Shape Grammars

LIFE AS A GRAMMARIST or
A CONSTRUCTIVE INQUIRY INTO SHAPES

Constructive Aspects

Generative Process/System

Algorithmic/Computational Systems

Design Models

Description Algebra

Procedure Arithmetic

Grammar Shape algorithms

Style Implementation

Paradigm

Transformation Grammar systems

Emergence ...

Weights

Continuity Sortal structures

some key ideas that we will touch upon in the context of grammars

life as a grammarist

the study of form as a central enterprise

a study of form that presupposes a set of basic tools for *formal* composition

a study of form that depends on *formal* elements and a system of rules in the widest sense possible

being a grammarist

objects have form

space has form

technology has form

culture has form

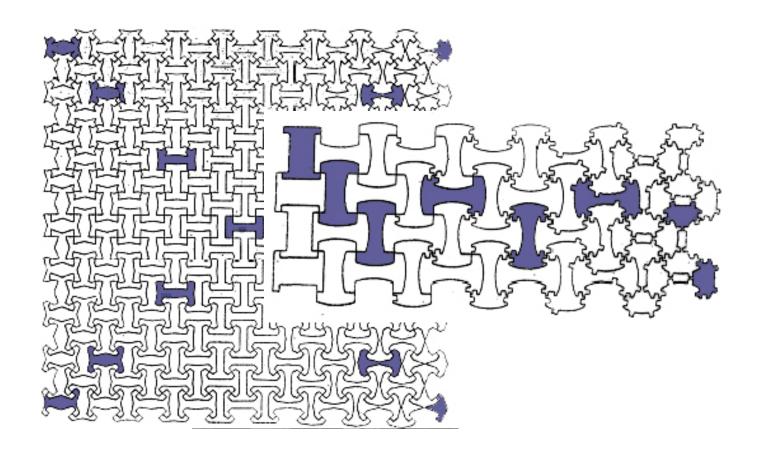
communities, societies, environments, maps and mappings – worlds and entities, in general, all have **form**

a grammarist is natural to any world that we inhabit or interact in

is a study of change

entities, ideas, designs, environments etc can be characterized - constructively - by a sequence of change — in particular, localised **change**

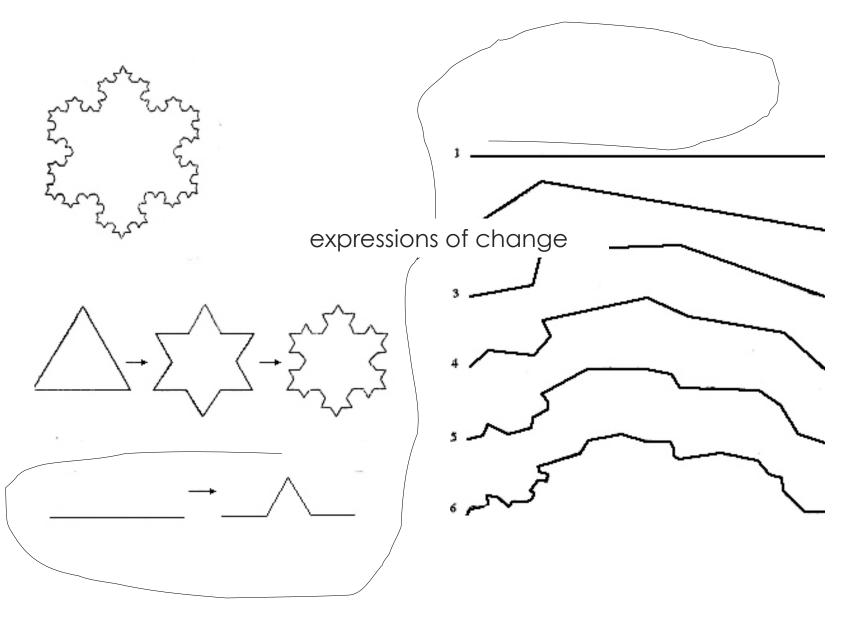
the study of form – a single dominant idea



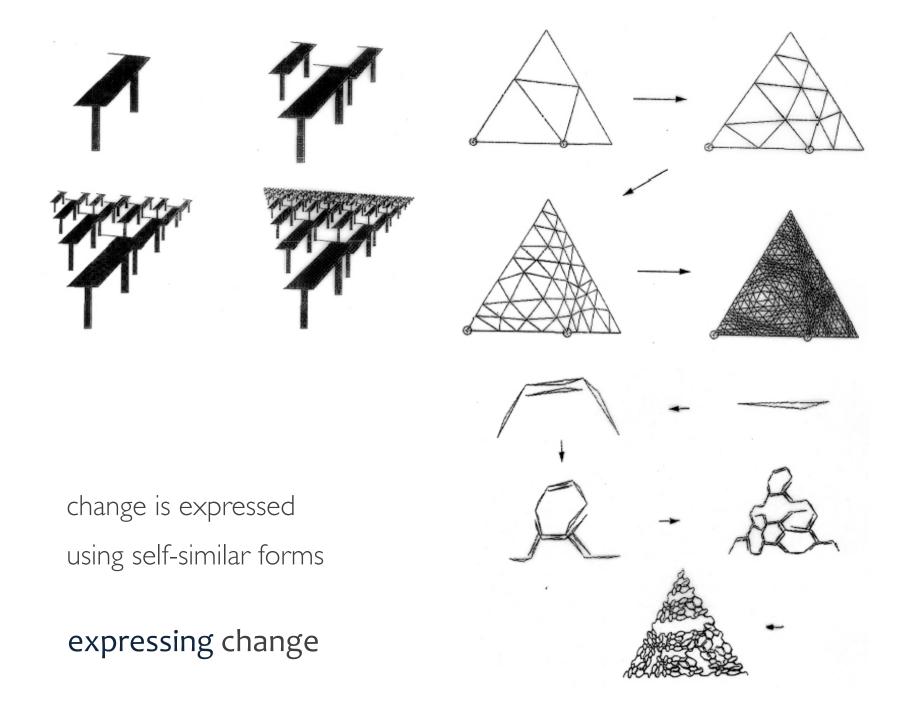
change

an understanding of change enables us to understand

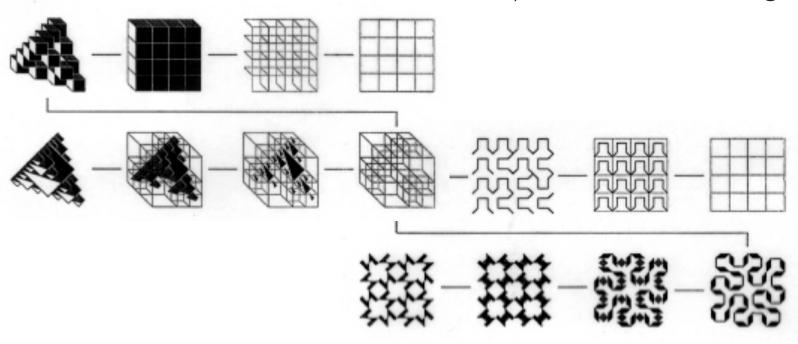
pattern, design, behavior, agency, simplicity, complexity, aesthetics, economy, ... beauty + nature



snowflakes and coastlines

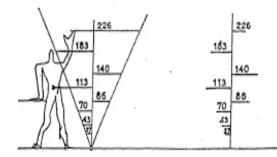


radically different forms may be related by similar kinds of changes

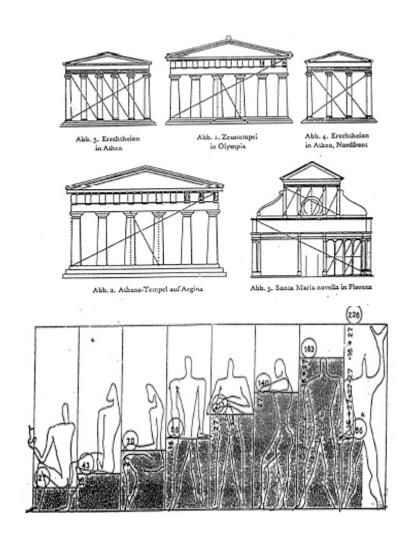


more on change

change is computation



computation and architecture/design are not alien to one another



"the search for rigorous formulation in *design* has a much more serious motivation than mere concern for logical niceties or the desire to purify well-established methods for *design* analysis

precisely constructed models for *design* structure can play an important role, both negative and positive, in the process of discovery itself

by pushing a precise but inadequate formulation to an unacceptable conclusion, we can often expose the exact source of this inadequacy and, consequently, gain a deeper understanding of the *design* data"

inspiration – noam chomsky

go to some grammar examples