Analysis on Landscape Design Based on Digital Media Technology

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Abstract. With the rapid development of Internet technology, the traditional English teaching mode is no longer suitable for the current classroom teaching, which requires colleges and universities to gradually meet the needs of personalized and differentiated learning. In the 21st century, colleges and universities must carry out modern English teaching mode, which can better carry out modern technology education, such as micro class, MOOC class, flipped class and so on. Through online learning platform, students can better meet the interaction of English teaching, which is more conducive to English teaching. This paper first analysis the current situation of English teaching mode. Then, this paper analysis the problems in English classroom teaching. Finally, this paper puts forward the development trend of English teaching mode.

Keywords: Digital Media Technology, Landscape Design, Transformation

1. Introduction
Under the background of digital media technology, landscape design will show us an intuitive and applied visual experience [1]. Compared with traditional landscape design, digital media technology has changed the design, modification, preservation and other modes of designers, which greatly reduces the workload of designers. Through the combination of digital media technology, the designer improves the design efficiency and saves the cost. Digital media technology has become a new key to the development of landscape design, which has been fully reflected in landscape planning and design. Through continuous innovation, digital media technology has affected the creative thinking of designers [2]. Through digital media technology, landscape design enhances the relationship between people and the environment, which will provide people with a virtual reality state, which has broken the traditional space modeling. Through digital media technology, we have increased the interest of environmental design, which will improve the interaction with the environment [3]. The effect of traditional garden design is shown by hand drawing perspective, aerial view and model. However,
the era of digital media, designers will apply more convenient and fast virtual reality means to landscape design, which can accurately simulate the framework of landscape, local modeling, ground model architecture, plants, equipment matching, light and shadow effects, etc., which will fully show the landscape expression of landscape design [4]. Through digital media technology, designers can visually simulate the dynamic landscape of the garden, which can’t be realized by traditional manual design.

2. Transformation of landscape design based on digital media technology
With the wide application of digital media technology, landscape design has changed a lot, as shown in Figure 1.

![Figure 1. The change of landscape design](image)

2.1. Transformation from perceptual planning to digital planning
With the application of digital media technology, digital thinking has changed the way landscape architects work, which will directly affect the thinking mode of designers [5]. Landscape design thinking is a process of gradual improvement from scratch, which requires us to constantly improve the design concept of landscape architects. Through gradual improvement, the designer will finally complete the whole design plan. However, the traditional planning and design is a kind of perceptual thinking. Based on digital media technology, designers can show the final design effect, which has become a kind of digital planning [6]. Through the auxiliary software technology, designers can conceive their own landscape ideas, which will be constantly revised and optimized. Through staged results presentation, designers can exchange views with partners, which will improve the final success rate. Therefore, landscape design planning is changing from sensibility to digitalization.

2.2. Change of design scope
With the application of digital media technology, landscape design has become a display of people's and nature's deeper understanding, which is a display way of changing planning and design objects. The evolution of traditional garden design has experienced the following processes, such as
wilderness, scenery, confinement, garden, garden, urban green space, park, scenic area, nature reserve, land landscape, etc. However, modern landscape planning and design is the whole process of environmental art design, which is a process of early planning and later design. In the design, the designer must consider many factors, such as environment, ecology, resources, etc., including the investigation, analysis, evaluation, planning, protection of various human and natural resources, such as land use, terrain, water, animals and plants, climate, lighting, etc. Through planning, planning, design, management and other processes, we can constitute the whole process of modern landscape planning and design, which has changed the scope of design.

2.3. Transformation of ecological planning ideas
In the traditional landscape design, plants are a way to form, protect and beautify the environment, which can establish a garden ecosystem with green plants as the main body. Through garden plants, we can keep the ecological balance and beautify the environment, which will improve people's fun. However, contemporary ecological planning is mainly based on the idea of reducing ecological environment disasters, which will have many characteristics, such as public, boundless, efficient, irreplaceable, eternal, continuity, etc., which is the development trend of contemporary green space design. Through landscape design, we can have ornamental, which will create landscape and beautify the environment. Through landscape design, we can improve the ecological adaptability of the environment. Through the landscape design, we can reasonably construct the ecological structure, which will form a harmonious and unified whole with the surrounding environment.

3. Application of digital media technology in landscape design

3.1. simulation of real terrain scene
Terrain is the carrier of all landscapes. With the wide range of design, landscape design will be from graphic design to the restoration and virtual of the real terrain, which is an important factor to enrich the landscape environment. Therefore, the simulation of the real terrain scene is shown in Figure 2.

![Figure 2. Real terrain simulation](image)

3.2. Virtual construction of road landscape
Road design must be included in the landscape design scheme, which will form a virtual landscape design integrated with terrain landscape, including slope, central separation zone, roadside trees and green belt along the line. Through simulation browsing, we can fully evaluate the coordination effect of road design and natural terrain, which will better design the road landscape, as shown in Figure 3.
3.3. Virtual plant morphology and growth

In landscape architecture, plant equipment is the life factor in landscape architecture, which changes with time. Therefore, the designer needs to realize the three-dimensional visualization of trees through virtual technology, which requires the designer to establish the structure model and visualization model of trees. Through digital media technology, we can construct a tree growth algorithm, which will show the three-dimensional effect of trees, as shown in Figure 4.

3.4. Overall landscape design effect

Digital media technology will produce interactive entertainment, which will bring freshness and interest to customers. Through the satisfaction and appreciation of visual effects, designers can foresee the scale and effect of the work when it is presented, which will achieve a pleasant effect, as shown in Figure 5.
4. Conclusions

The application of digital technology in landscape design, on the one hand, can improve the efficiency of design, on the other hand, can ensure the real accuracy of relevant data. Through modern technology, we can carry out landscape design, which can reduce the workload of designers and ensure the design effect.

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