The Application of Computer Modeling Technology in Art Design

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Abstract. The art design style of computer modeling is the hot spot of China's art design in recent years. After entering the 21st century, the concept of art design has been constantly developed and innovated, and a series of designs such as Java and dynamic titles are all the rage. Based on computer modeling art design style of writing with different points of view of reality, tends to be the symbol, the transition of the style, let people can more easily and work more comfortable and more willing to learn the meaning, this article through to the computer modelling of the historical development of the art design style analysis, combined with the graphic sustainable theory to delve into the UI design for readers reference.

Keywords: Computer Modelling Design, Artistic Design, Artistic Style, UI Design

1. Introduction

International graphic design to notice the importance of the art design concept in the era of development, so a new generation of graphic designers of plane design when more is based on the interactive experience and perception, UI design as the basis, make the transmission of information is more simple and quick, it is for style messy advertising, the media more innovative and practical value. Quasi physical design has more recognizable three-dimensional effect, as a popular style of period of time will not be able to make full use of the design elements, the computer modeling approach can make a design not easy outdated, and highlight the information itself, this is the style in a short period of time all over the world.

2. Overview of computer modeling style

2.1. Swiss internationalist graphic design is the origin of computer modeling design

After the Second World War, the development of world graphic design had a period of stagnation.
Until the middle of the 20th century, a brand new graphic design style was created in Switzerland, which was characterized by clarity and simplicity and conveyed information in a concise and clear way[1]. It gradually became the most commonly used design style in the world, and was even named "Swiss internationalist graphic design". The following Figure 1 and Figure 2 are the application of graphic design in resource development:

![Figure 1 (left) and Figure 2 (right). The application of graphic design in resource development](image)

For above Figure 1 and Figure 2, in Zurich and Basel this two cities is the important origin of computer modeling design development city, in the 20th century, the emergence of a series of graphic design masters, and the new graphic design magazine in Switzerland in 1959 to mark the Swiss international graphic design style gradually mature, and for the development of computer modeling design history has extremely important practical significance. The style of internationalism achieves the unification of visual effects by constructing an orderly grid structure and a standardized layout, while in terms of visual expression, asymmetric graphic organization design elements can be adopted for visual impact and innovative design of computer modeling[2]. Because the layout without decorative line is shot into the form of left alignment, it presents very standard and standard characteristics in the plane effect[3].

2.2. Emergence and development of computer modeling in art design

Web sites in the late 20th century were cluttered with moving pictures. After entering the 21st century, the concept of art design has been constantly developed and innovated, and a series of designs such as Java and dynamic film titles are all the rage[4]. The creation of art design style based on computer modeling, accompanied by different perspectives of reality, tends to change the symbols and styles, making it easier, more comfortable and more willing to understand the meaning brought by the works, which is very important for interactive UI design in the new era. At that time, it took a long time to load the messy information and components. Microsoft noticed this phenomenon, and gave the concept of art design for the new operating system research, and the "Segoe" font production to a large
extent broke the deadlock, it USES a simple and clear way to present information, computer modeling highlights the key information; This aspect is very similar to traditional Chinese art style of the UI design concept, it will be more inclined to make engraving, people are not familiar with the effect of the generating process, when people admire don't need to be "read" can feel the beauty and comfort in his works, in the invisible on the basis of the author's idea to seek spiritual resonance whole, to the higher levels of computer modeling interactive UI design.

3. Art style change of interactive UI design based on computer modeling

3.1. UI interactive application of traditional Chinese art style

In the development of traditional art in China, calligraphy, traditional Chinese painting, seal cutting and other arts are more based on freehand brushwork and grasp elements with the help of the force of nature, and pay more attention to the effect of natural integration. Through the integration of personal feelings in the works, both the creator and the viewer can read the mood from the outline and handwriting of calligraphy(1). Through the color transformation and Angle transformation in traditional Chinese painting to observe the creator's vision and momentum; through the strength and design of seal cutting, the originality and meaning of the creator can be read, as shown in figure 3.

![Figure 3](image.png)

Figure 3. Graphic design combining computer modeling techniques

In addition to the transformation from figure 1 to figure 3, if China wants to take the path of development of graphic design with its own characteristics, it should keep innovating and developing on the platform of absorbing the research results of related basic disciplines in the west.

Seal cutting has a development history of nearly four thousand years in China. As an ancient art, seal cutting skillfully integrates calligraphy and knife skills, and USES a seal to create freehand brushwork by computer modeling "between square inches". The continuous development of seal cutting technology has gradually evolved into a variety of schools. Seal cutting artists comply with the defects of the materials themselves when creating, and design the blank interactively, so as to achieve
the effect of natural creation. The industrial design of "ocean king" designed in figure 4 below vividly shows the application of computer modeling technology:

![Sherlock and Pacman](image)

Figure 4. Industrial graphic design of "ocean king"

The application of Chinese traditional art style in UI interaction is also reflected in calligraphy creation. The works that incorporate the calligrapher's personal feelings, mood and experience are also an interactive appreciation and analysis of full artistic style. With the continuous development of art expression in these years and improvement of Chinese traditional art style of the UI design will be more inclined to make engraving, people are not familiar with the effect of the generating process, when people admire don't even need to "deliberate" also can feel the beauty and comfort in his works, to better according to the author's ideas for spiritual resonance whole, to the higher levels of computer modeling interactive UI design[6].

3.2. Evolution of computer modeling style and exploration of interactive UI design

The art design style of computer modeling has something in common with the traditional art development in China, and at the same time, it also has the innovative interactive features of UI design in terms of style and expression form. Among them, the characteristics and changes of computer modeling style can be subtly reflected in the painting creation of three periods:

- Mona Lisa, as a masterpiece of leonardo Da Vinci, is widely talked about for its mysterious smile. In the flat composition of Mona Lisa, people can not only focus on its artistic value, but also think about the story behind the smile which is highlighted by the computer modeling design.

- Sunrise is a masterpiece of monet's impressionism. In the composition, monet abandoned the realistic way and transformed light and shadow based on computer modeling to depict a more representative world and plane for people.

- "The scream" as the representative work of edvard munch, highlights the characteristics of expressionism, and the author also believes that computer modeling is an important way of the painting, the beautiful sunset river twisted face, such as to give the impression of is anxiety and pain, and that left a deep impression on the reader is brought by the computer modeling processing lines and pull away effect, on the one hand, amazing, on the other hand is thinking.

The creation of art design style based on computer modeling, accompanied by different perspectives of reality, tends to change the symbols and styles, making it easier, more comfortable and more willing to understand the meaning brought by the works, which is very important for interactive
UI design in the new era. And because the art expression way is varied, based on computer modeling of art design interactive UI design is a kind of can fully express the creator thought form, it can make more vivid, graphic design at the same time can make work more meaningful and spiritual, the more fit creators, based on computer modeling, prominent, interaction design concept, to design a more timely, characteristic, style of poor.

4. Conclusion

To sum up, the internationalist style achieves the unification of visual effects by constructing an orderly grid structure and a standardized layout. In terms of visual expression, asymmetric graphic organization design elements can be adopted for visual impact and innovative design of computer modeling. Computer modeling style of art and design and development of China's traditional art have in common, and at the same time also has the UI design in the style and expression form of innovative interactive features, graphic works step by step "reality" is also the embodiment of the fit reality, from the realistic to the transfer of light and shadow, from Chinese calligraphy to the western painting, are based on computer modeling design of interactive creation, for the contemporary interactive UI design is of great practical significance.

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