Designing Bedspreads Utilizing Butterfly and Fish Motifs using Adobe Illustrator

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Abstract— Design inspiration comes from a variety of sources like nature, flowers, trees, vegetables, animals, fish, insects or birds etc.A motif could be used to establish a mood, a theme, or symbolic meaning. In our life, every person is surrounded by many different natural species. Butterflies become popular subjects for the highly stylized and symmetrical design on the crests. Butterfly motif is a symbol of hope, fertility and beauty. Fish is a very ancient Chinese decorative motif. In this study, naturalistic, stylized and geometric patterns of butterflies and fish are created using adobe illustrator followed by the designing of bedspreads.

Key words: Design, Inspiration, Motif, Naturalistic, Stylized, Geometric patterns, Adobe Illustrator

I. INTRODUCTION

Nature has always provided inspiration for pattern. When you stroll through the forest and across fields you will discover that nature, with its rich variations and exquisite detail, is unsurpassed in color and patterns.Artistic depictions of butterflies have been used in many cultures including Egyptian hieroglyphs 3500 years ago [1]. Fish have had a role in culture through the ages, serving as deities, religious symbols, and as the subjects of art, books and movies [2]. Design is the creation of a plan or convention for the construction of an object or a system. Designing often necessitates considering the aesthetic, functional, economic and sociopolitical dimensions of both the design object and design process[3], [4].Household furnishings are personal property and include, among others, items such as furniture, appliances, rugs, cooking utensils, and art objects[5]. Home furnishing goods including furniture, upholstery, carpets, wall coverings, as well as soft home furnishings such as bedspreads and other bed related items, linens, tablecloths, and candles[6].Adobe Illustrator is vector graphics drawing tool while Photoshop is pixel graphic drawing tool. Vector Graphics is the use of geometrical primitives such as points, lines, curves, and shapes or polygon(s), which are all based on mathematical equations, to represent image in computer graphics [7],[8].

II. OBJECTIVES OF THE STUDY

1) To select two different species from nature; Butterfly and Fish.
2) To develop naturalistic, stylized, geometric motifs from the selected themes using Adobe Illustrator.
3) To analyze and select the motifs suitable for bed spreads.
4) To apply the selected motifs on bed spreads.

III. METHODOLOGY

A. Selection of species from nature:

– Butterfly
– Fish

Different types of butterfly and fish are sourced from different medias like books, magazines, newspapers, internet etc., From the collected resources, ten varieties of butterflies and fishes are selected for the application on bed spreads.

SAMPLE CODE	DESCRIPTION
BN1,FN1	Butterfly ,fish naturalistic design 1
BS1,FS1	Butterfly, fish stylized design 1
BG1,FG1	Butterfly, fish geometric design 1
BN2,FN2	Butterfly, fish naturalistic design 2
BS2,FS2	Butterfly, fish stylized design 2
BG2,FG2	Butterfly, fish geometric design 2
BN3,FN3	Butterfly, fish naturalistic design 3
BS3,FS3	Butterfly, fish stylized design 3
BG3,FG3	Butterfly, fish geometric design 3
BN4,FN4	Butterfly, fish naturalistic design 4
BS4,FS4	Butterfly, fish stylized design 4
BG4,FG4	Butterfly, fish geometric design 4
BN5,FN5	Butterfly, fish naturalistic design 5
BS5,FS5	Butterfly, fish stylized design 5
BG5,FG5	Butterfly, fish geometric design 5
BN6,FN6	Butterfly, fish naturalistic design 6
BS6,FS6	Butterfly, fish stylized design 6
BG6,FG6	Butterfly, fish geometric design 6
BN7,FN7	Butterfly, fish naturalistic design 7
BS7,FS7	Butterfly, fish stylized design 7
BG7,FG7	Butterfly, fish geometric design 7
BN8,FN8	Butterfly, fish naturalistic design 8
BS8,FS8	Butterfly, fish stylized design 8
BG8,FG8	Butterfly, fish geometric design 8
BN9,FN9	Butterfly, fish naturalistic design 9
BS9,FS9	Butterfly, fish stylized design 9
BG9,FG9	Butterfly, fish geometric design 9
BN10,FN10	Butterfly, fish naturalistic design 10
BS10,FS10	Butterfly, fish stylized design 10
BG10,FG10	Butterfly, fish geometric design 10

Table 1: Nomenclature of the Samples

B. Creation of motifs using adobe illustrator:

Naturalistic, stylized and geometric patterns of butterflies and fishes are created using adobe illustrator software. Adobe Illustrator is an impressive collection of powerful design software that can tackle all sorts of design jobs[9]. It is an intuitive graphics design application that gives designers an enjoyable work experience.

Fig. 1: Butterfly Motifs-Naturalistic, Stylized, Geometric Patterns

Fig. 2: Fish Motifs-Naturalistic, Stylized, Geometric Patterns

C. Selection of Motifs

After creating the motifs, the investigator has prepared the evaluation sheet consisting of the following criterias; Selection of design, Colour Combination, Clarity of design and Suitability of design.The motifs are evaluated by a panel that consists of 25 judges expert in the field of designing. The data under each category is ranked on the evaluation sheet as good, fair and poor. Butterfly and fish motifs (Naturalistic, stylized and geometric motifs from each criteria rated as good by more number of respondents) are selected for applying on bedspreads.

IV. RESULTS AND DISCUSSION

A. Butterfly Motifs - Naturalistic Designs:
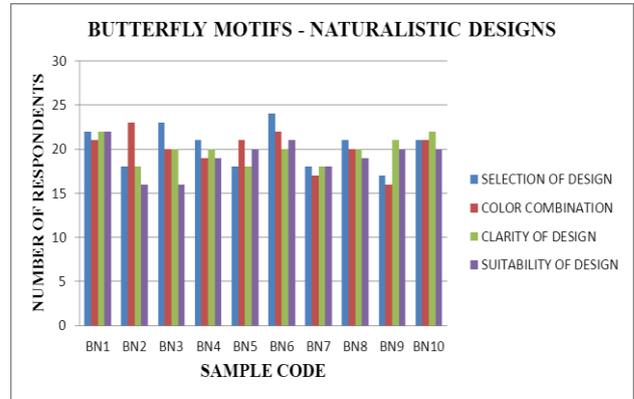
Fig.3: Butterfly Motifs-Naturalistic Designs

It is found from the figure that BN1 and BN6 are rated as good in all the four aspects compared to the other motifs.
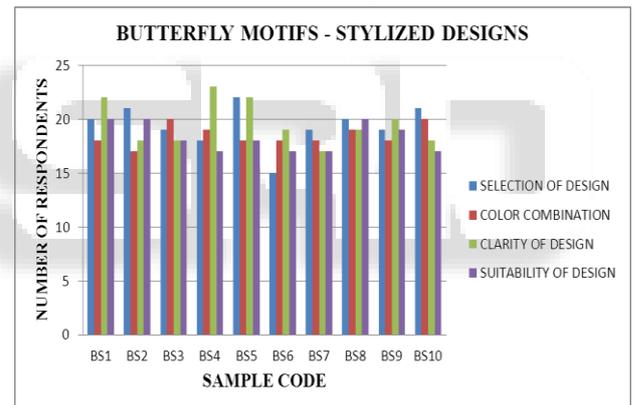
B. Butterfly Motifs - Stylized Designs:

Fig. 4: Butterfly Motifs-Stylized Designs

It is evident that BS1 and BS5 are found to be good in all the four aspects compared to the other motifs.
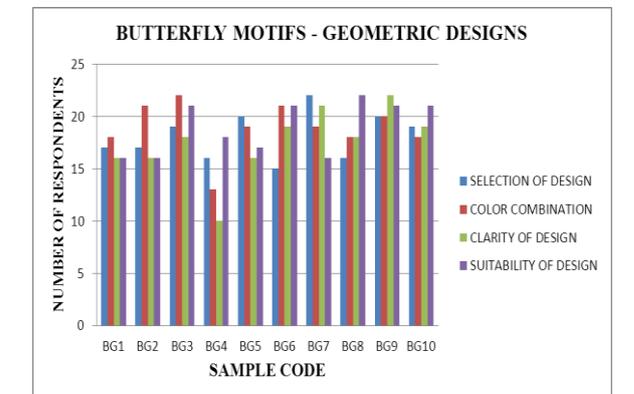
C. Butterfly Motifs - Geometric Designs:

Fig. 5: Butterfly Motifs-Geometric Designs

It is clear that BG3 and BG9 are rated as good in all the aspects compared to the other motifs.

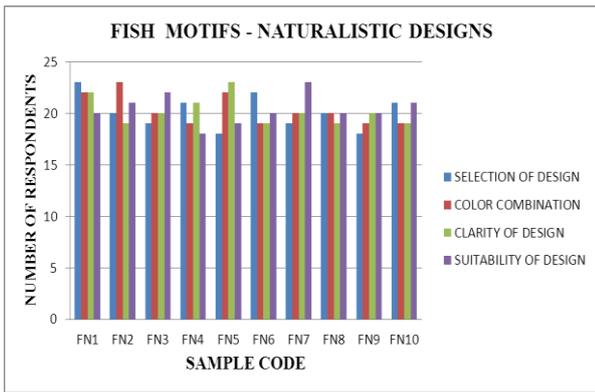### D. Fish Motifs - Naturalistic Designs:

Fig. 6: Fish Motifs-Naturalistic Designs

It is found from the above figure that FN1 and FN5 are found to be good in all the four aspects compared to the other motifs.

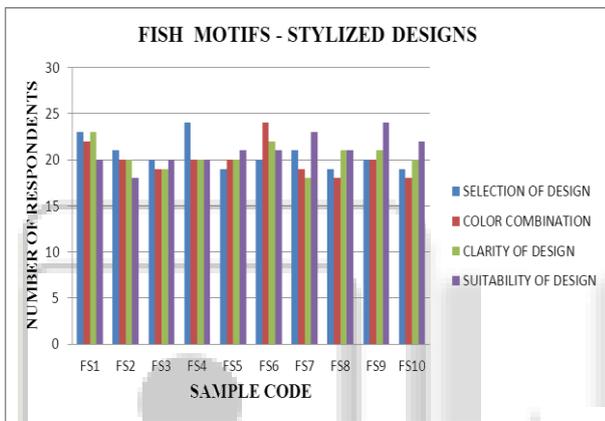### E. Fish Motifs - Stylized Designs:

Fig. 7: Fish Motifs-Stylized designs

It is evident from the above figure that FS1 and FS6 are found to be good in all the four aspects compared to the other motifs.
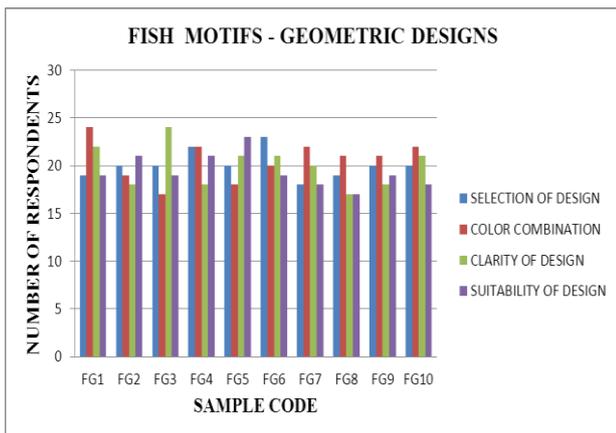
F. Fish Motifs - Geometric Designs:

Fig. 8: Fish Motifs-Geometric designs

The above figure showed that FG1 and FG6 are rated as good in all the four aspects compared to the other motifs.

G. Application of motifs in bed spreads:

Selected motifs of butterflies and fishes are applied on bed spreads using adobe illustrator.The motifs are arranged in different ways to create bedspread designs more attractive.

Some motifs are arranged in the centre to make the center design and some motifs are arranged in random manner to create an overall design of bed spread.

SAMPLE CODE	DESCRIPTION
BBS1, FBSI	Butterfly, fish bed spread 1
BBS2, FBS2	Butterfly, fish bed spread 2
BBS3, FBS3	Butterfly, fish bed spread 3
BBS4, FBS4	Butterfly, fish bed spread 4
BBS5, FBS5	Butterfly, fish bed spread 5
BBS6, FBS6	Butterfly, fish bed spread 6
BBS7, FBS7	Butterfly, fish bed spread 7
BBS8, FBS8	Butterfly, fish bed spread 8
BBS9, FBS9	Butterfly, fish bed spread 9
BBS10, FBS10	Butterfly, fish bed spread 10
BBS11, FBS11	Butterfly, fish bed spread 11
BBS12, FBS12	Butterfly, fish bed spread 12

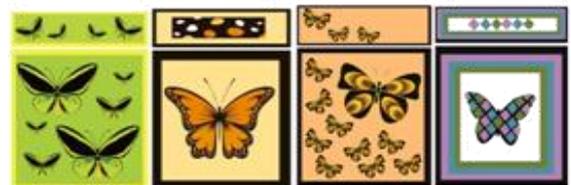Table 2: Designed Bedspreads

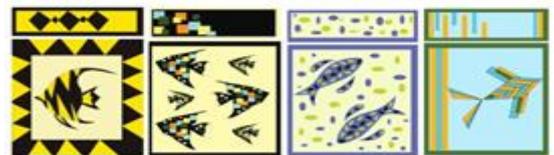Fig. 9: Bedspreads– Butterfly Motifs

Fig. 10: Bedspreads– Fish Motifs

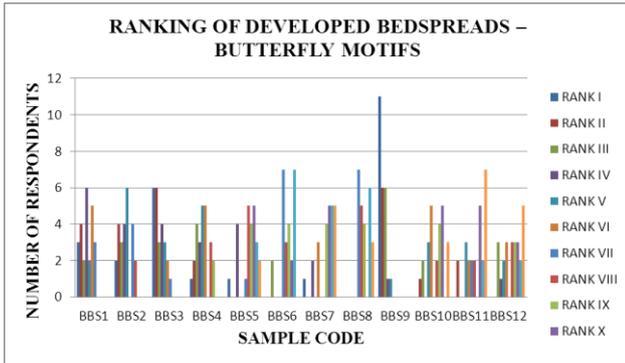*H. Ranking of Developed Bedspreads-Butterfly Motifs:*

Fig. 11: Ranking of Developed Bedspreads-Butterfly Motifs

It is evident that BBS9 is found to be top ranked by majority of respondents (44%) followed by BBS3(24%) and FBS1(12%).

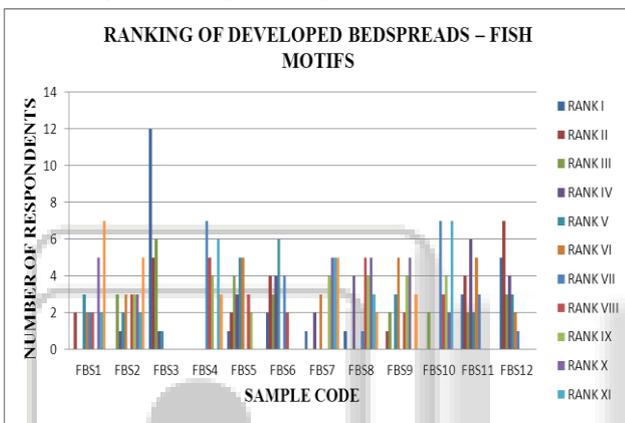*I. Ranking of Developed Bedspreads – Fish Motifs:*

Fig. 12: Ranking of Developed Bedspreads-Fish Motifs

It is found that FBS3 is found to be top ranked by majority of respondents (48%) followed by FBS12 (20%) and BBS11 (12%).

V. CONCLUSION

Adobe illustrator being a wonderful drawing tool enables anyone to create vector based art easily. It is found that the newly created motifs are simple and creative and there is a lot of scope to create motifs to be applied on bedspreads. Home textile manufacturers are ready to adopt the motifs and there is no doubt that the new motifs created for bedspreads are going to spark future changes in home furnishing industry.

REFERENCES

[1] P.A.Opler, "The Complete Book of North American Butterflies" ,Thunder Bay Press, 2011.
[2] https://en.wikipedia.org/wiki/Fish
[3] https://en.wikipedia.org/wiki/Design
[4] http://www.lenoreld.com/about.us.html
[5] http://definitions.uslegal.com/h/household-furnishings/
[6] https://www.advisen.com/downloads/Industry_Report_Home_Furnishings_and_Furniture_Retail_2012_02_06_teaser.pdf
[7] https://en.wikipedia.org/wiki/Vector_graphics
[8] http://cutandcreativity.co.uk/?page-id-456
[9] http://donlodsop.blogsop.com/2012/10/corel-draw-x4-portable.html