

Application of Color in Furniture and Interior Design

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Abstract: In the wonderful field of furniture and interior design, color is like a magical element that gives the space a vivid vitality. This article explores the application of color in various interior spaces. In the living room, according to the psychology of color and the specific proportion of the law of subtle color matching, to create a comfortable and attractive environment; in the bedroom, the use of color hierarchy to create a peaceful and relaxing atmosphere; the kitchen and dining room is a precise balance of the impact of color on the appetite and mood. At the same time, in-depth analysis of the furniture color and space size, style of the intrinsic correlation and collocation tips, such as small space with light colors to expand the visual, different styles of furniture color has its own characteristics. Particular emphasis is placed on the preferences and needs of the occupants, and with the help of virtual reality, color software and other innovative tools and technologies to provide scientific support for color selection. The aim is to present a detailed and valuable guide for designers to help create an ideal interior space that is aesthetically pleasing and practical, and that meets the aspirations of the occupants.

Keywords: furniture; interior design; color application

1. Introduction

In furniture and interior design, the application of color is a crucial link. Color can not only affect the visual effect of the whole space, but also influence human emotions and psychological feelings to a large extent. Through the reasonable use of color, designers can create both beautiful and comfortable living and working environments. The application of color in furniture and interior design is a complex and detailed process that requires designers to consider a variety of factors in order to create both beautiful and practical interior space.

2. Color in interior design application

2.1 Living room color design strategy

In the living room color design strategy, the primary consideration is to create an environment that is both comfortable and visually appealing. Color psychology states that color can influence human emotions and behavior. For example, soft blue or green can bring a sense of serenity, while warm tones such as orange or yellow can create a warm and energetic atmosphere. Therefore, it is crucial to choose the right color for your living room based on its function and the preferences of your family members.

In the actual design, you can use the 60-30-10 rule, that is, the main color occupies 60% (such as walls), secondary colors account for 30% (such as sofas), and accent colors account for 10% (such as pillows, decorative paintings). For example, a modern style living room can choose gray as the main color, with wood furniture as the secondary color, and then use bright yellow decorations as accents to increase the vitality of the space. In addition, the effect of light on color should not be overlooked. Natural light will make colors look more realistic, while artificial lighting may change the visual effect of colors. Finally, considering the depth and texture of colors is also key to living room color design[1]. Dark colors can lend a sense of luxury to a space, but may make a small space appear smaller, so choosing lighter shades or using vertical stripes can visually heighten the space in a small living room. Meanwhile, textures in different materials, such as velvet, leather or metal, can add layers to a living room through their unique color reflections and textures.

2.2 Bedroom color and mood creation

Bedroom as a personal private space, the choice and matching of colors play a vital role in creating mood. According to color psychology, soft blue can bring a sense of tranquility and relaxation, helping to improve sleep quality. Warmer shades such as pink or light orange, on the other hand, can create a warm, cozy mood in which people feel at ease and relaxed.

In the design of the bedroom color, you can consider using the "color hierarchy method", that is, through the walls, bedding, curtains and other elements, from the background color to the accent color, the formation of light to dark color hierarchy[2]. For example, the walls painted lavender, with dark purple bedding, and then with beige or white furniture, not

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only to create a sense of depth, but also to balance the psychological impact of the hue, so that people in the bedroom not only to relieve stress, but also to maintain a good emotional state.

2.3 Kitchen and dining room color matching

In interior design, the color matching of kitchen and dining room is crucial because they directly affect people's appetite and mood. According to color psychology, warm tones such as orange and yellow stimulate the appetite and are often used to create a warm, intimate dining atmosphere. On the other hand, if one wishes to create a more calm and elegant environment, consider using blue or green. However, it is important to note that overuse of cool colors may suppress the appetite, so the right balance needs to be found in the design. For example, green can be used as an accent color with neutral-toned furniture to create a sense of freshness without being too cold.

In addition, the brightness and saturation of the color is also a factor that should not be ignored. Highly saturated colors can bring energy, but may be too harsh for a restaurant environment that requires relaxation. Conversely, low-saturation colors create a more serene and comfortable dining space. For example, beige or light gray walls paired with dark wood furniture can look elegant without being overpowering.

Lastly, designers should give full consideration to the personal preferences and lifestyles of users. For example, for families who like to cook for family gatherings, bright, lively colors may be chosen to stimulate communication and interaction. For users who like to be quiet and alone, they may be more inclined to choose soft and serene colors to create a private space of their own.

3. Furniture color selection and matching

3.1 The relationship between furniture color and space size

In interior design, the relationship between furniture color and space size is crucial. Small spaces usually benefit from light, bright colors, such as the use of white or light tones, can visually expand the sense of space, which is based on the "forward and backward" theory of color psychology. For example, a 10-square-meter bedroom can appear more spacious if the furniture and walls are in light colors. Conversely, dark-colored furniture can be oppressive in a small space, but they can create a warm, cozy atmosphere in a large space, such as a luxurious library or lounge.

In large spaces, designers can be bolder with color. Through contrasting colors or strong color blocks, the visual focus can be directed to avoid the space appearing empty. For example, an open-plan living room can choose a set of dark sofas as the visual center, surrounded by neutral or bright-toned furniture to balance the sense of space[2]. Therefore, the choice of furniture color should be based on the actual size of the space and design goals, through reasonable color matching, you can create both beautiful and practical living environment.

3.2 Color characteristics of different styles of furniture

In furniture color design, different styles of furniture have unique color characteristics, which are often closely related to the culture, art style and aesthetic concepts of a particular period. For example, traditional classical style furniture, such as Victorian or Louis XV style, often uses dark wood, such as cherry or ebony, with gold or silver decorations, creating a sense of luxury and historical heaviness[3]. Modern minimalist style tends to use neutral or light tones, such as white, gray or light wood, emphasizing clean lines and functionality, reflecting the design concept of "less is more".

Vintage industrial style furniture, such as old factory furniture, usually using bare metal texture and original wood color, with dark tones such as dark brown or black, this color combination not only shows the traces of history, but also conveys a rugged but not lose the warmth of the atmosphere. On the contrary, Scandinavian style is dominated by bright wood and white colors, occasionally embellished with light blue or green, creating a bright, spacious and close to nature sense of space.

During the design process, designers can refer to the theory of color psychology, such as using furniture in warm tones (e.g., orange, red) to increase the vitality and warmth of the space, while cool tones (e.g., blue, green) can bring about an atmosphere of serenity and relaxation. For example, children's room furniture can be chosen in bright colors to stimulate children's imagination, while bedrooms are more suitable for soft or neutral tones that help create a good sleeping environment[4].

3.3 Furniture color and wall, floor coordination

In the coordination of furniture color and wall and floor, the art of color matching is particularly important. First of all, dark-colored furniture can often give the space a sense of stability, and light-colored walls to form a contrast, so that the space has a stronger sense of hierarchy. For example, a dark brown leather sofa with beige walls is both classic and modern.

On the other hand, if the room is small, choosing lighter colored furniture can visually expand the sense of space.

Light-colored furniture coordinated with light-colored walls and floors, such as white or light wood color, can make the space appear more open and bright. For example, Scandinavian style home design often uses this technique to maximize the use of natural light and create a spacious and comfortable living environment[5].

4. Tips and advice on color selection and matching

4.1 Considering the needs and preferences of the occupants

When designing colors, it is crucial to consider the needs and preferences of the occupants. For example, if the occupant is a nature lover, he or she may prefer to choose natural tones such as green and wood colors to create a peaceful and comfortable atmosphere. Designers can analyze this through color psychology, e.g. blue brings a sense of tranquility and is suitable for bedrooms to help people relax and get a good night's sleep. On the other hand, if the occupant is an artist, he or she may prefer bold and vivid color combinations to reflect his or her unique aesthetic and personality. Therefore, designers need to have an in-depth conversation with the occupants to understand their habits, hobbies and expectations of the space, and use this as a basis for customizing the color scheme.

4.2 Application of innovative tools and technologies in color design

In modern color design, the application of innovative tools and technologies greatly enriches the design means and expression. For example, virtual reality (VR) and augmented reality (AR) technologies allow designers and clients to experience the effect of color matching before actual construction. Through VR, the interior environment under different color schemes can be simulated, and the impact of color on the sense of space and atmosphere can be observed from different angles, which improves the accuracy of design and customer satisfaction[6]. In addition, color selection software such as AdobeColor and PantoneStudio provide rich color libraries and matching suggestions, which, combined with AI algorithms, can quickly generate a color scheme that matches the design style, saving a lot of trial-and-error time.

The application of innovative tools is not limited to the design stage, but also includes color management during the construction process. For example, through digital paint mixing equipment, the paint color can be precisely controlled, avoiding the problem of color difference that may occur in traditional manual color mixing, and ensuring the accurate landing of the color design. The application of innovative tools and technologies in color design can help designers use the language of color more efficiently and accurately to create interior environments that meet people's emotional needs and aesthetic expectations.

5. Conclusion

To sum up, this study deeply analyzes the application of color in furniture and interior design, and systematically explains the matching strategy of color in different spaces, and how to realize the subtle use of color according to the needs of the occupants and the style of the space. Through rigorous analysis and practical case studies, it is clear that color is not only a visual presentation, but also a key element that affects the living experience and emotional resonance. With the continuous advancement of material science and digital technology, the application of color in interior design will develop in a more refined, intelligent and sustainable direction, and this study is expected to become an important cornerstone in this academic process, inspiring further exploration and innovation in the academic and industry sectors.

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