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Interactive language analysis of digital and traditional painting

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Abstract:
When talking about the analysis and exploration of the interactive language between digital and traditional painting, it is based on an era full of innovation and change. Relying on its long history and heritage, traditional painting has always been an important form and basic way of artistic creation. With the rapid development of digital technology, the form of painting is appearing on the art stage with a new look and expression. The digital characteristics and innovation of painting have always attracted much attention. The introduction of digital technology enables creators to create in the form of multi-dimensional and multi-perspective, and opens up a new field of artistic expression. When the audience appreciates digital paintings or new media works, they also have a new sense of experience and interaction. However, as an important part of traditional art form, traditional painting still maintains its unique charm and cultural value, and has an irreplaceable position. The continuous innovation and transformation of traditional painting in the digital era, the combination and innovation of traditional techniques and digital technologies, presents the differences and connections between new painting language and traditional painting language in techniques and techniques, artistic expression, audience interaction and other aspects, discusses the impact of digital technology on painting language and artistic expression, so as to summarize the new characteristics and development trend of art in the digital era. To provide new thinking and inspiration for art creators and audiences.

Keywords:
Digital painting; Traditional painting; Interactive language; Artistic expression

1 Research content and methods

With the development of technology, the new media environment based on digital media has become popular in our production and life needs, and art, as a creative behavior, is also deeply influenced by digital technology. In this digital context, the development of digital painting art has injected new vitality into traditional painting art, and visual aesthetic tastes have also changed accordingly. The project needs to analyze and discuss the relationship between digital painting and traditional painting from a technical and theoretical perspective, and study the expressive characteristics and forms of digital painting, ultimately presenting a creative form. In terms of research methods, conventional traditional painting creation and digital painting creation with the same theme and form are carried out, and their technical language and expression forms are analyzed through textual expression, and subjective creativity is carried out in visual presentation.

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2. Research Objectives and Significance

From a practical perspective, there are significant differences between traditional painting and digital painting. The integration of digital expression methods into the creation of traditional painting can enable it to exhibit new features, radiate new vitality and energy. With the development of computer graphics and image technology, the use of digital technology has gradually integrated digitalization into the creation of traditional painting, greatly changing the creators' ideological concepts and creative modes. The application of digital creative methods has transformed the way painting art is created, while innovating the forms of expression in painting art, endowing traditional painting with unique artistic vitality. The main focus of this project is to analyze the interactive language between digital and traditional painting. The main research methods and ideas of the project are through the expression of papers and the presentation of creative works. Conduct conventional traditional painting creation and digital painting creation with the same theme and form, and analyze their technical language and expression forms through textual expression, and subjectively create visual presentation. Based on the analysis of the relationship between digital painting and traditional painting, this paper conducts technical and theoretical analysis and discussion, and studies the expressive characteristics and forms of digital painting to present creative forms.

3. The Composition and Expression of Numbers and Traditional Painting

3.1 Expression Forms of Digital Painting

In the context of the Internet era, in the innovative development of globalization and the wide spread of new media, digital and new media painting works are being used and explored through various forms, with a wide range of influence and a large number of audience groups. This new visual medium accelerates the connection between artists and audiences, promoting artistic exchange and interaction from different cultural backgrounds and new perspectives. The era background of the Internet also provides a convenient and diverse platform for the creation, display and exchange of digital painting, allowing artists to express and share their works more freely. In the exploration of the characteristics of digital and new media painting forms, a better understanding of the development trends and creative features of art in the digital age is provided, constantly providing new thinking and inspiration for art creators and audiences.

3.2 The artistic value of traditional painting

Traditional painting has certain cultural value as an important carrier of artistic and cultural inheritance, carrying rich cultural elements such as history, religion, philosophy, etc. Through artistic works, traditional painting showcases the cultural styles and aesthetic concepts of different periods and regions to the audience, promoting cultural exchange and understanding. The inheritance of traditional painting techniques and expressive methods provides a solid foundation and continuous application for painting creators. Many painting expression methods and types have been formed, such as Chinese painting, oil painting, watercolor painting, etc. These painting styles and techniques have been continuously inherited and developed over the course of history, forming distinctive painting schools and styles. At the same time, in the application of composition, color techniques, line expression and other elements in traditional painting, artists have been constantly ex-

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ploring and developing, making traditional painting works present diversity and richness in form and content.

Traditional paintings often carry the creator's expression of cultural traditions and personal emotions. They express and convey their personal understanding and thoughts on culture and life through the handling of traditional themes such as history, mythology, and characters. The exchange of culture and personal emotions endows traditional paintings with rich connotations and depth, triggering resonance and reflection among the audience towards artistic works. In the digital age, modern art is constantly expressing itself in traditional ways, and traditional painting is still receiving attention. By combining traditional techniques with modern means of expression, new perspectives that integrate tradition and modernity are created, and the symbiotic relationship between it and digital painting is explored.

4. Digital expression of painting in the context of new media

4.1 Digital Application of Painting

Painting in the context of new media and digital language is created using digital means, including digital painting software, computer-generated art, etc. These tools enable artists to create and create works in a completely new way, breaking through the material limitations of traditional painting and expanding the possibilities of artistic expression. At the same time, these digital methods also include the presentation of many basic painting elements and visual elements, that is, precise control of basic painting elements such as color, line, shape, etc., which can enable artists to express their ideas and emotions more accurately.

4.2 Diversified expression of creative media

Digital technology provides artists with diverse creative media, allowing them to choose appropriate media based on the needs of their works, expanding the possibilities of artistic expression. This diversity also allows creators to use different technological means more flexibly, creating works with novelty and uniqueness, enriching the expression of painting language, and bringing about diverse changes and innovations in art forms. Digital technology has introduced new forms of art and expression techniques, which have made the language of painting no longer limited to traditional canvases and pigments, but integrated the interactivity between digital elements or material media, presenting more modern and technological works of art. The works are created through digital technology to become more abstract and imaginative, breaking through the limitations of traditional painting language and exploring the infinite possibilities of artistic expression.

4.3 Interactive Language Analysis of Painting from Multiple Perspectives

When analyzing the language interaction between digital and new media painting and traditional painting, it is necessary to consider the overlap and fusion between the two. The digital painting under the background of new media has brought about a revolution in the digitization, virtualization, and interactivity of works, which has brought about earth shaking changes in the expression and dissemination methods of painting. Firstly, we can explore the impact of digital technology on painting media. Digital tools such as tablets, drawing software, and virtual reality devices provide creators with new creative platforms and ways of expression. The color grading, application, and brushstrokes in traditional painting can be done in a more precise and flexible

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way on digital media to expand the possibilities and expressiveness of painting. Secondly, the impact of interactivity on media cannot be ignored. Through digital technology, audiences can participate in the creation and evolution process of painting works, such as changing the picture by touching the screen, participating in the painting experience in virtual reality, etc. This not only changes the relationship between the audience and the artwork, but also gives the possibility of interaction between the creator and the audience, making the painting no longer a static display, but an experience and integration constructed together with the audience. However, the interactive language between digital painting and traditional painting is not static, but constantly established and integrated. Many creators combine digital technology with traditional painting techniques to create works that have both traditional painting charm and modern elements. This fusion is not only the technical inheritance of traditional painting, but also endows painting with new presentation and connotation in a new context.

At the level of interactive language, there are various relationships and interactions between traditional painting and digital painting. On a technical level, traditional painting is created using material tools such as brushes and pigments, emphasizing the artist's manual skills and expressive abilities; Digital and new media painting, on the other hand, emphasizes digital devices and software, highlighting the use of technology by creators and the display of digital media characteristics. The interaction between these technical aspects is the fundamental reason for the differences in creative methods and forms of expression. Of course, the interactivity of creative concepts often carries rich symbolic meanings and emotional expressions, and new interactive concepts present diversity and innovation in themes between traditional painting and digital painting.

In addition, the interactive language of space is more painterly, with traditional painting emphasizing the structure and effect of the image on a flat surface; Digital painting presents multidimensional space and overlapping image elements, and incorporates dynamic effects, audio feedback, and other forms to enhance the viewing experience. Enable the audience to directly participate in the work and generate a more unique artistic experience. The interactive language between numbers and traditional painting is full of innovation and change. In the technological and interactive development of digital and painting, their respective boundaries are constantly expanding, and rich and innovative artistic dialogues are unfolding with the presentation of elements such as audience, technology, and tradition.

5. Integration and Exploration of Digital and Traditional Painting

5.1 Integration and Innovation of Traditional Painting and Digital Media

The integration and innovation of traditional painting and digital media is a significant development trend in the field of contemporary art. Firstly, there is a significant difference in the application of technological tools compared to traditional media. Digital media has introduced new technological tools such as digital tablets, digital screens, and painting software, allowing creators to directly create paintings on electronic devices. Taking traditional oil painting effects as an example, the techniques and textures, brushstrokes and textures of traditional oil painting can be simulated through digital means. Simultaneously enjoy the convenience brought by digital tools, such as infinite undo, color mixing simulation, multi-layer editing, and other functions. The combination of traditional and digital art has also given rise to new forms of art, such as dig-

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ital oil painting, digital printmaking, interactive painting, etc. These creations not only retain the emotional expression and aesthetic value of traditional painting, but also integrate the dynamism, programmability, and interactivity of digital art. These digital media not only expand artists' creative methods, but also promote cross disciplinary and multi perspective cooperation and integration. In the animation, gaming, and film and television industries, digital painting technology is widely used in character design, scene setting, and animation production processes. This requires creators to not only possess traditional painting skills, but also proficiently master the principles and applications of digital technology.

The presentation of digital painting is often integrated with various media forms, such as the combination of digital art and video art, and the linkage between virtual reality and music. The integration of multimedia enriches the forms of artistic expression, making works more three-dimensional and innovative. The final form of work presentation has greatly improved the spread speed and coverage of works of art. Digital works can be quickly presented in the audience's view through the Internet platform, which has also brought about changes in art education. The emergence of online courses and online tutorials has given more people the opportunity to learn the basic skills of traditional painting and digital painting using multi angle media. In terms of aesthetic and conceptual innovation, the illogical and unconventional aesthetic characteristics of digital art influence the aesthetic perspective of traditional painting. Creators are beginning to explore how to incorporate new dimensions of time and space into their paintings, as well as how to achieve randomly generated artistic effects through programming and algorithms. The integration and innovation of traditional painting and digital media is an inevitable product of artistic development. They influence and complement each other, jointly shaping a diversified artistic ecology and promoting the continuous evolution of artistic expression techniques and concepts.

5.2 Exploring the Impact of Digital Technology on the Application of Painting

In modern painting, some artists attempt to use techniques such as 3D and digital animation to integrate visual elements into multidimensional spaces, creating works of art with distinctive features of the times and individual styles. In the rapidly changing information age, the emergence of digital image art and digital painting technology has brought new perspectives and challenges to the development and changes of visual art. The development process and characteristics of the application of new elements in the context of new media have led to changes in the creative ideas of many artists. With the advancement and replacement of computer technology, more digital art forms have emerged in the public eye with full expressive power. From the initial computer graphics and computer art, it has transformed into a more practical form with artistic language. Visual elements are presented in different forms and unique aesthetic values through digital technology creation.

In the exploration of new forms of painting, artists can use digital technology to deconstruct and restructure traditional painting elements, creating comprehensive art works in different media and presenting new and diverse visual effects. Taking the visual expression of digital painting and digital image art as an example, animation, illustration, digital media art, and other digital media applications are driving the way and style of presenting visual effects. By combining technologies such as dynamic images, interactive design, and digital simulation, the visual elements in these works can be endowed with more possibilities and vitality. And many of these new carriers are still internally supported by basic visual elements. At the same time, in the traditional creative field, creators will use new painting media carriers as creative materials, integrate new elements

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into multi angle creative content, break the traditional visual framework from different perspectives, and present painting in diverse forms. The digital expression of art is beginning to influence the creative path of artists. The most important thing is that the media characteristics of digital art are convenience and intuitiveness, while providing artists with more interactive experiences and giving audiences a stronger visual appeal. The integration of painting forms from multiple perspectives not only expands the possibilities of artistic creation, but also enriches the aesthetic experience of the audience, presenting a more diverse and enriched artistic landscape.

6. Conclusion

The interactive language between digital painting and traditional painting is rich and colorful. Digital painting has brought a more modern and technological way of artistic expression through digital technology, bringing new influences and changes to the language of painting, expanding the boundaries of painting expression, and providing new thinking and prospects for the future development of painting. Traditional painting has also achieved the integration and inheritance of tradition and modernity through the application and exploration of digital technology, injecting new vitality and significance into artistic creation. By analyzing the interactive language between new media painting and traditional painting, understanding the connection and differences between the two, as well as the impact of digital technology on painting language and artistic expression, new perspectives and inspirations are provided for art creators and audiences. With the continuous advancement of technology, digital technology will be more closely integrated with traditional painting. Innovative technologies and applications will provide more possibilities for creative painting.

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