



# Aesthetic Analysis of Color Symbolism in Contemporary Art

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**Abstract:** This article focuses on the phenomenon of color symbolism in contemporary art, systematically sorting out its theoretical evolution from the traditional symbolic system to the modernist revolution, and then to the theoretical reconstruction in the contemporary context, revealing the dynamic development process of color symbolism. By analyzing the interaction between artists' coding strategies and media technology coding, this study explores the generation mechanism of color symbolism. Combining cross-cultural communication cases, explain the laws of maintaining and mutating cultural prototypes in communication, and reveal the decoding logic of the audience from the perspective of reception aesthetics. Based on the research results of cognitive neuroscience, this study reveals the physiological basis and psychological perception mechanism of color symbolism, providing an interdisciplinary analytical framework for understanding the complex aesthetic value of color symbolism in contemporary art.

**Keywords:** color symbol, contemporary art, cross cultural communication, cognitive neural mechanism

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## 1. Introduction

Contemporary art practice has broken through the traditional aesthetic framework, and color, as the most intuitive visual language, presents highly complex symbolic meanings in the context of globalization. From totem worship in primitive society to interactive interfaces in digital media, color has always carried human cognition and emotional projection of the world. Traditional art theory regards color as a fixed symbol system, while in contemporary art, the relationship between the signifier and signified of color undergoes fundamental fission, and its symbolic meaning depends on the multiple interactions of the artist's coding strategy, media technology characteristics, cultural dissemination path, and audience cognitive mode. Traditional color matching methods cannot meet the current market demand. Meanwhile, there are many factors to consider in the design, which affect the design efficiency. Therefore, it is necessary to seek more efficient design methods.

## 2. Theoretical evolution of color symbolism

### 2.1 Traditional color symbol system

The traditional color symbol system is based on a dual foundation of cultural prototypes and natural observations, and its theoretical framework is systematized through religious scriptures, philosophical works, and folk practices[1]. The Chinese theory of the five elements corresponds to the five elements of wood, fire, earth, metal and water, forming a complete system of symbols covering cosmology, ethics and aesthetics. Its color choices strictly follow the correspondence between material and spiritual attributes, such as the symbolism of red being given "masculinity" and "life" because of its visual connection to Taiyang and blood. Vedas in India construct a divine narrative through a combination of color and divinity, such as interpreting Krishna's blue skin as a concrete representation of the infinite universe, which relies on repeated intensification of religious rituals to reinforce this symbolic logic. Medieval Europe theories of color were dominated by Christian theology, and Byzantine mosaics widely adopted golden backgrounds, as gold was believed to symbolize the 'divine light' of the divine, aligning with the theological pursuit of visualizing sacredness. The choice of color needs to be in line with the iconography norms set by the church to maintain visual identity within the faith community. The stability of the traditional color symbol system derives from its deep integration with social structures and modes of production. The power of interpretation of color symbols is strictly limited to specific cultural elite groups, and their symbolism is perpetuated through ritualistic practices passed down through the generations.

### 2.2 Modernist Color Revolution

The modernist art movement promotes the transformation of color from a subordinate position to an independent medium of expression by deconstructing traditional color logic[2]. "The color is the keyboard, the eyes are the hammer, the soul is the strings," Kandinsky argued in "On the Spirit of Art." Instead of specifically linking color to emotion and the rhythms of music, his abstract paintings upend color's dependence on objects by juxtaposing three-dimensional blocks of color with dy-

dynamic compositions. Matisse's Fauvism practice of using high-saturation colors to construct flat spaces, such as the red, blue and green contrasts in "Dance," not only dissolves the anatomical details of human body, but also directly conveys the raw experience of the rhythm of life through the visual tension of color. The Bauhaus School reconstructed color theory from the point of view of industrial design, and Johannes Itten's "Seven Color Contrast" theory quantified color relationships as computable parameters such as brightness, purity and temperature, providing scientific tools for modern visual communication.

### **3. Encoding mechanism of color symbolism in contemporary art**

#### **3.1 Artist coding strategy**

Artists construct symbolic systems through color selection, combination, and presentation. Anish Kapoor's 'Sea of Blood' uses deep red wax material, which forms a dual metaphor between its material properties and color semantics; James Turrell's "Sky Space" series explores the spatiotemporal dimension of color by controlling the color temperature changes of natural and artificial light; Jenny Holzer's LED device converts political texts into pulsed color streams, achieving symbol translation between language and vision. These cases demonstrate that artist coding strategies involve multiple dimensions such as material experimentation, spatial manipulation, and cross media storytelling, with the core being the creation of an open interpretation space for color.

#### **3.2 Media technology coding**

Digital technology has completely changed the way colors are produced and disseminated. The RGB color model of LED screens supports 16.7 million color combinations, providing artists with unprecedented color control; 3D printing technology enables colors to be embedded into object structures rather than surface coatings, forming an isomorphic relationship between matter and color; Augmented reality (AR) art transforms audience body movements into visual symbols through real-time color tracking. Media technology not only expands the boundaries of color expression, but also reconstructs the power relations of artistic production - algorithm generated color sequences challenge artists' subjective decisions, and audiences participate in the color encoding process through digital interfaces, forming a distributed creative network.

### **4. Cross-cultural communication and variation of color symbolism**

#### **4.1 Maintenance and variation of cultural archetypes**

In cross-cultural communication, color symbols face the tension of semantic transformation. Red symbolizes auspiciousness in Chinese culture and may be associated with danger or revolution in Western contexts; White represents mourning in East Asia and purity in the West. Yayoi Kusama's pumpkin sculpture uses yellow spots to evoke memories of a bountiful harvest in Japanese culture, and may evoke pop art associations in the eyes of Western audiences. This variation originates from the partial preservation and contextualization reconstruction of cultural prototypes, and its acceptance effect depends on the audience's cultural capital reserve and cross-cultural decoding ability.

#### **4.2 From the perspective of reception aesthetics**

The cognitive framework and cultural capital reserve of the audience directly determine the decoding path of color symbolism. Hans Haacke's works focusing on German political and economic issues (e.g., German Politics and Economics) uses the three colors of the German flag to showcase corporate sponsorship relationships. German audiences are critical of historical memories, such as the political turmoil during the Weimar Republic, while international audiences are more concerned with the visual presentation of capital flows. This difference stems from the audience's "pre understanding" structure of color symbols - individuals who have been immersed in a specific cultural context for a long time have formed conditioned reflex cognition of specific color combinations in their retinal neural circuits.

### **5. Cognitive neural mechanisms of color symbolism**

#### **5.1 Physiological basic research**

The differential sensitivity of retinal cone cells to different wavelengths of light forms the physiological basis for color perception. fMRI studies have shown that when watching red stimuli, the activation levels of the amygdala and prefrontal cortex of participants are significantly higher than those of blue, indicating that color has a direct emotional regulation function. Cross cultural experiments have found that although there are individual differences in color preferences, human perception of warmth in orange red and calmness in blue green is universal, and this physiological response may stem from adaptive selection of environmental colors during evolution.

## 5.2 Psychological perception experiment

The color psychology experiment revealed the cognitive construction process of symbolic meaning. When participants were asked to choose colors for abstract shapes, sharp shapes were more associated with red, while rounded shapes tended towards blue, indicating a cross modal correspondence between color symbolism and form perception. The context effect experiment shows that the same color can cause semantic shift in different backgrounds - green symbolizes vitality in natural scenes and represents decline in financial charts. These findings confirm that color symbolism is a cognitive product of the combined effects of sensory input, cultural memory, and contextual information.

## 6. Conclusion

The color symbolism in contemporary art has evolved into a complex dynamic system, with its theoretical evolution, coding mechanism, cross-cultural communication, and cognitive processing forming an interwoven research network. From fixed symbols in traditional society to interactive interfaces in the digital age, color has always been the fundamental symbolic language (or 'meta-language' in the sense of core cognitive carrier) for humans to cognize the world. The generation and variation of its symbolic value reflect the flow of cultural power and the impact of technological revolution. Future research needs to further integrate neuroaesthetics, digital humanities, and media archaeology methods to reveal the aesthetic transformation of color symbolism in emerging technological contexts such as virtual reality and artificial intelligence, providing theoretical tools for understanding visual culture in the post human era.

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