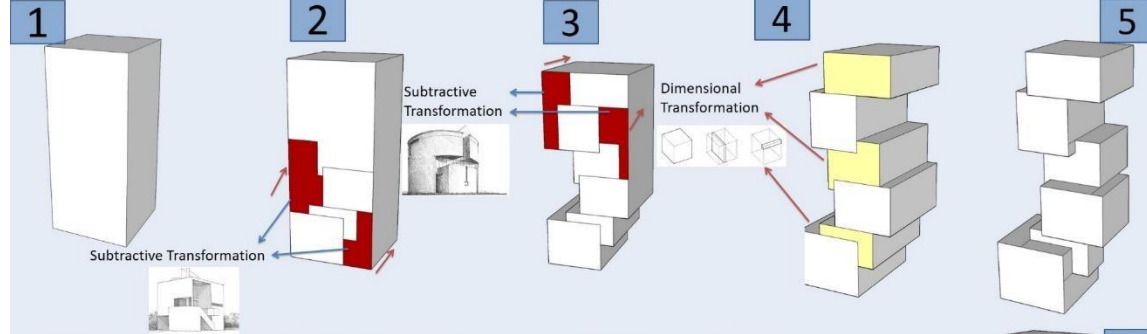


ART & ARCHITECTURE PRICIPLES

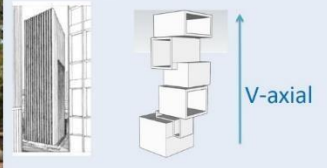
PREPARED BY : REBIN MOHAMMED AHMAD
KEU CARD NUMBER :8530

Form & Principles Analysis



Architect: atelierenarchitecten, Eindhoven, the Netherlands
 Location: Reusel
 Area: 100 m2
 Photographs
 Year: 2008-2009

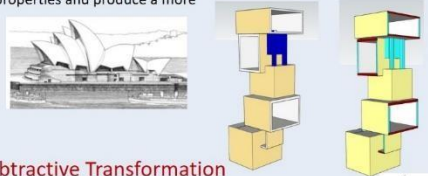
V-axial organization around strong center vertical axis



repetition of form The act or process of repeating formal elements or motifs in a design.



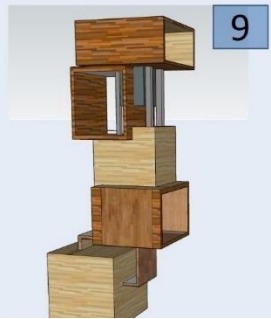
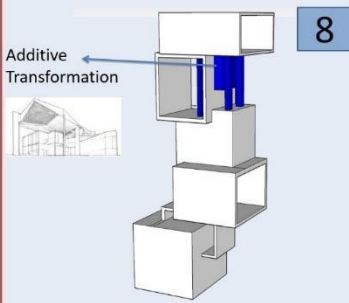
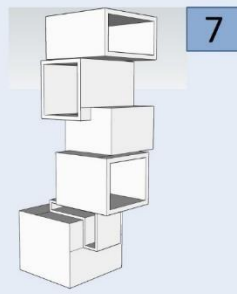
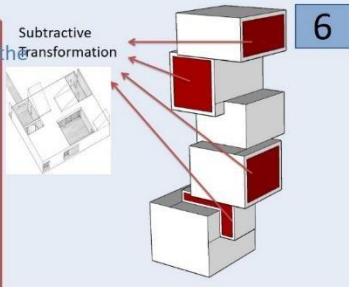
contrast of direction and between mass and void Opposition or juxtaposition of dissimilar elements in a work of art to intensify each element's properties and produce a more



Subtractive Transformation
 A form can be transformed by subtracting a portion of its volume. Depending on the extent of the subtractive process, the form can retain its initial identity or be transformed into a form of another family

Additive Transformation
 A form can be transformed by the addition of elements to its volume. The nature of the additive process and the number and relative sizes of the elements being attached determine whether the identity of the initial form is altered or retained.

TRANSFORMATION OF FORM



Directonality

Orgnaization around
astrong central axis



- Cut
- push
- Add

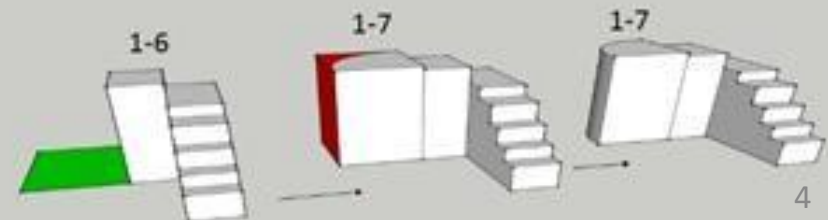
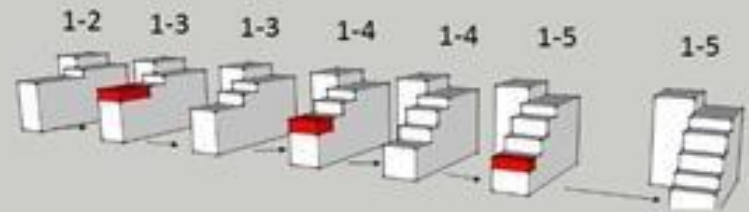
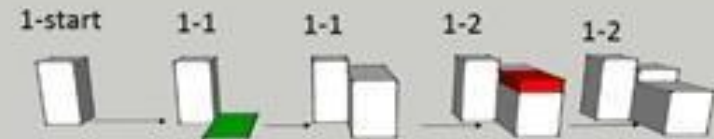
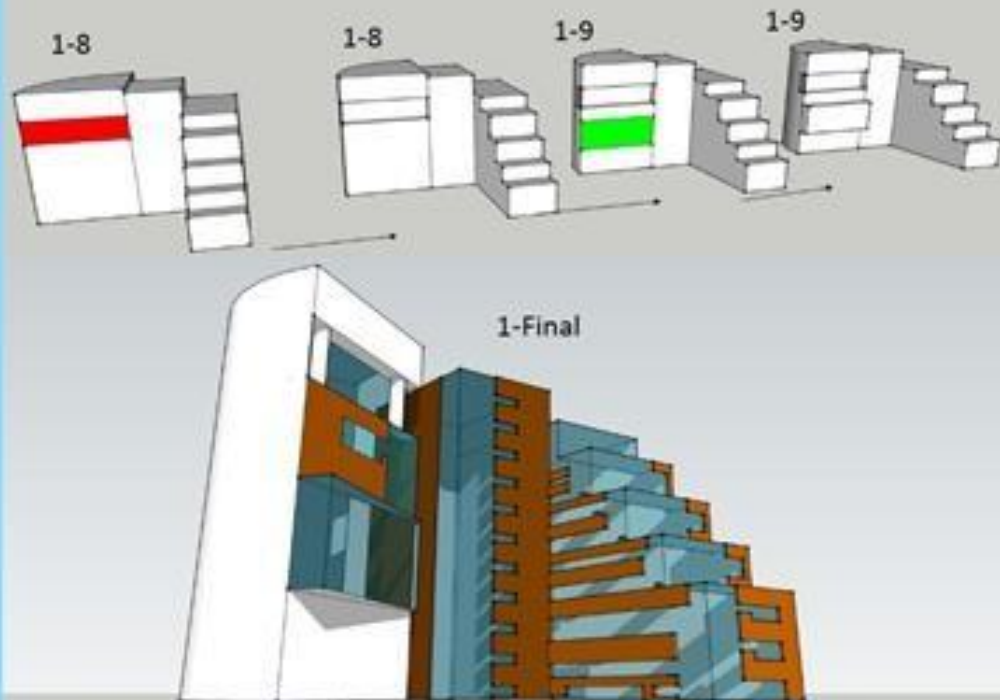
Gradation

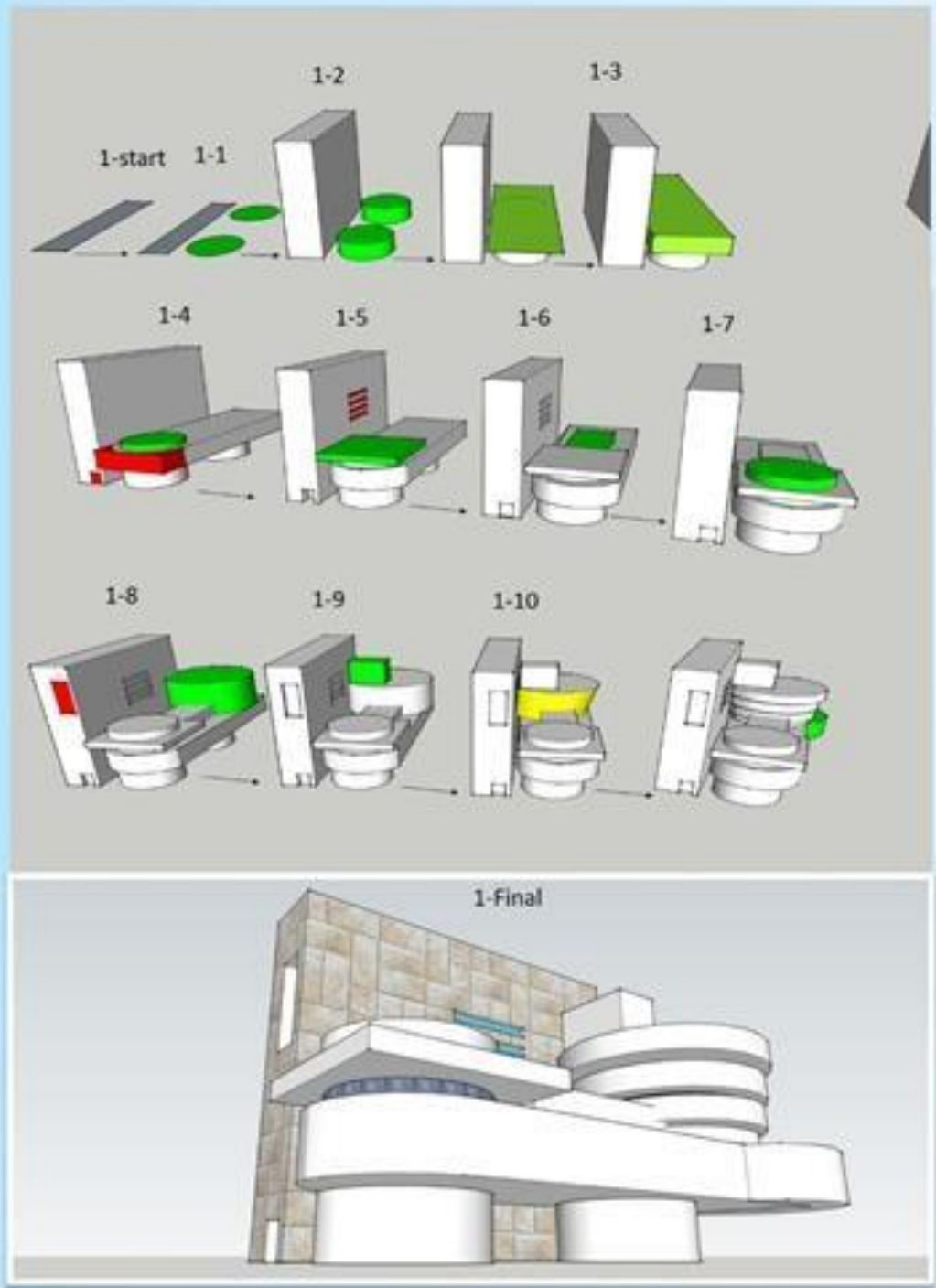
The prnciple of
hlerarchy implles that
most hf not all
archltectural
composition real
differences exist among
their forms and spaces.



Repetition

The simplest of
repetitton is a
linear pattern of
redundant
elements





Hierarchy by size

A form or space may dominate an architectural composition by being significant in size form all the other elements in the composition

Gradation

The principle of hierarchy implies that most of not all architectural composition real differences exist among their forms and spaces.

Repetition

The simplest of repetition is a linear pattern of redundant elements

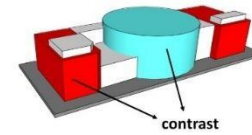




Principles analysis

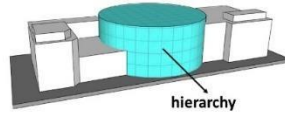
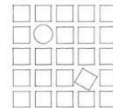
1- Contrast

A contrast in form, geometry, or orientation can visually reinforce the identity and independence of the sunken field from its larger spatial context.



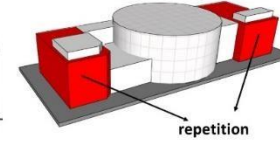
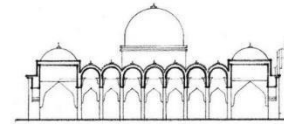
2- Hierarchy by Shape

A form or space can be made visually dominant and thus important by clearly differentiating its shape from that of the other elements in the composition. A discernible contrast in shape is critical, whether the differentiation is based on a change in geometry or regularity.

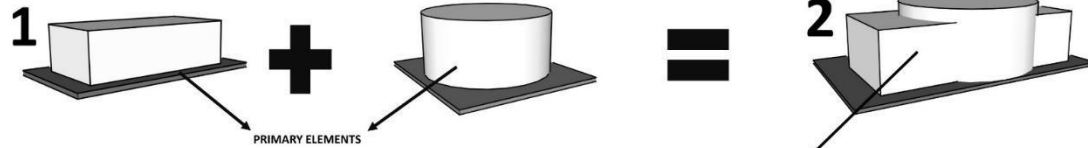


3- Repetition :

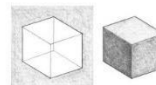
The act or process of repeating formal elements or motifs in a design.



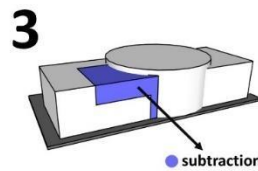
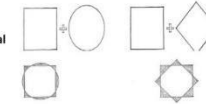
Form analysis



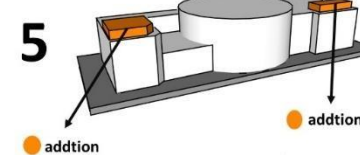
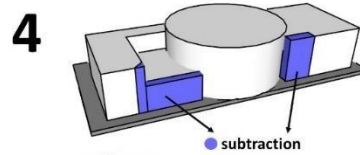
PRIMARY ELEMENTS :
the three-dimensional element in the vocabulary of architectural design, a volume can be either a solid—space displaced by mass—or a void—space contained or enclosed by planes.



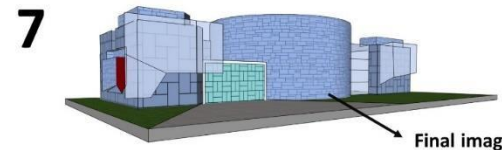
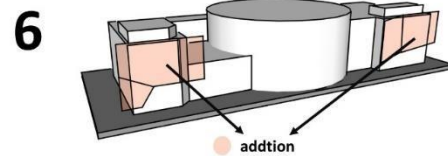
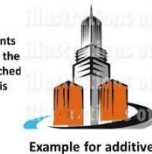
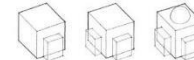
Merge :
The two forms can subvert their individual identities and merge to create a new composite form.



Subtractive Transformation
A form can be transformed by subtracting a portion of its volume. Depending on the extent of the subtractive process, the form can retain its initial identity or be transformed into a form of another family.

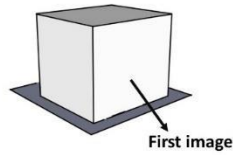


Additive Transformation
A form can be transformed by the addition of elements to its volume. The nature of the additive process and the number and relative sizes of the elements being attached determine whether the identity of the initial form is altered or retained.

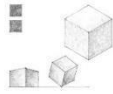


Form analysis

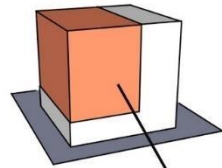
1



primary shape :
The primary shapes can be extended or rotated to generated volumetric forms or solids which are distinct , regular , and easily recognizable .

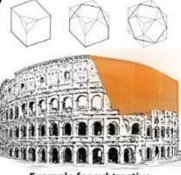


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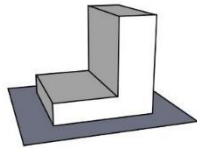
Subtraction

Subtractive Transformation:
A form can be transformed by subtracting a portion of its volume.

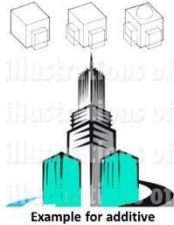


Example for subtractive

3

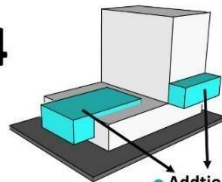


Additive Transformation:
A form can be transformed by the addition of elements to its volume.



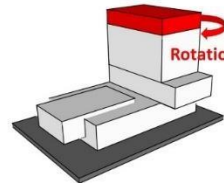
Example for additive

4



Addition

5

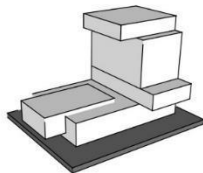


Rotation 90°

Rotation :
Rotational surfaces are generated by rotating a plane curve about an axis.

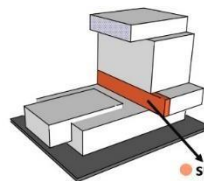


6



Example for rotated

7



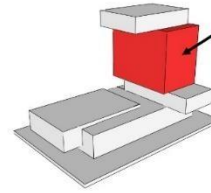
subtraction



Principles analysis

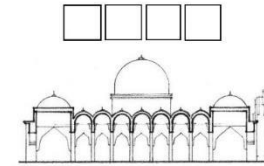
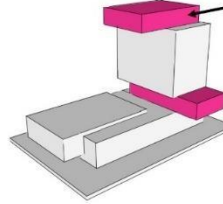
1- Hierarchy by Size

A form or space may dominate an architectural composition by being significantly different in size from all the other elements in the composition.



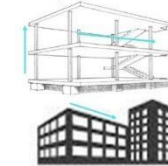
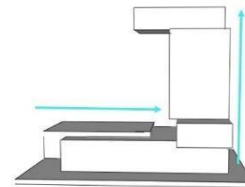
2- Repetition :

The act or process of repeating formal elements or motifs in a design .



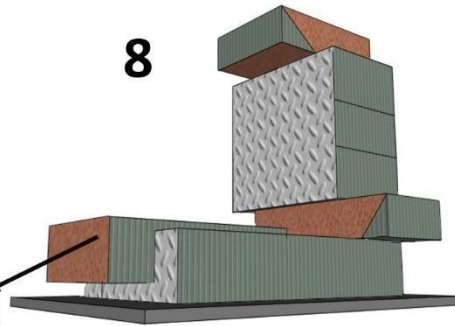
3- Contrast

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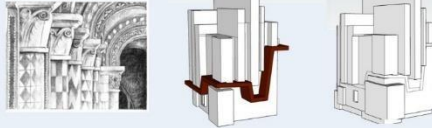
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Final image

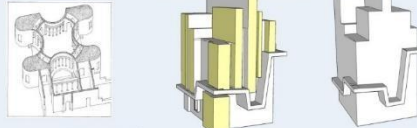




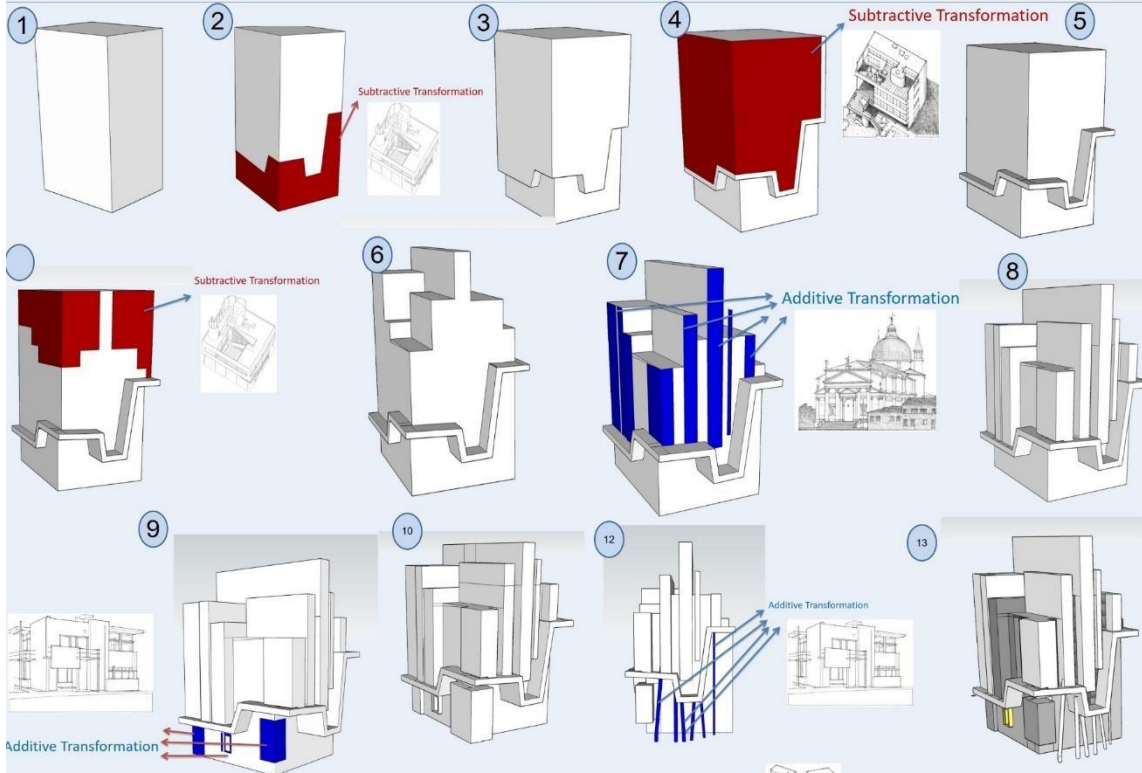
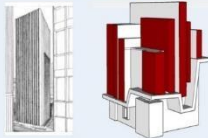
repetition of form The act or process of repeating formal elements or motifs in a design.



Datum a line, plane, or volume that, by its continuity and regularity, serves to gather, measure, and organize a pattern of forms and spaces.



V-axial organization around strong center vertical axis



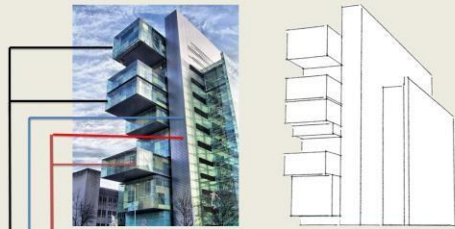
Subtractive Transformation
 A form can be transformed by subtracting a portion of its volume. Depending on the extent of the subtractive process, the form can retain its initial identity or be transformed into a form of another family



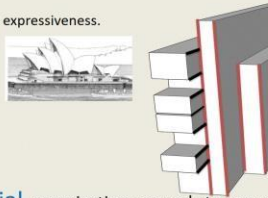
Additive Transformation
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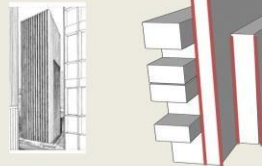
TRANSFORMATION OF FORM



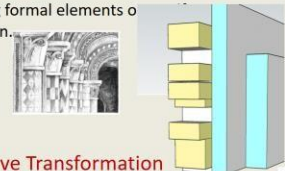
contrast of direction and material between glass and solid Opposition or juxtaposition of dissimilar elements in a work of art to intensify each element's properties and produce a more dynamic expressiveness.



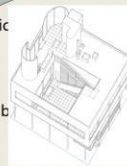
V-axial organization around strong center vertical axis



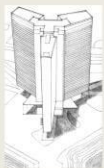
repetition of form The act or process of repeating formal elements in a design.



Subtractive Transformation
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● Subtractive Transformation



● Additive Transformation



● Additive Transformation



● Subtractive Transformation

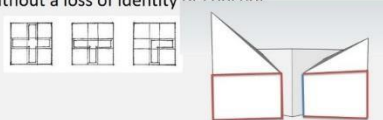


● Additive Transformation





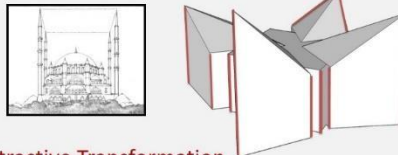
Transformation of form The principle that an architectural concept, structure, or organization can be altered through a series of discrete manipulations and permutations in response to a specific context or set of conditions without a loss of identity or concept



contrast of direction Opposition or juxtaposition of dissimilar elements in a work of art to intensify each element's properties and produce a more dynamic

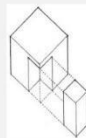


V-axial organization around strong center vertical axis



Subtractive Transformation

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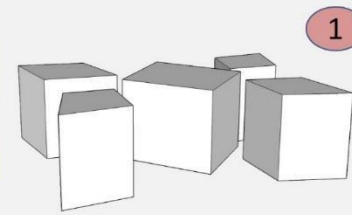


Additive Transformation

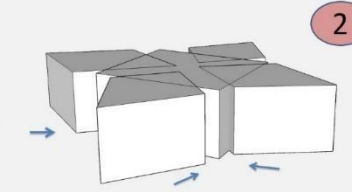
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TRANSFORMATION OF FORM



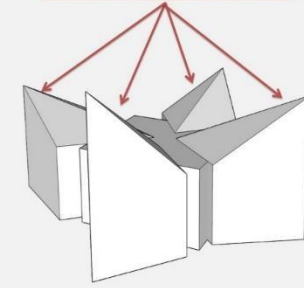
1



2

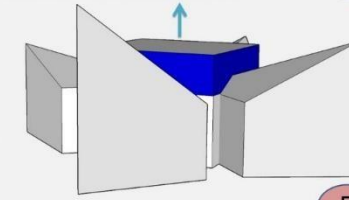
Transformation of form

3

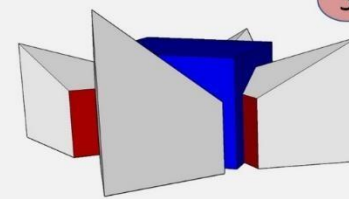


Additive Transformation

4

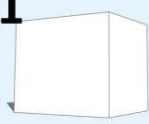


5



FORM ANALYSIS:

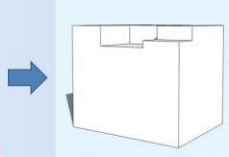
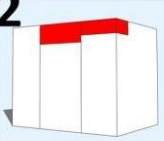
1



Cube : A prismatic solid bounded by six equal square sides , the angle between any two adjacent faces Being a right angle



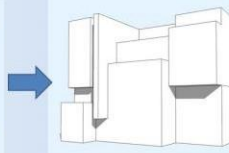
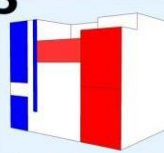
2



Subtractive Transformation



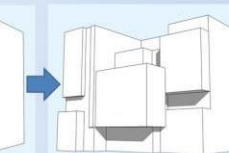
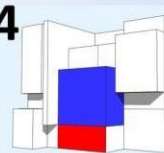
3



Subtractive Transformation
Additive Transformation



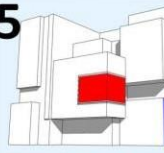
4



Subtractive Transformation
Additive Transformation



5



Subtractive Transformation
Additive Transformation



6



Subtractive Transformation
Additive Transformation



7



Subtractive Transformation : A form can be transformed by subtracting a portion of its volume.

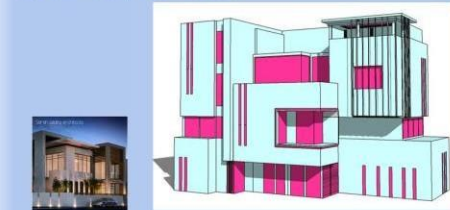
Additive Transformation : A form can be transformed by the addition of elements to its volume.



PRINCIPLES ANALYSIS:

Contrast between void and solid :

Opposition or juxtaposition Of dissimilar elements in a work of art to Intensify each element's properties and Produce more dynamic expressiveness.



Repetition of shape (Rectangle):

The act or process of repeating formal Elements or motifs in a design.





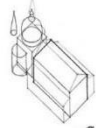
1-Hierarchy The articulation of the importance or significance of a form or space by its size, shape, or placement relative to the other forms and spaces of the organization.

2-Contrast Opposition or juxtaposition of dissimilar elements in a work of art to intensify each element's properties and produce a more dynamic expressiveness.

3-Repetition The act or process of repeating formal elements or motifs in a design.

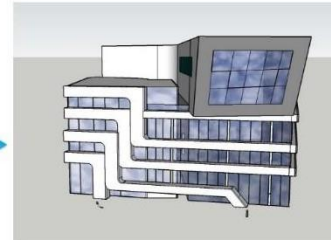
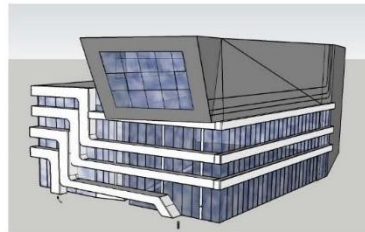
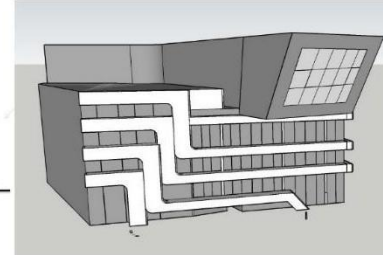
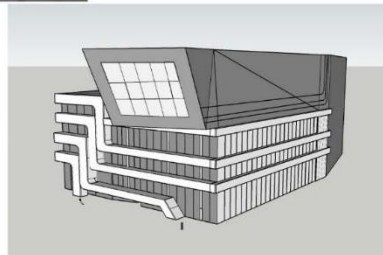
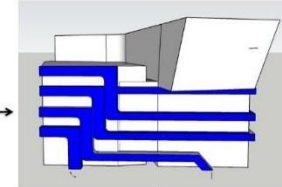
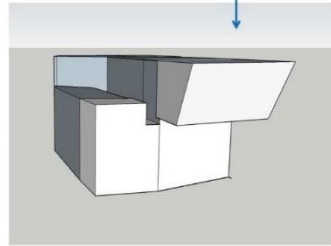
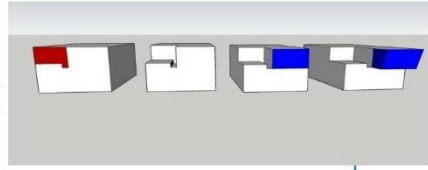
Subtractive Transformation

A form can be transformed by subtracting a portion of its volume. Depending on the extent of the subtractive process, the form can retain its initial identity or be transformed into a form of another family. For example, a cube can retain its identity as a cube even though a portion of it is removed, or be transformed into a series of regular polyhedrons that begin to approximate a sphere



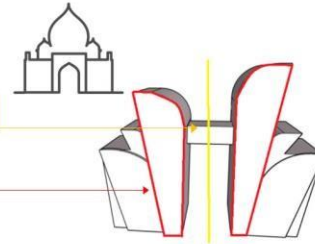
Additive Transformation

A form can be transformed by the addition of elements to its volume. The nature of the additive process and the number and relative sizes of the elements being attached determine whether the identity of the initial form is

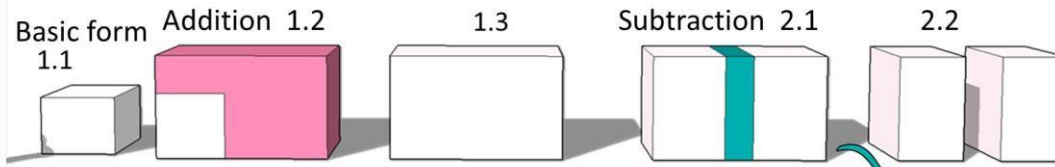




Symmetry: the balance distribution and arrangement of equivalent forms and spaces on opposite axis.



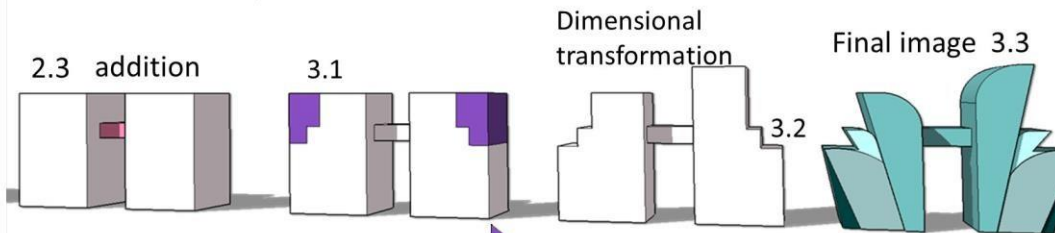
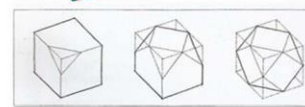
Repetition: the act or process of repeating form elements or motifs in a design



Additive transformation: a form can be transformed by the addition of elements to its volume.



Subtractive transformation: a form can be transformed by subtracting a portion of its volume



Dimensional transformation: a form can be transformed by altering one or more of its dimensions and still retain its identity.



- Additive Transformation
- Subtractive Transformation
- Dimensional Transformation