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Original Thinking on the Arrangement of Sculptures

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Abstract: *This paper explains the basic meaning of permutation and analyzes the origin, formation and development background of permutation. Regarding the arrangement as a kind of language in sculpture, this paper analyzes its function and significance in creation. It also tries to find the original value of the arrangement from the evolution of mathematics and physics to the impact of industrial civilization, and the influence of the liberation of sculpture concept on the arrangement.*

Keywords: *Sculpture; Sculpture arrangement; Arrangement*

With the development of sculpture art, we can see more and more artistic works composed of different numbers of the same symbol arrangement in major exhibitions. As a unique form of sculpture, the appearance of arrangement plays an important role. Different types of arrangement forms, different arrangements of the same form of creation give the works different aesthetic feeling. However, as far as permutation itself is concerned, the significance, reaction and relationship of its root influence on artistic works correspond to the source of life and the renewal of ideas.

What is "Arrangement"?

Arrangement is defined in the dictionary as being arranged in rows and columns in the correct, convenient or appropriate order. Under normal circumstances, people don't like things that are messy and irregular, and they prefer things that are regular and easy to recognize in a short time. Based on this principle, the arrangement method appears in all aspects of human daily life as a simple and effective application method because of its visually implicit obvious rules.

The arrangement haunts our lives, the distribution of leaves growing over time in nature, and the terracotta warriors and horses of the Mausoleum of the First Emperor of Qin thousands of years ago. With the help of the arrangement method, the early art painting has the structure of dots, lines and planes, with the appearance of rhythms such as density and size, which promotes the cultivation and perfection of the aesthetic taste of art. These concepts not only have a large number of applications in the field of art, but also have a large number of applications in other fields, such as mathematics, philosophy, architecture, literature, etc., which run through the entire history of human civilization and have played a huge role in promoting the progress of civilization.

The arrangement in sculpture is a kind of sculpture language. As a branch of modeling language, sculpture language is determined by the organization form, visual characteristics and external structure of the work

itself, and can be divided into concept modeling, image modeling, abstract modeling and concrete modeling through the specific content presented. Among them, the main components of the ontology language meaning of sculpture works are time, space, volume, material, shape, color and other elements.

Based on the traditional sense of sculpture language, as an implicit tool in the creation process, its purpose is to become a modeling language and serve the modeling. But later, what made sculpture meet the innovation was the further expansion of material development and concept liberation. The materials not covered or used can be included. German artist Joseph Beuys once mentioned "expanding the concept of Art - everyone is an artist. As long as the matched free creative vitality is guided to burst out, the unique artistic preference of this group will make any kind of media sublimate into works of art. " At the same time, he thinks that all media and human behavior can be included in the concept of art, so that it is possible to create with the help of any media.

The modern sculpture art in the new era conforms to this characteristic. As a branch of the arrangement, the use of artistic creation refers to the placement and deployment of the material symbols and elements used in the creation in a certain space according to a certain law, so as to achieve a specific work display effect. Its influence and function on the physical form and its spatial change is beyond other types of sculpture language. Because of this, the development of sculpture art so far presents a diversified art category, which functions and connects the boundary between life and art. Art no longer wears the shining halo of elite art, and is no longer completely independent of human beings in the face of the penetration and influence of social life Outside of life, it has gradually become popular. Artwork can be daily necessities rather than items that can only be produced by artists. Everyone is an artist, and the boundaries between vulgarity and elegance, chaos and purity have long been blurred. The boundaries between artists and ordinary citizens, artworks and daily necessities have gradually become intriguing.

The arrangement method makes all the material units arranged in the work space according to a certain regular form, and after being unified, they become a whole. Arrangement The material element as a unit in the sculpture is a part, which sometimes has an independent ornamental property, but also can become a work independently. Although this concept is reliable and simple, it can achieve complex and changeable in use, and has obvious flexibility and continuity. It can achieve a series of vertical, horizontal and three-dimensional arrangement changes, and each independent unit under subdivision can also complete changes, replacement, grouping and other actions. Not only that, continuity means that the placement of units will have a beginning and an end. At the same time, the whole space can be connected in series, or as the connection and transition of several spaces, resulting in different effects and overall differences. It is precisely because of such characteristics that the arrangement can cause unlimited inspiration and creativity.

The Cause of Arrangement

The application of geometry opened the door of perspective in painting, as well as the "golden section law" of ancient Greeks, involving composition, light and shadow, which played a key role in the development of painting representation language.

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Not only that, as early as 2200 BC, Chinese ancient mathematicians discovered the third-order Shennong magic square, also known as "River map" or "vertical and horizontal map". It is a famous mathematical problem that the numbers in each row, column and diagonal line are equal after putting the square lattice into different numerical arrangements. In 1275, Yang Hui, a mathematician of the ancient Southern Song Dynasty, compiled a magic square of three to ten orders in his book The Algorithm of Picking up the Ancient and Picking up the Strange, which was later introduced into Europe in the 15th century. Archimedes, a mathematician, studied a special mathematical problem as early as a thousand years ago -- how many kinds of spelling methods can be used to put 14 irregular strips of paper into a square. After scientists deciphered the ancient Greek, it was called "stomachion" combinatorial problem.

This series of combinatorial mathematics research based on magic square has influenced today's society. For example, in the field of computer, and when Voyager 1 and Voyager 2 spaceships launched from the United States in 1977 entered space, they carried magic square as a signal of human wisdom.

The advent, development and application of calculus solved the data calculation problems related to motion and energy conversion in the 18th century, and promoted the improvement of steam engine and the invention of loom. The following second industrial revolution was dominated by electromagnetic theory, and all electrical inventions were put into practical application. Finally, the third industrial revolution came from the popularization of computers, production automation and Einstein's derivation of atomic energy formula. In history, there is a solid support of mathematical theory and application behind every advance of human society, which has profoundly changed everyone's life.

The second wave of civilization proposed by the Futurist Alvin Toffler is the transition from traditional agricultural civilization to industrial civilization, and the emergence of major scientific research inventions in the late 1860s. Human life has been affected and promoted in various levels and aspects. Since the 1980s in England, the economic and industrial revolution has promoted the social revolution and further led to the cultural revolution. Industrial civilization is known as the most creative and dynamic civilization so far, which makes human society enter a recyclable mode.

The biggest characteristic of industrial civilization is scale and batch. Material production gradually gets rid of the shackles of low efficiency labor production mode in agricultural civilization. Based on innovation, it realizes large-scale mechanized production through resource integration and machine cooperation, thus speeding up the speed of population flow, enhancing the mobility of social strata, and equalizing occupation and consumption. All of these have led to the deflection of social labor. The former physical labor has been replaced by machines and then turned to mental labor. In the current environment, the ability to adapt to the working environment and dialogue and communication has become the basic requirement of the profession, and ultimately promotes the communication between people more closely.

The industrial society has also brought new life and ideas, and then the artistic tradition has been further challenged. The most direct phenomenon is the emergence of pop art, which inherited the rebellious of that generation of young people and made people tend to enjoy life wantonly. Pop artists use what they think is real around them to create, which not only fills in the short board of the stagnant art in that period, but also stimulates the economic and social development. With the help of screen printing, pop art makes his works

radiate a strong sense of rhythm and rhythm, and further breaks through the boundary between art and life. These are inseparable from the role of arrangement in his creation process.

Emancipation of the Concept of Arrangement

In the past, sculpture had to be completed through the two actions of "carving" and "molding". With the rise of various doctrines and the development of ideas, works without "carving" and "molding" began to appear and enter the public field of vision and be accepted by people. And these used sculpture language, also just abandoned part of the tradition, become a symbol of the times, washed by time into the current "tradition". These contemporary "traditional" sculpture language, criticism, doubt, rebellious signs are more and more obvious, the artist's personal overt things also have clear traces in the works, but its essence is inherited by blood, what we see is the product of deepening thinking.

Paris, as the center of world art, was swept by the spirit of liberalism in the 18th century. The old forces and the new forces are entangled here, and individualism conquers the traditional forces and is deeply rooted in the hearts of the people. In Christianity, because of the argument between reason and sensibility and the external challenge, the status of academic art style gradually disappeared, which led to great changes.

With the spread of liberalism, under the mutual impact of realism and romanticism, as early as 1886, Rodin, a master who was superior to the times and regions, stepped forward in order to break the rules at that time and created a series of works that did not blindly follow any faction and trend to examine the world. Among them, The Three Shades (Figure 1) duplicated the same figure twice to get the effect of three people encircling a circle center with the same movement on the same horizontal plane, and placed it at the top of Hell's Gate. In addition to the severely elongated and distorted neck relationship, what attracts the most attention is the three bodies themselves. The stable structural relationship can force the audience's attention to the central main part and the inscription below, admonishing all beings: " All the people who enter this place, give up all hope" and overlook the people who stopped to watch the works. Later Rodin enlarged them to form a large independent sculpture group.



Figure 1. The Three Shades, Auguste Rodin, 91.3×54.3×97 cm, before 1886

Later in the second half of the 19th century, under the influence of the impressionist style, he moved his sculptures outdoors and put them into nature. Rodin in that period has formed a harmonious relationship

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between sculpture and the natural environment of concern and bias, but also for future generations of sculpture into the environment, arrangement sculpture laid a solid foundation and planted seeds of hope.

The emergence of modern sculpture art not only broadens the visual expression space related to art, but also enriches people's cognitive thinking about creative experience and aesthetic experience. Those works not only show the artist's personal experience and speculation on the "contemporariness" of current social life, but also reflect the "Modernity" in terms of language form and spiritual connotation. Modern sculpture art, as the concept product of current social development, is still an independent form of sculpture in terms of creative techniques. Nowadays, the attraction of many modern sculpture works lies in the innovation and integration of various material carriers. As an important part of modern art, on the basis of a long and grand historical tradition, it has been endowed with contemporary characteristics and expanded the diversity of creative language. Looking around, many artists are no longer confined to the exploration of the material level. They are cautious and concerned about the material language form, the ideology itself, and whether the works of art can intervene in the real life, and whether they can reflect the current people's spiritual world and living state. Through the study of modern sculpture art, we can clearly realize that the language of sculpture is diverse, diverse in form, and wide in scope. They are always popular media for artists to express their thoughts and emotions, and are important carriers for expressing artistic cognitive thinking.

Conclusion

As an independent unit of art, a single sculpture language is arranged as a material, which contains the dual attributes of nature and society, and is more directly accepted by artists and put into the creative process. In modern sculpture works, the function of symbol is to form a complete work of art together with other objects as a part of the work. The language and information contained in it co-exist with the material itself, so as to jointly serve the current theme.

Of course, not all actions and motives have permutable conditions. Its core must have a special relationship with the theme, the expression of emotion or the presentation of visual effects. At the same time, actions and motives must have some special "strength" and quality. Only in this way can they have the significance and value of being permutable. At the same time, the timing of the arrangement must be just right. When to disrupt, when to reorganize, and how to arrange, all need artists to carefully design and a large number of experiments. Only by finding the right time, and then giving full play to the function of permutation form, we can obtain the dialogue and exchange on the common spiritual level.

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