

## **Exploration of Dunhuang Element Animation Garment Design in Participating Classroom**

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**Abstract:** Participating classroom teaching is an important link of practical teaching. Participating teaching method can greatly increase the enthusiasm of learners in the practical classroom. In the participating classroom, Dunhuang elements are used for animation and clothing design. Different from traditional teaching, students will be the main body of teaching in the classroom. Through the investigation of the characteristics and elements of Dunhuang frescoes, clothing will be made. In the whole teaching process, every student will get enough free display opportunities, can give full play to their own strengths and show their personality, is an important form of cultivating innovative spirit and practical ability.

### **1. The supporting function of participating classroom to Animation dress Design**

The participation classroom provides the better practice condition and the imagination space for the animation clothing design, causes the animation clothing design creation process to have the greater enthusiasm and the more possibility, unifies the classroom and the practice, may allow the student to make full use of the classroom time, will learn the knowledge, the skill to use in the design practice better, achieves the live study live use, the practice is not only outside the extracurricular, the classroom is also very good practice place. And can also communicate with teachers and students at any time, draw their own strengths, more efficient design of more excellent works; The process of clothing design and creation will also be more interesting, in the practical operation and the exchange of views with the group members of the inspiration collision, will often produce new creative inspiration, so that the creation has unlimited possibilities; In the process of creation, maintaining communication and contact with the instructor can avoid some mistakes in time, and can obtain the experience and lessons of the elders, can improve themselves while avoiding useless work, devote more time to the optimization of the work, and improve the work efficiency.

### **2. A Summary of the present situation and Application of Dunhuang frescoes**

#### **2.1. The present situation of Dunhuang frescoes**

After thousands of years, Dunhuang Mogao Grottoes still maintain 492 grottoes, with more than 45000 square meters of murals and more than 2400 colored sculptures[1]. Although it is one of the largest cultural and artistic treasures in the world today, due to the long time of natural wear and tear and man-made broken ring, most of the existing murals have been caused by diseases such as mottling, discoloration, fading and so on, so that the frescoes we see now are far from the situation at the beginning of painting. To this end, the Dunhuang Research Institute has been carrying out the maintenance and restoration of Dunhuang grottoes since it was founded. After years of practical exploration and in-depth analysis, there has been a certain systematic and scientific process and scheme for the protection of murals, and targeted repair materials and restoration techniques for major diseases have also been developed in the restoration of murals. In addition to the restoration and protection of objects, with the development of science and technology in the times, the construction of digital resources of Dunhuang murals is also an important process of protection and restoration. Because the fading of cave murals is irreversible, all protection and restoration work

can only delay the fading process, so it is very critical to retain and restore them by means of digitization.

## **2.2. Contemporary Application of Dunhuang frescoes**

In addition to protection and restoration, the addition of Dunhuang elements to artistic creation and life is also a continuation and development of Dunhuang elements. Dunhuang frescoes have very high artistic achievements in color and artistic expression, which is an important part of Dunhuang grottoes art. Its unique style and a large number of artistic achievements provide rich creative inspiration and material for contemporary art design. Under the impetus of the background of the new era, its color and painting techniques have derived the contemporary meticulous heavy color, which makes the meticulous heavy color come back to people's attention, affects the unified concept of "ink and wash first" in the Chinese painting world, and injects new visual power into the Chinese traditional painting.[2]

Dunhuang algal well pattern is one of the main forms of Dunhuang art. It is not only displayed in murals and architecture in the period of historical creation, but also appears in a large number of other art fields. In the contemporary Dunhuang algal well pattern is also widely used in industrial design, such as lotus, Baoshanhua, Feitian and other difficult to remember, exquisite decorative patterns are also very common in a variety of modern decorative applications. In addition, Chu Yan, a young designer, displayed his works in "Flower blooming Dunhuang-Changshana Art Research and Application Exhibition", which were inspired by Mr. Chang Shana research results on Dunhuang frescoes. At the same time, the "Flower Dunhuang" series exhibition not only displays Professor Chang Shana achievements in Dunhuang art research and flower creation over the past 60 years, but also integrates a series of experimental application designs based on Dunhuang patterns by a number of contemporary young designers and design factories, including Chu Yan's fashion design work, as well as porcelain, silk scarves, new cloisonne clocks and other application designs.[3]

Many successful design practices have concluded that Dunhuang patterns can be integrated into live, continuing to bring beauty to the people is a necessary way to restore the vitality of Dunhuang patterns.

## **3. The Design idea of Dunhuang Mural element Animation dress**

With the progress of civilization and the development of culture, the role of clothing in life is also constantly changing. In primitive society, clothing existed only to protect against the cold. During the period of slavery and feudal society, clothing also represented the distinction of class identity. Clothing in modern society, in addition to the basic functions, is more decorative role, people like to use a variety of different styles of design of unique clothing to show their personality and pursuit.

### **3.1. Extraction of elements from Dunhuang frescoes**

Dunhuang frescoes are the treasures of culture and art in our country and even in the world, and they are an important part of mural art in our country. Among them, the murals created in Tang Dynasty represent the highest level of mural art in our country, and the Tang Dynasty is also the peak period of Dunhuang culture development.

In the quadratic animation clothing design, the extraction of Dunhuang mural elements mainly includes color, pattern, character clothing modeling and other main elements. Take Dunhuang frescoes in Tang Dynasty as an example.

Color is an important feature of Dunhuang murals in Tang Dynasty. The color application of Dunhuang murals in Tang Dynasty inherits the discoloration technique, symbolism and decoration of traditional painting colors, and brings into play the beauty of decorative colors to the peak in the prosperous Tang Dynasty, and creates the color beauty of Dunhuang frescoes art. The main colors of Dunhuang murals in Tang Dynasty are red, blue, green, brown and black, and white. Tuhong is the most commonly used red pigment in Mogao Grottoes murals and colored statues. The murals

and colored sculptures of Mogao grottoes in the prosperous Tang Dynasty are different from those in other periods, one of the main reasons is the extensive use of bright cinnabar and lead Dan in red pigments [4].

In the Dunhuang mural series animation clothing design, taking the Tang Dynasty Dunhuang mural women decoration color as the reference, the dress design main color is stone green, cinnabar, ochre, earth red, silver Zhu and so on color beauty, extract Dunhuang frescoes color beauty.

Tang Dynasty is the mature period of Dunhuang pattern development. Dunhuang frescoes in Tang Dynasty continue to develop and innovate on the basis of continuing the characteristics of decorative patterns of the previous generation. Tang Dynasty was an era of ideological and policy openness. At that time, international economic and trade and cultural exchanges were frequent. The intersection of multi-ethnic culture made the decorative patterns at that time integrate the style and characteristics of multiple national cultures.

Therefore, the content of Dunhuang grottoes murals in Tang Dynasty is complicated, and the craftsmanship is far higher than that of the previous generation.

At that time, these decorative patterns were not only common in murals, but also widely used in daily life, and all kinds of group flowers once became classics. In the contemporary animation clothing design, will also use a large number of treasure flowers, lotus flowers and other flowers as decoration.

Dunhuang mural series animation clothing design needs to show the unique beauty and classical beauty of Dunhuang frescoes. The color beauty of Dunhuang murals and the beauty of decorative patterns should be integrated into the clothing design. Dunhuang grottoes murals in a variety of character clothing, decoration is an excellent reference material; For example, the Dudahe wife of Grottoes 130, Taiyuan Wang Li Buddha, which was drawn in the prosperous Tang Dynasty, was later covered by Xixia murals and later peeled out. Before the destruction became serious, he was copied by Mr. Duan Wenjie, the second president of Dunhuang Research Institute [5]; From the existing restoration copy works can be seen, the prosperous Tang Dynasty popular all kinds of beautiful clothes, hair style, accessories and so on. The Dunhuang Grottoes, represented by Mogao Grottoes, lasted for more than a thousand years from the Southern and Northern dynasties to the Yuan Dynasty, and the dress materials in Dunhuang art continued for more than a thousand years with the existence and continuous creation of murals [6]; Dunhuang art retains a wealth of clothing materials, from emperors and aristocrats to civilians, all occupations, age groups. For more than a thousand years, all kinds of character clothing have image records, which is a good reference material database for animation clothing design.

### **3.2. Dunhuang graphic and Image Design in dress Design**

The pattern in clothing design is very decorative, and it is the fourth design element after clothing design relay color, material and layout design. Pattern design is not necessary in clothing design, even if there is no pattern to make decoration can also form a complete clothing, but also can achieve some brands and classics. Nowadays, there are fewer and fewer clothes without patterns, because in addition to pattern design, if you want to innovate in clothing design, you can only pay more attention to the design and color matching of the version, and the material is to better show the effect of the finished product. Decorative pattern is a very intuitive form of artistic language expression, in clothing design, sometimes want to express a certain idea, convey a certain idea, do not use decorative pattern, just by version design and color collocation will be a lot more difficult, just like telling a thing, one is simple language retelling, the other is watching video broadcast, pattern design is similar to watching video broadcast, there is a specific picture presentation. The expression is more intuitive and the receiver is easier to understand.

In clothing design, each layout design can be matched with many kinds of colors, and each type and matching good color matching can also be matched with many kinds of pattern design, it can be said that pattern design makes clothing design have more possibilities, such as some common clothing styles, clothing, T-shirts and so on in daily life, most of them are similar in version design, and the background color is also the main design point of these clothes. The transmission of design

concepts is mainly expressed through patterns.

In animation clothing design, graphics, image design is also very important; take Lolita clothing as an example, layout design and pattern design are the two major elements of Lolita clothing design, because in recent years, layout design is rarely completely innovative, in the basic layout changes are mostly the same, in this case, pattern design is a very good innovation point.

## **4. Summary**

### **4.1. Interactive Optimization of Animation Garment Design in participating classroom**

Animation clothing design in the participating classroom environment, can be very good to achieve problems and timely communication with the instructor, effectively avoid some unnecessary mistakes. The mode of combining practice and teaching in the participating classroom can combine the clothing design with the actual feasibility at any time, find out their own design problems and shortcomings at any time, and have their own practical operation, find the problem and solve the problem with the help of the instructor. At the same time, animation clothing design is not limited to curriculum tasks, can be combined with social experience, in the process of learning to accumulate work experience, improve ability.

### **4.2. Inheritance and influence of Dunhuang Mural elements Animation dress**

The combination of Dunhuang mural elements and animation costumes is to show people the beauty of Dunhuang traditional culture in a new form, and at the same time, it has injected new vitality into Dunhuang culture and art while inheriting and carrying forward excellent traditional culture. Animation is a popular cultural form favored by young people nowadays. Dunhuang mural element animation clothing injects Dunhuang mural elements into animation through animation clothing design, and then through the spread of animation culture, it shows the rich and colorful Dunhuang culture to the majority of animation enthusiasts, so that more people can understand the beauty of Dunhuang culture through animation. Young people are the main body of cultural reception, dissemination and inheritance in every era, so that Dunhuang mural art, an excellent traditional culture, has been more widely disseminated and popularized in the contemporary era, and continues to inherit in future generations.

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## **References**

- [1] Huang Shuai. Guard Dunhuang [J]. Public Financial adviser, 2010 (10): 86 -87.
- [2] Explore the use of Dunhuang frescoes in contemporary meticulous heavy colors. Decorative patterns of Dunhuang dynasties in China [M]. Beijing: Tsinghua University Press, 2004.
- [3] Flower blooming Dunhuang-Changshana Art Research and Application Exhibition [J]. Decoration, 2014 (08): 6.
- [4] Li Mi-hsiung. Analysis and study on Tang Dynasty painting pigments in Dunhuang Mogao Grottoes [J]. Dunhuang Studies, 2002(04):11-18+110.
- [5] Li Qiqiong. Further on the copying of Dunhuang murals [J]. Dunhuang Studies, 2013 (03):

22-27.

[6] Zhang Xiantang. The characteristics and value of clothing art image data of providers in Dunhuang grottoes [J]. Art Design Research, 2014 (01): 56-60.