

# **Computer art and its function and countermeasures in modern design teaching and creation**

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**Abstract:** This paper not only analyzes the role of computer art in modern design teaching and creation, but discusses the countermeasures and effect of this teaching model which promotes the development of modern design education.

## **1. Introduction**

In education, computer was adopted by people in a large scale. Particularly, using relevant computer software for educational innovation has become an important means for the development of modern design education. With the help of some modern technology, it can improve the accuracy of modern design creation and the quality of the whole design work.

## **2. The role of computer art in modern design teaching and creation**

Some traditional computer art design has not been effectively applied in teaching and creation, and its driving effect on the innovation of teaching design has not been given full play. However, the reasons for this are the limitations of educators' teaching thoughts and traditional educational theories. Due to various restrictions, the education quality of art design and creation is not ideal, the practical application of computer art is in a passive state, and the importance of it has not been fully developed.

But with the development of computer technology and the deeper application, people realize that the role of computer application is huge. Educators have also begun to actively explore the ways and methods of computer art design and its innovative application, and started to innovate modern design and creative work activities with the help of some advanced ways. Thus, the important value of computer art in design teaching has been highlighted continuously.

Computer art applied a variety of advanced technical means, which led various creation. Creators with the aid of computer art to carry out their work, therefore, they can choose the right means of computer art creation whichever they like to carry on the design style of innovation. With the aid of computer art in modern teaching and creative activities, educators can use the powerful capability of software to innovation the education mode, they can also provide students with rich design material with the aid of related software, which guides the student to carry on the work of innovation. The function of software related to computer art is various and the application scope is wide, the educators develop the education activity with the help of the related software, when they develop the creation activities, they are able to obtain the twice the result with half the effort effect.

With the help of computer art to carry out design activities, users can quickly complete the work of design, the application of this software technology in design can also promote the development of modern design teaching. With the aid of computer software, teachers can fulfill the innovation of teaching methods, for the students, they can effectively hands-on practice and complete the design task with high quality, what's more, they can become participants in computer art design teaching activities and no longer passively follow the teacher to learn which enhance urges them to take practice and initiative in study.

The application of computer art in modern design teaching and creation forces teachers and students to reform their teaching and learning concepts. In order to successfully carry out modern

design teaching work with the help of computer art software, teachers need to summarize the application experience of new technology, meanwhile, it's imperative for them to constantly learn new technology and innovate the teaching and work creation method, which is a promotion for the development of teachers and teaching effect. For students, they need to innovate the study method and be able to use computer art technology to complete tasks effectively and initiate work creation activities efficiently. Students must change traditional thinking mode, on the contrary, they should learn and practice actively, so as to realize the change of learning style. However, this kind of application boost students to learn actively, form an ideology of development and enhance their ability of self-learning.

### **3. Countermeasures applied in the computer arts in the modern design teaching and the creation**

#### **3.1 Update teaching concepts**

To realize the effective application of computer art in modern design in teaching and creation, teachers must be able to actively renewal education idea to change the traditional one that gives priority to theoretical explanation and knowledge impartment, so as to realize the importance of practice, to recognize the students' role as a main body status and to set aside enough time for them to practice. Teachers should constantly change traditional education, attach great importance to the teaching design and the creation of software applications, then they will be able to realize the importance of adopting new teaching way. On the basis of development for a new area, new education mode needs to be applied to implement the teaching innovation unceasingly, in this way, computer art will get in-depth application in teaching and creating.

#### **3.2 Strengthen the learning of art software application knowledge and skills**

In the information age, the information level of educational means is constantly enhanced, and the development of educational information greatly improves the efficiency of education. Educators should be aware of the changes in forms and be able to comply with the needs of the development of the situation, then actively learn information technology means and be able to carry out educational innovation activities by means of these skills. For modern design professional educators, in order to realize the application of computer art software, they must constantly improve their information literacy level, be able to actively learn relevant knowledge and skills, and pay attention to the application of art software knowledge and skills. Educators should be able to seriously study the application of computer art software methods, clear its application advantages and disadvantages, combine their own classroom practice activities and creative application of computer art software. At present, some teachers' information literacy is not high, who can not flexibly use computer technology to solve teaching problems and innovate teaching mode, which is not suitable for modern teaching style of typical problems. Educators should be able to study hard to improve their level of information and be able to seriously study the application of computer art design methods so as to realize the creative application of computer art software in practice. Not only that, teachers should guide students to realize the change of learning style, so that the students can carry on the learning and creation. With the help of computer arts, they should also be able to guide students to work creation by means of computer art, so that the students will find the value and significance of software applications in practice, and their software operation skill levels will be enhanced, in this way, we will realize the creative development of the modern design teaching.

#### **3.3 Using computer art to design materials that students are interested in**

Computer art design in modern design teaching and creation ought to play an effective role, and teachers must be able to attach importance to the innovative application of computer art design. With the help of computer art design technical support, we have reached the ideal teaching effect by design teaching tasks and improving the teaching process,. Thanks to the computer art, teachers can design materials(materials of characters or things) that students are interested in. However, relevant

materials are more vivid and intuitive. Carrying out modern design teaching and creation activities in this way can effectively create a relaxed and pleasant learning atmosphere as well as enhance students' enthusiasm in learning knowledge and skills, and thus contribute to the realization of modern design teaching and creation goals.

### **3.4 Highlight the subject status role of students**

To carry out modern design teaching and creation activities with the help of computer art software, it is necessary to highlight the subject status role of students' learning. On the one hand, teachers should be able to provide students with time and space for independent learning. After teachers give students theoretical guidance on software application, they should be able to enable students to practice relevant software application skills, and enable them to skillfully master the application methods of computer art software. In addition, in the independent design of art works, teachers should also be able to set aside sufficient practice time for students, so that students can use technical means to independently design and create works. On the basis of students having certain design conception, guide students to complete the work design with the help of computer art software, and highlight the main position of students' study design, so that modern design teaching and creation can get in-depth development.

### **3.5 Strengthen basic art training**

Basic art skills are the foundation of modern design teaching and creation. Even if students use computer art software to carry out relevant design teaching and creation, they still need to have relatively solid basic art skills. Therefore, in the teaching process, teachers should strengthen the training and teaching of basic art skills. In teaching, we should insist on putting the basic art skills training in the first place, and strengthen the course education activities such as sketch, color and sketch. In the process of education, do more practice which will lay a solid foundation for students' art creation. Arts skill training should be able to throughout the modern design teaching all the time. If the students have image in their heart, teachers will guide the student to present it in the form of hand-painted image, on the basis of students hand-painted, teachers can guide the student to complete the later tasks with the aid of computer art image that will improve the quality of the design work.

## **4. The teaching effect of computer art design software**

Brain art design software teaching effect is prominent, the application of this software promotes the realization of teaching tools innovation, making the teaching process more vivid and lifelike, at the same time, the application of computer art design software also enhances the three-dimensional effect of art work design. Computer art software provides a powerful material base for modern art design and creation. Students can use the material base in the software to simulate works without considering the production errors of works, so as to can devote themselves to modeling creation. With the help of computer art design software to carry out teaching activities, teachers can encourage students to actively carry out design theory innovation, to actively present their own design ideas and draw out their own images, and then realize the complementary advantages between people and computers in the creation process. In this way, teaching innovation can be carried out. Students can provide work creation schemes and complete the design with the help of computer software, and improve the quality and efficiency of the design. Computer graphic design software education reality is of great significance, this software can improve the students' interest in learning modern design creation, enables them to interest in art design creation to keep for a long time. And a computer can offer more abundant database for work design as well as provide people with some human difficult to reach the effect of special design, by this way, teaching activities will be carried out, teachers will be constant innovate computer art design teaching methods, significantly enhance the quality of teaching.

## 5. Conclusion

In a word, the application of computer art software in modern design teaching and creation can improve students' computer operation ability, enable them to master the application method of professional art design software, and promote the perfect development of students. This kind of application enhances the practicality of the teaching and creation of downlink design and significantly improves the quality of education. In computer art design education, teachers should pay attention to change the educational concept and way, and be able to actively create an interactive classroom atmosphere, lastly highlight the subject role of students' learning, in this way, the application value of computer art software can be given full play.

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