



Ω SKX: INTRO

"The Whole Thing."

PRIVATE PAPER  
EARLY DRAFT  
NOT FOR PUBLICATION

Two copies have been made of  
this paper ~~for~~ ~~to~~ ~~show~~ ~~to~~ ~~particular~~ ~~people~~  
for ~~showing~~ ~~to~~ ~~particular~~ ~~people~~  
for two purposes: first, to explain  
~~the~~ ~~scope~~ ~~of~~  
a scope of organized interests which  
I have been unable to present to  
myself, ~~and~~ ~~which~~ or in previous  
writings, and second, ~~to~~ ~~hope~~  
~~of~~ ~~criticism~~ ~~and~~ ~~correction~~ ~~that~~ ~~will~~ ~~be~~ ~~of~~ ~~great~~ ~~value~~ ~~to~~ ~~me~~ ~~in~~ ~~the~~ ~~future~~.

it will not be referred from  
I HOPE THE PRESENT FORM  
of this ~~work~~ ~~will~~ ~~not~~ ~~be~~  
~~sent~~ ~~that~~ ~~I~~ ~~think~~ ~~it~~  
material that I have any  
intention of publishing it  
soon or at all stands. I  
have sought, rather, to write  
several ~~trials~~ ~~of~~ ~~my~~ ~~interests~~ ~~in~~  
a clear way for ~~the~~ ~~purpose~~ ~~of~~ ~~clear~~ ~~statement~~ ~~of~~ ~~what~~

HOPE IT'LL BE CLEAR  
this is committedly empirical.

I intend this as a way of resting <sup>general</sup> these concerns for ~~the~~ ~~tr~~  
awhile in the clearest form I can manage.

JARGON VS IDEAS

! Sorry that in previous papers  
in this series this has seemed a concern.  
For various reasons a lot of tech. terms  
are there ~~in~~ ~~from~~ ~~various~~ ~~fields~~. This  
is only because they are examples they aren't  
used precisely.  
I WILL IDENTIFY TECH. LG. WHICH IS NOT MY OWN.

! Directly philosophical with an empirical commitment.

A federation of interests

... for those well-wishers

It may be that in a descriptive network certain "pure types" are taken for their ease of statement, and other types are allowed as modifications of these pure types. The most obvious example is "rationality" in social sciences. ~~Amwawb~~ "Rationality" is often used as a paradigmatic concept-- as by the classical economists, Weber, Parsons, and the game theorists-- to describe ~~the~~ the pure version of what people would do if they had certain excellent abilities of calculation and considerable freedom of movement in various situations. ~~Then~~ Then, within their theories, a large part of the difference between "rational" behavior and what people actually do can be attributed to irrational and non-rational factors, such as ~~emotion,~~ emotion, inertia, ~~in~~ and inflexibility.

§ 9.4

It may often be found that the measuring schematic which was originally set in a network of clear outside predications-- for instance, a scale which has been developed in reference to some particular group of objects-- loses this clarity of outside predication when ~~xxxxx~~ applied to a new universe of objects-- new objects ~~may~~ may be in some sense "off the scale," either by going off an end of the scale to a realm in which the old outside predications are no longer relevant-- ~~a~~ simple examples~~ix~~ are the ~~the~~ physical laws relating ~~is~~ the expansion of metals or the contraction of gases to temperature-- or be in some new way unrelated to the old meanings of the scale, ~~xxxxx~~ -- for example, ~~when~~ when aero-cars come into use, the old motorcar registrations that count "number of wheels" as a criterion of ~~xxxxxxx~~taxing will be inappropriate to the new vehicles which do not even touch the ground, let alone ride on wheels.

A descriptive array can be of many kinds. We may enumerate the possible

types, roughly, as being dimensions, discrete entities, and weightings,  
the constituent parts of a  
networks,  
however, on examining/a  
descriptive/array it may not be clear

which kind a such a schematic may be. For instance,  
the term "unconscious" in a system of depth psychology-- is it a  
dimension, or a discrete half of a dimension, or a discrete entity?  
It will depend on the system; and in fact the way the system evolves  
as many psychoanalysts use it may change it from one of these to  
another.

They vary in precision and extent of implication.  
There are a number of different kinds of weightings./

such  
We may distinguish/weightings of as probability and measurement.  
For instance, some measures-- like "force" and "mass" in physics-- exist  
in a crystallized network of schematic connections with a number of precise  
implications. Thus a measure of something's mass also implies, within  
this very well validated descriptive network, a measure of the  
force that would be necessary to push it, if there were no friction.

9a, la

The term "probability" is interestingly complicated,  
What measures of probability may be made in different situations vary  
with the context; it is quite impossible to talk about the probability of  
a theory's being true in the same way that one refers to the precisely  
calculated probabilities of an eventuality on a well-made  
roulette wheel.

Measuring networks are our next topic. We asserted in the first  
and precision  
chapter that the significance/of a descriptive network was  
dependent on there being multiple outside predications to lend clarity  
to the terms involved.

schematics and networks. schematic  
It is the same for measuring/ By a measuring/we mean  
some array or dimension that is used to give some  
schematic evaluating of a thing from a number of different alternatives--  
instance, a weighting or a scale. But just as with the coincidence of

Let us emphasize that all these problems are empirical, related directly to particular problems, existing theories, tools of research and possible new directions of study. What things can be made precise-- definition of terms, operational definitions of terms, control, are entirely local matters within each subject. In many cases it will be possible to have micro-level understanding without prediction, where ~~un~~ unobservables or chance factors ~~precipitate the overall result;~~ precipitate the overall result; some in ~~many~~ cases it may be possible to have gross-level predictions without a corresponding understanding on the micro-level, ~~as with the~~ as with the rank-size rule of urban population.

In this chapter we will ~~xxxxx~~ offer what we think is a preferable alternative to the axiomatic ~~xxxxx~~ programme of scientific investigation. We will treat induction and theory validation as a cyclical process, which takes place ~~xxxxx~~ by empirical checking and schematic changes in the model.

recalled,  
As ~~it~~ will be ~~xxxxx~~ we have introduced the concept of "induction" as the problem of finding stable schematics in some collection of phenomena, containing many manifest properties and relations, internal and external. The stable schematics, ~~xxxx~~ we hope, will derive precision and significance from ~~their~~ outside predications which ~~xxxxx~~ stabilize and make precise their meaning. Eventually, it is hoped, these networks will reach a high state of ~~xxxxx~~ specification and crystallization with regard to as many other theory-systems as possible.

We will divide the problem into a number of stages.

19,1

First, the problem of noticing and assimilating. In its preliminary ~~First~~ stages this is a ~~xxxxx~~ matter of noticing that there is a domain, and ~~of~~ noticing possible ~~xxxxx~~ ways of segmenting and otherwise schematizing the domain.

These are hunches, problems of "notion schematics" as discussed earlier, and only of passing interest to us here.

The later stages ~~are~~ of noticing and assimilating ~~xxxxx~~ demand finding categories, dimensions, entities and general "codings" which seem to take into account the significant phenomena to be described. In this it is necessary ~~xxxxx~~ things, distinctions, etc. to throw into relief those ~~xxxxx~~ which seem to be significant, ~~xxxxx~~ searching for cutting-points, category-boundaries and so on.

The visibility of ~~it~~ what seems significant must be increased; *attention on the apparently significant parts of the material must be maintained.*  
*Several*  
Among ~~xxxxx~~ ~~two~~ crucial problems at this stage must be mentioned.

continued

K One of these is the ~~xxxxx~~ noticing and assimilating of features of the phenomena which do not fit into the code, in such a way that they may be later ~~xxxxx~~ re-considered for possible modifications of the model. Unfortunately several considerations militate against this. One is purely economic, ~~xxxxx~~ the allocation of available labor and facilities for ~~xxxx~~ gathering data that seems irrelevant--~~x~~ scarcely a "reasonable" activity, in light of the first construal, and yet obviously reasonable in the long run.

K > *Another*  
One is the problem of the ~~xxxxx~~ forced applicability of a code. Like any other language or schematic, a coding-language may be applied where its appropriacy ~~is~~ is more attenuated than the user realizes. Thus categories chosen for

coding may come subtly to take on new meanings ~~which were~~ which were initially expected, not ~~extended~~ or come to have phenomenal connotations which result in the gathering of data not slanted toward the original plan of research. *The converse is also true: the intent to notice things outside of the ~~axf~~ focal research concerns may be frustrated by the drift of ~~the~~ code back toward the focal categories.*

T. M. \

L Basically ~~the~~ the effort to collect side materials, not apparently of directly relevance, is a matter of the actual configurations of the subject-matter. For in some cases this material will be expensive and unrelated to the first activity, in others virtually identically and concomitant.

M

~~A very conspicuous~~ Unfortunately the ~~copy~~ <sup>copy of some coding</sup> may take on the characteristics of a stuck pattern — a crystallized forced application.

N

~~which~~ which makes it much harder to see the features and distinctions that ought to be noticed for improvement of the model. A very conspicuous and clear code will assimilate counterexamples to itself.

→ N →

These problems of noticing ~~axx~~ may be regarded as ~~axx~~ one aspect of the problem of computability, ~~or~~ or assimilation. What data may be successfully examined ~~by~~ by the builder of the theory have clear import for the generality, ~~and~~ clarity and suitable emphasis of the theory that results. *if there is an overload <sup>above the capacity of the theory and its ability</sup> of information ~~processing~~ processing and retrieval theoretical construction and experimental procedures.*

The problem of the evolving theory is ~~the~~ that which confronts any evolving thought-system. A thought-system, as we remember, is some network of schematic connections which can ~~change~~ evolve, ~~change~~ by and large, only by discrete schematic ~~changes~~ changes. While "leaps" are possible, they are not easy, and depend largely on the kinds of information that have entered through the noticing-system.

If I put it in, NB lack of derivational direction of t-s.

FEEDBACK AND CYCLE TO STAGE 1.

21,1

We come now to the ~~key~~ crux of the foregoing arguments about procedure. That is the fifth step, theory improvement and correction.

It is stated as self-evident by the axiomatic theorists~~x~~ that ~~in~~ an axiomatic model can be corrected and improved in a simple fashion, by ascertaining which of the fundamental propositions are false and need replacement. This fails~~x~~ to recognize the things that ~~happened in the~~ can have gone wrong throughout the referential network, and assumes that ~~it~~ in the canonical form which the theory has happened to assume the difficulties <sup>one or</sup> may be localized to/a few axioms.

That this is not so should be clear from ~~any~~ reviewing the different steps through which the theory has gone in its development. Certain things <sup>ity,</sup> were noticed; an attempt was made to array them, code them and construct <sup>tabil-</sup> division and array may have been applied ~~in~~ outside their domain of <sup>appli-</sup> Natural categories and divisions may have been missed; schematics of a model./ In crystallizing his model the theorist may have arbitrarily ~~decided~~ <sup>in reduction to axioms,</sup> axiom-sets may have been chosen which <sup>divided the mistakes among several different schematics;</sup> ~~overruled~~ <sup>overruled</sup> unclarities in his own mind;/in testing, the operational definitions may have been ~~unsuitable~~ unsuitable.

The improvement of the theory, then, must ~~not~~ proceed through all means which seem reasonable and appropriate to the subject-matter; that is, the theorist ~~should~~ should not fail to consider any schematic changes in his model which will increase its apparent probability of better fit. To expect that the axiomatic method will localize the ~~problems~~ <sup>then</sup> incorrectness of a theory is very much like ~~handing a man a map of Boston torn in three pieces and asking~~ <sup>handing a man a map of Boston torn in three pieces and</sup> ~~asking~~ expecting that he can make it into a map of New York.

The problem of ~~life~~ human life and death is only one of the frontiers on  
which the <sup>social</sup> categories are degenerating. (Abortion, etc.)

POSSIBLE APPEARANCE OF  
DOCTRINES & STABLE IDEA-SYSTEMS

The availability of plausible positions

# PRIVATE REACTIONS

DEFENSES

ISOLATIONS

WITHDRAWALS

SENSE OF FUTILITY

JOINT INDIV L - GRP REAX

Can activity take you over?

Sense of purpose  
Sense of rectitude (grp w' drawal) sufficient  
Sense of implausibility, w' differences, 'abandon' / 'normal'

# 2. MORAL CLIMATE

17/10/53

Another example is, of course, the thermonuclear bomb. ~~When it was first used~~  
~~in the Pacific~~ Its abiding presence in the moral climate today-- particularly  
 for the young-- has been discussed sufficiently elsewhere. \* ~~When it was first used~~

VII Deeper meanings of affective focus

UNEASINESS

SENSE OF COHERENCE

HOPE

REASONABLE TRANSITIONS  
OF LIFE-STAGES

THE RELINQUISHING OF BALANCE  
and 'integration' of system

ROLED PARTICIPATION?

THE TRULY TRUE BASICITY  
of the pendulum in the inner world

Ch.

93

~~11~~

# NEWS FOR RELIEFS

Emergency of world

make any ~~thing~~ response  
at the ~~side~~ of ~~action~~  
to the ~~condition~~

a.

I, Greater shops & availability

92

LIST  
SMIT

How things available  
fit in with the people

Ch

ACTH-15X  
+

9/1

II

Individual among others. ACTH-15X

### SIGNALING & FATE CONTROL

See, love

Parsonian interchange paradigm

BUT DO THINGS WORK OUT like he says?  
FAR TOO MANY COMPLICATIONS

The learning of ACTH  
without  
incubability  
groups

II. Individual & Situation  
(IPR); Systems for Living

Poor programmings & reactive structure  
(SITUATIONAL)

UNDERSTANDING SITUATION etc.

COMPUTING & DECISION PROBLEMS

HUNCHES  
ANXIETIES

*[Faint handwritten notes]*

LIVING WITH THINGS

# I. The Spectrum

CLASS OF FORMS OF THE SPECTRUM  
INDIVIDUAL  
REACTIVE STRUCTURE

equivalence of ...

Ability to compare  
WHAT LIMITATIONS EXIST

~~III~~

IFT IS CAN FORMS  
SAME JOB  
∴ do not want more unless  
if ...

## FOR INTEREST & CARING

Substrate resp. transfer  
(EMPHASIS)

EMERGENCY PARTS  
(eg. point - focus)  
(EMPHASIS)

DISCRETELY REACTIVE PARTS, FOCUSING  
v. INTEGRATION - job, e.g. security

Notes & ...



BK  
II

84

CDHS

The Caring & Daring  
of the Human Soul.

~~If it seems at first that it would never be reasonable, suppose that~~

~~"brain-programming" actually had reached a high state of the art,~~

*technology comes into existence whereby*

whole personalities and memory-sets could be stored for ~~www~~

loading and re-loading a human mechanism? What about the actual repair

of brain damage, the connection of machinery to the nervous system?

~~Behind and besides the philosophical questions, there are the more~~  
~~drastic questions~~

of both cost and allocation. If these developments

and programming in neurology/should follow the trends we have mentioned in medical

sciences, the costs will be enormous//~~www~~ only of public

authority. To whom will these personality-restorations be allocated,

and in what situations? Of course, breakthroughs in ~~xxx~~ computer

technology-- say, biotic digital computers requiring infinitesimal

power and space-- might make ~~www~~ the existence possible of

warehouses of imp bottles, filled with regenerations of the minds

of people dead and living ~~xxx~~ elsewhere. ~~www~~

~~www~~ The purpose or possible uses of it are unclear. Yet, ~~xxx~~ as with

the mass-production of the prayer wheel, ~~www~~ the use of computers to  
and the banning of contraceptive ~~www~~ devices on the basis of

views dealing with ~~www~~ consciousness,  
write out the manifold names of God, there are institutions and persons

might that ~~www~~ favor the production of artificial or simulated consciousness

to the limit of capacity, ~~www~~ ~~xxx~~

~~www~~

We must emphasize again the incredible importance of the distribution

of decision, if these issues themselves are of any importance. There

have been many times and situations when ~~www~~ important decisions

~~www~~ were made in the clear sight of an approving public-- peace or war,

the National Recovery Act. The changes of the kinds of things that

are happening and available make that less and less ~~www~~

a likely model of what will happen with decisions involving both

technicalities and humanity.

10

11

12

13

759

*But it is not the only  
the machine that can think  
it would be possible  
of himself*

We would like to emphasize the interlockingness of systems decisions  
~~to~~ ~~in times that come.~~ A great many steps  
 will become necessary to counteract such things as the increase of  
 carbon dioxide, the silting of lakes, the ends of species, the dissemination  
 of unstable bacteria, water pollution, ~~and~~ soil erosion and contamination.  
 Yet numbers of these problems are closely interrelated in the implications  
 that system decisions will have among them. Similarly for city planning  
 and transportation, government subsidy of industry, ~~and~~ market structure.

Yet we ~~are~~ are all too aware of the ease of ~~and~~ delay in system  
 decisions in degenerating situations. For example, England kept putting  
 off the adoption of ~~left~~ right-hand drive; ~~and~~ ~~the~~ ~~change~~  
~~was~~ had it been adopted early a great many costs could have been saved,  
~~but~~ but the rising cost at each time ~~was~~ the change was considered  
 always prevented it. Similarly in this country for developmental work on  
 the monorail, with constant deferral to the existing emphasis on automobiles,  
 in an ascending spiral of possible costs.

With the increase of the extent of interlock among systems, and the

This increase of interlock carries with it certain temptations, ~~and~~  
~~for~~ for instance the design of systems that ~~can~~  
 can be put to unexpected private use.

Other new generalities of systems unite ~~what~~ things that had been  
to machine,  
now widely interchangeable from system to system and machine/  
disparate-- for example, "data," and soon ~~with photographic storage~~

the storage of photographs. But along with these generalities we may also  
expect the corruption of a number of universals-- accounting systems,  
dimensions of measurements-- on which we formerly arrayed these things.

*private*  
The ease of transformation by/mechanical means may well ~~increase~~  
make the  
~~bring~~ less unified/systems of array and ordering ~~in the~~ presented to people  
without the equipment. Daylight saving time is one such transformation,  
*through a change etc.*

We may well expect, that, as with the different speeds of phonograph records  
and the different types of radio receiver, more and more things will be  
unavailable to people without the proper equipment.

Technology has also made possible certain kinds of drastic new distin-  
guishabilities-in-proximity. It is no longer necessary to be prepared and  
keyed-up ~~to~~ to commit action A to suddenly do it-- for instance, war.  
Garbage can be wrapped in polythylene near lovely things; ~~a~~ messages, files,  
~~etc.~~ etc., can be sharply segregated in ways that permit  
complete inattention to them-- things which are nearby but do not seem to be.

GENERALITY & OPTION

NEW & DIFFERENT RANGES OF POSSIBLE ALTERNATIVES

68,1  
82x4

In many ways the problems of decision and system today stem from the ~~newness~~ a generality and option; - new and different ranges of possible alternatives have been made possible.

The unity and generality of problems prevent the divisions into single problems or the assignments of special competence by area. In modern strategy there can be no ~~dist~~ simple distinction between war and peace; thermonuclear threat and ~~armaments~~ arms-control negotiations are indivisibly tools in the same game.

Not only with weapons systems, but with all forms of facilities, a generalization of abilities has come about that permits a tremendously wide option as in their use. ~~These weapons systems are now part of a strategy, which is not only a weapon but a~~ While strategic considerations greatly restrict the possible use of these weapons systems, they are like other facilities subject to the widest possible consideration of vast ranges of alternatives.

~~we have meant to emphasize up above the generality and of new systems. Many other new systems, less limited by strategic considerations, are being developed. These new systems, these new systems are~~ Because of their generality, they are also highly subject to options, or, in a loose sense, "arbitrary." What things are done with existing ~~systems~~ facilities is vastly more modifiable than ever before.

GENERALITY

~~Food and meat packing are another example. At an earlier time, what things were possible were contingent on natural forms. There were standard cuts of beef and pork, and, as residual categories, hamburger and sausage; there were the known ~~vegetables~~ <sup>fruits</sup> and grains, ~~and potatoes~~ <sup>etc.</sup>. Now, by contrast, much of what is consumed are some sort of uniform mash, made to a consistency and shape that will be appealing. ~~Big~~ Baloney and "sliced cheese" are mainly milk solids obtained in a centrifuge; "fish sticks" and "chopettes" are artificially formed of formerly unusable fragments. <sup>"Fruit drinks" are fabricated to suit the market from natural and artificial ingredients.</sup> The candy bar, ~~is~~ with its layers and fractions of chocolates, syrups and crunchy elements, is an extreme case of total fabrication. ~~And~~ The ~~newest~~ impending advent of prepared cellulose for bulking is another such development. ~~And~~ And, symbolically, we see the vast success of the ~~a~~ foodless food, Metrecal, totally constituted of basic oils, ~~and~~ sugars and residues. However, Metrecal is merely the most explicit development along these lines, and by no means the first.~~

ECONOMIC PROBLEM  
e.g. a foodless & constructed foods

There are constraints on what things to make & do that vastly narrow options - at least commercially