

Study on Color Matching of Plants in Garden Landscape Design

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ABSTRACT

In the new period of social development, the public's living standard and cultural level have been significantly improved. People are not limited to the pursuit of material life, but put forward higher requirements for spiritual and cultural life experience. By strengthening the optimal design of modern garden landscape, it can effectively meet the audience's demand for artistic aesthetic experience and promote their physical and mental healthy development. This paper will further analyze and discuss the color matching of plants in garden landscape design, aiming at putting forward specific matching design strategies.

KEYWORDS

garden landscape; design; plant color matching

1 Introduction

In the design practice of modern garden landscape works, plant color matching is a crucial content. Designers can greatly improve the visual art effect of garden landscape by combining the theme of the work and the aesthetic concept of the audience, and flexibly using plants of various colors, so as to promote the public to obtain beautiful visual experience. Garden landscape designers need to innovate their own design concepts, innovate the use of different artistic design techniques to match and apply plants with different natural colors, and ensure that the plants colors are harmonious and complementary, so as to avoid bringing a sense of abruptness to the audience.

2 The Color Matching Principle of Plants in Garden Landscape Design

2.1 Principle of Contrast

In modern garden landscape design, designers can not only use a single color of plants, which will easily make the audience feel monotonous and even produce aesthetic fatigue. Therefore, designers need to scientifically follow the design principle of contrast and correctly recognize the different emotional feelings of different colors, which will lead to different moods of the audience. For example, red symbolizes happiness, passion, luck, boldness and so on. Yellow symbolizes joy, warmth, hope, etc. Green symbolizes nature, vitality, calm, and peace. Blue symbolizes dream, mystery, freedom, melancholy and so on. Different colors belong to different hues. In order to enhance the contrast effect of garden landscape art design and enable the audience to obtain diversified visual aesthetic and psychological experience, designers can design and apply plants with different hues to the main color and the background color of the landscape to achieve a

harmonious landscape visual art design effect ^[1]. When warm color plants are used in the background color design, cool color plants can be appropriately used in the main landscape part for contrast design, and vice versa. It can effectively avoid the problem of overall landscape color darkness and ensure that the audience can obtain excellent visual aesthetic experience.

2.2 Principle of Overall Unity

In the process of garden landscape design, designers also need to follow the design principle of overall unity, can not just rely on their own subjective will and work experience to randomly use a variety of colors of plants, which will affect the overall artistic effect of garden landscape. Therefore, designers should go deep into the garden site to have a comprehensive understanding, collect and sort out the geospatial information and natural climate information of the garden, and combine the aesthetic concepts and needs of modern audiences to reasonably apply the plant colors that match the style. In the garden landscape design, trees, shrubs and cover plants are the most important three parts in plant design.

Designers need to scientifically analyze the appearance and color of these three basic parts, and carry out reasonable planning and layout design to ensure that the vegetation landscape presented in the final is coordinated, unified and scattered with the architectural style of surrounding gardens, and it can be completely integrated into the entire garden ecological landscape environment and become a harmonious whole.

2.3 Adaptability Principle

In the practice of garden landscape design, designers also need to follow the design principle of adaptability and fully consider the adaptability of normal and healthy growth of plants in the landscape environment, rather than blindly matching design for the overall beauty. In the growth process, plants' color and state will be affected by the ecological environment to a certain extent, and soil moisture, natural light and other factors will also affect the healthy growth of plants with different colors ^[2].

Therefore, in order to ensure that plants can play a long-term role in landscaping, purifying the air, and improve the growth and development effect of plants, designers need to attach great importance to the adaptability of plants of different colors in the environment, strive to build a harmonious and stable ecosystem, and combine the growth habits and cultivation requirements of plants with different colors to reasonably match and apply plants, so as to prevent plants from easily withering and dying in the garden landscape, which may affect the overall visual effect of the landscape.

3 The Significance of Color Matching of Plants in Garden Landscape Design

3.1 Enhance the Effect of Garden Landscape Decoration Design

In the creation of landscape art, color is an extremely important visual design element, which can often play a good role in decoration and beautification. Garden landscape designers need to combine the characteristics of different colors and the theme of landscape works, and use the corresponding colors reasonably, so as to enhance the spatial hierarchy of the garden landscape and effectively guarantee the overall artistic design effect of the garden landscape. Designers need to fully take into account the rationality of garden landscape structure design, and make the overall landscape show better artistic beauty and unity through strengthening the application of different

hues and colors, which will not make the audience feel monotonous or abrupt. Garden landscapes in different regions will have different artistic styles. By combining the landscape characteristics of local garden architectures and the aesthetic needs of the audience, designers can flexibly adjust, match and apply plants of corresponding colors, which can better highlight the regional cultural characteristics and landscape themes, make the colors of garden landscape works present diversified decorative design effects, and make the public get rich visual experience.

3.2 Create a Garden Landscape Art Atmosphere

In the garden landscape design, the application of plant matching design with different colors can play an important role in creating a good artistic atmosphere, and the colors of different color systems are the basis for laying the theme style of landscape works. For example, in the traditional royal garden landscape design, designers mostly use yellow, which symbolizes authority, nobility and solemn atmosphere, to create a solemn artistic atmosphere. In the design of folk garden landscape, designers will use red, which symbolizes joy, warmth and enthusiasm, so as to create a natural and pleasant artistic atmosphere^[3].

In the modern garden landscape design, designers should be good at matching and applying plants of different colors to create an artistic atmosphere in line with the landscape environment and theme style. For example, in the garden landscape design with green as the main tone, designers can carry out the decoration design by adding other warm color plants, so as to better create a relaxed and pleasant atmosphere.

4 Color Matching Strategies of Plants in Garden Landscape Design

4.1 Flexibly Match and Apply the Changing Characteristics of Plant Color

In the matching and application of plants in modern garden landscape design, designers need to scientifically grasp the color change characteristics of different plants, deeply learn and understand the color change classification of plants, and carry out the color matching design of garden landscape plants according to the actual situation.

Under normal circumstances, according to the related causes, the plant color changes can be divided into the following two types. The first is the natural color change. Under the influence of natural climate and environment, different plants will show different colors at different times, and the seasonal colors of plants will change according to certain rules^[4].

Therefore, when using natural plants that will produce color changes, designers need to fully take into account the natural color change of plants in the landscape, and integrate the overall color coordination operations on the basis of the unified style of garden landscape to ensure that the overall harmonious artistic design effect can be achieved.

The second is artificial color change. Most plants in the garden landscape will grow or wither with the change of seasons. In order to maintain the beauty of the garden landscape works for a long time, designers will require relevant workers to replace the landscape green plants in time at different times, and adopt plants suitable for colors in the current season for matching design, in order to achieve the purpose of the overall color coordination and unity of the garden landscape.

Whether it is the natural color change, or the artificial color change, garden landscape designers need to use plants of different colors reasonably according to the theme design style of garden landscape and the overall design principle, so that these plants with different hues and colors can be fully integrated into the surrounding landscape ecological environment, and give full play to their beautification and decoration roles.

4.2 Plant Color Matching based on the Audience's Aesthetic Concepts

In the process of garden landscape design, designers need to make color matching based on the aesthetic concepts of modern audience to ensure that the plant expression content presented in the landscape can meet audience's aesthetic experience needs. In different periods, people of different nationalities will have different aesthetic tastes, so designers need to rationally match and use people's favorite color plants according to the local customs and aesthetic concepts of people in the location of the garden landscape, and fully take into account the visual color experience needs of the vast majority of people. Designers should conduct in-depth research and analysis in the market, strengthen the interaction and communication with local people through various channels, and comprehensively and timely grasp and understand their aesthetic concepts and hobby needs, so as to use plants of corresponding colors in garden landscape design in a targeted manner, so that the public can not only be fully satisfied in the visual sensory experience when visiting, but also get emotional resonance in the subsequent emotional experience, and the garden landscape can win people's general recognition and approval.

4.3 Comprehensive Use of Color Matching Design Techniques

In the practice of garden landscape design, designers can use color contrast and analogy to design plants. First of all, in the application of color contrast design technique, garden landscape designers need to fully highlight the hue differences of different color plants in the way of complementary colors, and bring diversified visual experience to the audience. For example, in the cold color landscape works with relatively monotonous background colors, designers can use plants of bright and warm colors for comparative design, optimize the design into flower carvings or flower beds, and plan it in the central area of the garden landscape to create a relaxed and pleasant atmosphere. Secondly, in the application of color analogy design technique, garden landscape designers need to combine the theme style and rationally adopt plants with relatively close colors to carry out matching design. For example, designers can use the combination of orange and yellow, and yellow and green, and they can use different shades of the same color plants to make the matching design, which can enhance the spatial hierarchy of garden landscape works.

5 Conclusion

To sum up, in modern garden landscape design, designers must fully realize the importance of the application of different colors of plants, which can not only beautify and decorate the landscape, but also convey different emotions, and meet the artistic aesthetic and emotional experience needs of the public. Therefore, designers need to start from the whole, according to the theme style and the audience situation of landscape works reasonably use different design techniques, and rich and perfect color plants matching design content, in order to create unique garden landscape works.

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