The idea of an environmental pattern system raises many questions.

We shall set down immediately those questions which arise most frequently.

The questions are:

- 1. Why should the pattern statement be so physically specific?

 Aren't performance standards a better form for general statements about the environment?
- 2. Aren't the "tendency" statements too much of a straightjacket? Isn't it enough to list simply the program objectives, and then decide whether or not the building meets the objectives?
- 3. How can imprecise, human requirements be put into the precise format demanded by pattern statements?
- 4. How do you design a set of patterns?
- 5. How do you know that the gatterns prescribed for a given situation are all that are needed to insure a functional organization?
- 6. On what is the decision based to make one pattern from a design idea, instead of two or three?
- 7. How can you be sure that even the best patterns will generate a functionally sound environment? Isn't it possible that smooth functioning depends largely upon solving particular, circumstantial problems, problems that are unique to a setting and non-generalizable?

The following are very rough drafts aimed at answering some of these questions. Since these questions - and others - may come up during the seminar, these pages should be taken as a basis for discussion.

(1.) Why should the pattern statement be so physically specific? Are nt performance standards a better form for general statements about the environment?

Performance standars are a list of activities, or needs, or functions that a given building must house. The standards almost always have the form, "the building should allow 'x' to happen," or "'x' conditions should be present in the finished building." However, performance standards never state how a building should be organized so that 'x' conditions will obtain. They are, in effect, only an organized attempt at the environmental problems; they are never more, they are never solutions.

The performance standard concept is weak then, since standards alone do not insure that a finished building will work according to specification. To overcome this weakness, we must construct when statements that indicate not only what conditions should exist, but exactly what kinds of physical arrangements will permit such conditions to exist. This is exactly the intention of individual pattern statements.

For a building specification to be complete it must specify actual geometric arrangements for the environment.

If we settle for performance standards alone, we are not

gradually

doing our job. We must/construct always services and corresponding solutions. A body of problem statements, no matter how press precisely stated, is not enough; the physical relationships in a building that are measurements solving the problem must be abstracted, and stated as an are patterns.

Unless we state solutions along with problems, in a general format, there is little hope of ever improving surming the standard our efforts in any cumulative way. It is difficult to criticise and modify lists of performance standards; almost everyone always agrees with them. But since standards do not go far towards solving environmental problems this type kind of agreement is superficial.

Once patterns are stated along with problems, agreement vanishes; there is a strong chance that the solutions, or patterns, may be wrong. But it is only by going out on a limb, by chancing mistake, that we ever get moving toward markest correct pattern specifications for the environment.

Tomas de la constitución de la c

Are'nt the "tendency" statements too much of a straight jacket? Is'nt it enough to list simply the program objectives, and then decide whether or building not the answers neets the objectives?

Designers usually acknowledge that the) The success of a building, become in functional terms, depends on its capacity to accomodate stated building objectives. The listing of objectives, or criteria, always precedes the first stages of design. The idea of explicitly setting down program objectives is part of the general trend toward rationalizing the design process and insuring the functional quality of buildings. But there is one critical problem With the program objectives strategy: There is no way of knowing whether or not the objectives listed are the why should right ones; American the building MyMW function trakers But the seconding to them, instead of some other, slightly different, kizzer list? Thus the arbitrariness of a program objectives list is a threat to the possibility of truly functional design. Every designer knows that whole "solutions" can become shaky once the relevance of program objectives becomes open to inquiry.

Time the second of the second

this problem. It implies that behind every seixed building that objective lies a potentially active force; a these active make up forces that shape the environment, and the true functional program for any building. The active forces are stated as individual tendencies and accompany each pattern statement.

The statement is a summed that under specified conditions, each tendency, or force, will operate on the

environment. It is always possible to test the accuracy of a proposed tendency, since, unlike program objectives, they do not have the character of arbitrary inventions.

Thus, if a building objective states "In a service center, young mothers, waiting to be arm interviewed, need to be now their children in the child-care area," it is difficult to know exactly what demands are being made on the building form. Will mothers want to wait near the away from child-care area, or would they prefer to wait mear the away from child-care area, or would they prefer to wait mear the away from children, with a cup of coffee their object their interview to children need to see mother, or as should they become thoroughly absorbed in the child-care activities?



child-care area woven through a waiting zone, or separated in the waiting zone by glass, or should the child-care be visually enclosed, and was waiting be appart of a coffee lounge? Apparent the original objective gives rise to so many questions and possible interpretations that a second functional solution based on objectives alone seems remote.

objective dieminacames clear.

But if, waxkank instead of objectives, we hankxxink look for the active forces underlying the objectives, the problem becomes clear. "Mothers will try to stay within 10' and in sight of their children madade while they are waiting for appointments." "People waiting for appointments will tend to m wait in that part of the waiting room associated with the location of their appointment." Both theme statements are hypotheses. They arex whitemphasismus may be right or wrong, but they can be tested. If thereff, right will actively influence the shape of the environment. The environment will either accomodate both forces, or place them in conflict. Let us examine the conflict Pensibility the more general, that design is required and includes Ematherent "mothers"; if mothers cannot stay in Yier of their children and within must in an area associated with the location of their appointment their will be conflict. Reshaping the form eliminates the conflict: Child care should be within 10° of waiting areas, the waiting areas farmed out, each associated with an appointment are area.a.

With demign objectives, the connection between form and objective is always arbitrary and unclear; with damignational tendencies, a truly functional building grows out of the human forces at work in the environment.

The second

How can imprecise, human requirements be put into the precise form demanded by pattern statements?

It is not necessary that all patterns be stated with equal precision. It is only essential that each pattern describe unambiguously a physical relationship.

Some design ideas lend themselves easily to

prex precise numerical statements; for example, the statement

of the pattern for house signs has this character: The minimum

takker size for house numbers can be stated precisely because
stated

the tendencies and derivation were in precise, quantified terms.

Other patterns do not lend themselves to such precision; for
example, the pattern concerned with the takkerstand introduction
of preschool children to primary school calls for a small park
and pedestrian path running through the school, near classrooms and linking up to the community at two points.

This pattern does not give exact numerical distances or
geometric positions, but the relationships it does state are
unambiguous and managements in their own terms.

It is important to note that even in these cases, where a pattern does not lend easily lend itself to precise formulation, it is still possible to state the key relationships with perfect clarity. Inchanges enable in the key relationships with perfect clarity. Inchanges enable in the key relationships with perfect clarity. There are two reasons why each pattern must be stated unambiguously: First, it is only when the pattern is stated clearly -precise in its own term-that we can determine analytic meaning, whether or not a given piece of the environment conforms to the stated pattern.

Second, it is only whatedxpresements when the pattern is stated without ambiguity, that we can criticise it, and modify it; vaguely stated patterns can never be easily amended and improved when they are wrong.

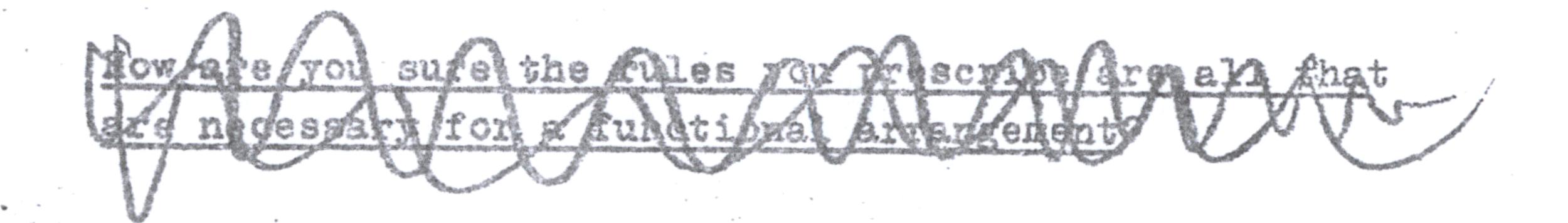
the time time prescribe cresult that have are seesary

How do you design a set of by les?

on And they are developed they as/open to criticism and revision.

W errow Most generally there seem to be three ways famograbeles at In the first case there is some building or setting in the existing environment that appears well-organized and seems to be solving as full-crash summing problem (though perhaps you cannot say just what it is). There may be a number of sistement places winds all seem to be destructive year well-worked out. The job is to abstract from this place axxaumber (or number of places) just those relations between parts which are essential to its functional success. What characteristics of the buildings physical arrangement really matter? Which relations, if repeated on another site, would reproduce the same feeling of good organizations? This abstraction process generates a set of generalized arrangement statements; these statements -become the problem that govern the organization of the object; they are a set of instruction for producing renderet The second way of getting at meder is/nearly opposite attentions the first. Instead of starting with an existing environmet that feels right, we begin with a feeling that there is . "

something seriously wrong with an existing arrangement: x that the arrangement must be creating a serious conflict between human tendneices. The job here is to decide just what it is about the existing arrangement that is bothersome and what tendencies are being thwarted. With the analysis goes the development and refinement of an idea for rearranging some parts of the environment. As the idea matures it becomes a mand governs a new pattern in the city, a pattern that eradicates the original conflict. A third my/ of getting at Ambien begins less with a sense of good or bad physical arrangement awar than form with an instance of human misfit. Again, this process starts with a strong intuition, an observation, perhaps, of some point of friction in human affairs. The question here Samma What features of the physical environment are helping to sustain the problem. (Or, conversely, if some event seems full of life, what features of the zmrinzmmmamim environment are belping to sustain the health of the situation.) The generation of formal tendencies and design rules follows the intuition in much the same manner as above. WELLEN THE STATE OF THE STATE O This balance to that in all three massax cases begin with a strong feeling and only later move to formalization of patterns and marguement.





How do we know mow much to put into ONE pattern.

- A. Given two patterns, how shall we decide whether to combine them, or whether to leave them separate.
- B. Given one pattern, how shall we decide whether to split it apart, thus making two or more patterns out of it.

These two questions are equivalent, since B can always be phrased as if it were a case of A.

Themesansunxinasmanashianxhixxanathaxxhixxhix

金町畑

Harman arabana karana karan

寬繁羅

Let us call the two patterns in question, P and Q. We may now answer the question A, by answering the following question:

Are there any contexts which xmam in which we should want to use pattern P but not Q, or pattern Q but not P. If the answer to this is YES, then the two patterns should be left separate. If the answer is NO, so that there is no context where one of the two is desirable, but not the other, then the two patterns should be combined.

Another way of looking at this in the two problems solved by P and Q respectively independent or not. If they are causally interwoven, so that they always occur together, then the patterns are not separable; if the two problems can occur independently the two patterns are separate.

(NOTE: the question is whether we want to use P and Q, not whether we can actually do so. There will always be some im situation where, even though we should like to use me both P and Q, some local constraint actually makes one of them impossible: this would be true for any P and Q, and would not help us distinguis: separable pairs from non-separable pairs).

How do we know how much to but into ONE pattera.

A. Aiven two pasterns, how shall we decide whether anxama to combine them anxama how shall we decide whether or not it splin it apart, and make two for more patterns out of it.

these two questions are equivalent, since B can always be

P-CONDITUTED/American

If the tile pathons centre and her of separately, ofe wi

the other—it shu makineable situation the the two should

/ Thirdername holding left - supare to a

If there is any confext where one parters would be appropriate, and the other souls be inappropriate, then the two patterns should be left sengrate.

GOVERNOUS OF THE PARTY OF THE P

If the problems solved by the two patterns are duite different problems, then the two patterns should be left separate. If on the other hand, these two problems are causally interveleted, then the problems are causally combined.

EXAMPLES:

Combine the two statements of the house sign position.

It would be possible to apply either one, without the other, but theme it would only make sense because constraints make one impossible - not because there is any context in which one combinement problem could occur, and the other not.

Separate the two smammam systems in CONTACT, one of see in living rooms, the other for desm density - one concerns dropping in, the other childrens groups - there is no necessary functional connection between them.