The Role of Colours in Interior Design of Liveable Spaces

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Abstract:
Colors play a crucial role in interior design, as they contribute to the aesthetic appeal, psychological and physiological well-being, and personal expression within a space. This paper provides a brief analysis of the three primary color components used in interior design, exploring their basic implications and variations. It also addresses common challenges in color application and investigates the employment of colors in various interior design spaces. Despite the undeniable importance of color in interior design, it is often overlooked during the initial design process. Colors serve as a universal visual language, influencing our lives and conveying meanings worldwide. Interior design heavily relies on color schemes, as they are the key ingredient for expressing emotions and creating visual impact within a space. The combination of colors, lighting, and shades in interior design allows for clear interpretations and connotations. Furthermore, the study of color has expanded through the development of modern psychology; influencing fields such as architecture, interior design, urban planning and marketing. Even Swiss psychologist Carl Jung associated the four temperaments with specific colors: sunshine yellow, earth green, cool blue, and fiery red. By understanding the role and impact of colors in interior design, professionals can create engaging and meaningful spaces that resonate with occupants and reflect their cultural background, aesthetic preferences, and personality.

Keywords: colors, interior design, psychological well-being, physiological well-being, architecture, urban planning.

Introduction
Color is an integral element in the field of interior design, playing a crucial role in creating visually appealing and harmonious living spaces. The proper use of colors can transform the ambiance of a room, evoke emotions, and enhance the overall aesthetic experience for occupants and users (Kobayashi & Hatcher, 2015). Understanding the principles of color theory and its application in interior design is essential for designers to effectively utilize colors as a powerful tool in their creative process.

Color theory encompasses a range of concepts and principles that guide designers in the selection, combination, and application of colors. It explores the properties of colors, their relationships, and the psychological and emotional effects they have on individuals. By understanding color theory, designers can make informed choices about color schemes, creating harmonious palettes that evoke specific moods.
and convey desired messages within a space (Eiseman, 2017). The psychological impact of color is a significant aspect of color theory in interior design. Different colors have the ability to evoke various emotions and affect human behavior. For example, warm colors like red and orange can create a sense of energy and excitement, while cool colors like blue and green can evoke feelings of calmness and relaxation (Birren, 2013). By understanding the psychological effects of colors, designers can strategically use them to create specific atmospheres and influence the overall mood of a space.

Furthermore, the development of modern psychology has contributed to the understanding and application of color in interior design. The study of color psychology has expanded our knowledge of how colors can impact human behavior, perception, and well-being. Researchers and psychologists have explored the relationship between color and emotion, paving the way for evidence-based design approaches that enhance user experiences (Gökçakan & Gökçakan, 2016).

Statement of the Problem

While colors play a significant role in interior design, there are several challenges and areas of concern that need to be addressed. These challenges can hinder the effective use of colors and may impact the desired outcomes in creating liveable spaces. Therefore, it is important to identify and understand the key problems associated with color application in interior design.

- Lack of Understanding of Color Psychology: One of the main problems is the limited understanding of color psychology among designers. Without a comprehensive knowledge of how colors can influence emotions and behavior, designers may struggle to create the desired atmosphere and ambiance within a space. This lack of understanding can lead to mismatched color choices or ineffective use of colors.

- Difficulty in Achieving Harmonious Color Schemes: Creating harmonious color schemes requires a careful balance of hues, tones, and shades. Designers may face challenges in selecting the right combination of colors that work well together, both visually and emotionally. Without a cohesive color scheme, the interior space may feel chaotic or uninspiring.

- Cultural and Contextual Relevance: Colors hold cultural and contextual significance, and their interpretation can vary across different regions and societies. Designers must consider the cultural background and preferences of the target audience to ensure that the chosen color palette aligns with their expectations and creates a meaningful connection.

- Lack of Awareness of Emerging Color Trends: The field of interior design is ever-evolving, and color trends change over time. Designers may face challenges in keeping up with the latest color trends and innovations. Without staying updated, they may rely on outdated or repetitive color schemes, missing out on the opportunity to create fresh and engaging spaces.

- Lighting and Material Considerations: Lighting and material choices can significantly impact how colors are perceived within a space. Designers must consider the natural and artificial lighting conditions, as well as the reflective properties of materials, when selecting colors. Failure to address these considerations may result in the colors appearing differently than intended, compromising the overall design vision.

Addressing these problems is crucial to ensure the successful implementation of colors in interior design.

Aim of Study

This study aims to explore the role and functions of colors in interior design, specifically focusing on the relationship between color and emotion in interior spaces. The following objectives will guide the study:

Objectives of the Study

- To examine the relationship between color and emotion in interior spaces
- To explore the role of colors in interior design
• To compare, contrast, and combine how different colors reflect different emotions.

**Justification**

Understanding the role and functions of colors in interior design is crucial for several reasons.

• Enhancing Aesthetic Appeal: Colors have the power to transform the visual appeal of interior spaces. By selecting appropriate color palettes and combinations, designers can create visually pleasing and harmonious environments that engage and inspire occupants. Understanding the role of colors in achieving aesthetic goals is essential for creating visually appealing interior designs.

• Creating Emotional Impact: Colors have a profound impact on human emotions and can elicit specific emotional responses. By strategically incorporating colors that reflect desired emotions, designers can create interior spaces that evoke positive feelings and contribute to the overall well-being of occupants. Understanding the relationship between color and emotion allows designers to create emotionally impactful environments.

• Personal Expression and Cultural Relevance: Colors in interior design can be used to reflect the personality and preferences of the occupants or to align with the cultural context of the space. Understanding the role of colors in personal expression and cultural relevance enables designers to create spaces that resonate with the intended users and create a sense of identity and belonging.

• Functional Considerations: Colors can also serve functional purposes in interior design. For example, certain colors can affect the perception of space, making it appear larger or smaller. Colors can also influence the perception of temperature, with cool colors creating a sense of freshness and warmth colors generating a cozy atmosphere. Understanding the functional aspects of colors allows designers to optimize the functionality and usability of interior spaces.

• Marketability and Branding: Colors play a significant role in branding and marketing. Different industries and businesses often use specific color schemes to convey their brand identity and create a memorable visual impression. Understanding the role of colors in branding and marketability allows designers to align interior spaces with the desired brand image and target audience.

**Literature Review**

**Definition of Key Concepts**

**What is Interior Design?**

Interior design is the art and science or the discipline that involves enhancing the interior of a building or living space to create a healthier and more aesthetically pleasing environment for its occupants. It goes beyond mere decoration and involves the organization and coordination of various elements within the interior space (dbpedia.org, 2023).

Interior designers are responsible for considering and integrating elements such as paints and finishes, cabinetry, lighting, ventilation, windows, plumbing, fixtures, and the creation and placement of non-load-bearing walls. Their goal is to create a functional and pleasant space that meets the needs and preferences of the users while also adhering to environmental, safety, and accessibility requirements (Desmet, 2003).

Interior design combines both the artistic and scientific aspects of enhancing interior spaces to create well-designed, functional, and visually appealing environments for the occupants.

**What is Color?**

Color is a perceptual phenomenon caused by the differing qualities of light reflected or emitted by objects or sources. It is described in terms of an individual's perception of hue, lightness, and saturation for objects, and hue, brightness, and saturation for light sources (Coursehero, 2023).

In the context of design and interior design, color is a powerful tool used to create stylish schemes and enhance the visual appeal of spaces. Interior designers need to have a deep understanding of colors, including their psychological effects and meanings in different contexts. By combining colors effectively, designers can evoke specific states of mind in
observers and create positive or negative effects on them (Sadat, 2011).

Colors have the ability to influence the atmosphere and mood of a room, whether it be calming, cheerful, comfortable, stressful, or dramatic. Additionally, color combinations can create the illusion of a larger or smaller space. Therefore, it is essential for interior designers to carefully select appropriate colors to achieve the desired visual and emotional impact for their clients (HGTV, 2016; Al-Akram, 2013).

![Figure 1. Colours in Interior Design. Source: Pinterest (2021)](image)

**Related Theoretical Foundations**

**Colour Psychology**

Color psychology is the field of study that explores how different hues influence human behavior (Gokcakan and Gokcakan, 2016). It is highly relevant to interior design due to the significant impact that color selection can have on a person’s mood, mindset, and overall disposition. The influence of color on our mental and emotional well-being can be traced back to ancient civilizations like the Egyptians, who recognized and utilized the effects of color to achieve holistic benefits (Cosulich Interiors, 2020).

Understanding color psychology is crucial in interior design as it allows designers to intentionally select colors that create desired emotional responses and enhance the overall experience of a space. Colors can evoke a range of emotions, such as calmness, energy, happiness, or tranquility. By strategically incorporating specific colors into an interior design scheme, designers can create environments that promote well-being, productivity, and a harmonious atmosphere.

Color psychology delves into the study of how hues impact human behavior, and its importance in interior design lies in the ability to use color strategically to influence mood and create a desired emotional experience within a space.

**Development of Modern Psychology**

The advancement of modern psychology has significantly contributed to the exploration of color and its applications in various fields, including design, marketing, architecture, and interior design, over the past several decades (Kathryn, 2019). Swiss psychologist Carl Jung, in particular, made notable contributions by associating colors with the four temperaments: sunshine yellow, earth green, cool blue, and fiery red (Jung, 1959).

The study of color in psychology has provided valuable insights into how different hues can impact human perception, emotions, and behavior. This knowledge has been effectively utilized in design and marketing strategies to
create specific impressions and influence consumer responses. In architecture and interior design, the understanding of color psychology has played a pivotal role in crafting environments that evoke desired emotions and meet the functional and aesthetic needs of individuals.

By considering the psychological effects of colors, designers can make informed choices when selecting color schemes, thereby enhancing the overall experience and atmosphere of a space. The development of modern psychology has thus enriched the study of color and its practical applications in various design disciplines.

The Color Theory in Interior Design

The color theory in interior design is a framework that explores the principles and concepts behind the use of colors in creating visually appealing and harmonious interior spaces. It involves understanding the properties of colors, their psychological and emotional effects, and how they interact with one another.

Color Wheel: The color wheel is a fundamental tool in color theory. It consists of primary colors (red, blue, and yellow), secondary colors (orange, green, and violet), and tertiary colors (created by mixing primary and secondary colors). The color wheel helps designers understand color relationships and create pleasing color schemes (Eiseman, 2017).

![Figure 2. Colour Wheel](source: Architecture Digest (2019))

Color Harmony: Color harmony refers to the arrangement of colors in a way that is visually pleasing and balanced. Different color schemes, such as complementary (using colors opposite each other on the color wheel), analogous (using colors next to each other), and monochromatic (using variations of a single color), can be employed to achieve color harmony (Edwards, 2004).

Color Psychology: Colors evoke psychological and emotional responses in individuals. For example, warm colors like red and orange can create a sense of energy and excitement, while cool colors like blue and green can evoke feelings of calmness and relaxation. Understanding color psychology allows designers to create desired atmospheres and influence the mood of a space (Birren, 2013).

Contrast and Balance: Contrast and balance are important principles in color theory. Contrast refers to the juxtaposition of colors with differing properties, such as light and dark or...
warm and cool, to create visual interest. Balance ensures that colors are distributed harmoniously throughout a space, avoiding overwhelming or unbalanced color schemes (Eiseman, 2017).

Lighting and Color: Lighting greatly influences the perception of colors in an interior space. Natural and artificial lighting can alter the appearance of colors, affecting their hue, intensity, and saturation. Designers must consider lighting conditions to ensure the desired color effects are achieved (Kobayashi and Hatcher, 2015).

By applying the principles of color theory, interior designers can effectively use colors to create desired moods, enhance spatial perception, define focal points, and express the personality and function of a space. The color theory serves as a valuable guide for selecting, combining, and utilizing colors in interior design to create visually pleasing and cohesive environments.

**Primary Color Theory**

Primary color theory is a fundamental concept in color theory that explores the three primary colors—red, blue, and yellow—and their role in creating all other colors. Understanding primary colors is crucial for color mixing and creating color palettes in various design disciplines, including interior design.

Primary Colors: In color theory, primary colors are the foundational colors that cannot be created by mixing other colors. They are essential for color mixing and serve as the building blocks for all other colors. The primary colors are red, blue, and yellow (Itten, 1973).

Color Mixing: By combining different proportions of the primary colors, designers can create a wide range of secondary and tertiary colors. Secondary colors, such as orange, green, and violet, are formed by mixing two primary colors, while tertiary colors result from mixing a primary color with a secondary color (Edwards, 2004).

Understanding primary color theory allows designers to have control over color combinations, create harmonious palettes, and effectively communicate their intended visual messages through color choices. It provides a foundation for color selection in interior design, ensuring that colors work together cohesively and create the desired atmosphere and visual impact within a space.

**Methodology**

A thorough review of existing literature, including books, academic journals, and reputable online sources was done to gather information on color theory, color psychology, cultural associations of colors, and emerging
color trends in interior design. This provided the foundation of knowledge on which this paper relied.

**Results and Discussions**

**Relationship between Color and Emotion in Interior Spaces**

**Color's Influence on Human Emotions**

The influence of color on human emotions is a well-documented aspect in the field of psychology and design. Colors have a profound impact on human beings both psychologically and physiologically (Andrew, 2015). The relationship between color and emotion is a significant aspect of design, as evidenced by its influence in various fields such as product design, marketing, color therapy, color mediation, and image consulting (Beusterien et al., 1996).

Understanding the role of emotions in design is essential to create products that evoke positive emotional responses from users, including feelings of affection, appreciation, or admiration (Norman & Ortony, 2003). However, considering emotions in design help to mitigate potential negative emotional issues that may arise due to product design (Norman, 2002; Norman, 2004).

Different colors have the ability to evoke specific emotional responses and can greatly impact the mood and atmosphere of an interior space. Understanding the psychological effects of color is crucial for interior designers to create spaces that elicit desired emotional experiences for occupants.

Numerous studies have examined the relationship between color and emotions. One prominent study by O'Connor and colleagues (2011) investigated the emotional responses evoked by different colors. The findings revealed that warm colors such as red were associated with feelings of arousal and excitement, while cool colors like blue were linked to calmness and relaxation. The study also identified specific emotional associations with other colors, such as yellow representing happiness and green symbolizing peace and tranquility.

In their book "Color Design: Theories and Applications in Interior Design," Cheng and Yang (2019) delve into the psychological impact of color in interior design. They discuss how warm colors can create a sense of intimacy and energy, while cool colors can promote a feeling of serenity and stability. The authors highlight the importance of understanding cultural associations and personal preferences when considering the emotional impact of color. Another influential researcher in the field of color psychology is Eva Heller. In her book "Psychologie de la couleur: Effets et symboliques," translated as "Psychology of Color: Effects and Symbolism," she explores the emotional and symbolic aspects of color. Heller (2017) delves into the historical and cultural significance of different colors, examining how they have been perceived and interpreted throughout various societies and time periods.

Furthermore, in the field of environmental psychology, studies have been conducted to understand the emotional and physiological effects of color in different contexts. For example, a study by Kwallek et al. (1997) investigated the impact of color in work environments and found that warm colors like red and yellow increased arousal and attention, while cool colors like blue and green enhanced relaxation and focus.

The cited studies and research highlight the influential role of color in evoking emotional responses. Interior designers can leverage this knowledge to create spaces that elicit specific emotions and cater to the needs and preferences of occupants.

**Colour and Interior Design**

Color is a fundamental aspect of interior design, playing a crucial role in creating visually appealing, harmonious, and functional spaces. It has the power to transform the atmosphere, evoke emotions, and communicate messages within an interior environment. Understanding the principles of color and its application in
interior design is essential for creating cohesive and successful design schemes.

One of the primary functions of color in interior design is to set the overall mood and ambiance of a space. Warm colors like red, orange, and yellow create a sense of coziness and energy, making them suitable for spaces such as living rooms or dining areas (Pile, 2019). On the other hand, cool colors like blue, green, and purple promote calmness and relaxation, making them ideal for bedrooms or spa-like environments (Cheng & Yang, 2019). By carefully selecting and combining colors, designers can influence the emotional response of occupants and enhance their experience within a space. Color also plays a role in defining spatial perception and visual hierarchy. Through the use of color, designers can emphasize or de-emphasize certain elements within a space. For example, using a bold and vibrant color on an accent wall can draw attention to that area and create a focal point (Cheng & Yang, 2019). Similarly, employing lighter colors on walls and ceilings can create an illusion of spaciousness, making a small room appear larger (Pile, 2019).

Furthermore, color can be used to enhance functionality and support specific activities within a space. Different colors have been associated with specific psychological and physiological effects. For instance, green is often associated with nature and is believed to promote a sense of relaxation and well-being (Cheng & Yang, 2019). This makes it suitable for areas such as offices or study rooms where concentration and productivity are desired. In contrast, vibrant and energetic colors like yellow or orange can stimulate creativity and social interaction, making them suitable for spaces like art studios or gathering areas (Cheng & Yang, 2019). When designing interior spaces, it is crucial to consider the principles of color harmony and balance. The selection and coordination of colors should take into account factors such as color temperature, intensity, and complementary or analogous color schemes. Creating a harmonious color palette ensures that the colors work together cohesively and create a visually pleasing environment (Pile, 2019).

**Color and Architecture**

Color plays a significant role in architecture, as it has the ability to enhance and transform the built environment. It adds visual interest, communicates meaning, and influences the overall perception and experience of a structure. Architects utilize color in various ways to create dynamic and engaging architectural designs.

One aspect of color in architecture is the selection of exterior colors for buildings. The choice of colors for facades, roofs, and other exterior elements can greatly impact the appearance and identity of a structure. Architects consider factors such as the surrounding environment, cultural context, and desired visual impact when determining the appropriate color palette for a building (Olsen, 2016). For example, vibrant colors may be used to create a striking landmark or to reflect the cultural heritage of a place, while muted tones may be employed to blend harmoniously with the natural surroundings. In addition to the exterior, color is also incorporated into the interior spaces of a building. Interior architecture involves the selection of colors for walls, floors, ceilings, and other surfaces within a structure. The use of color in interiors can influence the mood, atmosphere, and functionality of a space (Chapman, 2018). Warm colors like red and orange can create a sense of energy and stimulate activity, making them suitable for social or active areas. On the other hand, cool colors like blue and green can promote a calm and relaxing environment, making them ideal for spaces such as bedrooms or meditation rooms.

Moreover, architects utilize color to define spatial qualities and highlight architectural features. They strategically apply color to draw attention to specific elements, create visual hierarchy, or emphasize particular design details. For example, color can be used to accentuate columns, arches, or other structural elements, adding depth and dimension to the architectural composition (Kulkarni & Rajesh, 2017). The use of color in architecture extends beyond the physical aspects of a building. It also considers the psychological and emotional impact on individuals. Different colors have been
associated with specific emotions and can evoke different responses in people. Architects leverage this knowledge to create spaces that elicit desired emotional experiences. For instance, calming blue hues may be employed in healthcare settings to promote a sense of tranquility and healing, while vibrant and stimulating colors may be used in educational environments to enhance focus and creativity (Chapman, 2018).

Color is an integral element of architecture, influencing both the exterior and interior design of buildings. Architects carefully consider the selection and application of color to create visually appealing, functional, and meaningful spaces. By leveraging the psychological, cultural, and aesthetic aspects of color, architects can shape the built environment and enhance the overall human experience.

**Color and Urban Planning**

Color plays a significant role in urban planning as it contributes to the overall character, identity, and livability of cities and urban spaces. The strategic use of color in urban planning can enhance the visual aesthetics, create a sense of place, and improve the quality of life for residents and visitors.

One way color is integrated into urban planning is through the design of public spaces such as parks, plazas, and streetscapes. The selection of color schemes for public spaces can help create a cohesive and visually appealing environment. Colors that harmonize with the natural surroundings or reflect the cultural context of the area can contribute to a sense of place and community identity (Jacobs, 2018). For example, using earth tones and natural colors in park design can create a connection with the natural environment and promote a calming and inviting atmosphere. In addition to aesthetics, color is also used to enhance safety and way finding in urban environments. The strategic use of color can help define pedestrian pathways, highlight important landmarks, and improve navigation within the city. For instance, color-coded signage, painted crosswalks, or colored pavement markings can provide visual cues for pedestrians and drivers, increasing safety and ease of movement (Lynch, 1960). Bright and contrasting colors are often employed in urban areas with heavy foot traffic or complex transportation systems to improve visibility and orientation.

Furthermore, color can be used to address social and environmental concerns in urban planning. The choice of color for buildings and infrastructure can have implications for energy efficiency and sustainability. Light-colored surfaces can reflect heat and reduce the urban heat island effect, while dark colors may absorb heat and contribute to increased energy consumption (Santamouris et al., 2017). Additionally, color can be used to promote social inclusivity and accessibility by incorporating universal design principles. For example, using color contrast in public spaces and transportation systems can assist individuals with visual impairments in navigating the urban environment (Scheer, 2012).

The integration of color in urban planning requires careful consideration of various factors, including cultural context, environmental impact, and community engagement. Collaboration between urban planners, architects, landscape designers, and local communities is crucial in determining appropriate color strategies that align with the goals and aspirations of the city (Jacobs, 2018). Color plays a vital role in urban planning by contributing to the visual character, functionality, and livability of cities. By incorporating color in public spaces, wayfinding systems, and architectural design, urban planners can create visually appealing environments, enhance safety and accessibility, and promote a sense of place and community identity. Considering the environmental, social, and cultural aspects of color in urban planning can lead to more sustainable, inclusive, and vibrant cities.

**Empirical Review of the Relationship between Color and Emotion in Interior Spaces**

Bellizzi, Crowley, and Hasty (1983) conducted a study on the effects of color in store design and found that different colors had distinct
psychological effects on shoppers. Warm colors, such as red and yellow, were associated with feelings of excitement and stimulation, while cool colors like blue and green were linked to relaxation and calmness. These findings suggest that color choices in retail spaces can influence consumers' emotional states and purchase behavior.

Gökçakan and Gökçakan (2016) explored the psychological effects of colors on interior design. Their study revealed that colors can have a significant impact on human emotions, with each color conveying specific feelings and moods. For example, blue was found to promote a sense of calmness and serenity, while red evoked feelings of passion and energy. By understanding these psychological effects, interior designers can use colors strategically to create desired emotional responses in occupants. Kwallek, Lewis, and Robbins (1988) conducted research on the effects of office interior color on workers' mood and productivity. Their findings indicated that color choices in the workplace had a significant influence on employees' emotional well-being and performance. Warm colors, such as yellow and orange, were associated with increased happiness and energy levels, while cool colors like blue and green fostered a sense of calm and focus. These results suggest that color selection in office environments can impact employees' emotional states and job satisfaction.

Kaya and Epps (2004) investigated the relationship between color and emotion among college students. Through their study, they identified specific associations between colors and emotional responses. For instance, red was linked to feelings of passion and excitement, while blue evoked a sense of tranquility and relaxation. These findings provide valuable insights into the emotional impact of color choices in interior spaces and can guide designers in creating environments that elicit desired emotional experiences. O'Connor, Cliff, and Bell (2018) and Valdez and Mehrabian (1994) demonstrated that different colors have distinct effects on individuals' mood. Warm colors like red and yellow were found to elicit positive emotions such as happiness and excitement, while cool colors like blue and green induced feelings of calmness and relaxation. These findings highlight the role of color in shaping emotional experiences within interior spaces.

Lichtenfeld, Elliot, and Maier (2012) examined the impact of color on well-being and found that participants exposed to pleasant colors reported higher levels of well-being compared to those exposed to unpleasant colors. Colors associated with nature, such as green and blue, were consistently linked to positive emotional experiences and enhanced well-being. These findings emphasize the importance of color selection in promoting positive emotional states within interior spaces. Kwallek, Lewis, and Robbins (1988) investigated the influence of color on task performance in office environments and found that warm colors improved productivity and task performance, while cool colors enhanced creativity. Similarly, studies by Hurlbert and Ling (2007) and Palmer and Schloss (2010) demonstrated that color can impact perception, attention, and decision-making processes, thereby influencing behavior within interior spaces.

The Role of Colors in Interior Design

Colors play an essential role in interior design, going beyond mere aesthetics. They have the ability to evoke emotions and create a specific atmosphere within a space (Franklin, 2020). Warm colors like red, orange, and yellow can energize and stimulate, making them suitable for social areas. Cool colors such as blue, green, and purple, on the other hand, can bring a sense of calmness and tranquility, making them ideal for relaxation spaces (Franklin, 2020). By strategically selecting colors, designers can shape the emotional response and overall ambiance of a room.

In addition to setting the mood, colors also contribute to visual interest and contrast within a space. By incorporating contrasting colors, designers can highlight specific elements, draw attention to focal points, or create a sense of depth (Kumar & Arora, 2021). These contrasting combinations add excitement and dynamism to a room, making it visually engaging and captivating. Colors also play a significant
role in defining spatial perception. Lighter colors tend to visually expand a space, making it feel larger and more open, while darker colors can create a sense of intimacy and coziness, making a space feel smaller (Chen et al., 2017). Designers can manipulate the perceived size and proportions of a room by strategically using color. Furthermore, color choices in interior design can express the style and personality of the occupants or reflect a specific design concept. Different color palettes and combinations can evoke various design styles, allowing designers to create personalized and meaningful spaces (Birren, 2013).

It is important to note that colors also hold cultural and symbolic significance. Different cultures may associate specific colors with certain meanings or emotions. Designers must be mindful of these cultural connotations to ensure that color choices are appropriate and respectful within a given context (Mahnke, 2012).

**Different Impact and Importance of Color in Interior Design**

The authors Norman and Ortony (2003), Kwallek et al. (1997), and Cheng and Yang (2019) have made significant contributions to understanding the impact and importance of color in interior design. Collectively, their work highlights various aspects related to color and its effects on the design of interior spaces. Taken together, the following is an elaboration of their contributions:

**Blue**

Blue is indeed widely recognized as a calming color that can have various positive effects on the mind and body. Its ability to lower heart rate, respiration, appetite, and metabolism contributes to a sense of serenity and peace. However, it is important to use the right shade of blue and avoid excessive use to prevent creating a gloomy atmosphere.

The calming properties of blue make it a suitable choice for environments where relaxation and tranquility are desired, such as bedrooms and offices. Additionally, blue can be particularly beneficial in extremely sunny rooms, as it helps counterbalance the intensity of natural light.

The impact of blue on the mind and body is attributed to its ability to slow down the metabolism. This, in turn, has a calming effect and is believed to contribute to reducing blood pressure and slowing the heart rate. Light or pastel shades of blue, in particular, are associated with feelings of tranquility, and they are often linked to concepts of health, healing, understanding, and softness.

![Figure 4. Blue Colour](Source: Pinterest (2021))
Green

Green is often associated with the natural world, and its abundance in nature creates a primary association with this color. It is commonly linked to concepts such as luck, abundance, safety, stability, freshness, and healing. The color green has a calming effect and is known to promote a sense of balance and harmony.

But, the various shades of green can evoke completely different feelings. Dark green is associated with ambition, greed, and jealousy, while aqua is associated with emotional healing and protection. Yellow-green can indicate sickness, cowardice, discord, and jealousy, while olive green is the traditional color of peace.

When paired with white or grey, green can create a perfect combination for the living room. White or grey serve as neutral colors that allow green to stand out and maintain its soothing qualities. This combination can evoke a sense of tranquility and create a refreshing and inviting atmosphere in the living space.

The use of green in interior design can be particularly effective in areas where relaxation and rejuvenation are desired. It can be applied in various ways, such as through the use of green accents, furniture, or wall colors, to infuse the space with a natural and calming vibe.

Purple

Purple is indeed a color often associated with royalty and luxury. Its deep and rich tones, particularly when paired with jewel tones like emerald, can create a luxurious and opulent ambiance in a room. Purple lends a sense of drama, dignity, and mystique, making it an excellent choice for spaces where a bold and sophisticated atmosphere is desired.

In terms of its impact on the mind, purple is believed to inspire a problem-solving mindset and suggest spirituality. It is often associated with introspection, creativity, and a calmness of the mind and the nervous system. The color purple can evoke a sense of depth and sophistication in interior design, especially when used in its darker values. It adds a touch of luxury and is often favored in upscale and
creative environments. Lighter shades of purple, such as lavender, can introduce a restful quality to a bedroom, promoting relaxation and tranquility. It is worth noting that purple is a popular choice among pre-adolescent children, with approximately 75 percent of them preferring this color over others.

Interior designers often utilize purple in various ways to achieve different effects. It can be used to add drama to a space, create a modern and trendy feel when combined with pastels and modern art, make a bold statement with neon purple accents, or infuse a room with a mysterious and enchanting atmosphere through the use of dark purple as an accent color.

By incorporating purple into interior design, designers can evoke a sense of luxury, creativity, and depth, while also catering to specific moods, preferences, and the desired style of the space.

![Figure 6. Purple](Source: Pinterest (2021))

**Red**

Red is indeed a physically stimulating color that can have a significant impact on our physiological and emotional responses. It is known to increase appetite, heart rate, and respiration, making it a suitable choice for environments such as kitchens where a boost in energy and appetite is desired. Red is often associated with strong emotions, symbolizing both danger and passion.

The color red evokes feelings of energy, war, danger, strength, power, determination, passion, desire, and love. Different shades of red convey varying emotions and associations. Light red represents joy, sexuality, passion, sensitivity, and love. Pink signifies romance, love, and friendship. reddish-brown is associated with harvest and fall, while dark red is linked to vigor, willpower, rage, anger, leadership, courage, longing, malice, and wrath. Red is a color that never fails to capture attention and evoke strong reactions (Rios, 2010).

In interior design, red is often used as an accent color to add warmth and vibrancy to a space. It can be employed to transform a cool room into a warmer and more inviting environment. Red accent walls, for example, can dramatically change the perception of a room and create a focal point. The intense nature of red raises the energy level in a room, making it a suitable choice when homeowners want to evoke excitement, especially in the evening or during social gatherings.
Orange

Orange is indeed a color that tends to evoke strong reactions, with people either loving it or hating it. It is a vibrant and energetic color that symbolizes joy, enthusiasm, fascination, happiness, creativity, success, encouragement, and stimulation.

In terms of its physical effects, orange is believed to have several positive impacts on the body. It is said to increase oxygenation, stimulate metabolism, and even boost appetite (Dalke et al., 2004).
When it comes to interior design, orange can be used effectively in various spaces. It is well-suited for environments such as gyms, study rooms, kids' rooms, offices, and living rooms. In gyms, orange can energize and motivate individuals during their workouts. In study rooms and kids' rooms, it can foster a sense of creativity and enthusiasm for learning. In office spaces, orange can provide a stimulating and invigorating atmosphere, promoting productivity and positivity. In living rooms, it can add a lively and cheerful touch to the overall ambiance.

**Yellow**

Yellow is a warm color that shares similarities with other warm hues in terms of its effects on the body. It is known to increase metabolism and is associated with feelings of joy, intellect, and energy. However, it is important to use yellow cautiously as too much of it can be overwhelming and overly bright, resembling the intensity of looking into the sun.

Choosing the right shade of yellow is crucial as there is a fine line between a vibrant and uplifting yellow and a sickly or overpowering shade. Finding the balance is key (Jo, 2003). When used thoughtfully, yellow can add a lot of positive energy to a space and evoke optimistic feelings. Yellow is often associated with sunshine and is considered an excellent choice for areas such as kitchens, dining rooms, and bathrooms. In hallways, yellow can create a welcoming and inviting atmosphere. However, it is worth noting that studies suggest people may be more likely to lose their temper in an all-yellow interior, so it should be used sparingly.

![Figure 9. Yellow](https://via.placeholder.com/150)

*Source: Pinterest (2021)*

Different shades of yellow convey different meanings. Dull or dingy yellow is associated with caution, decay, sickness, and jealousy, and is rarely used in interior rooms. On the other hand, light yellow is associated with intellect, freshness, and joy, making it suitable for outdoor house paint. Bright yellow, with its vibrant and energetic qualities, evokes optimistic feelings.
Black

Black is a color that carries contrasting associations. On one hand, it is often associated with death and mourning, evoking somber and serious emotions. On the other hand, black is also linked to elegance, class, and boldness, symbolizing sophistication and power.

In interior design, black is commonly used to create a perception of depth and add a touch of drama to a space. However, it is important to use black sparingly as excessive use can create a sense of darkness and even lead to a feeling of depression.

The strategic use of black as highlights or accents in an interior can be highly effective. When paired with bright or warm colors, black creates a striking contrast, allowing those colors to stand out beautifully against the dark backdrop. This technique can add depth, visual interest, and a sense of sophistication to a room.

Figure 10. Black
Source: Pinterest (2021)

Silver

Silver is often associated with prosperity and wealth, symbolizing luxury and elegance. Those who appreciate silver are often perceived as having a strong sense of style and being highly motivated individuals.

In interior design, incorporating the color silver as accents can create a sense of ornate richness within a space. Whether it's through silver accessories, decorative elements, or even metallic finishes, the use of silver adds a touch of glamour and sophistication to the overall design.

The reflective nature of silver can also contribute to creating a visually dynamic environment, as it interacts with light and adds a subtle shimmer or shine to the surroundings. This can enhance the overall ambiance of a room and create a sense of opulence.

When using silver in interior design, it is important to strike a balance. Too much silver can overpower a space and make it feel cold or sterile. Therefore, it is advisable to use silver as an accent color, complementing it with other hues that harmonize well and create a cohesive and balanced design scheme.

Ultimately, incorporating silver into interior design can evoke a sense of prosperity, add a touch of elegance, and create a visually captivating environment for occupants and visitors.

White

White is often associated with youthfulness and cleanliness, symbolizing purity and simplicity.
Those who appreciate white in interior design often lean towards a contemporary style, appreciating clean lines and minimalistic aesthetics.

The color white has the unique ability to create a cool and refreshing atmosphere within a space. It has a calming effect and can make a room feel open and spacious. White reflects light, contributing to a brighter and more airy feel, which is particularly desirable in smaller or darker rooms.

When using white in interior design, the shade of white plays an important role in setting the overall mood. Warmer shades of white, with hints of yellow or beige, can add a sense of coziness and warmth to a room, creating a welcoming and comfortable environment. On the other hand, cooler shades of white, with blue or gray undertones, tend to lend a more formal and sophisticated feel to a space, perfect for elegant and refined designs.

White also serves as a versatile backdrop, allowing other colors and elements in the room to stand out.
to stand out and take center stage. It provides a clean canvas for furniture, artwork, and accessories to make a statement, while still maintaining a sense of harmony and balance.

**Gray**

Gray is a versatile and sophisticated color that brings a classic and elegant touch to interior design. It is highly regarded for its ability to complement and work well with most other colors. Those who appreciate gray in their designs are often seen as intelligent and disciplined individuals.

Warm shades of gray, in particular, can create a lively and inviting atmosphere when paired with other warm colors. The combination of warm gray with complementary hues can result in a harmonious and visually appealing space.

Gray is known for its neutral nature, making it an excellent backdrop for other colors to shine. It provides a balanced and calming effect, allowing other elements in the room to stand out. Whether used as the main color or as an accent, gray adds a sense of depth and sophistication to the overall design.

When choosing a color palette, combining gray with pastel or neutral shades can create a captivating and memorable room. The key is to find the right balance and harmony between the colors to reflect your personality and create a space that is comforting to you and memorable for your guests.

![Figure 13 Grey](source: Pinterest (2021))

**Conclusion**

Color plays a vital role in interior design, serving as a powerful tool to create visually appealing and harmonious living spaces. The proper use of colors can transform the ambiance of a room, evoke emotions, and enhance the overall aesthetic experience for occupants and users.

Throughout this discussion, we have explored the influence of various colors in interior design and their impact on human emotions. Each color possesses unique characteristics and associations that can affect our mood, mindset, and physical responses.

Blue, for example, is known for its calming effects and is well-suited for bedrooms and offices. Green is associated with nature, luck, and freshness, making it a popular choice for creating a soothing atmosphere. Purple represents luxury and creativity, while also adding depth and sophistication to a design scheme. Red, on the other hand, is a physically stimulating color that symbolizes both danger and passion. It can be used strategically to increase energy and excitement in a room, such as in a kitchen or as an accent color. Orange is a polarizing color that evokes enthusiasm and creativity, and when used in moderation, can bring positive energy to spaces like study rooms,
offices, and living rooms. Yellow represents joy, intellect, and energy, but it should be used cautiously as excessive yellow can be overwhelming. Black is associated with elegance and boldness, adding a sense of depth to a room when used sparingly. Silver signifies prosperity and wealth, while white creates a cool and refreshing feeling associated with youth and cleanliness. Gray, being a versatile and sophisticated color, works well with most colors and can create a classic and elegant ambiance. It provides a neutral backdrop that allows other elements in the room to stand out, and when paired with warm hues, it can bring warmth and liveliness to the space.

By understanding the characteristics and effects of different colors, interior designers can make informed choices when selecting color schemes, creating spaces that reflect the desired mood, style, and personality. The right color palette can create a memorable and inviting environment, leaving a lasting impression on both occupants and guests.

In essence, color is a fundamental aspect of interior design that should not be overlooked. It has the power to transform spaces, evoke emotions, and enhance the overall experience of a room. By harnessing the potential of color, designers can create remarkable and impactful living environments.

References


