



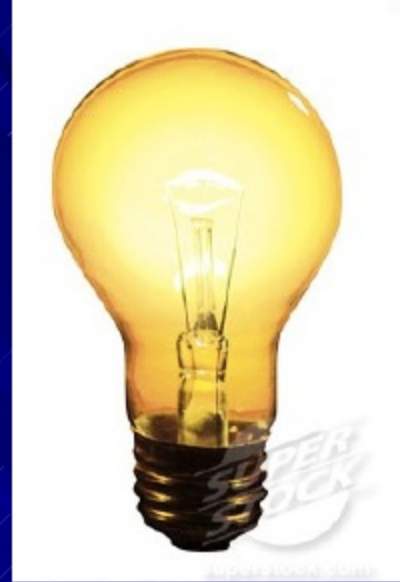
Architectural Design Lectures

Lecture 4

Design Concept

Lectures to
Architectural Design 1
October 2009
By: Dr. Yasser Mahgoub





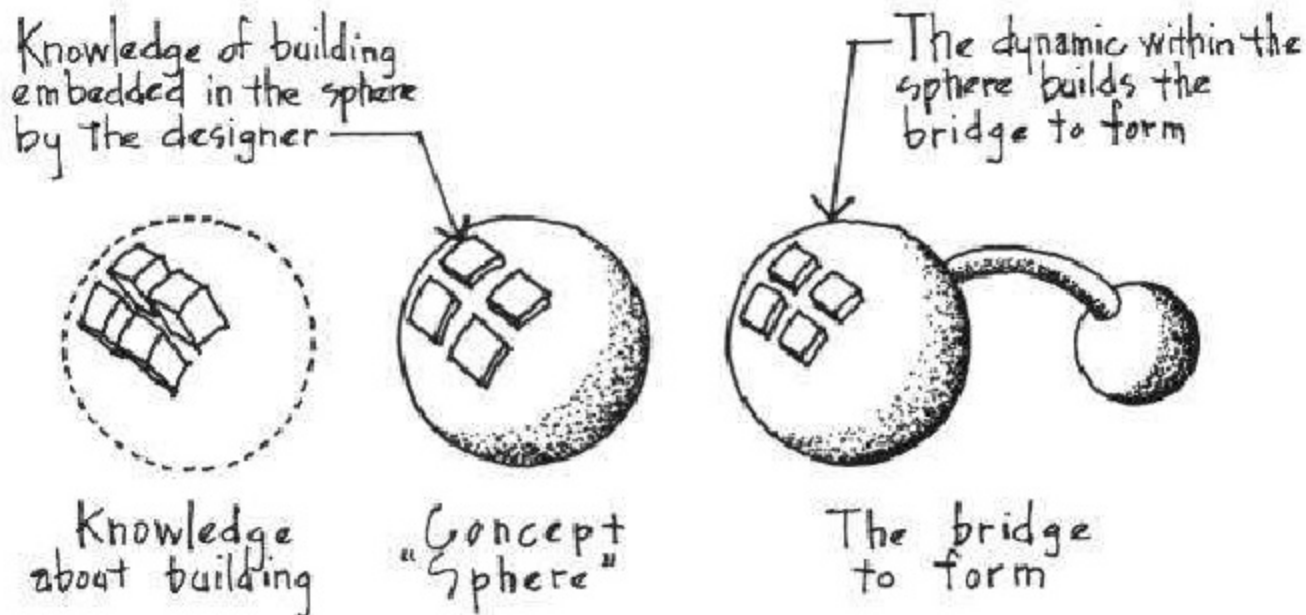
What is a concept?
Why is it important to have a
concept in your design?
How to communicate your
concept?

Definitions of **Concept**

- Idea
- Theory
- Notion
- *Parti* (French)
- Conception
- Opinion
- Abstraction
- Philosophy
- Belief
- Inspiration
- Image
- View
- Intention
- Plan
- Fancy
- Thought
- Impression
- Hypothesis
- Supposition
- ... DESIGN

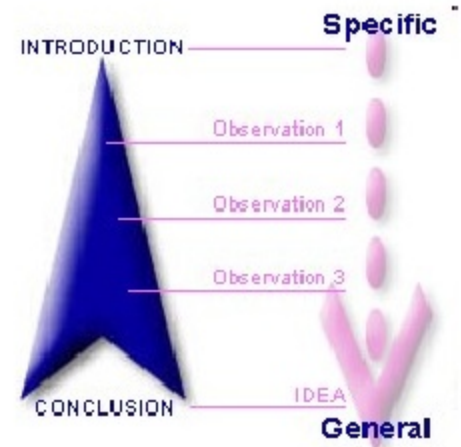
Introduction

- The design process works with information and ideas simultaneously on **many levels**.
- Designing is a reciprocal action and reflection.

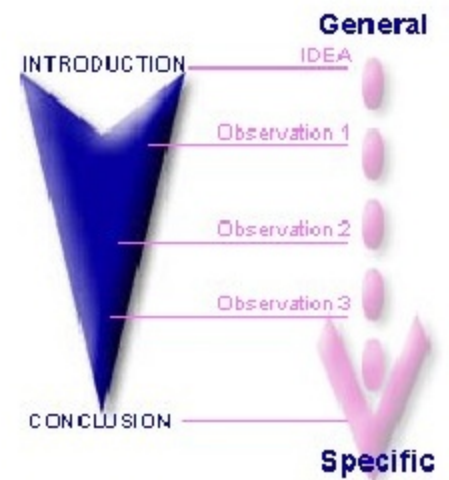


Introduction

- **Inductive reasoning or inductive logic**, is a type of reasoning which involves moving from the specific to the general.
- **Deductive reasoning or inductive logic**, is a type of reasoning which involves moving from the general to the specific.



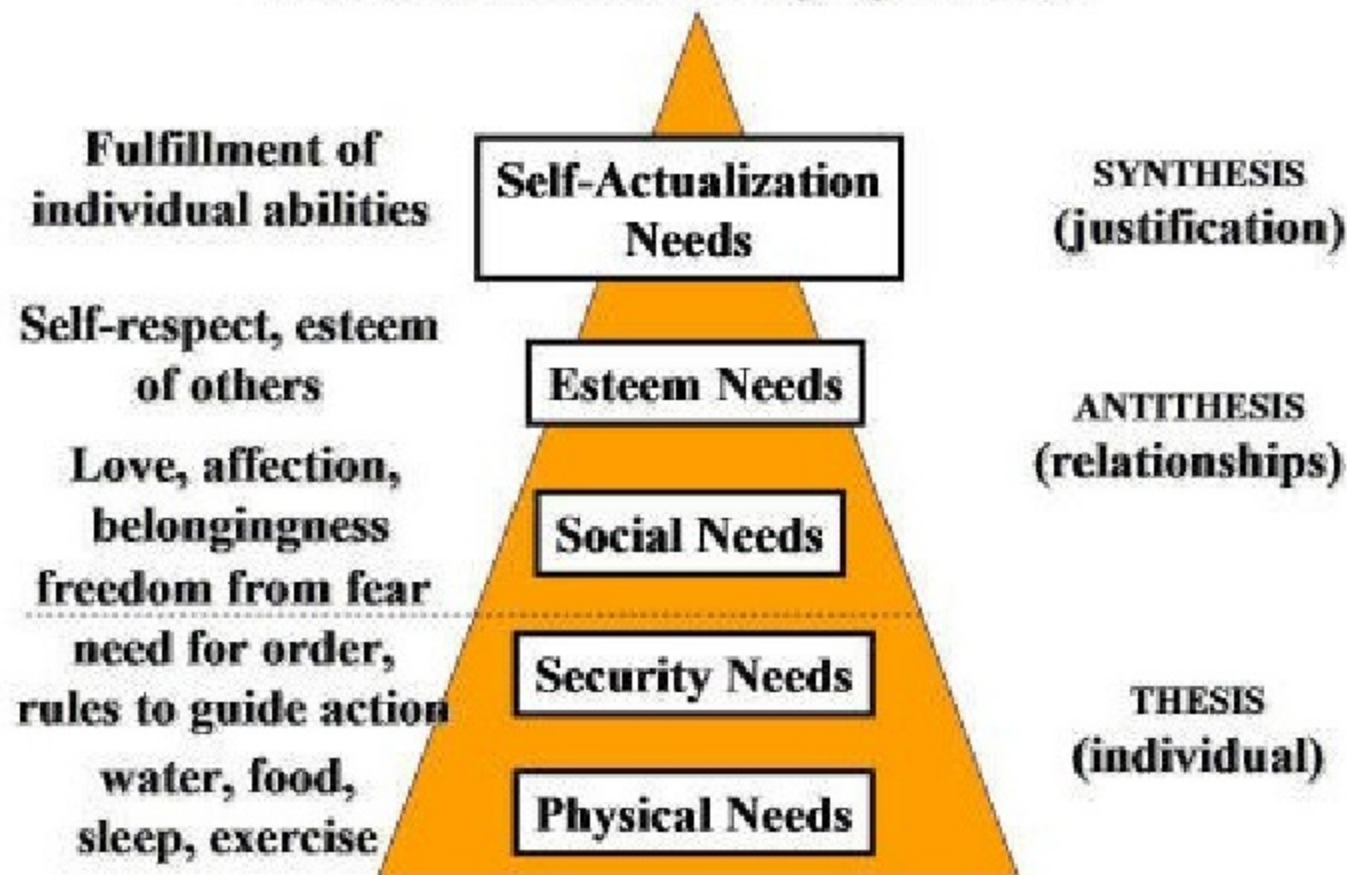
Inductive Reasoning
from Specific to General



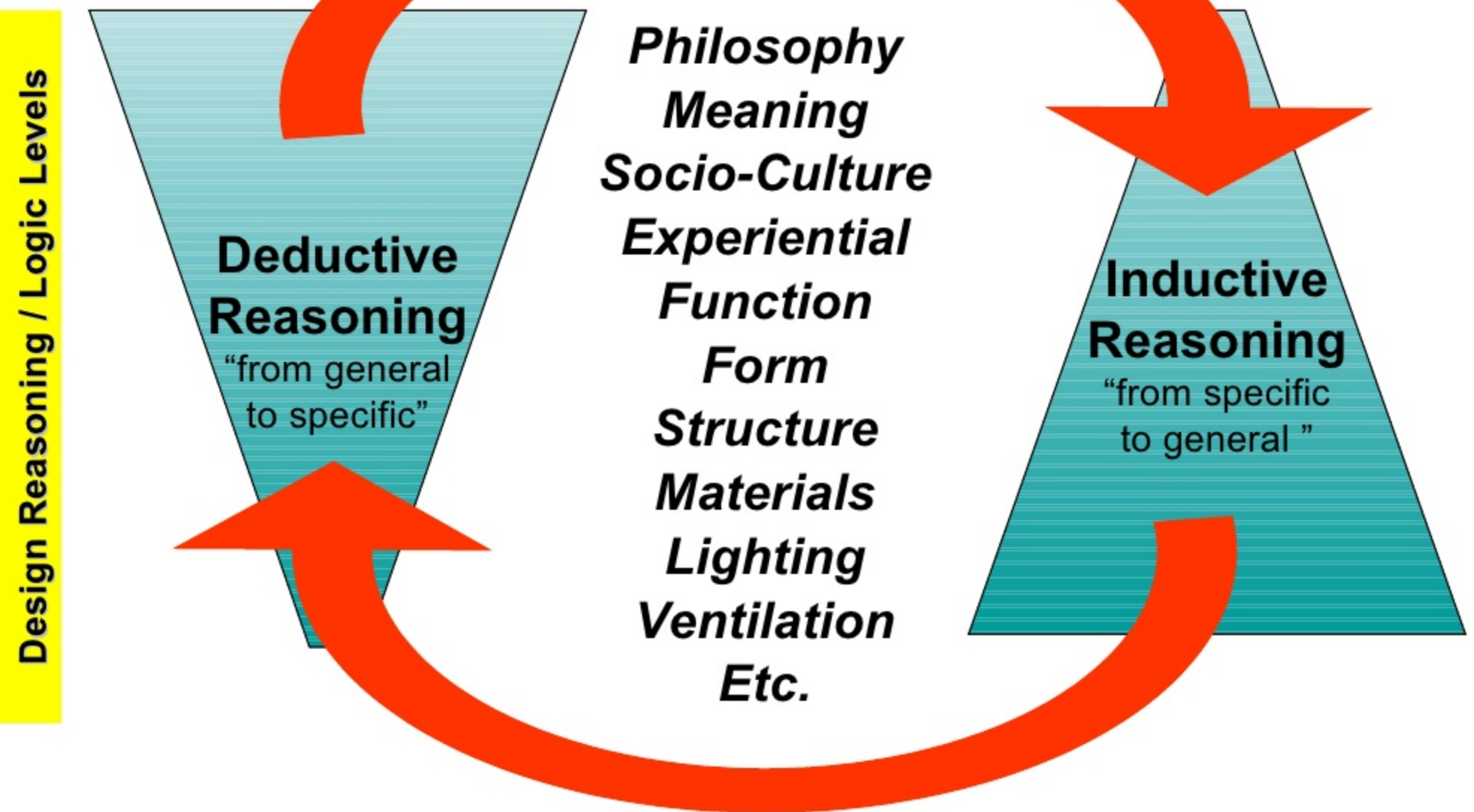
Deductive Reasoning
from General to Specific

Maslow's Hierarchy of Needs

Maslow's Hierarchy of Needs

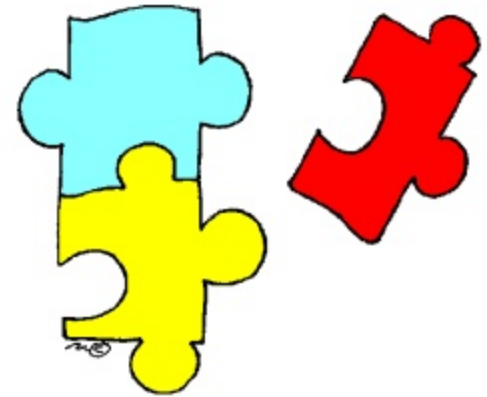


Inductive Deductive Reasoning



Introduction

- One assembles the puzzle picture by searching for fits; piece after piece is picked up, tried, and found to be a misfit until, finally, the right piece steps into place.
- The designers mind searches memory to find elements that meet their needs of the given problem.



Introduction

- Creativity comes into play and the efforts to find approaches that will be original, aesthetically satisfying, valid solutions to the problems defined through programming.
- Even experienced and highly skilled designers often find it difficult how this aspect of the design process works.
- They will say that they “think about “the problem until they are “hit by an idea””.



Dimensions of Concepts

Any building concept should provide:

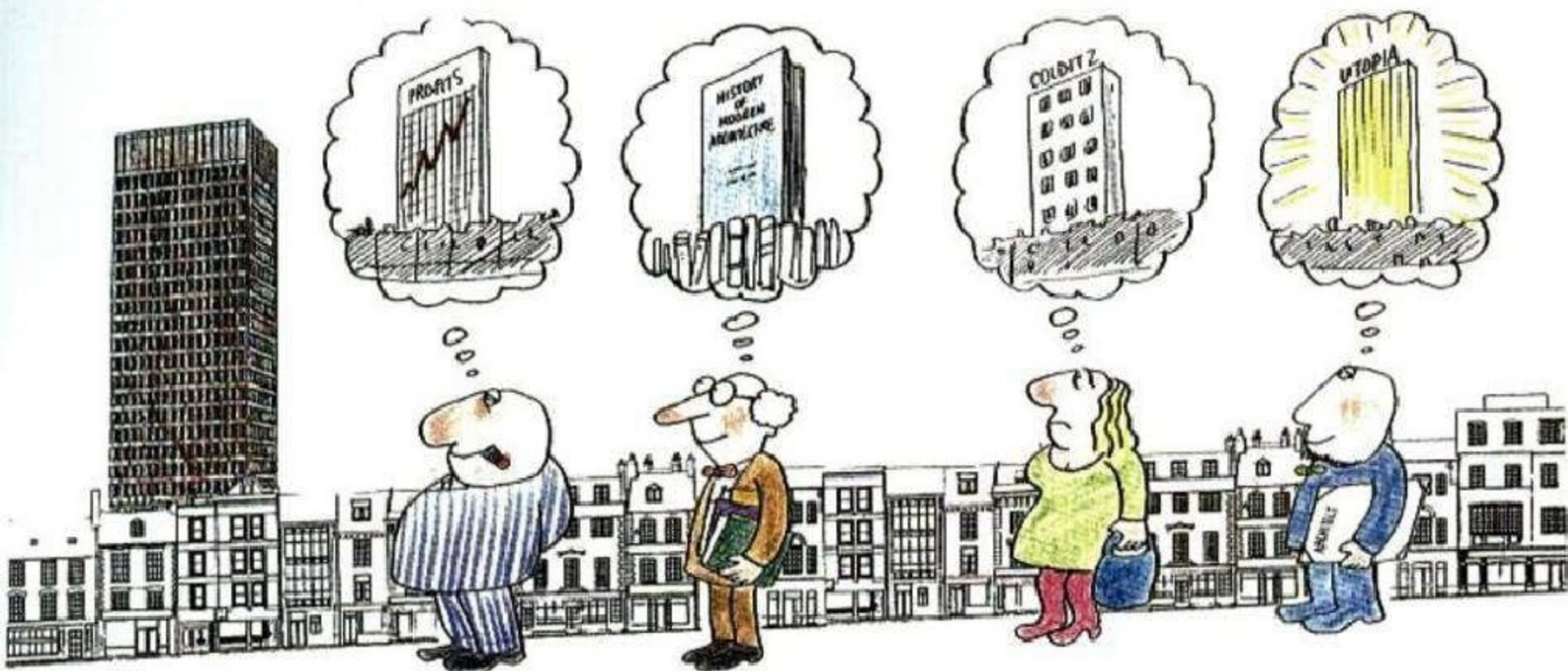
- Exterior Expression
- Interior Experience



Levels of Expression

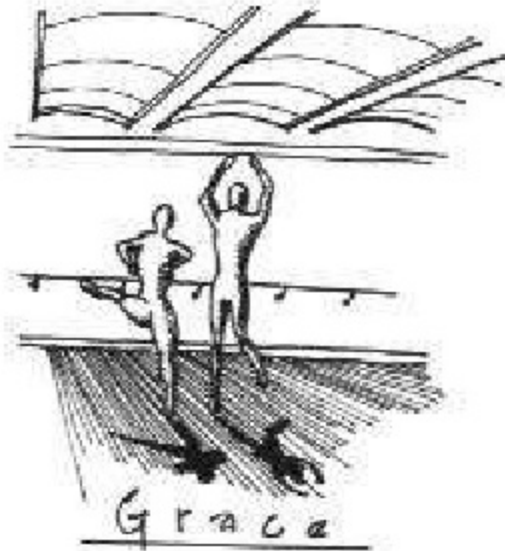
The concept should be appeal to both:

- The Normal Layman
- The Professional Specialist



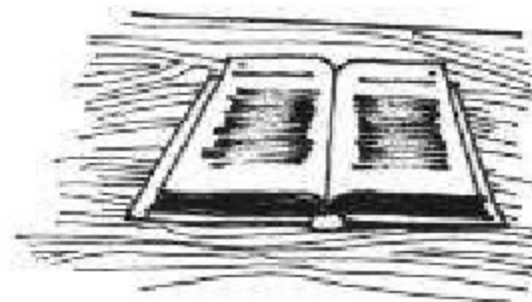
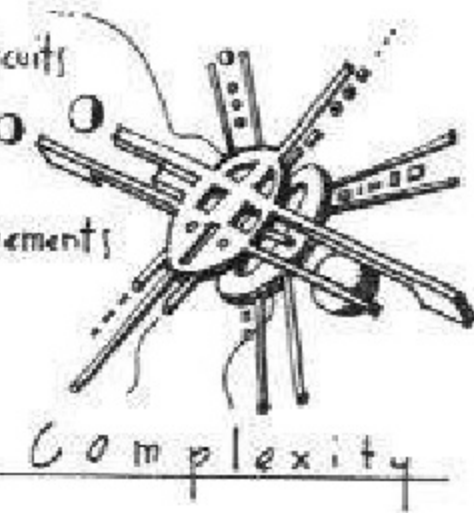
Concepts Translations – Visual and Verbal

Dance
Flight
Skill
Fluidity
Focus
Effort



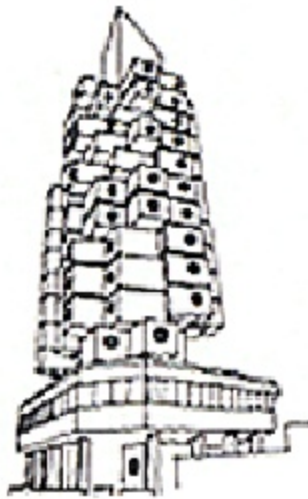
Symmetry
Nature
Tools
Ratio
Level
Justice

Integrated Circuits
Politics
Ecosystems
Planetary movements
Fractals
Music



Learning
Experience
Craft skills
Communication
Memory
Mastery

TOKYO



NAKAGIN TOWER, AFTER THE METAPHOR OF PIGEON STRUCTURE, KISHO KUROKAWA

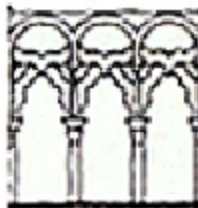
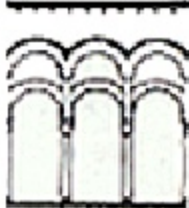
FUJIMINI CLUB IN THE FORM OF "QUESTIONMARK"

ARATA ISOSAKI



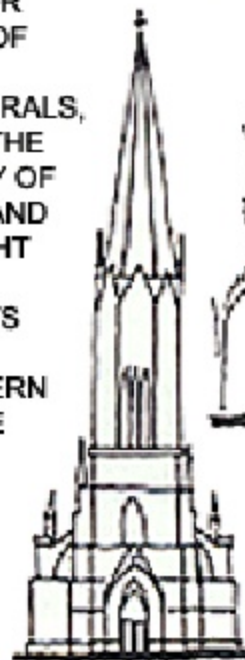
LIBRARY COMPLEX IN FORM OF "TOOTHPASTE"

REPETITIVE HEAVENS:



THE METAPHORIC BASE OF ISLAMIC ARCHITECTURE ORIGINATING IN THE KORAN

INTERIOR SPACE OF GOTHIC CATHEDRALS, AFTER THE QUALITY OF SPACE AND SUNLIGHT IN THE FORESTS OF NORTHERN EUROPE



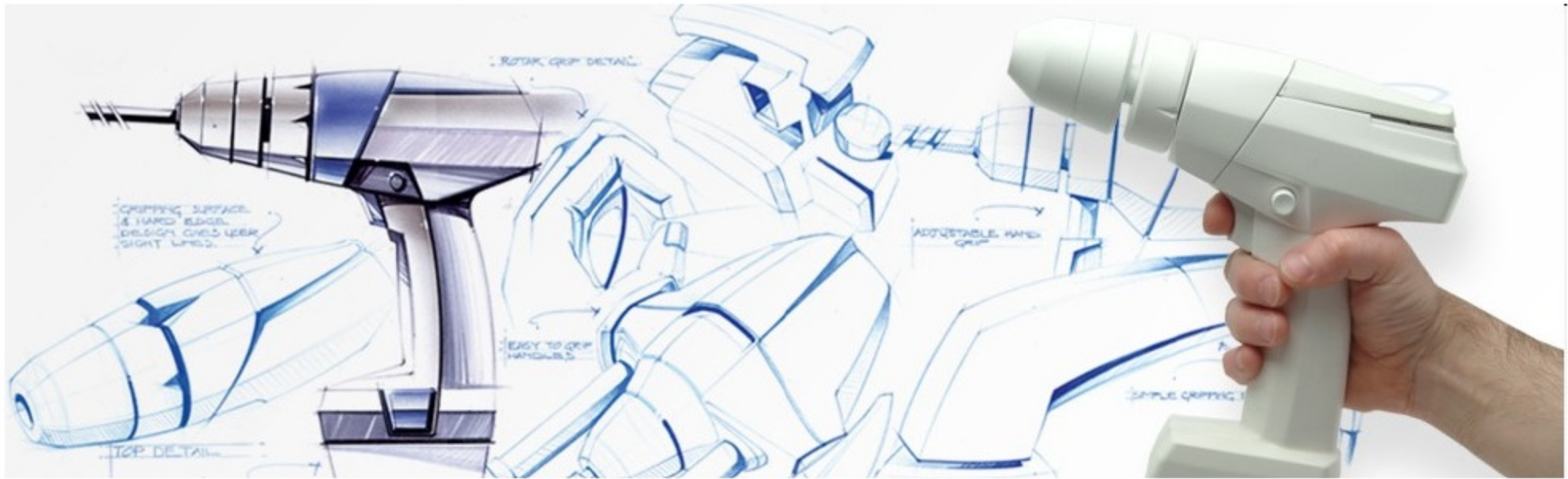
FOREST

There are three broad categories of metaphor:

- **Intangible:** The metaphorical departure is a concept, idea, human condition, or a particular quality (individuality, tradition, culture, community, etc)
- **Tangible:** The metaphorical departure stems strictly from some visual or material character (a house as a castle, the roof of a temple as the sky, etc)
- **Combined:** In this kind of metaphor the conceptual and the visual overlap (the computer and the beehive, both being boxes of relevant proportions, yet having the qualities of discipline, organization, cooperation).

SELECTED EXAMPLES OF WELL-KNOWN TANGIBLE METAPHORS

design concept generation



design concept generation





Concepts Criteria Summary

Concept Summary:

1. Symbolism

- building types and symbolic associations*
- create a listing of symbols for a project*
- choose a number of symbols to inform the design*
- simplicity has value*
- multiple, additive, and/or scalar concepts*

2. Sources

- designer as source*
- client as source*
- site sources: immediate and surrounding vicinity*
- culture should not be overlooked*
- the building type and its attendant history*
- do not forget the user*
- collect and sift*
- employ verbal and nonverbal study*
- use language for organization*
- use sketching for integration*
- concepts are the ideas behind a project*

3. Objective to subjective

- concept assembly begins the trip into creativity*
- concepts may organize space and form*
- concepts may suggest material, vocabulary*
- check conceptual to functional "fit"*

4. Changes

- change is inevitable*
- objective changes may effect concept structure*
- the importance of master principles*
- design is a dynamic environment*
- be prepared and remain flexible*

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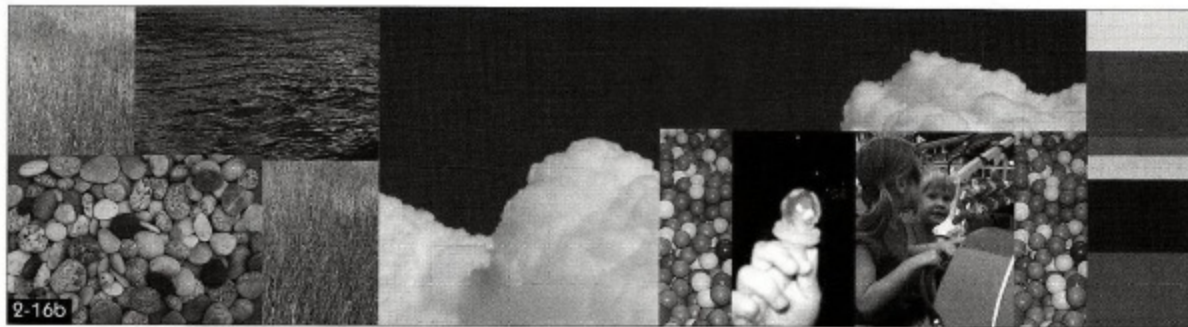


FIGURE 2-16a

Mood or inspiration board for the sample project, made with a cut-and-paste collage technique.

FIGURE 2-16b

Mood or inspiration board for the sample project, made using Photoshop and color sampling the images to create a potential palette. A color mood board is shown in Figure C-1a on page 53.