

Hanging Rugs between Aesthetic Value of Flowers and Design Software

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Introduction:

The art of wall hanging textiles is considered one of the applied arts, which has high artistic and aesthetic values because of its important role in completing interior architecture. Wall hanging textiles don't differ in their aesthetic purposes from wall paintings, except for being more difficult and precise because of the required skills needed in the implementation of this work, and the nature of their use, as they bring delight and excite imagination.

Hand Tufting method is considered one of the methods used in wall hanging textiles and floor rugs. It has been used significantly more often lately, where the pile surface is added to the ground fabric so that we get the desired rug. The pile surface is formed by a special tool called the tufting gun, that stitches the threads of the pile into the surface of the ground fabric.

Since ancient times, man has found an important source of inspiration in nature, including its creatures and systems, systems that science has proven that they're a general order for all the creatures in nature. Nature is full of magnificent flowers regarding their shapes and colors, it's God's gift for us to ponder his creation and we should be thankful for His work.

The technology has provided us with various tools that help the designer to make his artworks accurate and quick, such as Illustrator and Photoshop software; they save manual and mental effort for the designer, with the possibility of editing, changing and experimenting with different colors with ease, and also the possibility of seeing the design's final form as a product.

Research Problem:

The research problem lies in domination of the traditional style in the designs of hanging rugs that are derived from natural flowers. There is also a need for imposing more modern trends in the field of the design of hanging rugs.

Research Purposes:

1. Benefiting of the aesthetic values of flowers in the design of hanging rugs.
2. Employing some of the design software for the design of hanging rugs that are derived from natural flowers.

Research Methodology: Experimental method.

The practical applications of the research:

The practical applications of the research have been implemented as follows:

1. The design phase:

Pictures of natural flowers have been chosen and processed using the design software, and below a practical example explains the phases of the design of hanging rugs by editing the photos of the natural flowers as follows:

1-1 Choosing the photos: in this practical example we'll be using the pictures (1, 2, 3).



Picture (1)



Picture (2)



Picture (3)

1-2 Running Photoshop to get started, then opening a new file with dimensions that suit the dimensions of the desired hanging rug design. As shown in figure (1).

1-3 Opening the photos needed to create the design in new layers in the open photoshop file.

1-4 Choosing the suitable cadre from each of the used photos: picture (4) is picture (3) after cropping.

1-5 Choosing the background photo in Photoshop: in this example we'll be using picture (2) as a background as shown in figure (2).

1-6 Choosing the photo used in the second layer: As in figure (3).



Figure (1): opening the pictures in separate layers in photoshop



Picture (4): picture (3) after cropping



Figure (2): using picture (2) as a background

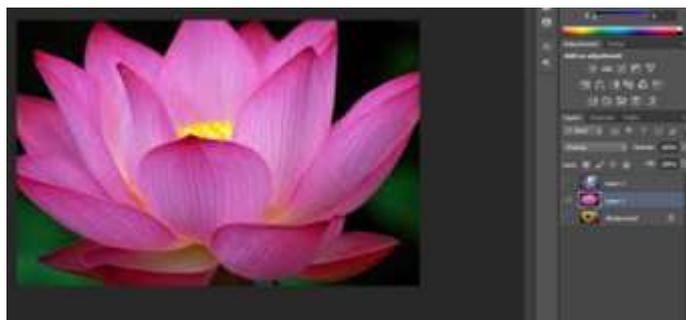


Figure (3): the picture used in the second layer

1-7 Changing the blend mode that's used for the second layer to the suitable mode for merging the two layers, and in this example, we'll be using Overlay Mode, as shown in figure (4).

1-8 Choosing the suitable photo for the third layer, which is picture (1).

1-9 Changing the blend mode for the third layer to the suitable mode, which is Subtract Mode, as illustrated in figure (5).

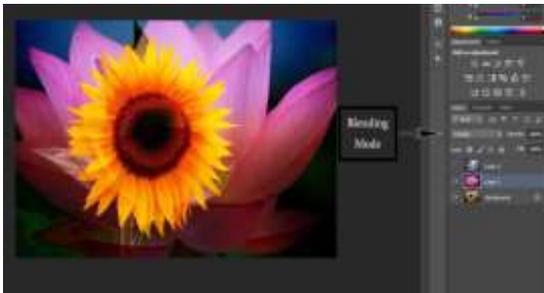


Figure (4): the design after changing the second layer blend mode



Figure (5): the design after changing the third layer blend mode

1-10 Saving the design as JPG file.

1-11 Running Adobe Illustrator then opening the saved photo, as illustrated in figure (6).

1-12 Preparing the Image Trace tool by following the following steps:

Menus > Windows Menu > Image Trace.

1-13 Choosing the suitable mode of Image Trace tool, which is Reduction to 16 Colors, noting that we can choose a number of colors that corresponds to the number used in the rug to be produced, as illustrated in figure (7).



Figure (6): opening the design in Illustrator and preparing Image trace tool



Figure (7): the design after reducing to 16 colors

1-14 The final form of the design after the reduction process appears in figure (8).



Figure (8): the final design

2. Produced Designs:

14 designs have been produced with the same method illustrated above, as in table (1).

Table (1): produced designs

No .	Pictures before processing	Designs	No .	Pictures before processing	Designs
1			2		
3			4		
5			6		
7	 		8	 	
9	  	 	10	  	

11			12	 	
13	 	 	14	 	

3- Implementation phase

Designs No. 6, 11, and 14 have been produced in Oriental Weavers Factory in 10th of Ramadan city in the following specifications:

- **Product type:** Special Studio.
- **Pile length:** 12 mm.
- **Used materials:**
 - **Pile:** 100% domestic wool, yarn count 3/1.
 - **Ground fabric:** 100% polyester, yarn count 14/4.
 - **Back cover fabric:** 100% cotton, yarn count 6/1.
- **Fabric structure:**
 - **Ground fabric:** plain weave 1\1.
 - **Back cover fabric:** plain weave 1\1.

3-1- Executed hanging rugs:



Picture (5): the executed rug of design No.6.



Picture (6): the executed rug of design No.11.



Picture (7): the executed rug of design No.14.

Research results:

- 1- Utilizing the possibilities of Photoshop and Illustrator software in the design of pendants.
- 2- making a benefit of the aesthetic values of natural flowers in the design of hanging rugs.
- 3- Hand Tufting is one of the most successful techniques in the implementation of designs of hanging textiles, providing aesthetic values and enriching the design of the hanging rug.
- 4- Computer and design software are important and useful tools in developing the design process and increasing the innovative capacity.
- 5- Designing 16 wall hanging rugs using the natural flower aesthetics and possibilities of Photoshop and Illustrator.
- 6- Choosing three designs and executing them using hand tufting method.

Recommendations:

- 1- making more specialized studies that are concerned with the technical development of wall hanging textiles and keeping up with the development and of designs.
- 2- Making Benefit of the aesthetics of natural elements in textile design.
- 3- The necessity of making more studies about wall hanging rugs and their relations with interior and exterior spaces and linking them to modern architecture.
- 4- making benefit of the operational possibilities of hand tufting in producing special wall hanging rugs.
- 5- Training the sense of sight to watch and observe nature to increase creative abilities.

6-Developing half-mechanical carpet industry and supporting designers.

7-The necessity of linking scientific institutions and production destinations through protocols that facilitate the implementation of practical applications of researches and make benefits for production destinations, and thus the Egyptian industry of such researches.

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