

RULE SYSTEM 2

THE PROCESS IS GUIDED BY A SYSTEM OF
EMERGING WHOLES

(of course)

by itself will not create structure.

Piecemeal growth, ~~alone~~, is not enough. Although piecemeal growth provides the context for very subtle adaptation and harmony, it does not, of itself, provide ~~the~~ any structure.

~~The~~ In order to understand the way that the piecemeal growth works, we must ^{now} understand that every single ~~xxx~~ step, in the process of piecemeal growth, is essentially designed to create, or to help create, certain larger ^{wholes or "structures"} ~~wholes~~ which actually provide the greater structure for the ~~system~~ city.

The way in which these larger ^{structures} ~~wholes~~ emerge is extremely complex.

In order to understand it, we may postulate the following five rules:

1. ~~There are~~ In the process of growth, certain larger entities, or ^{structures} ~~wholes~~ emerge. These larger ^{structures} ~~wholes~~ are distinct and recognisable entities, larger than any individual building. They are, essentially, the entities of public space that are formed by complexes or aggregates of buildings. Examples are: The main square, the first mall, the small grid of streets, the great garden by the hotel, the park-pier complex at ~~the~~ the southern end.

2. These structures emerge slowly. That is, there is no one act of construction which totally produces one of these structures by itself. Each ~~of these~~ structure comes into being gradually.

3. These larger structures arise spontaneously. They are not planned ahead of time, but take shape gradually, and are always surprising, even to the people who have helped to create them,

~~3a. However, this does not mean that people are not playing~~

3a. However, awareness of these emerging structures, plays an essential role, in the process by which they emerge. Each individual person, who undertakes an act of construction, is always aware of the context of larger structures, existing, emerging, and faintly hinted at on the horizon, and then shapes his own individual act, in such a way as to continue, and develop, this complex of emerging structures in the most satisfactory way.

2. These ^{structures} wholes emerge slowly. That is, there is no one act of construction which, totally produces one of these ^{structures} wholes. ~~The whole~~ Each ^{structure} whole comes into being gradually.

3. These larger ^{structures} wholes are not planned. That is, they take shape gradually. ~~When they are first conceived,~~ and are always "surprising" in the sense that when completed, by a series of acts of construction they are quite different from what they were when first imagined. *are spontaneously: Thus*

4. Each of these ~~larger~~ larger wholes has a very definite natural history, which goes through three phases:

These three phases are linked to the way that the individual ~~acts of construction~~ acts of construction gradually create these wholes.

Step 1. Some act creates a hint of a new structure.

Phase 2. ~~One or more additional acts then~~ ~~pin point~~ pin point the main outlines of the structure.

Phase 3. A series of further acts then complete the structure.

5. In addition, every individual act of construction (each one of the 88) also

5. However, we may begin to see the complexity of the process when we recognise that every act of construction, has all three of these functions with respect to ~~the~~ different larger structures. Thus:

Thus:

1. It gives a hint of some as yet undefined larger structure, which may emerge.
2. It follows up on the ~~earlier~~ earlier hint of some structure, and pins it down.

1. It always helps to complete at least one major structure which is already clearly defined.
2. It usually plays a role in pinning down some other, ~~less~~ so far less clearly defined structure, which has so far only been hinted at by earlier acts of construction.
3. It usually creates a hint, of some entirely new larger structure, ~~which~~ which will then emerge in later steps.

In this sense, each valid act of construction plays a role in at least three ~~major~~ larger structures ~~which~~, ~~which~~ to which it contributes, and gives form.

6. ~~The~~ The total number of these ~~larger~~ larger structures is suprisingly great. Although there are only about a dozen really important major structures, there are, all in all as many of these larger structures, as there are individual ~~buildings~~ buildings.... this follows from simple arithmetic.

7. And ~~these~~ the very larger number of these larger structures is interwoven, interlaced, overlapping, in the most intricate way.

Let us try to illustrate this process with a few examples.

The first project of all, the gateway, obviously creates the hint of a pedestrian mall, going south from it. What is less obvious, is that the gateway also helps to fill the development of Mission street... and helps to pin down the activity node or space at the intersection of the ~~bx~~ bus station, Mission, and the street.

Then we come to the second project, the large hotel.

It also helps to fill out Mission street, ~~bx~~ and the ~~xxxx~~ same node that the gateway pins down, simply by filling out the corner. At the same time, it begins to pin down the pedestrian mall, by fixing its west boundary line... and, most interesting of all, it creates the hint of a new structure, what is to become the public garden. This happened in the following way. When first proposed the garden was entirely closed to the south. We refused to allow this, on the grounds that it was too shut in, and does not reach out or help to embrace the larger site. At this stage, the garden is left with a slight opening to the south, under a trellis. And we see, then, the possibility of a larger garden, a very large public garden, to the south, which opens from this smaller hotel ~~xxxxxx~~ garden.

In order to understand this fully, we shall now go through the full sequence of growth, ~~and understand the whole thing~~ step by step, ~~and see which larger structures are created, and at which stages, and how each individual act of construction contributes to the formation of these larger ~~xxx~~ structures;~~

~~Gateway~~

- | | | |
|-------------------|---------------------------------------|--|
| 1. Gateway. | Fills out
Completes | Bus station park whole.(already there) |
| | Pins down | |
| | Hints at | First mall |
| 2. Hotel | Fills out
xxx Completes | Mission street (already there) |
| | Pins down
xxxxxxx | First mall |
| | Hints at | Public garden |
| 3. Market | Fills out
xxxxxxx | First mall |
| | Pins down | |
| | Hints at | Path to fishing pier |
| 4. Cafe | Fills out | First mall |
| | Pins down | Garden |
| | Hints at | Fishing gate node |
| 5. Community bank | Fills out | xxxxxxx |
| | Pins down | First mall |
| | Hints at | Path to waterfront and Road to west. |

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|-------------------------|--|--|
| 6. Building complex | Fills out
Pins down
Hints at | First mall, fish path to fishing pie
Fishing gate node |
| 7. Apartment building | Fills out
Pins down
Hints at | First mall
Garden
<i>Trellis in the garden</i> |
| 8. Apartments (Hermann) | Fills out
Pins down
Hints at | Market area
Back path
Waterfront path |
| 9. Parking/apartments | Fills out
Pins down
Hints at | Garden Garden
West road |
| 10. Hedges +paving | Fills out
Pins down
Hints at | Fishing gate node |
| 11. Fountain | Fills out
Pins down
Hints at | Small square
West road entrance |
| 12. Educational center | West road
Fills out
Pins down
Hints at | West road Small square
West road
Path to garden |

13. Bath	Fills out	
	Pins down	Waterfront promenade
	Hints at	Large square
14. Trees	Fills out	Market area
	Pins down	
	Hints at	Waterfront node
15. Church	Fills out	Waterfront promenade promenade
	Pins down	Path to water
	Hints at	Area Area between church and bath
16. Condominium	Fills out	West road
	Pins down	Garden, path to garden
	Hints at	
17. Apartment building	Fills out	Waterfront promenade Parkinson
	Pins down	Path to water
	Hints at	
18. Garden with pagoda	Fills out	Garden, path to garden
	Pins down	Cafe terraces
	Hints at	Pagodas
19. Residential	Fills out	West road
	Pins down	Entrance to parking
	Hints at	

- | | | |
|---------------------|---------------------------------|--|
| 20. Row houses | Fills out | Path to water |
| | Pins down | |
| | Hints at | Grid |
| 21. Lights | Fills out | Waterfront promenade |
| | Pins down | |
| | Hints at | (Beucher)? |
| 22. Office building | Fills out | Garden
Mississippi |
| | Pins down | Mission street corner |
| | Hints at | |
| 23. Hotel | Fills out | Waterfront promenade |
| | Pins down | Large square |
| | Hints at | Grid |
| 24. A garage | Fills out | Backstreet Under freeway area |
| | Pins down | |
| | Hints at | |
| 25. Car repair shop | Fills out | Backstreet Under freeway area |
| | Pins down | |
| | Hints at | |
| 26. Cafe/apartments | Fills out | Waterfront promenade |
| | Maximum
Pins down | Grid |
| | Hints at | Grid street |

27. Handrail and benches Fills out Waterfront promenade

Pins down

Hints at

28. Small park Fills out Waterfront promenade, grid

Pins down First grid street

Hints at

29. Apartment building Fills out Grid

Pins down Parallel street

Hints at Second grid street

30. Rowhouses Fills out Grid

Pins down Second grid street

Hints at

31.

We see then, that ~~the~~ what seems like a merely piecemeal process, is actually a process in which new wholes are constantly being ~~inhabited, formed, filled~~ created. At every stage, new wholes are hinted at, pinned down, and filled out... and the process of growth, ~~which~~ which, concretely, builds 88 individual building projects, at the same time also generates a profusion of interlocking, overlapping larger wholes... about 50 of them in all... which together carry the ~~complex~~ structure of the larger whole, and make it coherent.

~~who~~ At each stage in the process, the people who were generating ~~the~~ the individual acts of building, were aware of these larger wholes, and were responding to them. In many cases the larger wholes, which were emerging, were explicitly known by name... in a few cases, ~~the~~ especially during early stages in their lives, these larger structures were only implicit, and had to be brought out by the three people who were coordinating the process.

In many cases, it was those of us who were coordinating, ~~who~~ ^{who} focussed attention on these emerging wholes, who helped identified them, or helped to identify them, . ~~in~~

There is no doubt that the system of emerging ~~the~~ larger wholes played ~~a~~ the essential role in the creation of the large scale order... without ~~the~~ emergence of these larger wholes, there would have been nothing.

It was the communal ~~xxxx~~ awareness of these larger wholes, the process of continuous creation, which produced them, spontaneously, from the present ~~x~~ state of the development, at each stage, which ultimately gave ~~birth~~ birth to the whole.

It is important to underline the fact, already loosely mentioned in the introductory chapters, that ~~xx~~ the larger wholes which ~~emerged~~ ^{emerged} gradually, in this process, were all unknown at the outset of the ~~xx~~ project. That is to say, each of these emergent wholes, was ~~generated~~ generated, by the previous sequence of projects. ~~That is,~~ Each of these larger wholes, emerged from hints, from possibilities, that ~~are~~ ^{were} themselves created by the interaction of previously existing wholes, and previously built buildings.

Thus, as in any growing whole, the exact course of the future ~~was~~ ^{was} unknown, ^{ahead of time,} and the "next step", even though guided clearly by images of emerging larger wholes, ~~it~~ itself produced these emergent larger wholes, spontaneously from its ~~present~~ ^{presently existing} state.

In this essential sense, then, the process which we followed is entirely unlike any ~~xx~~ present ly known form of planning.

^{On the one hand,} It does not rely on preformed maps of the future. ~~On the other hand,~~ ~~In that sense~~ there are no master plans involved. On the other hand, its piecemeal character is also not at all the kind of piecemeal growth which occurs under laissez fair conditions. There is, always, at every stage, a consciousness of emerging wholeness, which guides and orders the acts... and this emergent wholeness ^{comes from, and} is inherent in, implicit in, the growth itself.

4. Fishing pier node path	Hinted at by	Market
	Pinned down by	Offices
	Filled out	
5. Fishing pier node	Hinted at by	Cafe
	Pinned down by	Offices
	Filled out by	Hedges, teahouse.
6. & First small square	Hinted at by	Community bank
	Pinned down by	Fountain
7. West road	Hinted at by	Community bank
	Pinned down by	Parking , Education ctr.
	Filled out by	Condominium, Residences
8.		

It should be clear to the reader that discussion of these emerging structures played a major role in the process of piecemeal ~~growth~~ growth. Further, these emerging structures were often given a great deal of thought, and careful attention.... Then once this discussion had taken place, ~~and everyone~~ an ~~agreement~~ agreement was essentially shared by all the members of the community, then further acts went ahead, and treated the newly emerging structures as real things, which could influence, and give rise to further projects.

To ~~illustrate~~ illustrate this clearly, we now present the kind of discussion which surrounded ~~some of the~~ some of the more important emerging structures, ~~at~~ at the time that they first came into our minds, ~~and~~

~~THE~~ RULES OF OPEN SPACE.

Very often, in today's cities, open space has become a left over, the area between buildings, a place ~~to~~ ~~be~~ ~~used~~ ~~for~~ ~~cars~~ ~~and~~ ~~parking~~ ~~lots~~, or, at best, a place to beautify with plants and sculptures.

~~It~~ Yet to create a living fabric, ~~in~~ ~~the~~ ~~so~~ ~~called~~ "open space" is as important as the buildings, and experience shows, repeatedly, that the harmony, peacefulness, liveliness of a ~~city~~ city depends directly on the solidity, the "positiveness" of its ~~open~~ space, so that ~~the~~ each part of space, large or small, between buildings, is as solid, as definite, as seriously taken, as the most beautiful room.

~~The~~ ~~definition~~ ~~of~~ ~~open~~ ~~space~~ ~~must~~ ~~precede~~ ~~the~~ ~~buildings~~. This means that buildings are placed, above all, ~~so~~ in such a way as to create positive open space. ~~This~~

In order to make open space effectively, ^{its definition must} ~~precede~~ ~~the~~ ~~buildings~~. This means that buildings are placed, above all, ~~so~~ in such a way as to create positive open space. ~~This~~

The following rules apply this general principle to the layout of streets, pedestrian paths, ~~and~~ public squares, courtyards, and gardens, ~~and~~

Further, each part of the outdoor space, is a well defined entity in its own right, with its own center, its own boundary zone, its own feeling, its own character.

~~However, space is only formed by the actual location of buildings: it is only rarely that walls, hedges, trees, and other inexpensive items can be used to create space.~~

However, space is only formed by the actual location of buildings: it is only rarely that walls, hedges, trees, and other inexpensive items can be used to create space.

It is therefore necessary to formulate rules which work piecemeal, in such a way that as each new building increment, is introduced into the urban fabric, its location and shape, work to create more useful, positive, well-centered open spaces.

The following rules are intended to carry out this piecemeal plan. They are based on the patterns SMALL PUBLIC SQUARE, ACTIVITY NODES, PEDESTRIAN DENSITY IN PUBLIC PLACES, WALLED GARDENS, PEDESTRIAN STREETS, PROMENADE, COURTYARDS WHICH LIVE, BUILDING THOROUGHFARE, PARALLEL STREETS, LOOPED LOCAL ROADS, SMALL PARKING LOTS, BOUNDED PARKING, BUILDING HIERARCHY OF OPEN SPACE, EDGE, SOMETHING ROUGHLY IN THE MIDDLE, PATH SHAPE. Detailed functional arguments are given in those places.

CAR PATH NETWORK, ROAD CROSSING,

~~When~~ In the ~~urban~~ area where a building is being placed, it is possible to define all of the following ~~urban~~ entities.

1. The nearest ~~major~~ very large open space.
2. The nearest medium open space.
3. The nearest line of pedestrian movement.
4. The nearest line of traffic.

~~First~~ First, if there is no major open space near the building, then begin the creation of such a place.

If there is no major ~~or~~ open space











