

INTEGRATION OF COMPUTER GRAPHICS AND TRADITIONAL DRAWING

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Abstract: The interaction between computer graphics and traditional drawing in the process of contemporary art is elucidated on a scientific-theoretical basis. The influence of integrative processes formed between digital technologies and classical visual art methods on the development of artistic thinking, visual expression, technical styles and visual culture has been analyzed. The reinterpretation of traditional drawing principles in the digital environment, the rise of the creative process to new stages, as well as the importance of the integrative approach in art pedagogy, are explained on scientific grounds.

Keywords: computer graphics, traditional drawing, digital image, integration, artistic expression, art methodology, visual culture

The integration of computer graphics and traditional drawing is considered a complex yet highly important stage of contemporary art. While traditional drawing has for centuries created the fundamental principles of depicting form, proportion, light-shadow, perspective and volume, computer graphics have enriched this process with new technical and artistic possibilities. The combination of these two directions leads to qualitative changes not only in form but also in content and expressive methods within visual art. The development of digital technologies provides artists and designers with greater freedom in controlling the visual process and creates opportunities for experimenting with color changes, texture variations and composition options. However, this process is not an alternative to traditional drawing but rather its logical continuation.

The scientific-theoretical foundation of traditional drawing - observation, the laws of depiction, spatial thinking, analysis of form and structure - serves as the main basis for the successful development of digital art. Computer graphics reinterpret this basis through new media tools. Digital platforms transform the fundamental elements of drawing - line, color, composition and dynamics - into a creative process that is rapid, multi-variant and open to editing. Therefore, contemporary artists often use hand-drawn sketches first and then enrich and expand them in the digital environment or transform them into new expressive forms.

The integration process also has special importance in pedagogical practice. In visual art education, traditional drawing develops students' observational skills, abilities to analyze form and structure, and artistic thinking; computer graphics, in turn, acquaint them with modern technical possibilities, design principles and digital expression systems. This integration makes art education comprehensive, aligned with modern requirements, technologically rich and capable of enhancing creative potential. Today, fields such as graphic design, concept art, animation, 3D modeling and virtual reality art are developing precisely on the basis of this integration.

Computer graphics create new artistic forms by preserving the aesthetic essence of traditional drawing while expanding its possibilities. In the digital environment, both the imitation and transformation of traditional techniques are possible: watercolor effects, oil paint textures, charcoal lines and pastel transitions can be recreated using artificial intelligence, graphic editors

and digital brushes. This expands the concept of material in visual art and forms new types of “digitally processed” artistic expression.

Additionally, changes in visual culture also reflect the strong impact of integration. The increase in digital content in society is transforming the perception of art, the aesthetic taste of viewers and the mechanisms of perceiving visual information. In such conditions, traditional drawing maintains its importance as the main theoretical foundation of art, while computer graphics significantly enrich its communicative, functional and expressive capacities.

Conclusion. The integration of computer graphics and traditional drawing is one of the significant directions of the development of contemporary visual art, expanding the technical and aesthetic possibilities of the creative process. The fundamental principles of traditional techniques gain new interpretations in the digital environment, creating conditions for renewal in the content and form of art. Integration develops artistic thinking, improves the quality of art education and contributes to the formation of digital culture. This process ensures that the modern artist becomes multifunctional, adaptable and technologically minded, leading to the emergence of new artistic directions.

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