

I. Shapes, Scale and Proportions

Scale and Proportion

Scale

1/ The relation between the real size of something and its size on a map, model, or diagram:

a scale of 1:50,000.

This map is large scale (= things are shown in detail).

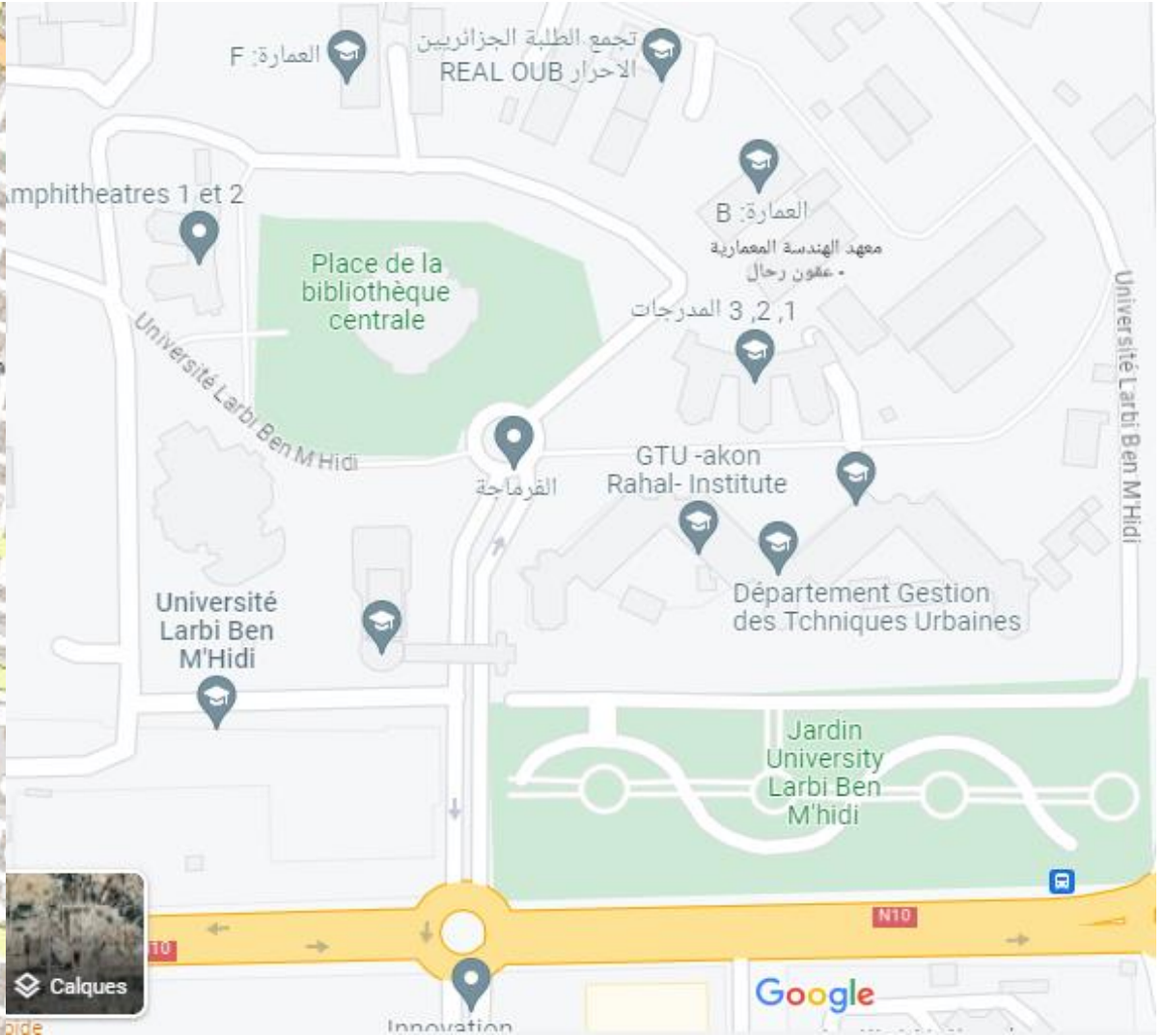
2/ A scale is a set of levels or numbers which are used in a particular system of measuring things or are used when comparing things.

3/ The size or level of something, especially when this is large.



For the urbanist:

Different plans = different Levels = different scales.



Human scale

Human scale is the set of physical qualities, and quantities of information, characterizing the human body, its motor, sensory, or mental capabilities, and human social institutions.



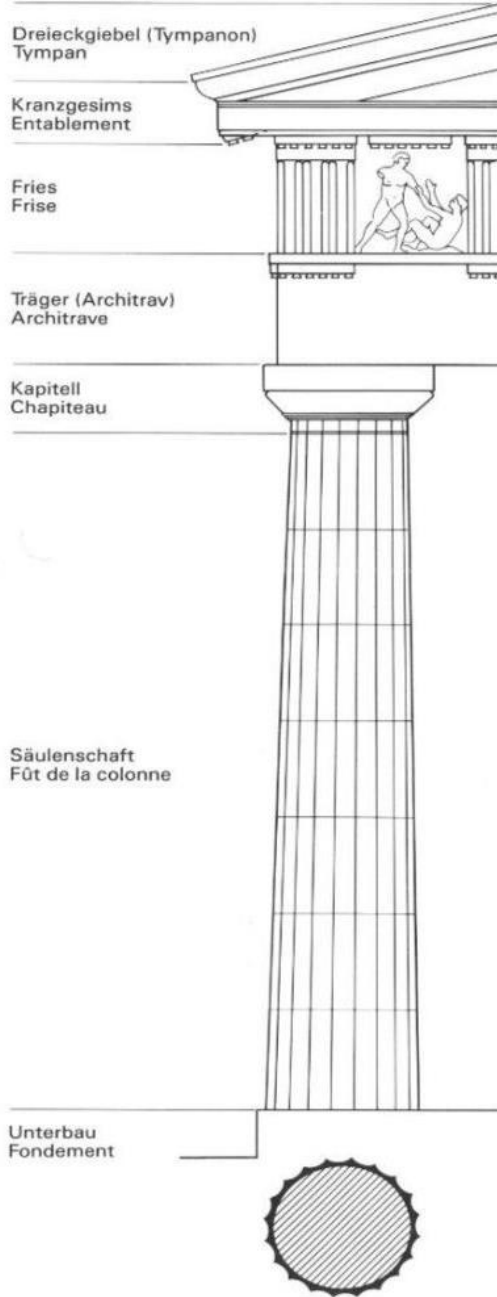
Proportion

1/ The number or amount of a group or part of something when compared to the whole.

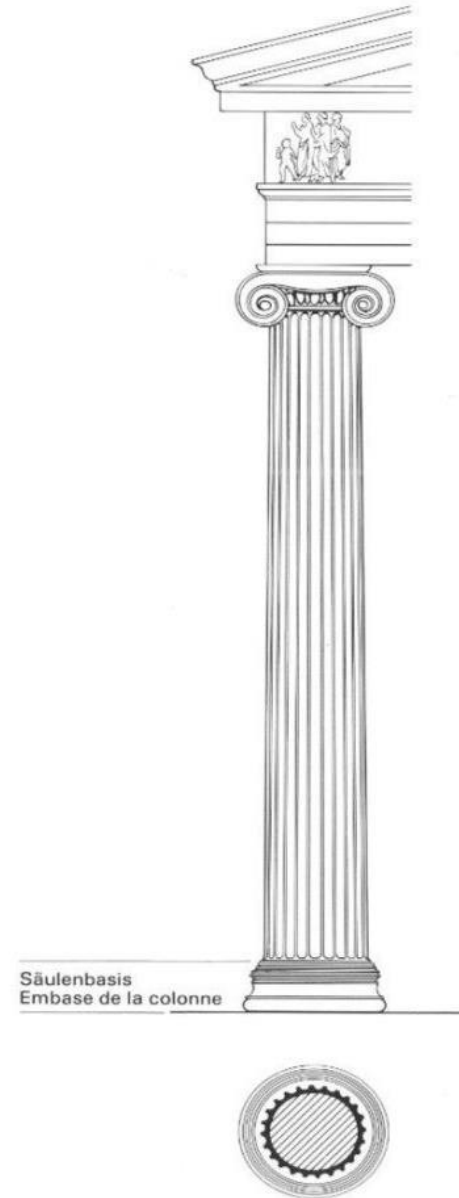
2/ The number, amount, or level of one thing when compared to another.

1/
The number or amount of
a group or part of
something
when compared to
the whole.

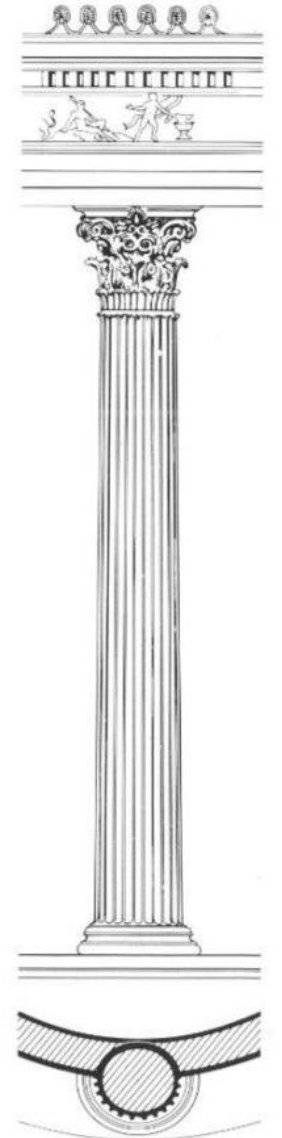
Dorische Ordnung
Ordre dorique



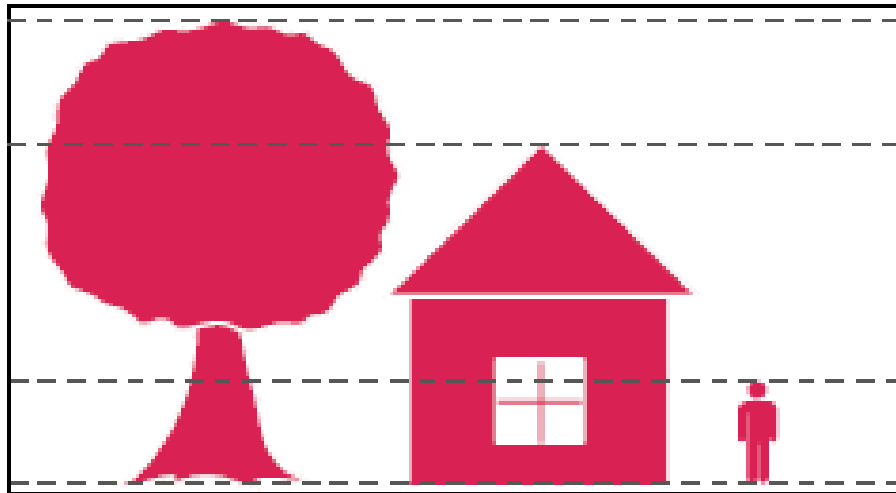
Ionische Ordnung
Ordre ionique



Korinthische Ordnung
Ordre corinthien

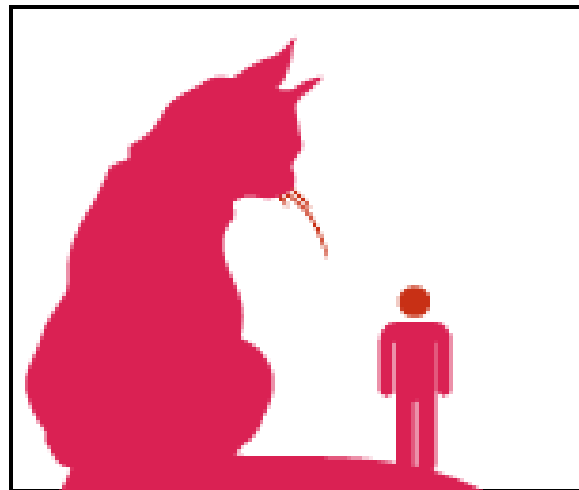


2/ The number, amount, or level of one thing when compared to another.



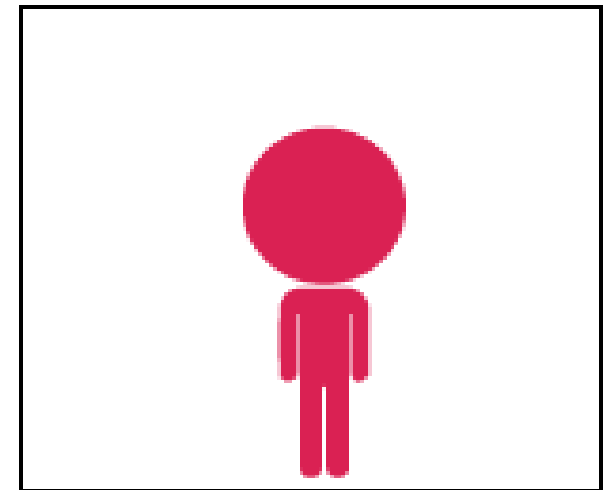
exactes

Exact



exagérées

Exaggerated



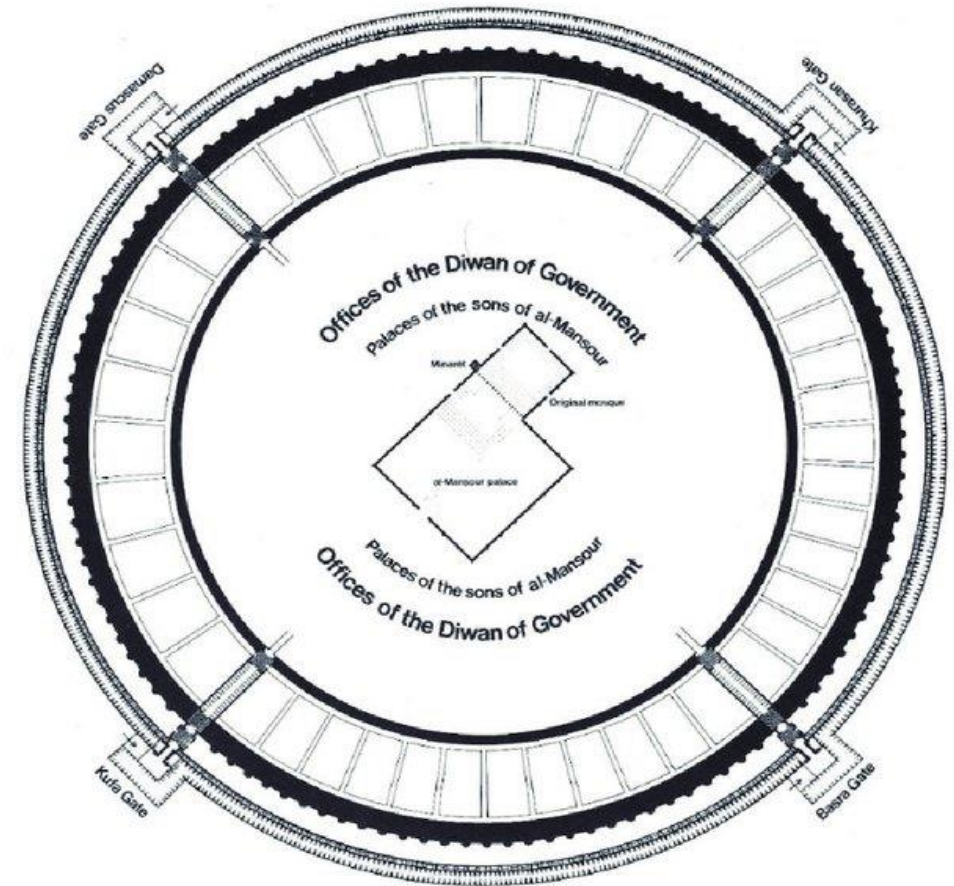
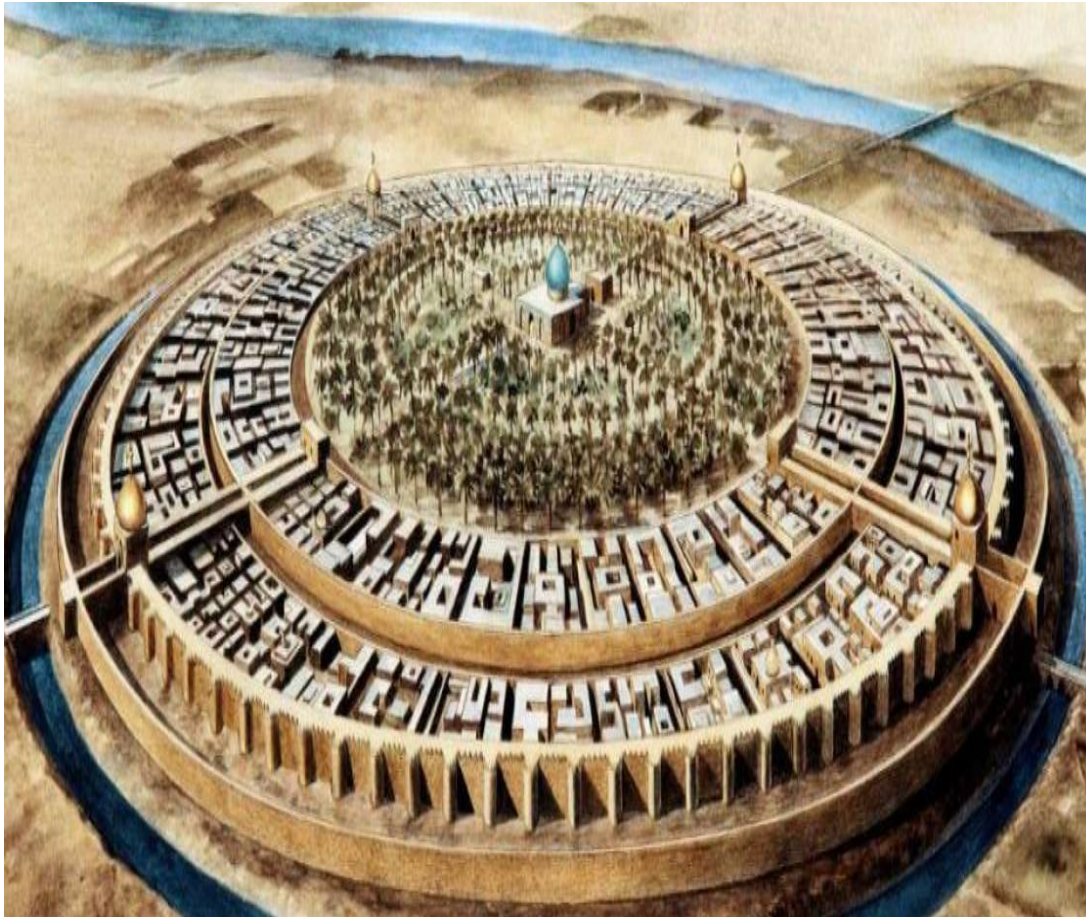
déformées

Distorted

Do we need shapes in the city?

Round City of Bagdad

768-762



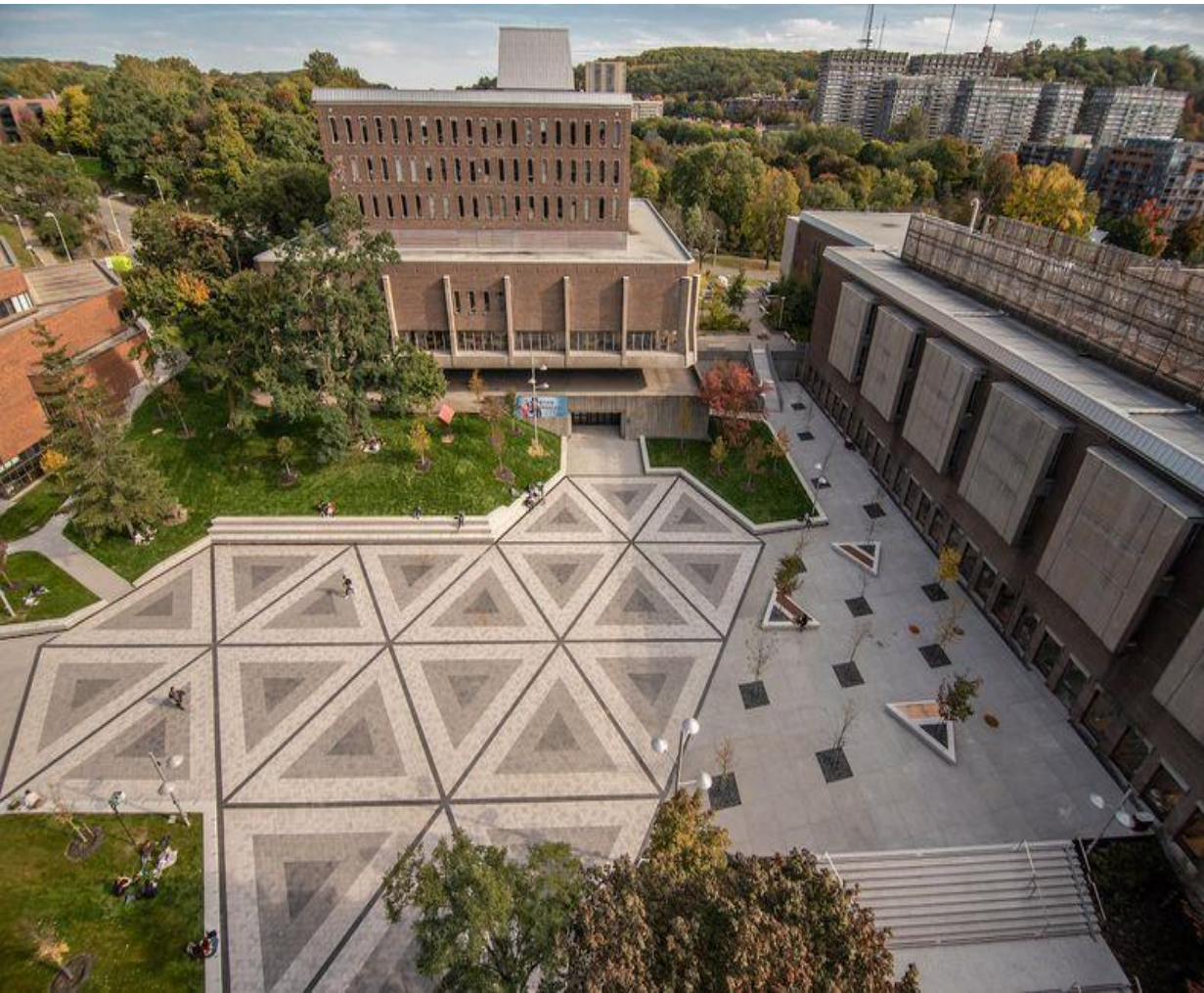
Superblocks Barcelona



Ghardaïa city



A Square



Parc - Brasilia







Types of shapes:

There are two main types of shapes:

1. Geometric shapes.
2. Organic shapes.

Three types of forms (shapes) are also distinguished:

1) Practical form that meets the needs of humans.

2) Technical form that meets the requirements of materials.

3) Aesthetic form that responds to the demands of the artwork and humans.

Genesis of shapes:

Genesis definition: the origin or mode of formation of something.

That means, how to draw shapes?

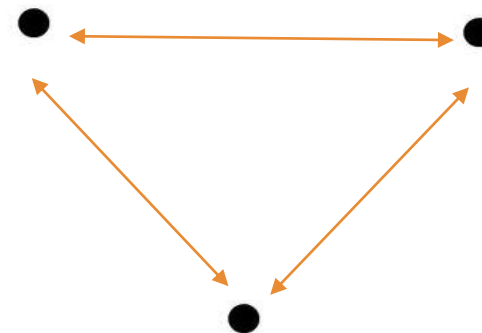
1st form



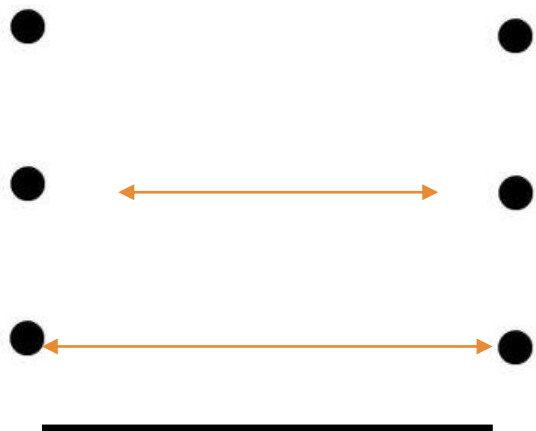
2nd form



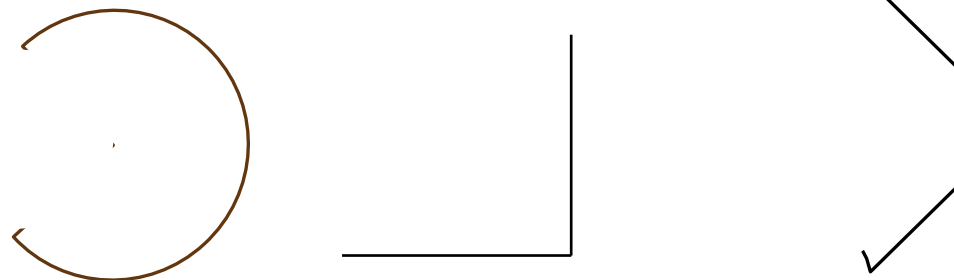
3rd form



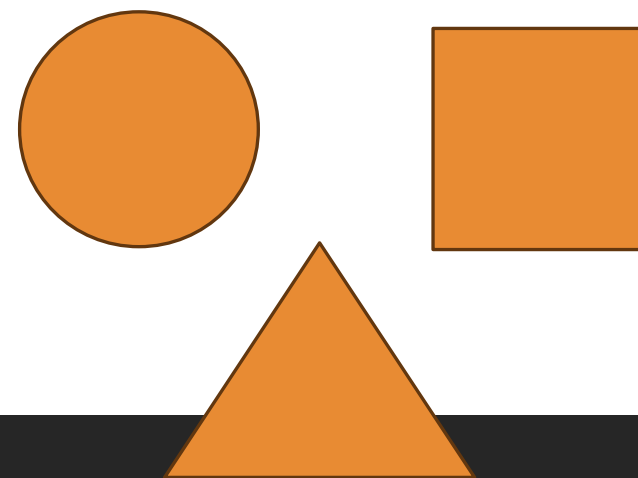
4th form



5th form

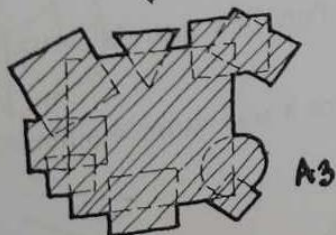
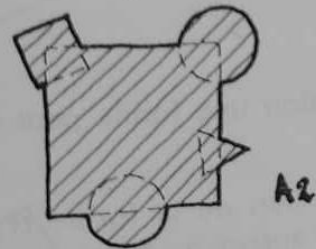
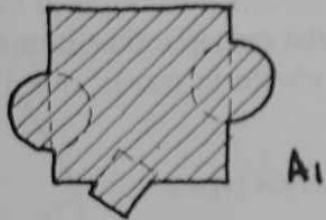
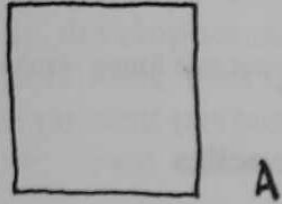


6th form



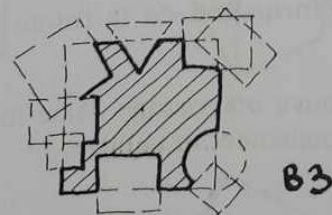
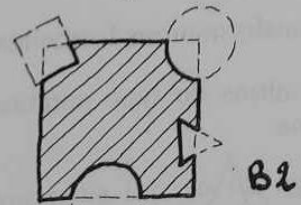
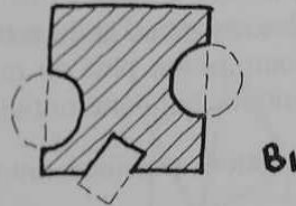
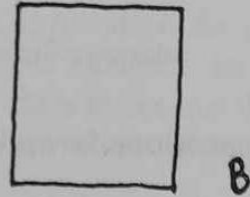
Addition

+



Soustraction

-



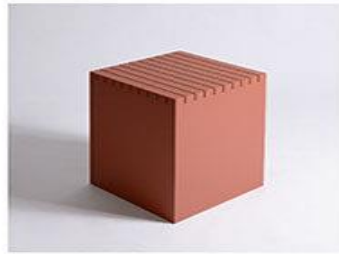
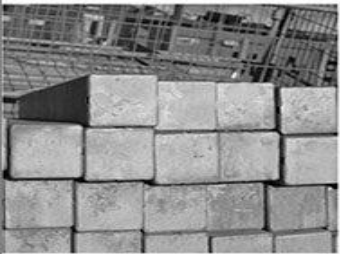
Addition

Substraction

Travail sur les arêtes

Travail sur les angles et les arêtes

Quasi dissolution de la forme initiale



II. How to create shapes

II.1. Types of shapes

a. Geometric shapes

b. Organic shapes

Geometric shapes

Definition:

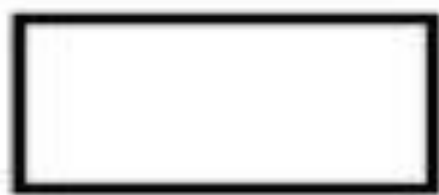
Forms of objects which have boundary lines, angles and surfaces.

- There are two main families of geometric shapes:

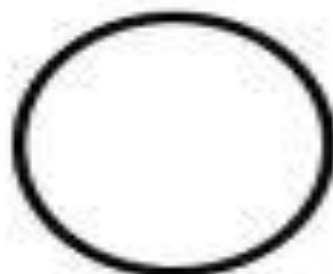
Angular shapes / Curved shapes.

Angular shapes

Shape[s] having one or more sharp angles.



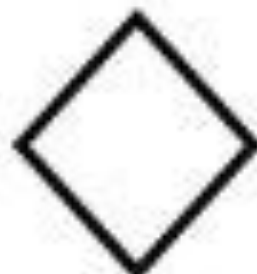
Rectangle



Circle



Square



Rhombus



Parallelogram



Ellipse



Triangle



Kite



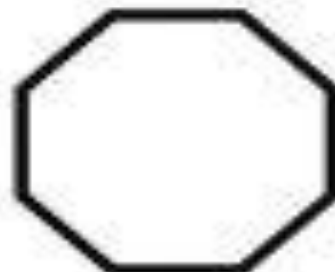
Trapezoid



Pentagon



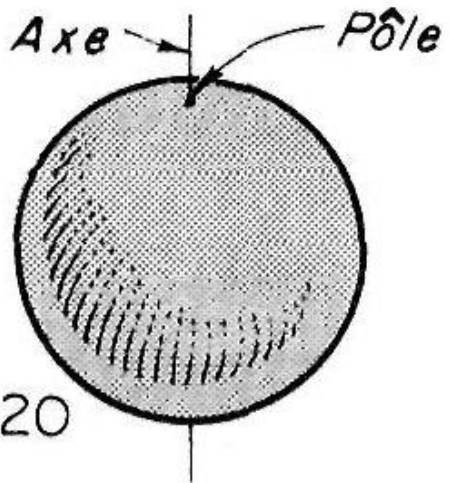
Hexagon



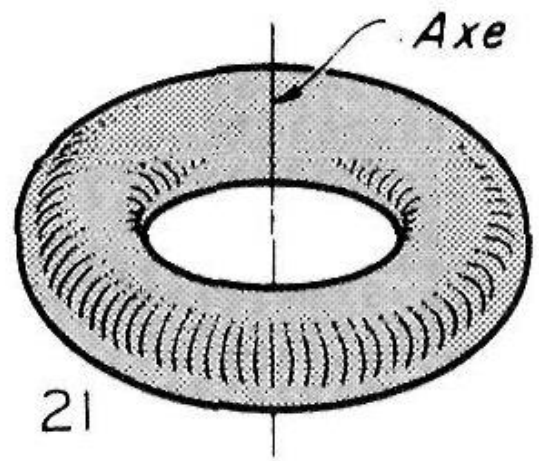
Octagon

Curved shapes:

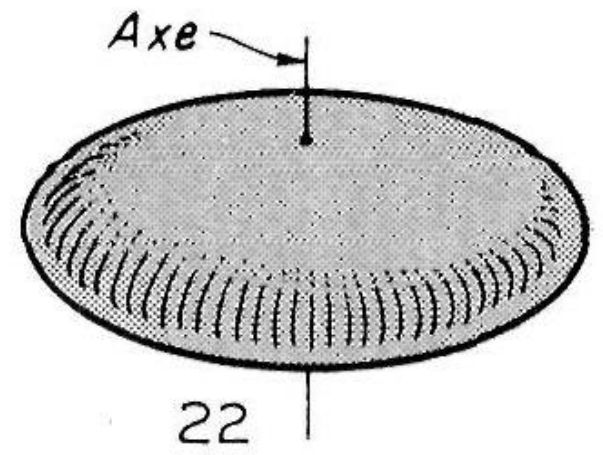
The trace of a point whose direction of motion changes.



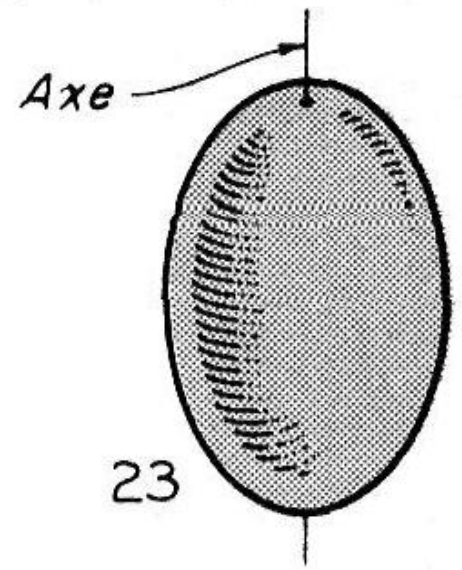
20
SPHÈRE



21
TORE



22
ELLIPSOÏDES DE RÉVOLUTION



23
ELLIPSOÏDES DE RÉVOLUTION

Regular shapes

A regular shape is usually symmetrical such as a square, circle, etc.








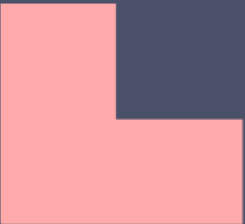
In a regular shape, all the sides are equal and all the inside angles are equal.

Irregular shapes

Irregular shapes are asymmetrical.

An irregular shape doesn't have equal sides or equal angles.

Regular vs Irregular Shapes

Shape	Regular	Irregular
Triangle		
Quadrilateral		
Pentagon		
Hexagon		

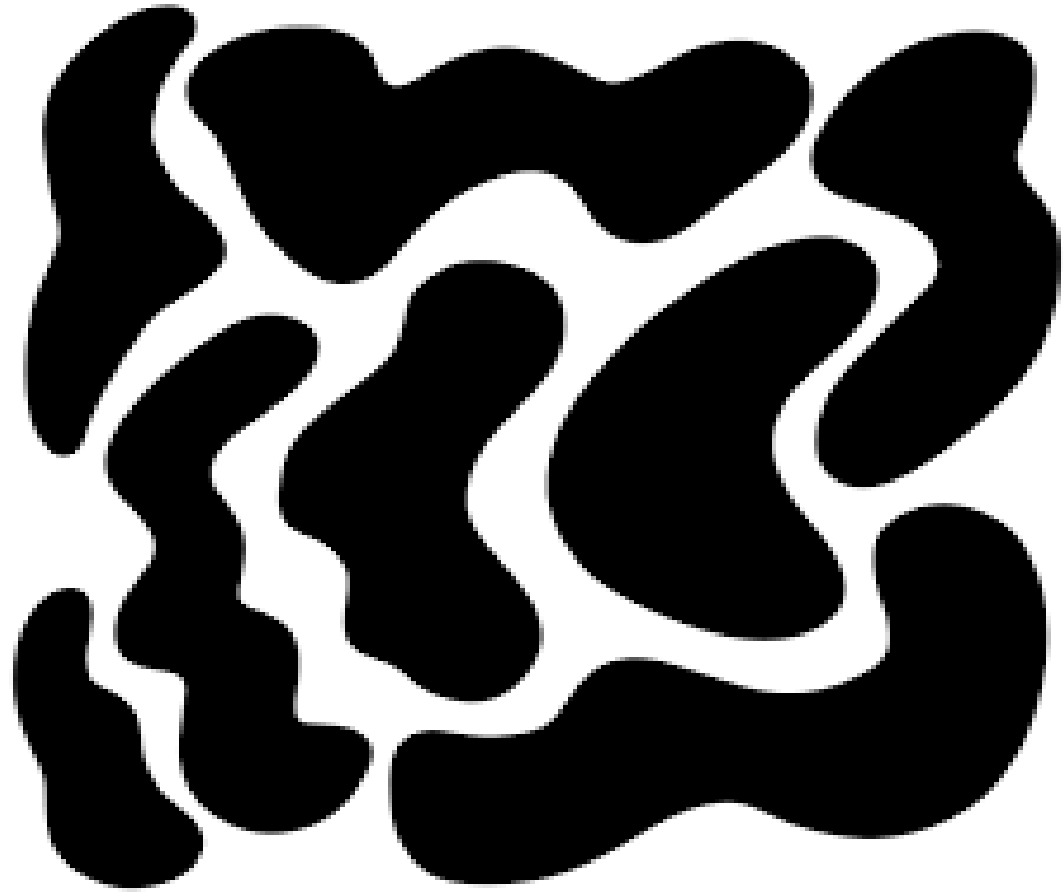


Organic shapes

They are also called freeform shapes or organic shapes. For example, the shape of a tree is irregular or organic.

Organic shapes also:

- Are shapes with a natural look and a flowing and curving appearance.
- Organic shapes and forms are typically irregular or asymmetrical.
- Organic shapes are associated with things from the natural world, like plants and animals.



Visual properties of shapes

Shapes are the basic element of the graphic/visual language.

So,

It's important to know all their properties to express one's idea,

Visual properties of shapes

Shape

Size

Scale

Proportion

Light

Color

Material

Contrast

Position

Orientation

Visual inertia

Symmetry











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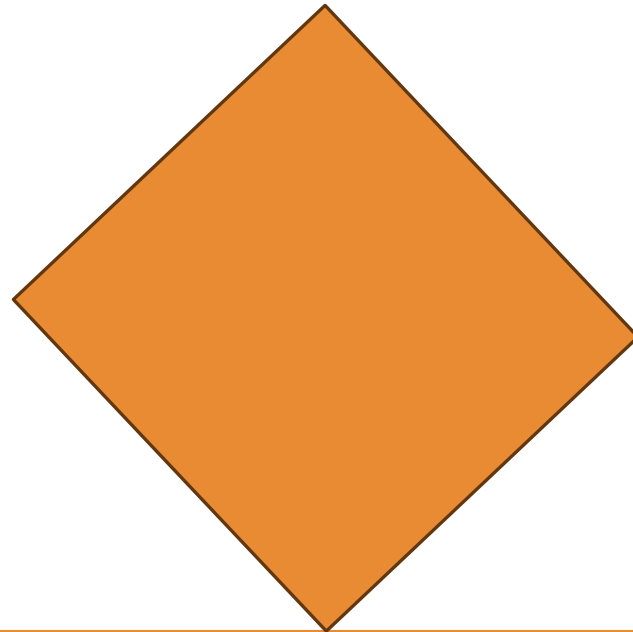
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A



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