

## Integration of Environmental Art Design and Architectural Design Based on Aesthetic Perspective

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**Abstract:** This article focuses on the integration of environmental art design and architectural design, and discusses it based on the background of people's increasing requirements for space environment aesthetics. Through literature research and theoretical analysis, this article deeply analyzes the related theories, importance, integration elements, problems and challenges of the integration from the aesthetic perspective. It is found that the integration of the two is of great significance in improving space quality, meeting diverse needs and promoting design innovation, but it faces challenges such as differences in design concepts, difficulties in technical connection and difficulties in cultural inheritance. Space, color, material and other elements interact in the fusion, affecting the overall aesthetic effect. Based on this, this article puts forward some strategies, such as unifying design concept, optimizing technology connection and strengthening cultural inheritance. Its purpose is to promote the deep integration of environmental art design and architectural design at the aesthetic level, and to provide reference and guidance for creating a more aesthetic and quality space environment.

### 1. Introduction

With the continuous progress of society and the remarkable improvement of people's quality of life, environmental art design and architectural design have become the key areas to shape human living space [1]. With the increasing aesthetic level of the public, the aesthetic requirements of architecture and its environment are becoming more and more stringent, and the integration of the two has therefore become an important development direction in the design field [2]. Environmental art design is committed to integrating various environmental elements to build a pleasant and aesthetic space environment; Architectural design focuses on building a physical building that meets people's needs [3]. In essence, both aim to achieve the unity of functionality and aesthetics through creative activities [4]. However, in the past design practice, there was sometimes a disconnect between the two, which led to the failure to form an organic whole between the building and the surrounding environment, and it was difficult to meet people's demand for high-quality space environment.

It is of far-reaching significance to study the integration of the two from the aesthetic perspective. Theoretically, it can further enrich and improve the theoretical system of design aesthetics and provide new ideas and methods for the development of environmental art design and architectural design [5]. From a practical point of view, it is helpful to guide designers to create more aesthetic and quality architectural and environmental works, improve the quality of urban and rural space environment, and effectively meet people's yearning for a better living environment.

At present, some scholars have discussed the integration of environmental art design and architectural design, but most of them focus on technology and function, and the results of in-depth and systematic research from the aesthetic perspective are still insufficient [6]. In view of this, this article takes aesthetics as the breakthrough point, deeply analyzes the internal mechanism, elements and strategies of the integration of the two, hoping to provide useful reference for promoting the deep integration of the two and help the design field to a new development height.

## 2. Environmental art design and architectural design

Environmental art design is a comprehensive subject, aiming at coordinating the relationship between people and the environment. It takes the indoor and outdoor space environment of the building as the core, covering urban planning, landscape design, interior design and other fields [7]. The design process needs to comprehensively consider the spatial layout, color matching, material selection and other factors to create a comfortable, beautiful and cultural space environment. Architectural design focuses on meeting the functional requirements of the building, taking into account its artistry and safety [8]. From the site selection and planning of buildings to the internal functional zoning and appearance design, certain design principles and norms should be followed. Architecture is not only a material entity, but also a carrier of culture and art, reflecting the characteristics of a specific era and region.

Aesthetic theory provides key support for the integration of environmental art and architectural design. The laws of formal beauty, such as symmetry, balance, rhythm and rhythm, guide the organization and collocation of form, color and material in design [9]. Aesthetic psychology helps designers understand people's perception and demand for beauty, and makes the design more suitable for the public's aesthetics. In addition, environmental aesthetics emphasizes the harmonious coexistence between man and nature (as shown in Figure 1), which urges the design to pay attention to ecological environment protection and realize sustainable development while satisfying the function and aesthetics.



Figure 1 Harmonious Coexistence between Humans and Nature

## 3. The importance of the integration of the two from the aesthetic perspective

In today's design field, it is of great significance to promote the integration of environmental art design and architectural design from the aesthetic perspective.

First of all, integration can significantly improve the quality of space. The integration of architecture and environment makes the indoor and outdoor space smoothly transition, and through reasonable planning of spatial scale, proportion and level, a rich and orderly spatial sequence is created [10]. Designers need to use landscape design to soften the rigid boundary of the building, so as to create a rhythmic space. This space can bring users a unique space experience, so that the space can not only meet the basic functional requirements, but also become a beautiful enjoyment. Secondly, meeting diverse needs is the key result of the integration of the two. With the improvement of living standards, people's requirements for architecture and its environment are no longer limited to practicality, and aesthetic needs are increasingly prominent. The integrated design not only ensures the practicability of the building, but also satisfies people's pursuit of beauty by skillfully using aesthetic elements, such as unique color matching and exquisite material selection, and realizes the organic unity of function and aesthetics. Finally, integration strongly promotes design innovation. Aesthetic perspective urges designers to break through traditional design thinking patterns and explore novel design techniques and expressions. The mutual infiltration of

environmental art and architectural design provides a broad space for design innovation, stimulates more creative inspiration, promotes the continuous development of the design industry, and creates works with more characteristics of the times and artistic value.

#### 4. Analysis of the elements of the integration of the two from the perspective of aesthetics

From the perspective of aesthetics, the integration of environmental art design and architectural design covers a number of key elements, which interact with each other to jointly build a harmonious and aesthetic space environment.

Space is the basic carrier of architecture and environment, and its integration is very important. Architectural space pays attention to the rationality and comfort of internal functional divisions, while environmental space emphasizes the coordination with surrounding nature and urban environment. In terms of scale, it is necessary to grasp the proportional relationship between architecture and environmental space. Large buildings should be equipped with open external space to avoid oppression; Small buildings can be created through exquisite environment, adding warmth to the space. At the level, the transition space, such as courtyard and cloister, can be set up to realize the natural connection between indoor and outdoor space and create a rich spatial sequence.

Color has strong visual impact and emotional communication ability. In the integration of architecture and environment, color matching should follow aesthetic principles. The main color of the building should echo the surrounding environment, for example, in the natural environment, elegant and soft colors can be integrated into the landscape; In the urban environment, we can choose the appropriate hue according to the overall color planning of the city. At the same time, using the contrast of cold and warm colors and light and shade can highlight key points or create a specific atmosphere. The use of warm colors can effectively emphasize the entrance space, thus attracting the attention of pedestrians. The following are examples of color collocation in different environments and building types (see Figure 2):

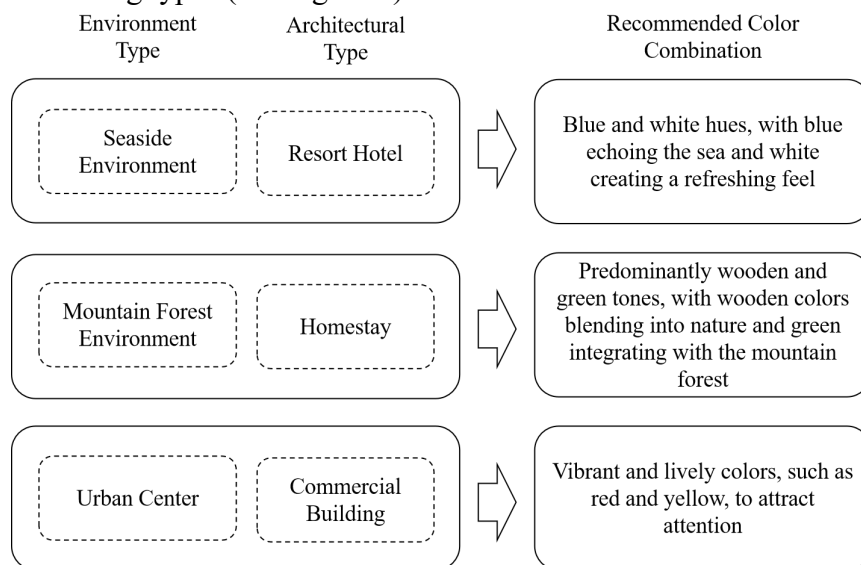


Figure 2 Examples of Color Combinations for Different Environments and Architectural Types

The selection and application of materials directly affect the texture and overall effect of buildings and the environment. Durability, functionality and aesthetics should be considered in building materials, while the materials in environmental art design pay more attention to the integration with nature and decoration. In the process of integration, we should pay attention to the contrast and coordination of materials. At the same time, the same material can present different textures under different technological treatments, which can be used to enhance the richness of design. Natural materials, such as wood and stone, can convey the sense of naturalness and simplicity, while synthetic materials can show the charm of modern science and technology. If they are properly matched, the integration of tradition and modernity can be realized, so that the building

and the environment can achieve harmony and unity in the material level and enhance the overall aesthetic value.

## 5. Problems and challenges in the integration of the two from the perspective of aesthetics

Although it is of great significance to promote the integration of environmental art design and architectural design from the aesthetic perspective, there are many problems and challenges to be solved urgently in the actual process. Architectural design often focuses on functionality, structural safety and long-term durability to ensure that buildings can meet the various practical needs of users and stand the test of time. Environmental art design pays more attention to the visual feeling, atmosphere creation and emotional experience of space, and pursues to create an artistic appeal of environmental space. This difference in design concept often leads to contradictions in the integration of the two. As shown in Figure 3:

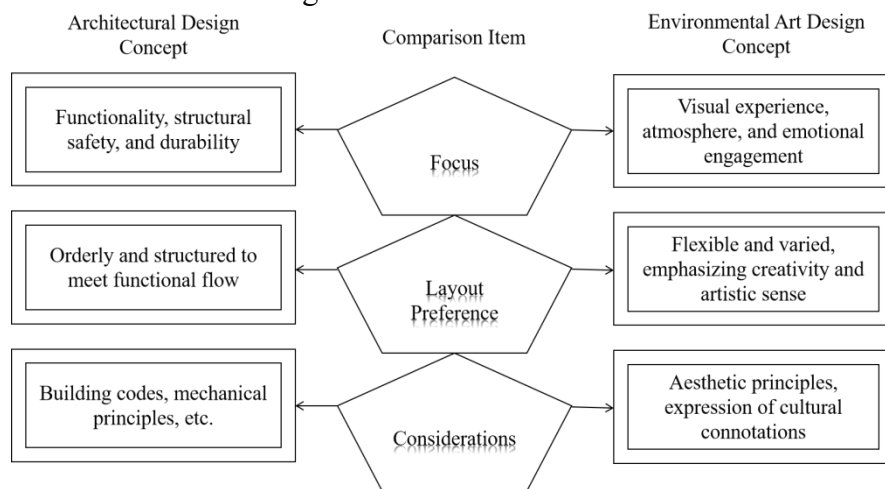


Figure 3 Comparison of Differences between Architectural Design Concepts and Environmental Art Design Concepts

Building technology mainly focuses on building structure, construction technology and equipment installation to ensure the stability and normal use of the building. Environmental art construction technology is more related to landscape construction, decoration technology and so on. There are differences in standards and applications between these two types of technologies, which leads to difficulties in technology convergence in the process of integration. For example, the thermal insulation technology of building exterior wall may limit the selection and installation of exterior wall decoration materials and affect the appearance effect of environmental art design. There are also challenges in the coordination and cooperation between different technical jobs. If the construction team and the environmental art construction team do not communicate well in the construction progress and technical details, it will easily lead to construction delay and quality problems.

With the rapid development of globalization and modernization, the design field is faced with the difficult problem of how to inherit and develop regional culture and historical culture. In the process of integration, environmental art design and architectural design sometimes pursue modern style and innovative form too much, ignoring the excavation and application of local cultural elements. Some cities blindly imitate foreign architectural styles, resulting in the loss of regional characteristics. Inaccurate understanding and expression of cultural connotation, simply piling up cultural symbols in buildings and environments failed to really convey the deep meaning of culture, making the design lack of cultural connotation and soul, and it is difficult to arouse people's emotional resonance at the aesthetic level.

## 6. Strategies to promote integration

In view of the differences between architectural design and environmental art design concepts

(refer to Figure 3), in the early stage of the project, designers from both sides should communicate deeply and participate in design planning together. By organizing joint seminars and field visits, we can fully understand each other's design intentions and priorities. In the stage of architectural design and planning, environmental art designers intervene in advance to provide suggestions from the perspective of aesthetics and space atmosphere creation. Architects provide information on architectural function and structure for environmental art design, ensuring that they reach a consensus on design concepts, and realize the harmony and unity of design based on function and aesthetics.

It is very important to establish a unified technical standard and coordination mechanism. In view of the differences between architectural technology and environmental art construction technology, the industry should formulate unified technical specifications covering all aspects of design and construction, and clarify the detailed rules such as material selection and process standards to provide technical support for the integration of the two. The establishment of interdisciplinary technical teams can strengthen communication and cooperation between different types of work. Before the construction, the construction team of architecture and environmental art shall work out the construction plan together, and define the work contents and connection points in each stage to avoid the construction delay and quality defects caused by technical connection problems. Designers should strengthen the study of local culture, extract representative cultural symbols, colors, materials and other elements, and skillfully apply them to architectural and environmental design. In traditional water towns, the architectural colors draw inspiration from the typical features of local white wall tiles, and the spatial layout continues the traditional form of small bridges and flowing water, fully inheriting the regional characteristics. The design process emphasizes the accuracy and depth of cultural expression, conveying the spiritual core of culture through spatial creation and detail design techniques, avoiding simple symbol stacking. This design method not only meets the practical functional requirements of architecture and environment, but also effectively carries and promotes regional culture, while enhancing the aesthetic value and cultural heritage significance of the overall design.

## **7. Conclusions**

From the perspective of aesthetics, this article makes a comprehensive and in-depth study on the integration of environmental art design and architectural design. In today's society, people's aesthetic demand for space environment is growing day by day, and the integration of the two has become an inevitable trend. By combing the relevant theoretical basis, the connotation and relationship of environmental art design, architectural design and aesthetic theory are clarified, which lays a solid foundation for the follow-up research.

The research shows that the integration of the two is of great significance from the aesthetic perspective. It can not only improve the quality of space, create a rich, comfortable and beautiful space, and meet people's demand for high-quality living environment; It can also give consideration to both function and aesthetics to meet diverse needs; At the same time, it strongly promotes design innovation and brings new vitality and ideas to the design field. However, the process of integration is not smooth sailing, and it faces many challenges, such as differences in design concepts, technical convergence problems and cultural inheritance difficulties. If these problems are not properly solved, it will seriously hinder the process and effect of the integration of the two. Aiming at these problems, this article puts forward a series of targeted strategies. In the initial stage of design, it is necessary to unify the design concept and strengthen communication and cooperation between designers from both sides. Technical connections should be optimized by establishing unified technical standards and coordination mechanisms to ensure consistency. The work of cultural inheritance must be strengthened, with a deep exploration of regional cultural connotations and accurate expression of their core characteristics. Through these strategies, it is expected to promote the deep integration of environmental art design and architectural design at the aesthetic level.

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