers
& exponents, are
roughly constant
at all levels

whether ~~he~~ ^{he} ~~is~~ ^{is} ~~conscious~~ ^{conscious} of the ~~uncommon~~ ^{uncommon} ~~down~~ ^{down} ~~of~~ ^{of} ~~no~~ ^{no} ~~leaving~~ ^{leaving} ~~anyway~~ ^{anyway}.

* *Leichen*
I do not
mean
nihil rot in
intellectu quod
in moria non
erat.
- There is
more in the
Tafel mabel
than ~~the~~
ind. Clodes
& vanilla.
Derivatives
There is ~~not~~
in it which
is

It is much too early to answer these questions with any confidence. Yet I think it may be said here that ^{the} electrostatics of this chapter, ~~vital though its framework is,~~ & in particular the principles of numerical & spatial simulation (which C.S. ~~has~~ ^{has} criticized for its spatial origins) already begin to fall into place in a larger ^{more} system, & even now are not required to stand by ~~themselves~~. Later chapters will develop ~~these~~ ^{out more clearly}, & also offer the confirmation cumulative. A great deal more cumulative evidence (which ~~is~~ ^{is} later chapters, with ~~try to~~ ^{try to} ~~find~~) is needed before to carry full conviction, but it ~~will~~ belongs in later chapters. Here I shall confine myself to one example of the kind of evidence I ~~mean~~ ^{have} in mind.

* See Chapter I § 8.

my Observer

Base of my pyramid

a b a b

c d

Base of my pyramid

Myself.

Finally, ~~it is~~ the principle of numerical ^{substantive} limitation (as it may be called) underlies all organisation, all wholeness, all individuality. I am an individual because I am organised, & what ^{the working of an} elaborate organisation ^{is} like I know from experience. There is always a pyramid of officials, each of whom deals with ~~with~~ ^{one} immediate superior & a few ~~of his~~ immediate inferiors, - ~~not~~ certainly not direct with large numbers of subordinates. He has to do with what he can conveniently handle, with what is neither too vast nor ~~too~~ ^{grades} below ~~himself~~ his own. The official current flows up & down through the proper vertical channels, with the consequence that the ^{individuals & things} real work is done by small three-level groups at the confluence of these particular ~~proper~~ channels. This is not ~~best~~ ^{it is} bureaucracy, but nature. The General to whom his rank-and-file are Brown, Jones & Smith, instead of ³ Battalions and brigades, is ~~not~~ ^{no} a General. So it is in me. The indispensable ^{there is a number}

[illegible]

enjo

* In on of / nls., my levels will
not a the tendency of to
look points to write as if
to speak as if I could be a man
o molecules at once: in fact it
always takes time ^{for the student} to get from
my own region to my molecule
region - time in which to "kill"
o dismantle the man.

L.S. Stabbing, in Philosophy o the
Physicists, pp 46ff., takes certain
physicists to task for looking
physicists: what I call level-mixing

$\frac{1}{0} = \infty$. "The fraction of life can be
increased," says Cantor, "in value not
much by increasing your Numerator; or
by lowering your Denominator."
Santor Recreations II, IX.

* See Chapter I § 8.

my Observer

Base of my pyramid

a d a

b c b

Base of my pyramid

Myself.

$aa =$ my Observer as Observer
 $d =$ my Observer as Observer
 $bb =$ myself as Observer
 $c =$ myself as Observer.
 $bda =$ my 'pyramid'
 $aac =$ my Observer's 'pyramid'

aa = My Observer as Observed
d = My Observer as Observing
bb = Myself as Observed
c = Myself as Observing.
bbd = My 'Pyramid'
aac = My Observer's 'pyramid'

Bureaucracy; ^{it is} ~~but~~ natives. The General
 von, Jones & Smith, instead of ³ Battalions

in ~~instances~~ of an essay on the meaning-
who ^{does not} ~~cannot~~ count above ten, ^{who believes} ~~knows~~

sup
* In on of /
no
leak
to speak as if I could be a man
o molecules at once: in fact it
always takes time ^{for the atoms} to get from
my man region to my molecule
region - time in which to 'kill'
o dismantle the man.

L.S. Stabbing, in Philosophy & the
Physicists, pp 96 ff., takes certain
physicists to task for ~~looking~~
~~missing~~ what I call lurb-missing

$\frac{1}{0} = \infty$. "The Fraction of Life can be increased," says Carlyle, "in value not much by increasing your Numerator and by lowering your Denominator."
Santo Rescripto ii, IX.

This can't, is wiser than we ^{had} thought. There is something, after all, in that common-sense
 mood of mine when I refuse to believe ⁱⁿ my cells and my molecules and
 my atoms. So long as I stay a man, they are a fiction. * It is only ~~when~~ ^{when}
~~by descending~~ ^{to that} level, I find them, & my descent is what ~~puts them~~ ^{makes up their}
 means of [↑] ~~realities~~.

* For a natural observer one cell is a cell, and ten thousand cells is not ten thousand cells but a piece of tissue. His incapacity is capacity for creation.

Common sense argues that my increasing number makes up for my decreasing size. & my approaching Obverse is not justified in decreasing the denominator (my size) without increasing the numerator (my number) of the fraction. The answer is that in either case the result, when he gets to my Centre & the denominator (my size) becomes zero is infinity. At the Centre I am All because I have ~~no~~ ^{infinite} denominator to the my designation to Nothing. +