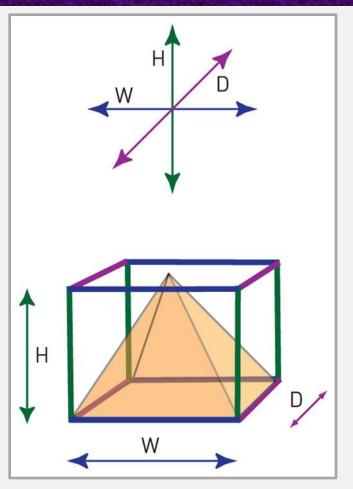
3-Dimensional Art-Form, Mass, Volume & Texture

- Possess four of the visual elements:
- •Form
- Volume

MassTexture



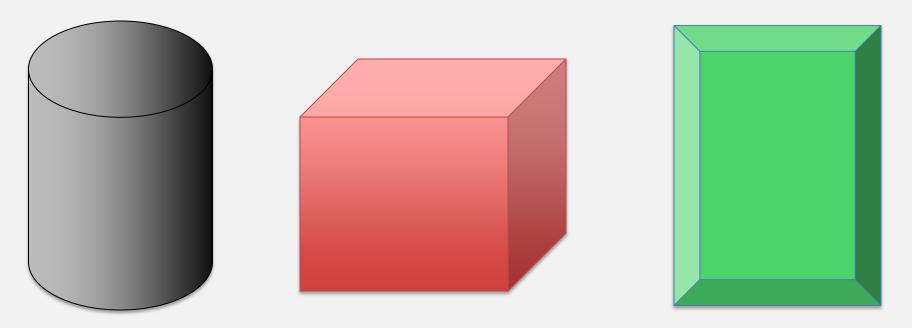
Three dimensions: height, width, and depth

Form

- Shapes are flat; forms are three-dimensional
- Scale refers to the size of an object
- Forms have two fundamental attributes and elements: Volume and Mass
 - Volume is the amount of space a form occupies
 - Mass is the expression of solidity

Geometric Form

- Regular forms, readily expressible in words or numbers
 - Cubes, spheres, cylinders, cones, and pyramids are simple examples





Great Pyramid of Khufu, c. 2560 BCE, Giza, Egypt



Great Pyramid of Khufu Geometric Form

- Regulated geometric form
- A monument to the engineering/construction skills of Egyptians
 - Base of Khufu's pyramid is level to within less than an inch
 - Greatest difference in the length of the sides is 1³/₄"
 - Originally encased in fine white limestone
- Egyptian art and architecture exhibit carefully ordered and controlled characteristics and artists were governed by a canon, or set of rules THAT LASTED FOR 3,000 YEARS
- <u>https://www.youtube.com/watch?v=Cv6tuzHUuuk</u> Bangles video



David Smith, *Cubi XIX,* 1964. Stainless steel, 113¼ x 215⁄8 x 205⁄8"



David Smith, Cubi XIX

- Combines geometric forms in angular relationships
- Diagonal angles imply movement
 - Smith learned welding in an automobile factory and became expert while fabricating tanks of thick armor plate during World War II



Nancy Rubins. *Pleasure Point.* **2006.** 304 x 637 x 288 in.

- Organic forms are derived from living things
- Irregular and unpredictable





Barbara Hepworth. *Two Figures*. 1947–48. 38 x 17 in.



Lino Tagliapietra, *Batman*, 1998. Glass, 11½ x 15½ x 3½"

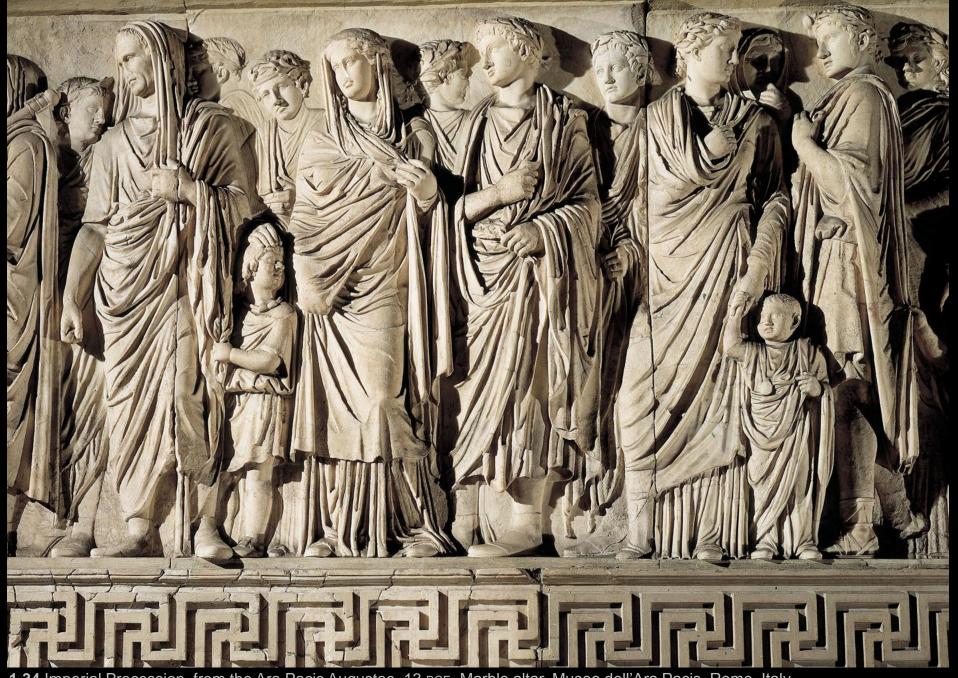


Lino Tagliapietra, *Batman*

- Artist uses a form that is lively and organic
- The natural energy of light is captured in the glowing transparency of the glass
- Here the media (glass) works in combination with the form and the message (As opposed to the other works seen previously)

Form in Relief and in the Round

- A relief is a work in which forms project from a flat surface –bas relief
- It is designed to be viewed from one side only
- A form in the round can be seen from all sides



1.34 Imperial Procession, from the Ara Pacis Augustae, 13 BCE. Marble altar. Museo dell'Ara Pacis, Rome, Italy



Imperial Procession, from the Ara Pacis Augustae

- The unknown artist uses the depth of the carvings to suggest that some areas of the composition are farther away from us than others
 - The figures in the foreground are deeply carved (in high relief)
 - The figures behind those in the foreground are also carved in relief, but not quite so deeply
 - The artist suggests even greater depth by using a third group of figures who are carved in shallow relief

Stela with supernatural scene

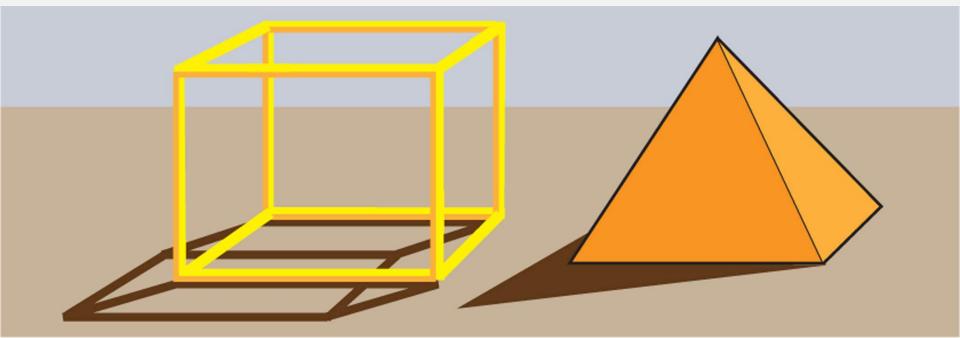
Done in bas-relief (low relief) Stela: upright stone slab decorated with relief carvings

Stela with supernatural scene, Mexico or Guatemala, 761 cE. Limestone, Fine Arts Museums of San Francisco



Volume

- Volume is the amount of space occupied by an object
- Enclosed space with materials that are not completely solid is an an open volume
- Architectural forms usually enclose a volume of interior space to be used for living or working





1.37a Ralph Helmick and Stuart Schechter, *Ghostwriter*, 1994. Cast metal/stainless cable, 36 x 8 x 10'. Evanston Public Library, Illinois



1.37b Detail of Ghostwriter



Ralph Helmick and Stuart Schechter, Ghostwriter

- An open volume that, when looked at as a whole, creates the image of a large human head
- Made of carefully suspended pieces of metal
- In the stairwell where the piece hangs, the empty space and the "head" are not distinct or separate, but the shape is nonetheless implied



Eduardo Chilida *Eulogy to the Horizon* 1989, Spain Reinforced concrete



Louise Bourgeois, *Maman*, 1999 (cast 2001). Bronze, stainless steel, and marble, 29'4%" x 32'91/8 x 38'1". Guggenheim Museum, Bilbao, Spain



Louise Bourgeois, Maman

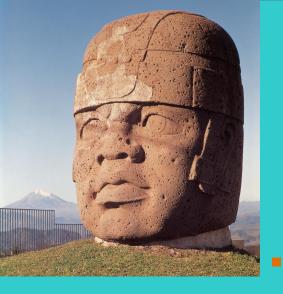
- Means "Momma" in French-The ultimate spider mother here
- The sculpture stands beside the Guggenheim Museum, Bilbao. The museum's apparently solid mass is contrasted with the spindly form and open volume of *Maman*
- The subtle variations of angle in the legs imply movement
- Even though this spider is made of bronze, the effect is one of lightness
- Bourgeois wants to suggest both the tenderness and the fierce protectiveness of motherhood



- Mass suggests that something is solid and occupies space
- Our perception of mass is derived from our imagination, our previous experience with smaller objects, and our understanding of the forces of nature
- Mass can suggest weight in a three-dimensional object but can also be portrayed two-dimensionally
- Mass does not necessarily imply heaviness, only that a volume is solid and occupies space



Colossal Head, Olmec, 1500–1300 все. Basalt. Museo de Antropología, Veracruz, Mexico



Colossal Olmec Heads Mass and Power

- The monumental quality of some artworks is directly related to their mass
- The sheer size of the work was almost certainly intended to impress and overwhelm
- At La Venta, Mexico, three heads were positioned in a "processional arrangement"
- Mass also imparts a spiritual impact
- Size suggests the power of a mighty ruler or an important ancestor



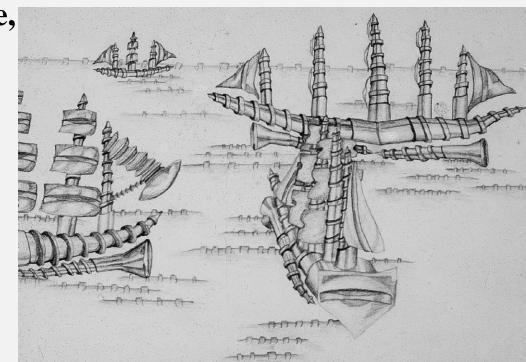
1.42 Marisol (Escobar), *Father Damien*, 1969. Bronze, State Capitol Building, Honolulu, Hawaii

Marisol (Escobar), Father Damien

- Father Damien was a Catholic missionary who supervised a leper colony on the Hawaiian island of Molokai during the nineteenth century
- Steadfast compassion is suggested by the foursquare mass of Marisol's work
- The stout form communicates stability and determination
- Conveys inner resolve of the man and his religion
- Do you think it is a flattering portrayal?
- www.youtube.com/watch?v=688rDQhWA2I
- Father Damien about 4.5-6 min

TEXTURE

- Texture is the tactile sensation we experience when we physically encounter a three-dimensional form yet can be conveyed two-dimensionally
- When we think of texture, we mostly rely on the impressions we receive from our hands
- When we see the work
 we can imagine how its texture feels





Méret Oppenheim, *Object*, 1936. Fur-covered cup, saucer, and spoon, 27/8" high. MOMA, New York



Méret Oppenheim, *Object*

- A subversive texture contradicts our previous tactile experience
- Artists and designers use the contradictions and contrasts of subversive texture to invite viewers to reconsider their preconceptions about the world around them
- Méret Oppenheim (1913–85) used texture to contradict the conscious logical experiences of viewers
- The artist counts on our tactile memory to conflict with the actual experience

Conclusion

- Three-dimensional art is expressed in height, width, and depth
- Forms can be geometric or organic
- Volume is the amount of space occupied by the form there or not
- Mass is the impression that the volume is solid and occupies space
- The surface of the form can be described in terms of its texture