



Transforming the way
Carpets are
designed,
produced and marketed.

INTERMEDIATE GUIDE

Alternative Technology

Computer graphics
innovation for
custom carpets

Table of Contents

About Galaincha

1

Using the Galaincha Tools

Border

Border Reflection 2

Resize

Resize Design 4

Canvas Resize 5

Crop Selection 6

Rotate Image 7

Working with Layers

Separate Colors into Layers 8

Layer Properties 9

History 9

Select Area of Color in Design 10

Send Area of Color to New Layer 11

Colors

Merge Color Techniques 12

Color Merging in Different Texture in Same Color 13

Load Color 15

Map Color 16

Load Standard Colors 17

Quick Color 17

Color Combination

Generate Color Combination 18

Auto Color Assignment 19

Apply Color From Image 19

Image Color Adjustment 20

Editing Color Sequence 20

Design Generation

Checkerboard 22

Greek Key Border 23

Shapes 24

Cloud 26

Contour 27

Maze 28

Motif with Gradient Effect 29

Motif with Contour Effect 30

Motif Repeat 31

Motif Rotate 32

Motif Spread 33

Gradient Texture 34

Horizontal Lines 35

Multi Ply 36

Generate Carpet Elements

Centre Motif 38

Fill Pattern 39

Other Options for Paint Bucket Tool 40

Border

Rectangular Border 42

Rectangular to Circular Border 43

Interlace Design 44

Design Motif with Interlace Effect 47

Quick Shapes 48

Slide 49

CarpeTect / Symmetry 50

Gradient Tool

Defining steps in the Gradient Tool 52

Implementing Gradient Texture 52

Gradient With Patch 53

Managing Layers 53

support@galaincha.com.np

Using Galaincha

About Galaincha

Galaincha is a powerful custom rug designing software. It is the solution for carpet designing, producing simulated renderings and preprocessing. It is an extremely user friendly software that can be instantly mastered by designers with prior graphics software knowledge. Even business owners with no prior graphics software expertise will be able to use its major features for customization, illustration and production details with ease.

Prerequisite

You will be notified if any prerequisite to run Galaincha software is missing. Please install the required component and login again in that case. If you are running Galaincha for the first time, you will be asked to install it. Please confirm to proceed.

Minimum system requirement for Galaincha

You mean system requirement? Here is the system requirement for running Galaincha program.

The minimum system requirements:

- Windows XP (SP2 or later),
or Windows Vista, Windows 7, Windows 8
or Windows Server 2003 (SP1 or later),
or Windows Server 2008
- .NET Framework 3.5 SP1
- 500 MHz processor (Recommended: 800 MHz or faster)
- 256 MB of RAM (Recommended: 512 MB or more)
- 1024 x 768 screen resolution
- 200+ MB hard drive space

Using Galaincha

Border Reflection

www.galaincha.com.np

This tool is mostly used for designing borders. Here are the steps to use the border reflection tool.

- First, create a vertical border portion of the design.

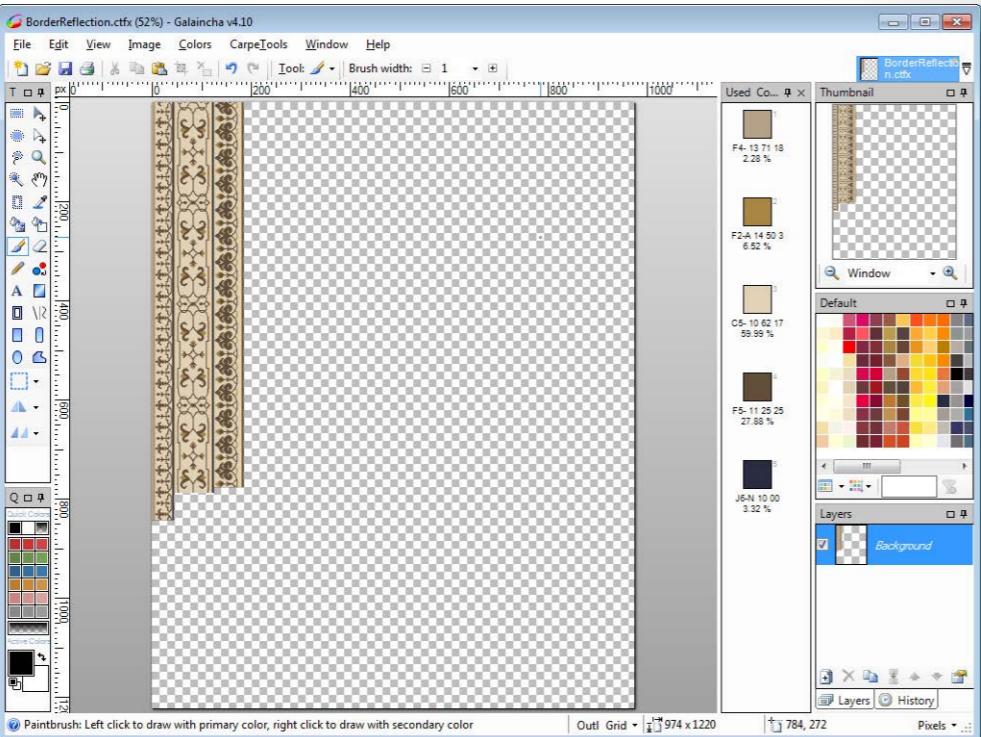
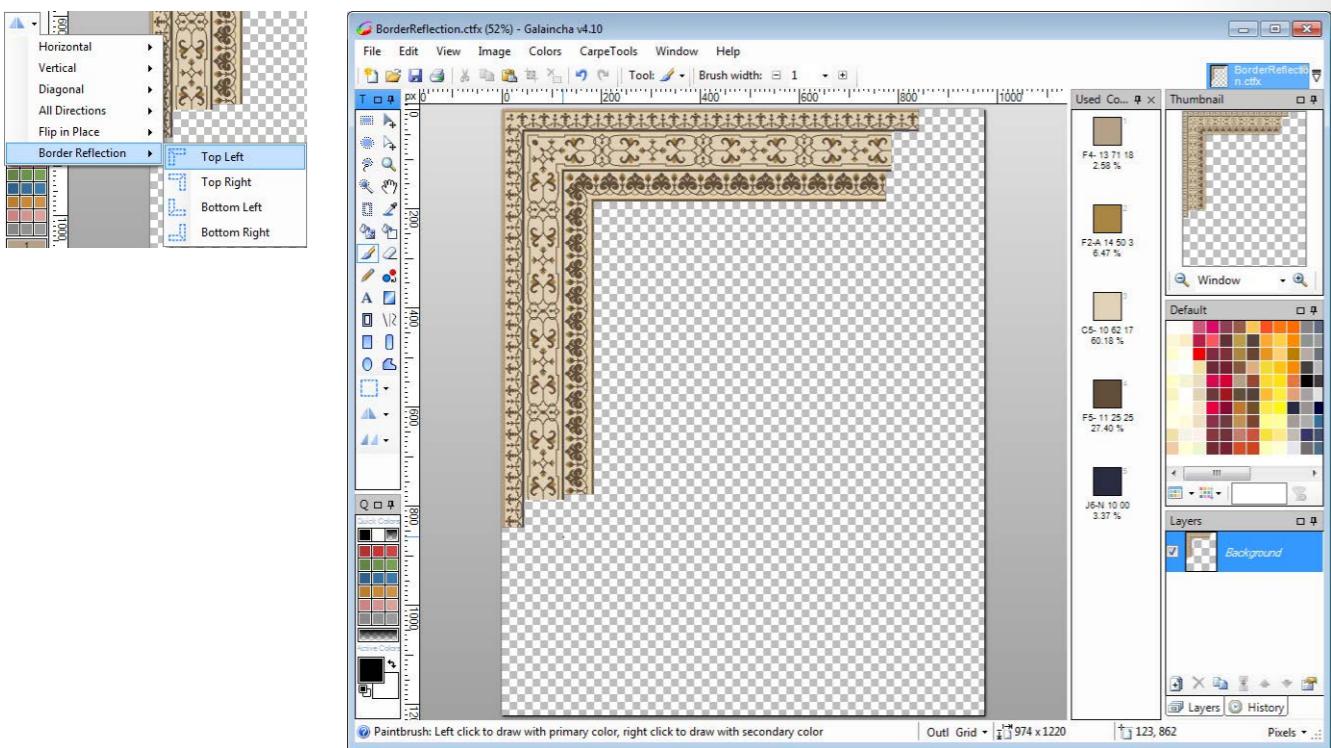
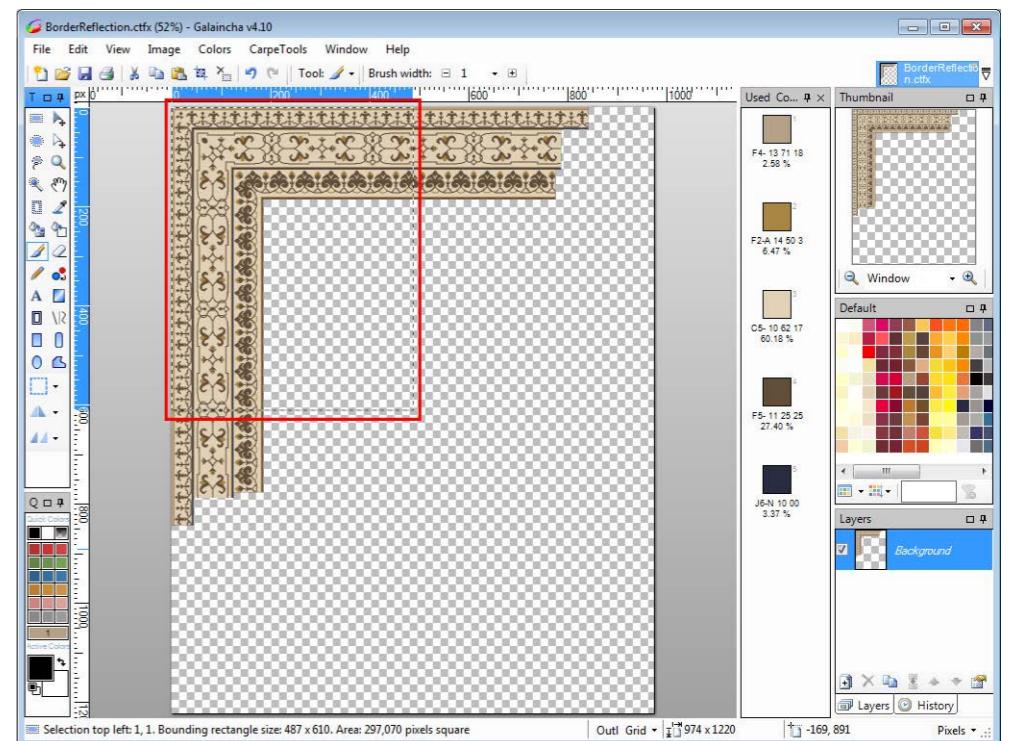
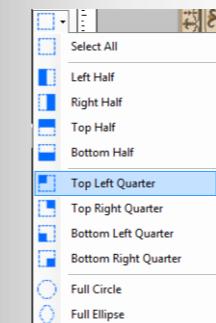


Fig. Design with vertical border

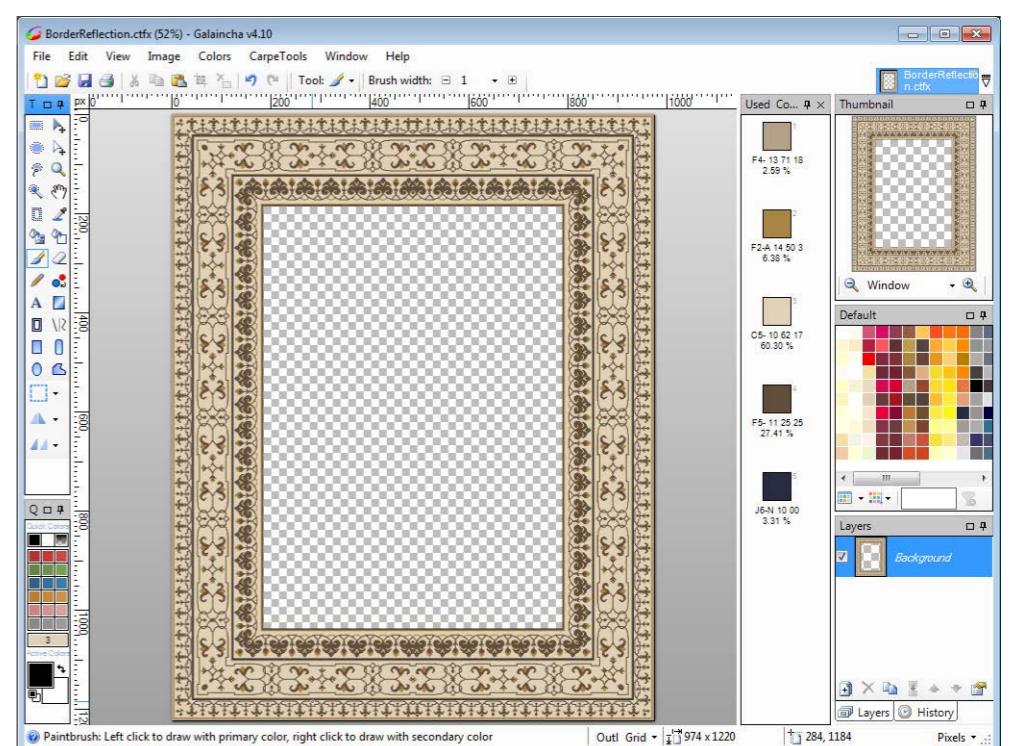
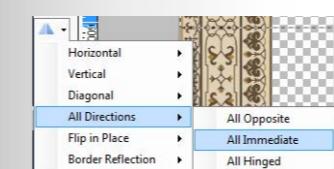
Select the design using rectangular select tool and go to **Mirror process tool>>Border Reflection>>Top Left**.



Go to Selection Tool>>Top Left Quarter



Go to Mirror Process tool>>All Directions>>All Immediate



Result after Processing border reflection

Using Galaincha

Border Reflection

support@galaincha.com.np

Using Galaincha

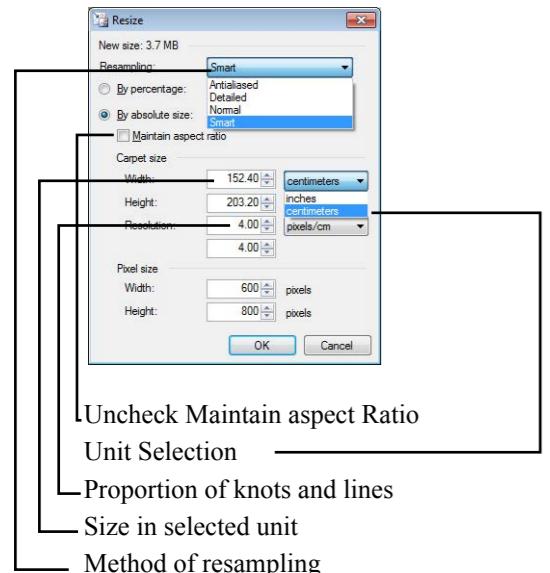
Resize Design

www.galaincha.com.np

This tool is mostly used to resize the design for desirable size of the carpet.

Go to **Image >> Resize**

The **Resize** window will appear



- Uncheck **Maintain aspect Ratio**
- Unit Selection**
- Proportion of knots and lines**
- Size in selected unit**
- Method of resampling**

- a. **Antialiased** : When you resize any photographic image, it is used.
- b. **Detailed** : To resize design with minimal distortion and retain small details, it is used.
- c. **Normal** : Normal resize is a resize method like in other programs. It will distort your image so you may have to rework on it.
- d. **Smart** : When you want to resize design which does not have any kinds of outlines in motif, this option is used.



1.5 x 2 m
original

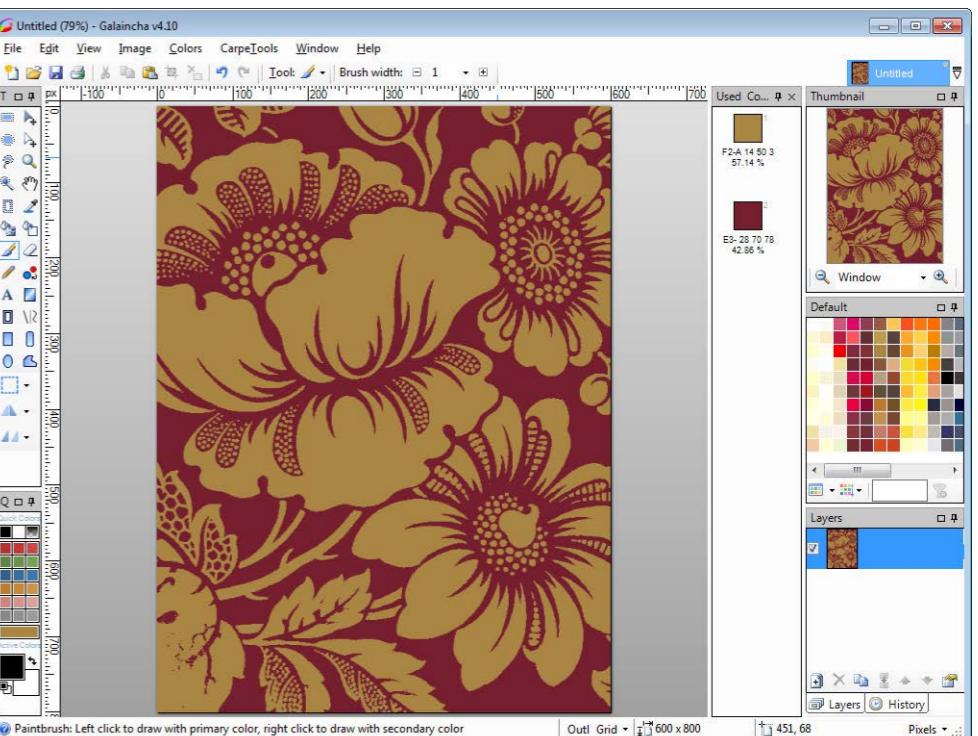
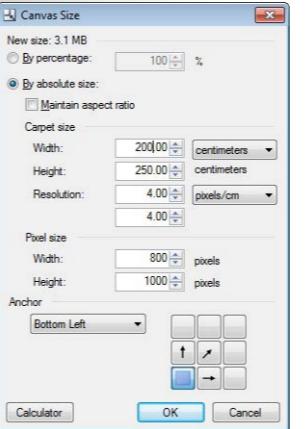


2 x 2.5 m
result

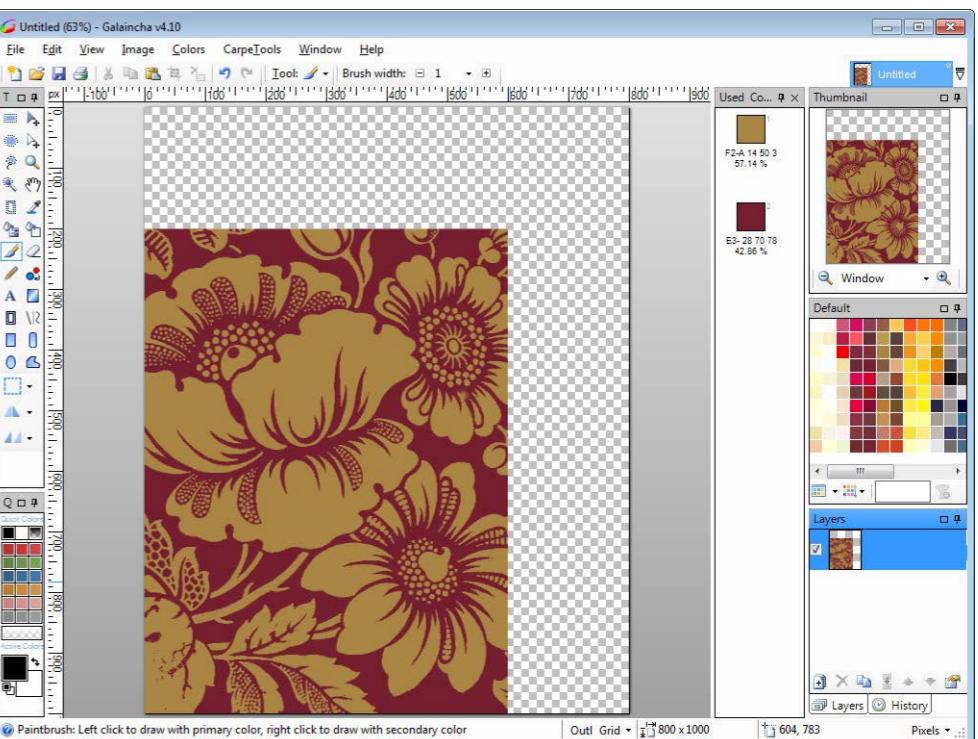
support@galaincha.com.np

Canvas resize lets you increase or decrease a design's canvas area. You can set the anchor point to indicate where to position the existing design on the new canvas.

Go to **Image >> Canvas Resize**



1.5 x 2 m
orginal



2 x 2.5 m
result

Using Galaincha

Canvas Resize

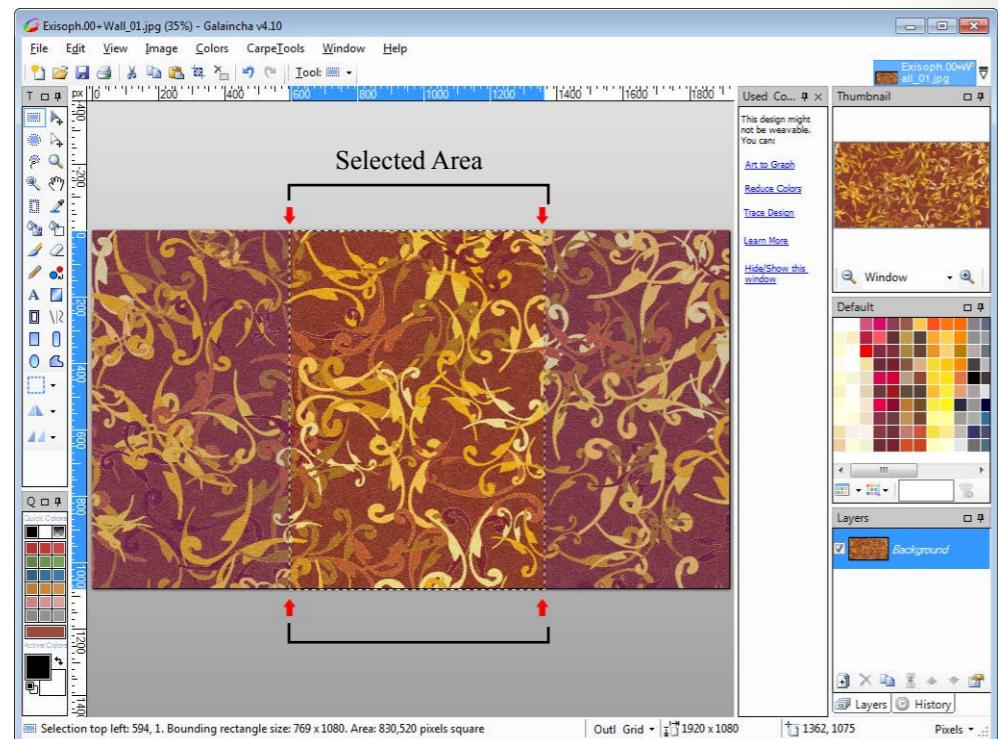
Using Galaincha

Crop Selection

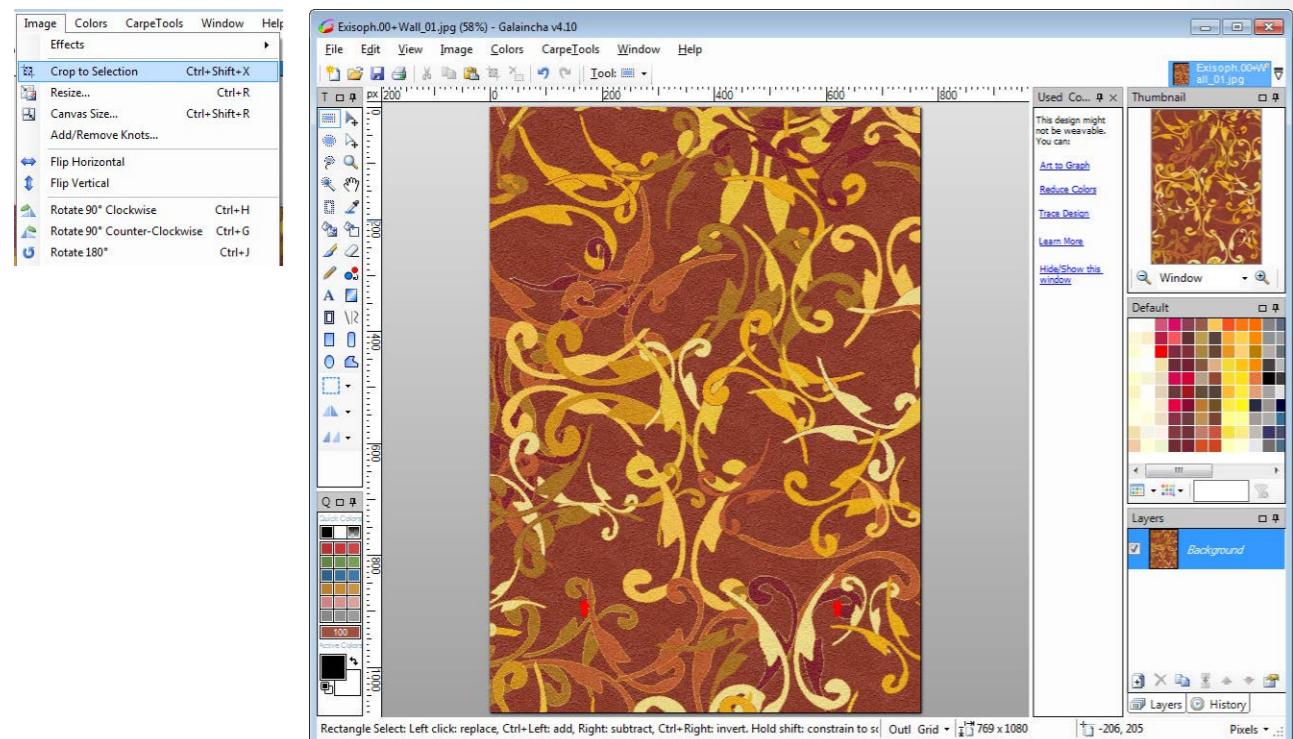
www.galaincha.com.np

Open a Design.

Select the part of the design that you want to crop.



Go to **Image>>Crop Selection**

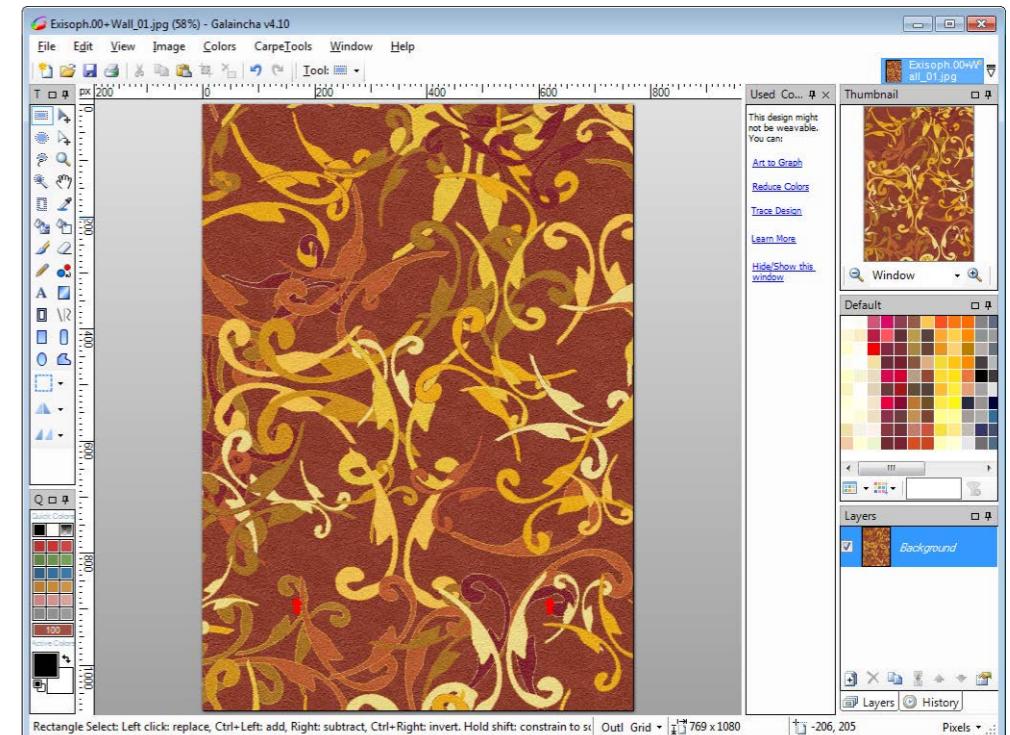


Using Galaincha

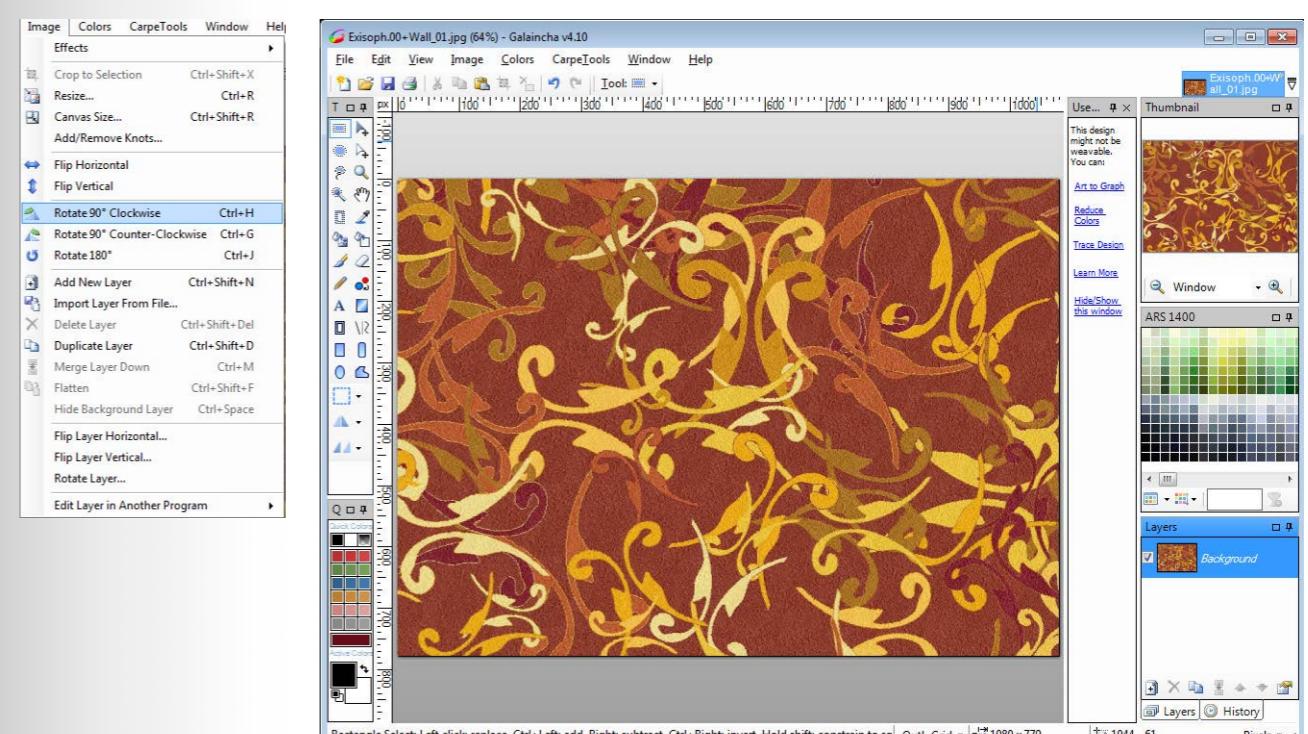
Rotate Image

support@galaincha.com.np

Open a Design.



Go to **Image>>Rotate 90° Clockwise**



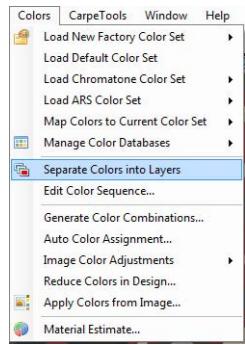
Using Galaincha

Working with layers

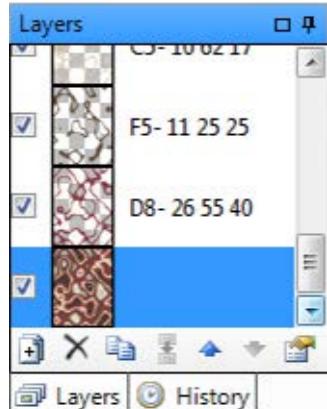
Separate Colors into Layers

Open a Design

Go to **Colors>>Separate Colors into Layers.**



It separates all used colors in the design into individual layers.



Color separated into layers.

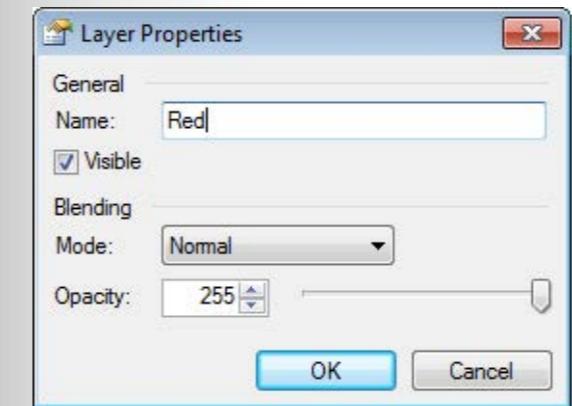
www.galaincha.com.np

support@galaincha.com.np

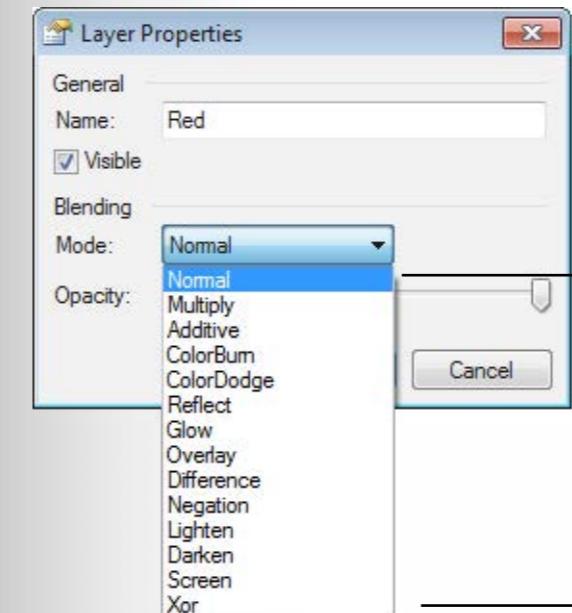
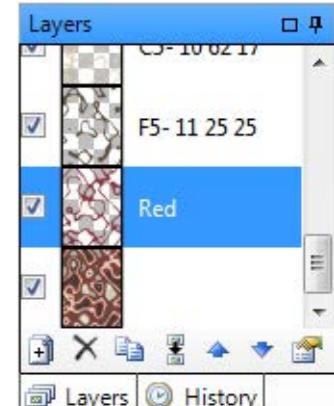
Using Galaincha

Working with layers

Layer Properties



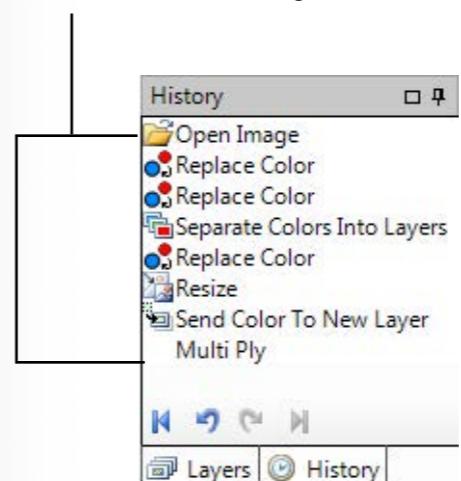
Double Click on the Layer and Change the Layer name and properties.



Different options for selected layer.

History

Click on the tab next to the Layers to reveal the history of the design.
It shows the tools and effects used in the design.



History of the current design.

Using Galaincha

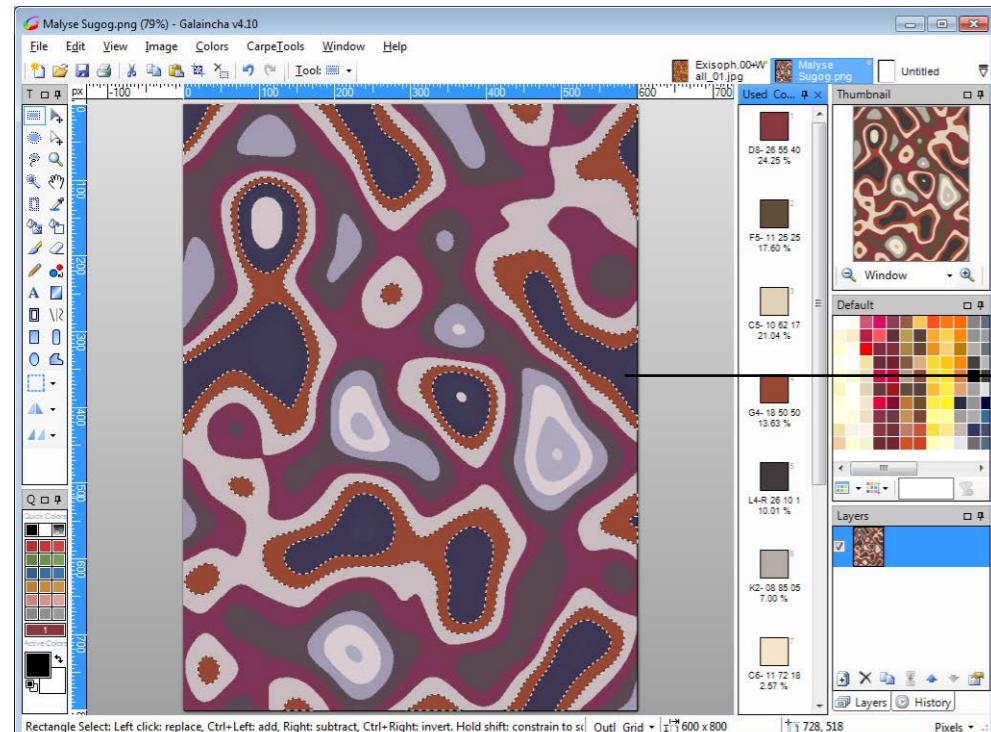
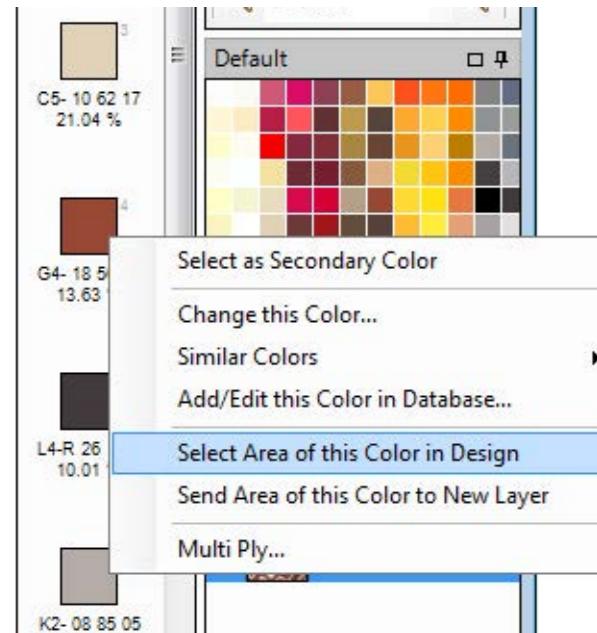
Working with layers

Select Area of color in design

Right click on the color from Used Colors list.

Select the option Select Area of this Color in Design.

The area of the particular color in the design will be selected .



www.galaincha.com.np

support@galaincha.com.np

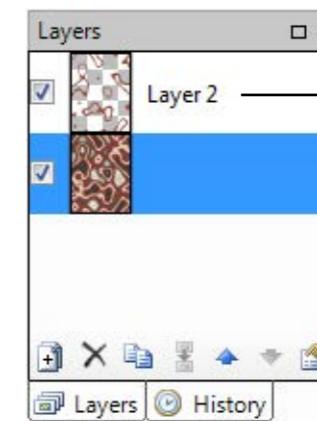
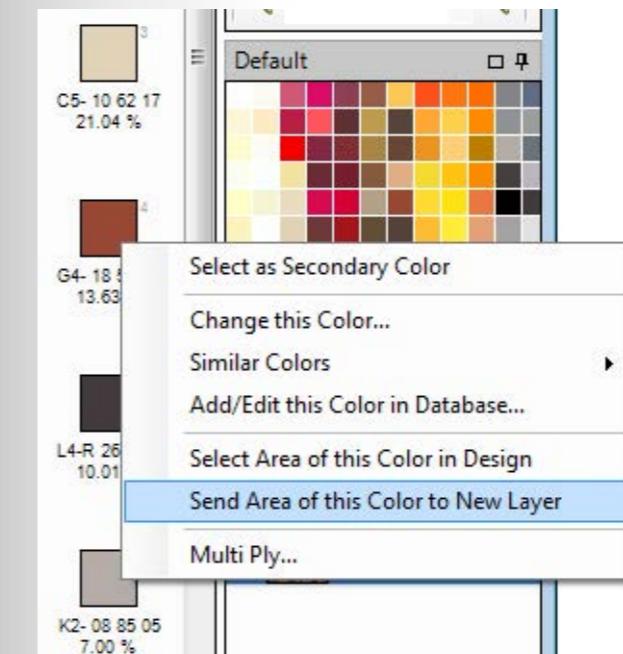
Using Galaincha

Working with layers

Send Area of Color to New Layer

Right click on the color from Used Colors list.

Select the option Send Area of this Color to New Layer.



Selected color moves
to the next layer

Generally, these tools are used to work on a particular color without affecting the other colors.

Using Galaincha

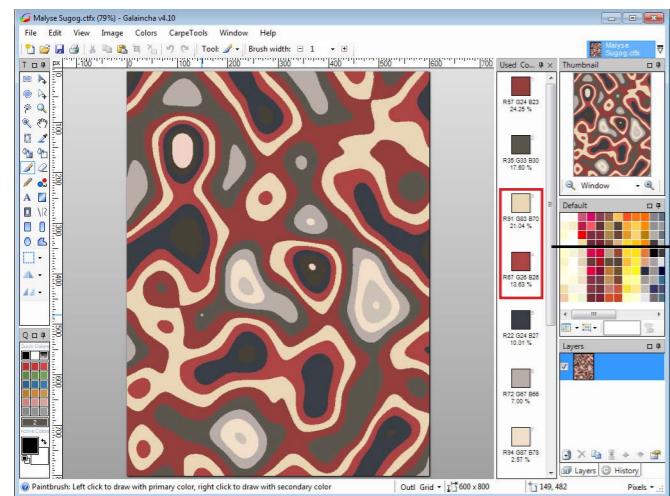
Merge Color

This option is used when we need to merge two colors into one single color.

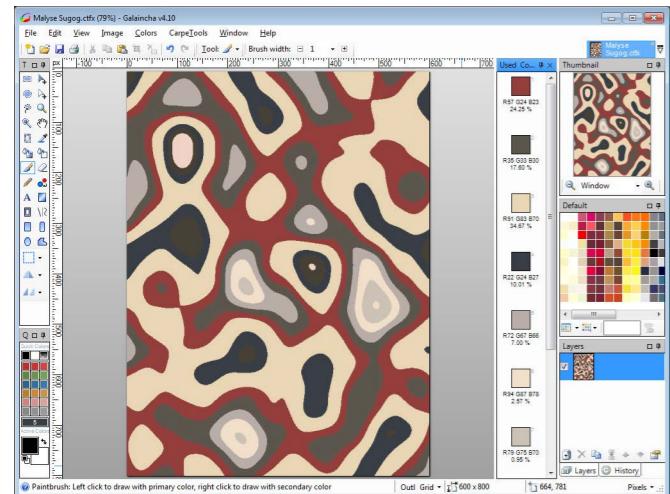
Merge Color Techniques

Drag and drop one color over the other to merge two colors.

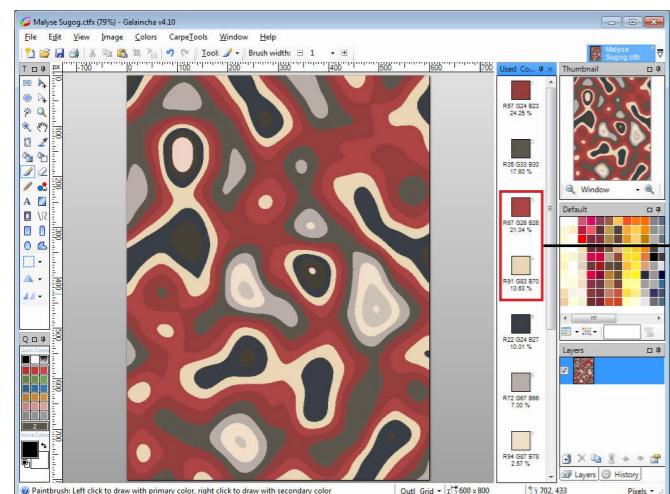
This option is useful for reducing colors.



Dragging one color over another.



Design after color merging



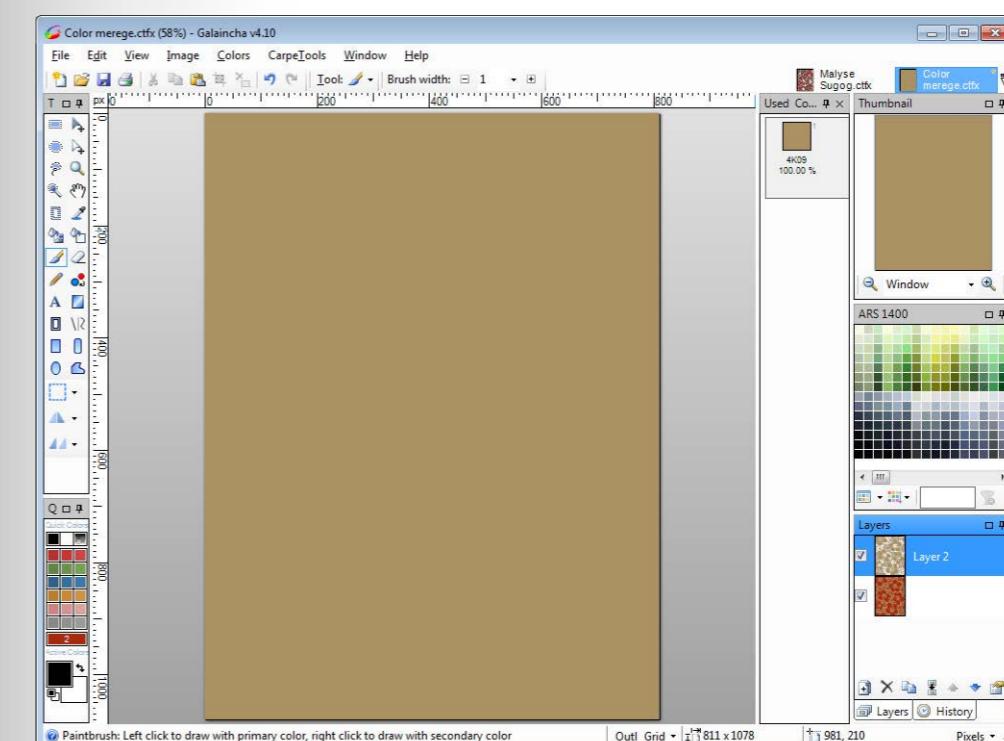
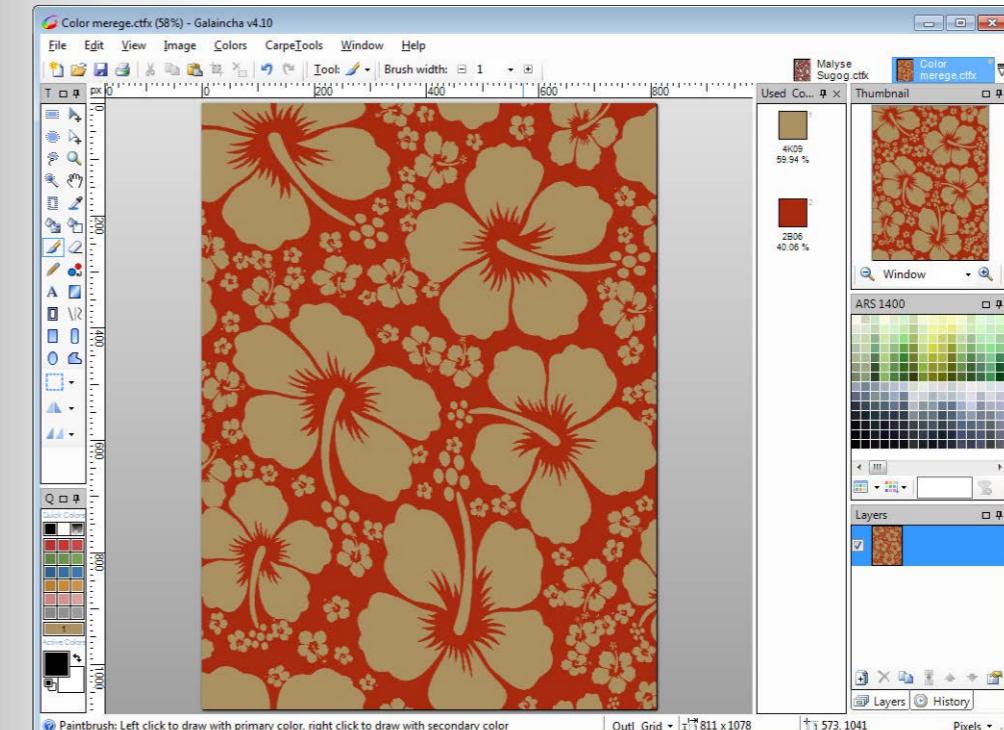
Swap Color by holding Shift key while dragging color.

Using Galaincha

Merge Color

Color Merging in Different Texture in Same Color

Hold **Ctrl** key then drag and drop a color over another to merge color and send into different layer. This option is useful to have same color but into different layers and textures.



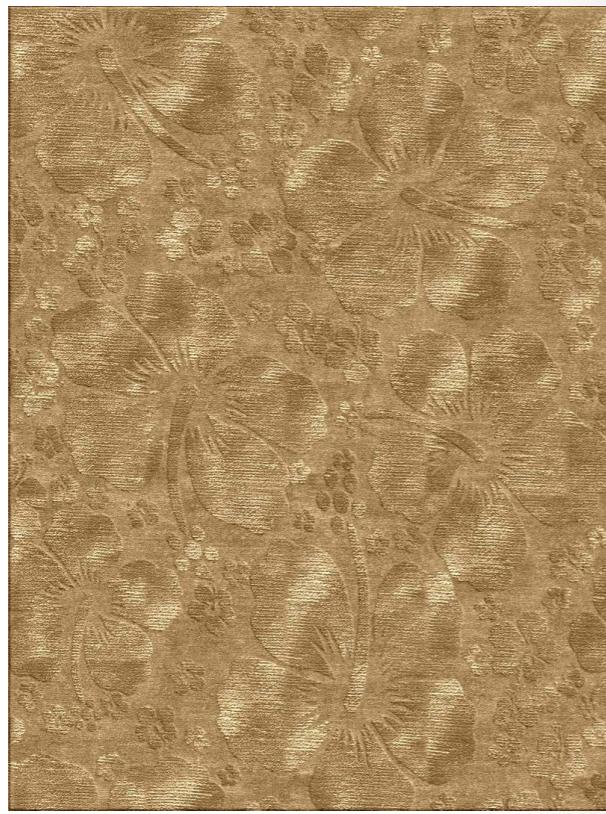
CTRL + Dragging the color over another sends the color into new layer and merge into single color.

Using Galaincha

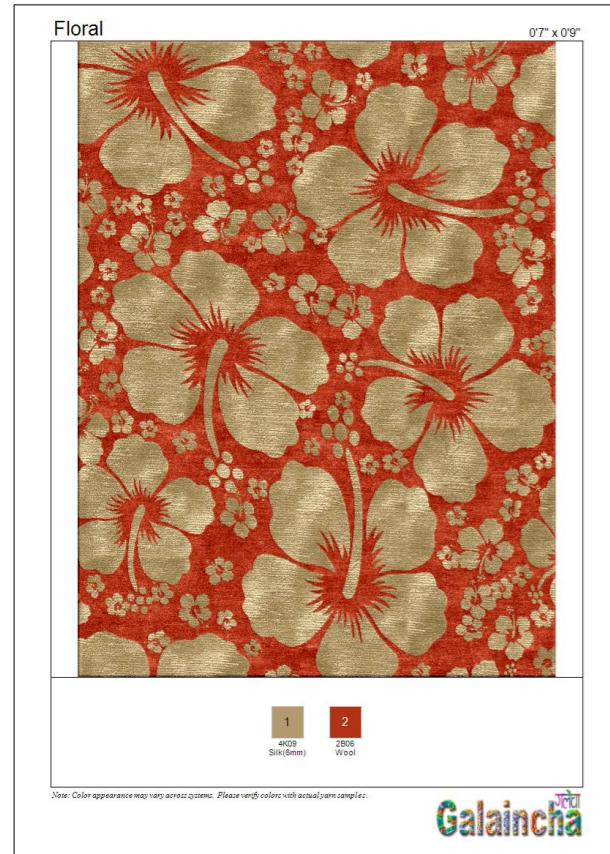
Merge Color



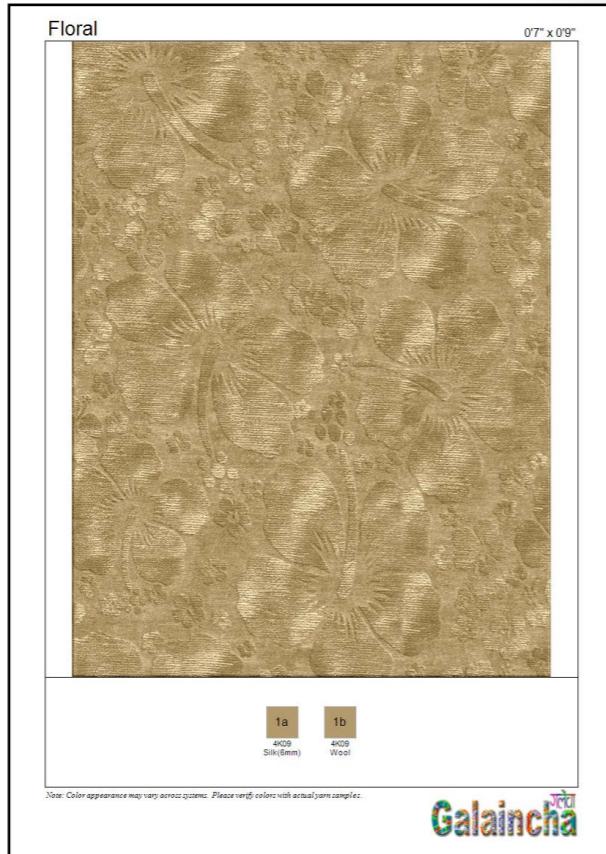
Visualization in different color and different texture



Visualization in same color and different texture



Design plate of different color and texture



Design plate of same color and different texture

www.galaincha.com.np

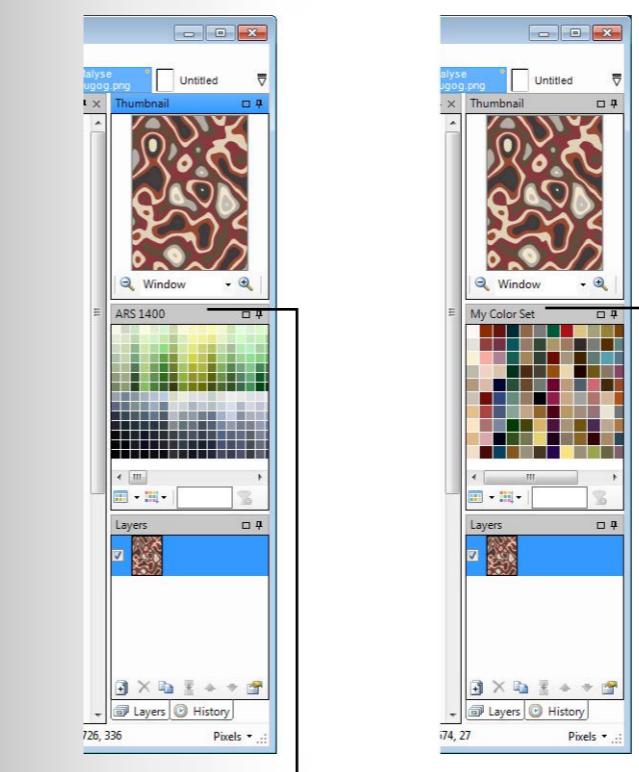
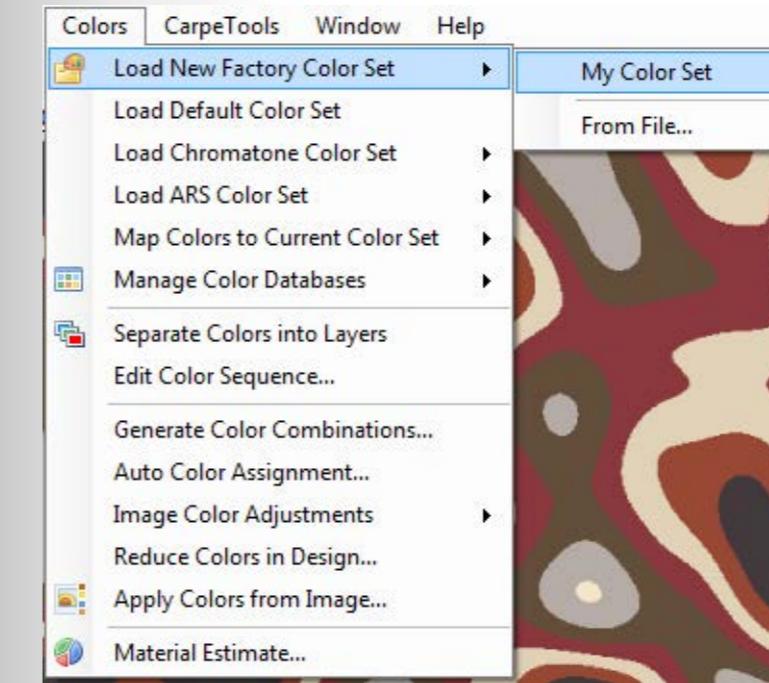
support@galaincha.com.np

Using Galaincha

Load Color

Load New Factory Color

Go to **Colors > Load New Factory Color Set** and select your color set. You can load your own color set by saving color database in the location **Documents\Galaincha\Color Databases**



Chromatone Color set

New color set

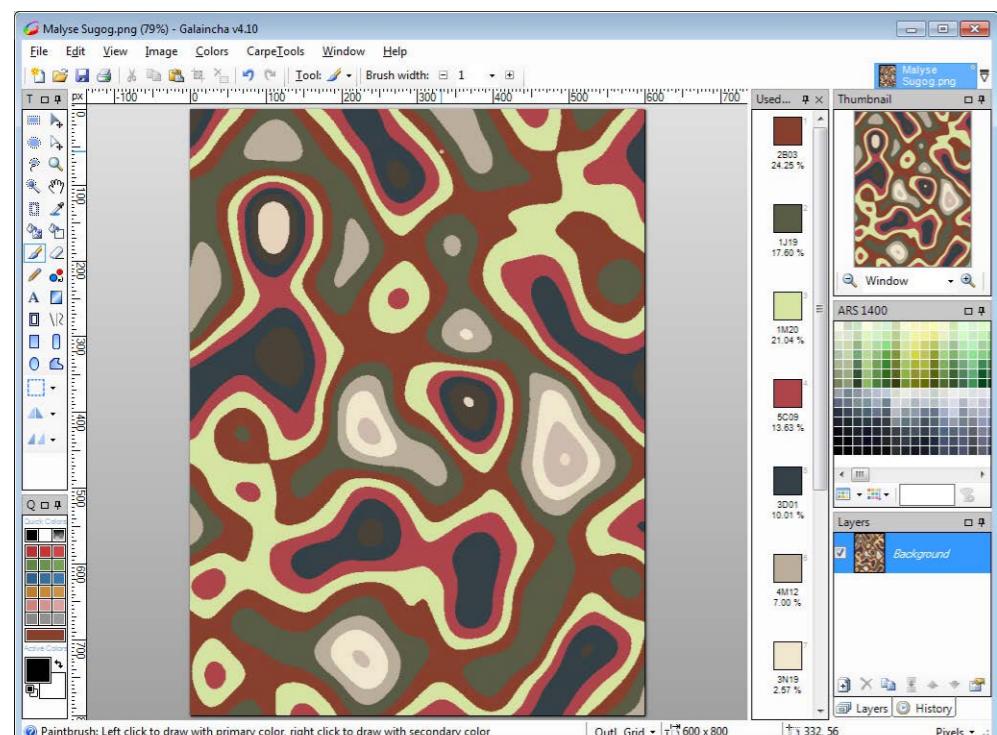
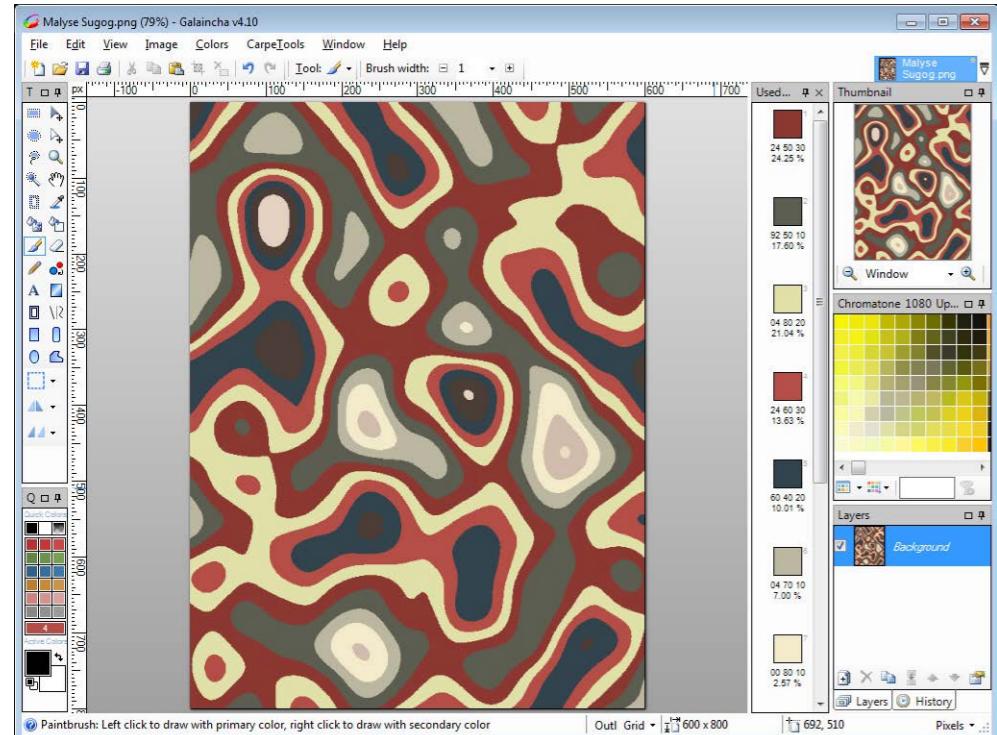
Using Galaincha

Map Color

This option is used when we have to work on different color sets.

Go to **Colors>>Map Colors to Current Color Set**

Colors can be mapped to new color set by Color value or Color Name.



When we map color to current color set, it always takes the nearest color of the set. So, after mapping, the color of the design might vary.

www.galaincha.com.np

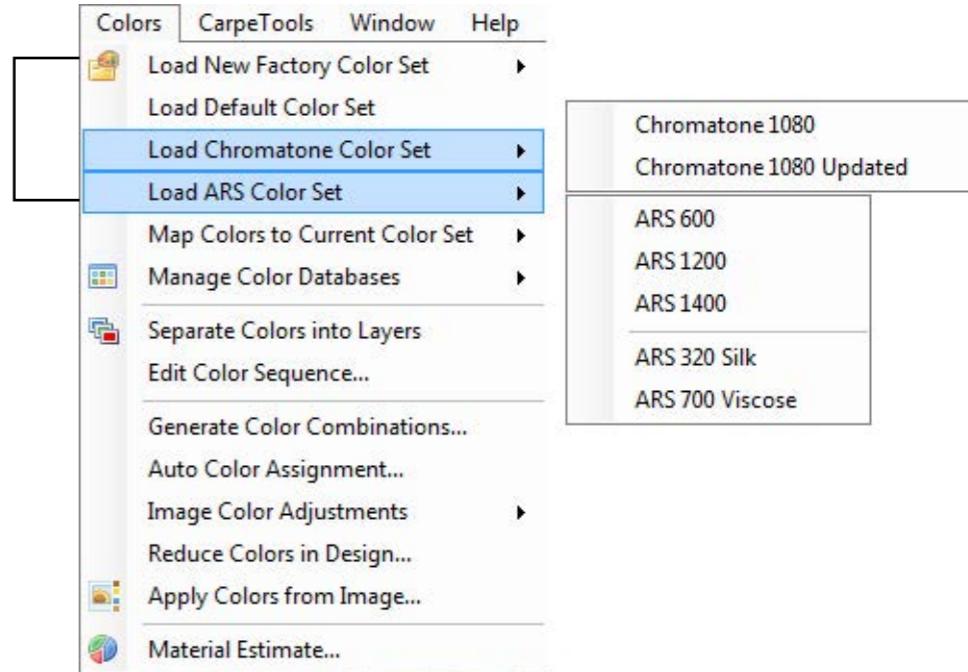
support@galaincha.com.np

Using Galaincha

Load Color

Loading Standard Colors

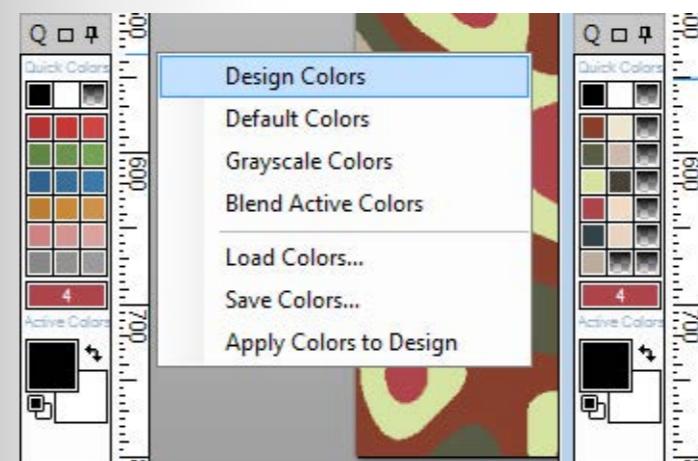
This option is mostly used to choose the standard Color sets of Chromatone and ARS color



In Colors menu, Galaincha provides you different standard color sets.

Quick Colors

This tool helps to choose color and edit the design colors quickly.
Right click on **Quick Colors** to display options



To choose Primary color from Quick Colors, basically click numbers 1,2,3,4,5,6 to select colors Vertically and 111, 222, 333 Horizontally

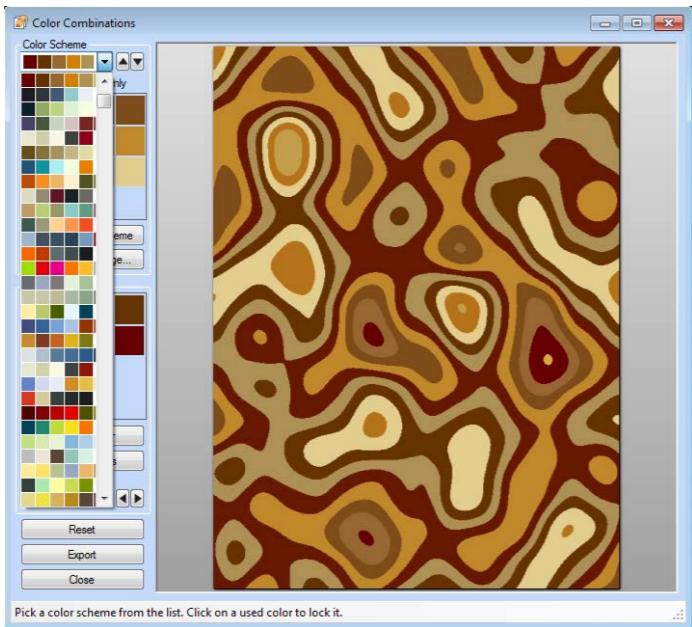
Using Galaincha

Generate Color Combination

This option is used when we have to produce different color combination of the single design.

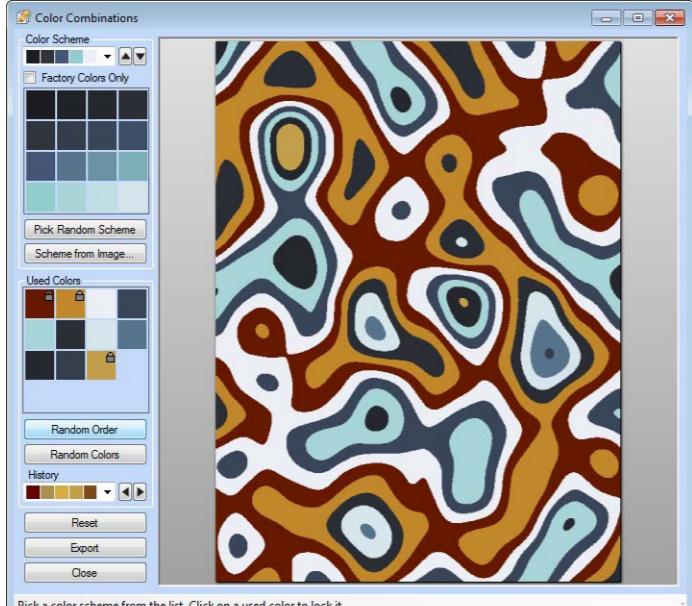
Go to **Colors>>Generate Color Combinations**

By selecting different combination options, you can generate various color combinations in the design.



Toggle the colors of the same color set

Lock any color by clicking the color in used color panel to fix the color while toggling between other colors



www.galaincha.com.np

support@galaincha.com.np

Using Galaincha

Generate Color Combination

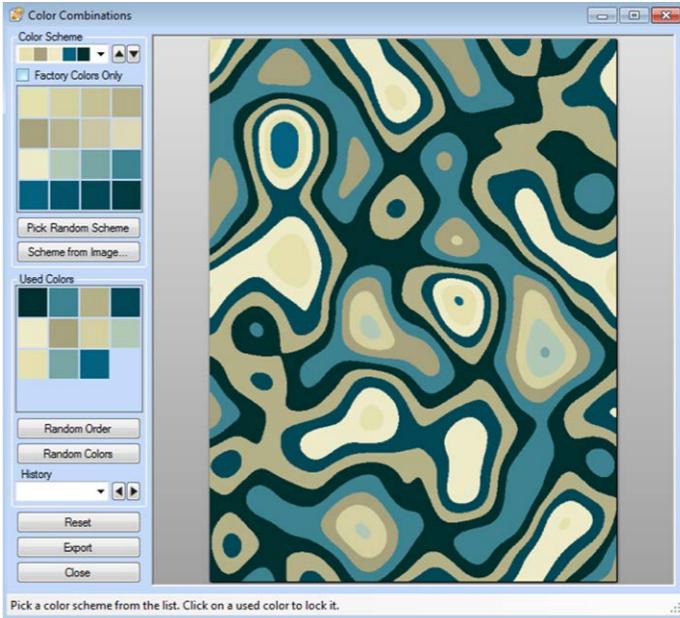
Auto Color Assignment

Go to **Colors>>Generate Color Combinations**

Select the required number of colors from the available colors

Click on the elements to change the individual color

Press Shift and click on the element to fill all the similar colors with the selected colors

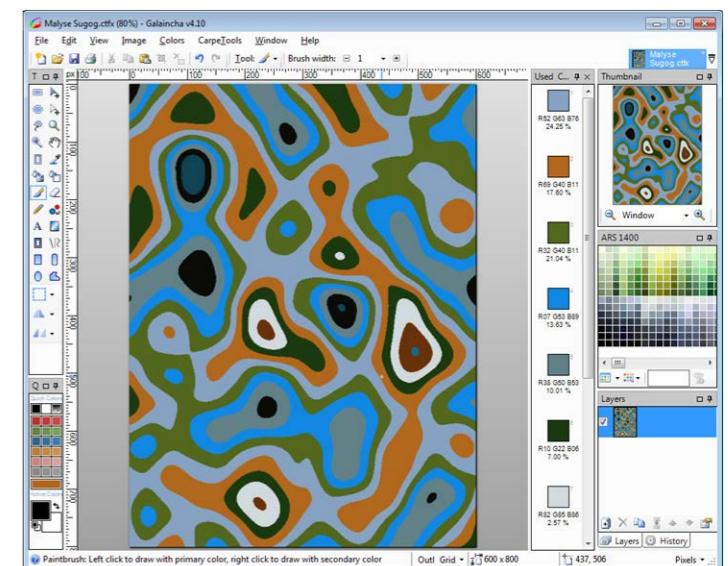
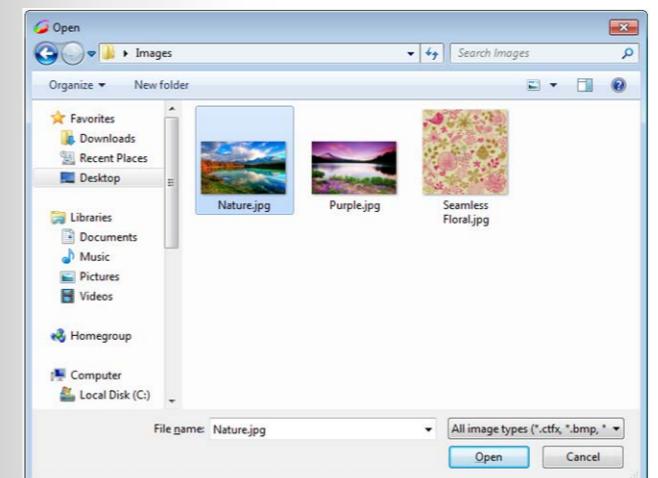


Click Export to apply the changes

Apply Color From Image

Go to **Colors>>Apply Color from image**

Select the image and Open it from the system to apply the colors

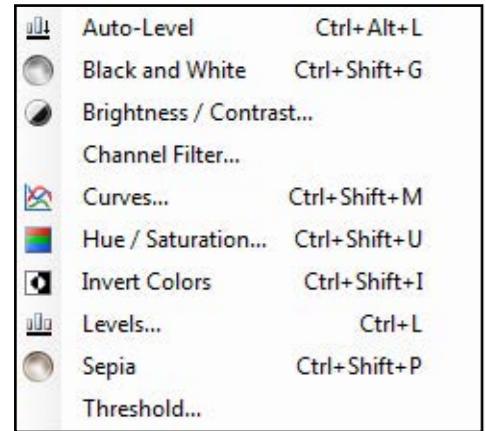


Using Galaincha

Image Color Adjustment

You can make various changes in colors using this tool

Go to **Colors>>Image Color Adjustments**



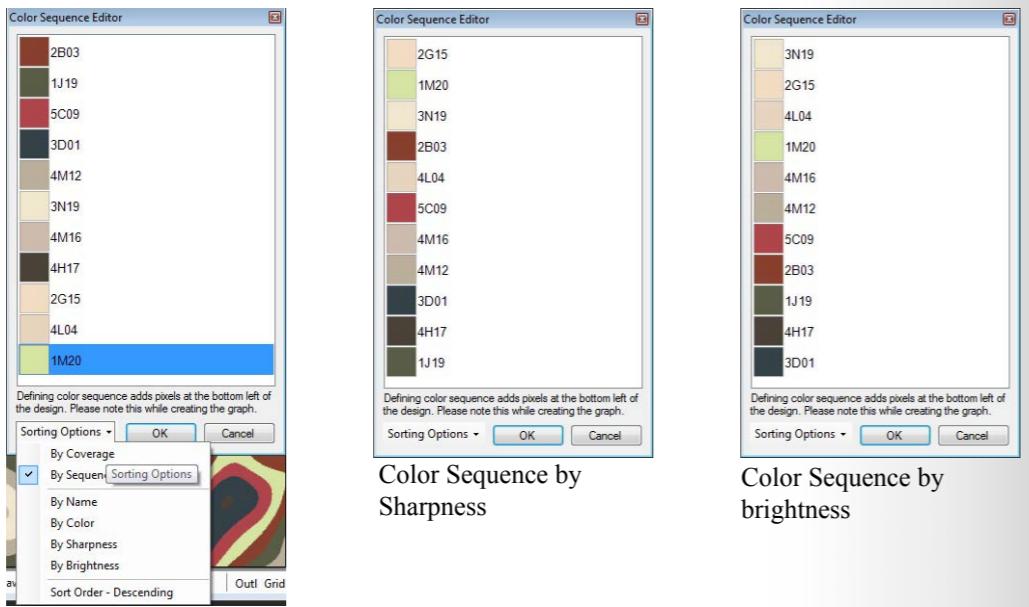
Editing Color Sequence

This tool allows you to change the color sequence of the design.

Go to **Colors>>Edit Color Sequence**



You can change the color sequence by dragging the color



You can choose different sequencing options

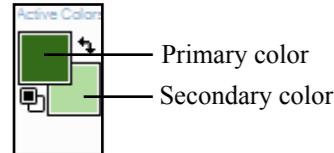
Using Galaincha

Using Galaincha

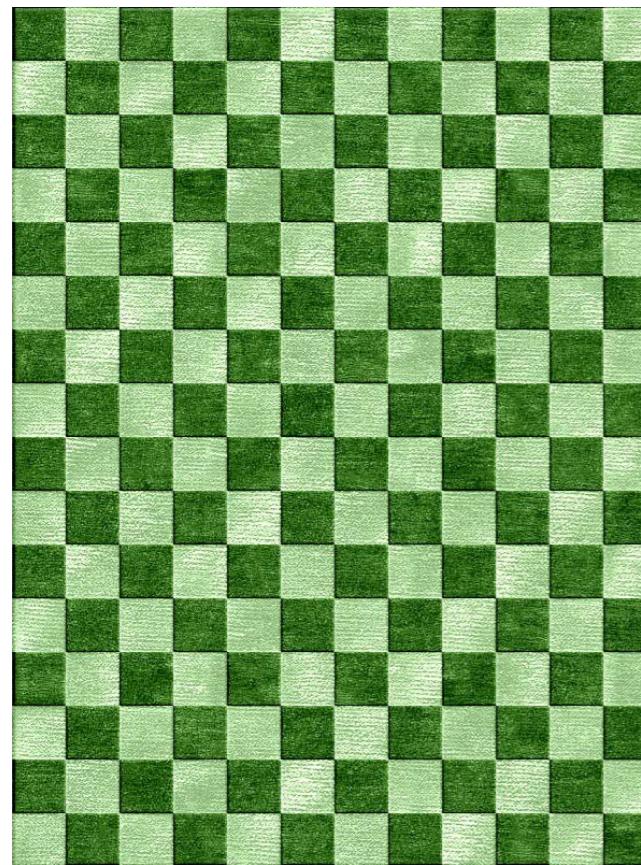
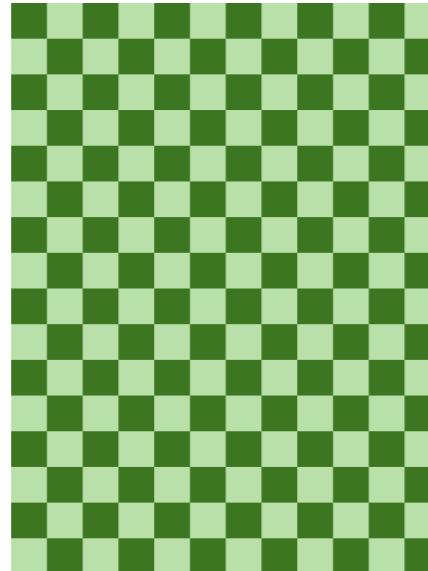
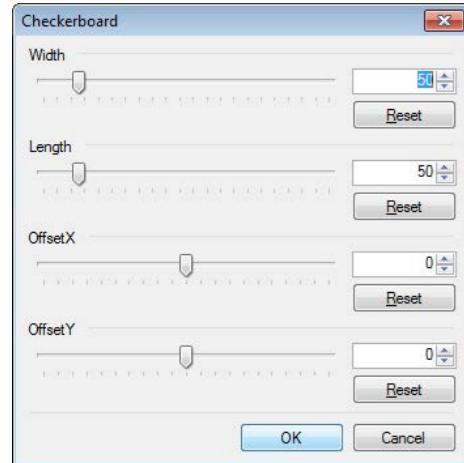
Design Generation

Checkerboard

Select Primary and secondary color.



Go to **CarpeTools>>Create>>Geometric>>Checkerboard**.



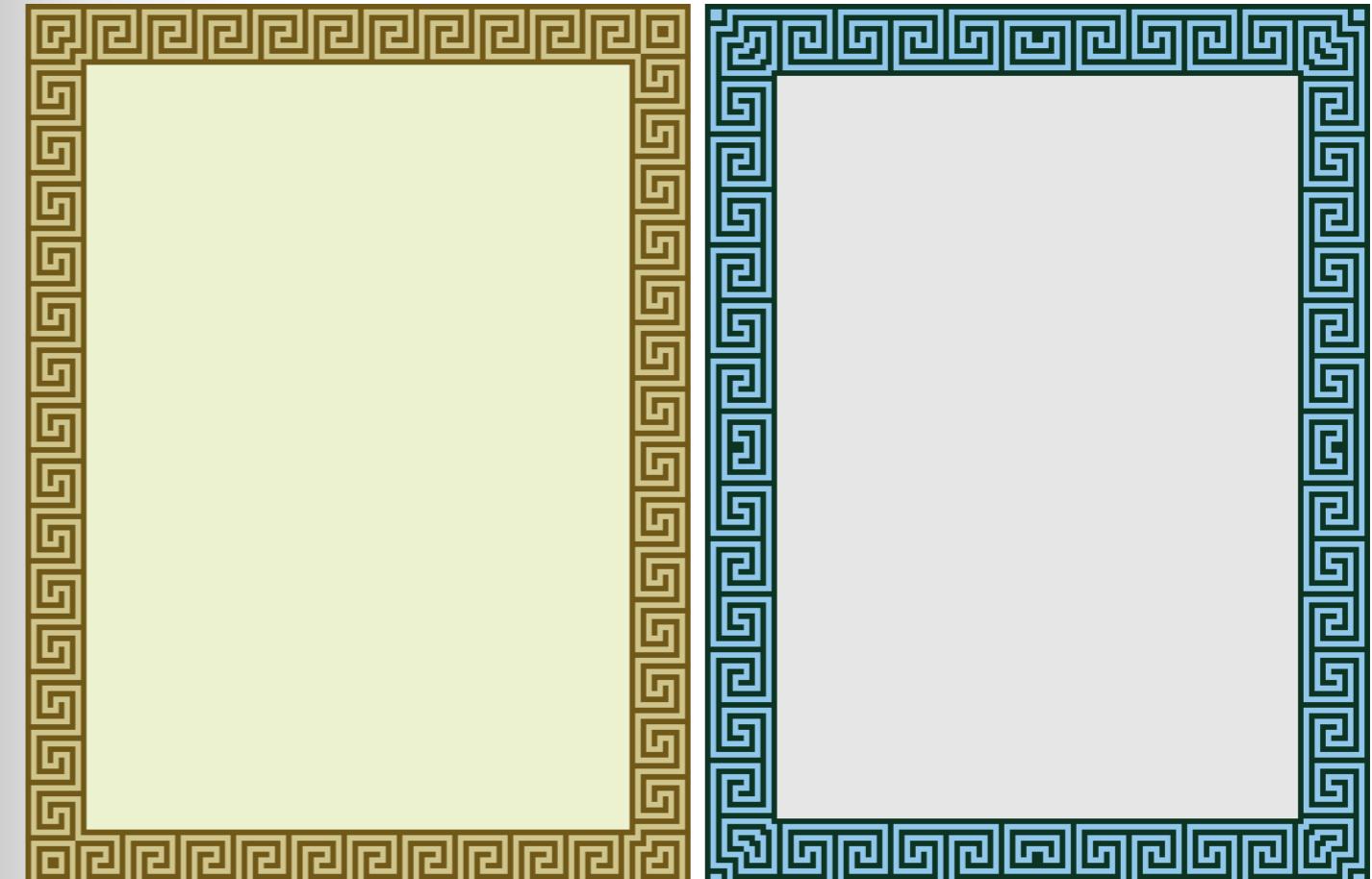
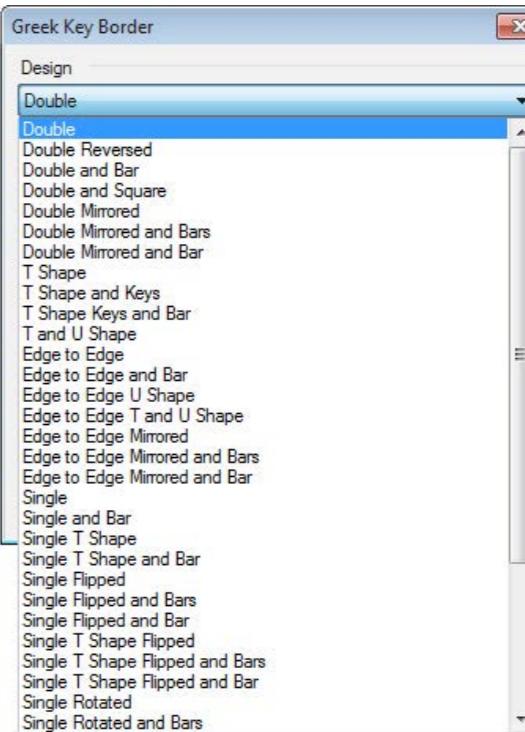
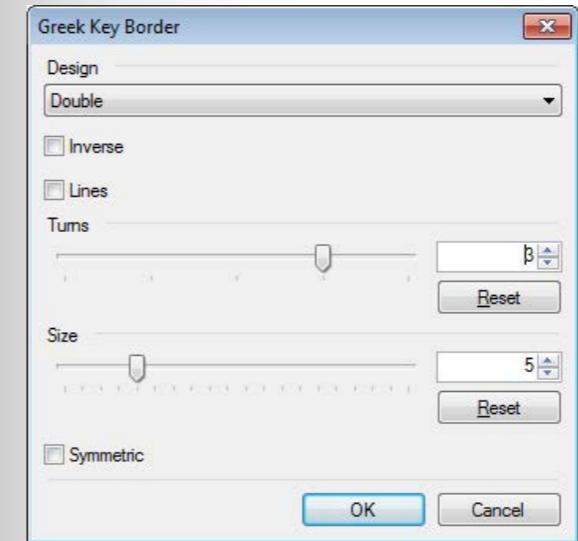
Visualization of the design in Silk (High Pile) and Wool texture

Using Galaincha

Design Generation

Greek Key Border

Go to **CarpeTools>>Create>>Geometric>>Greek Key Border**



Double Shape Border

T Shape Border

Using Galaincha

Design Generation

Circle Shapes

Go to **CarpeTools>>Create>>Geometric>>Shapes**

Shapes

Shape
Circles

Shape Width
100

Shape Length
100

Angle
0.00

Outline
0

Offset (Horizontal)
0

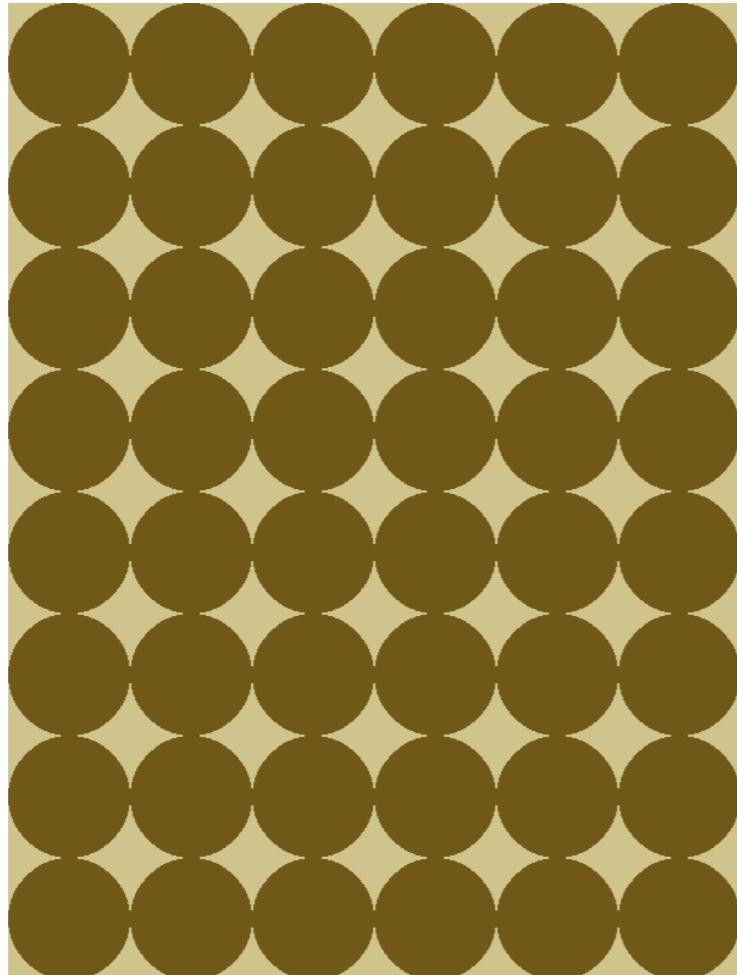
Offset (Vertical)
0

Alternate Row Offset
0

Gap (Horizontal)
0

Gap (Vertical)
0

OK Cancel



Move sliders to generate variations



Circle Design

www.galaincha.com.np

support@galaincha.com.np

Using Galaincha

Design Generation

Diamond Shapes

Go to **CarpeTools>>Create>>Geometric>>Shapes**

Shapes

Shape
Diamonds

Shape Width
100

Shape Length
203

Angle
0.00

Outline
20

Offset (Horizontal)
0

Offset (Vertical)
-6

Alternate Row Offset
50

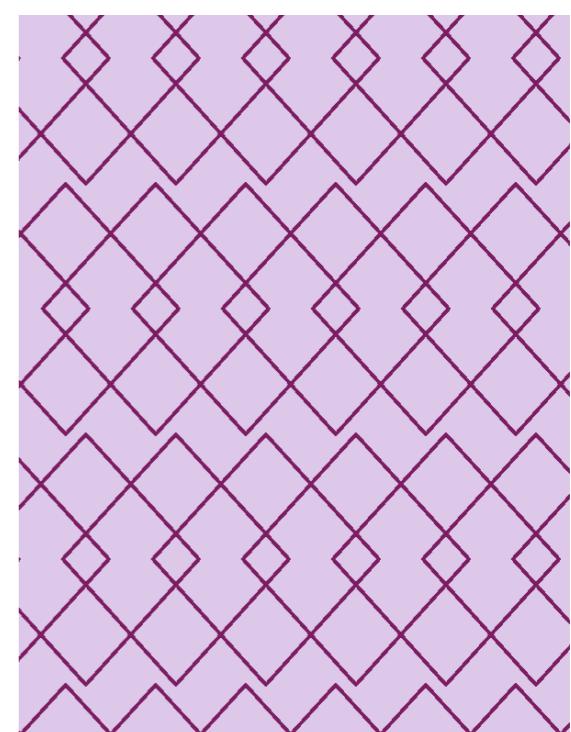
Gap (Horizontal)
0

Gap (Vertical)
0

OK Cancel



Move sliders to generate variations



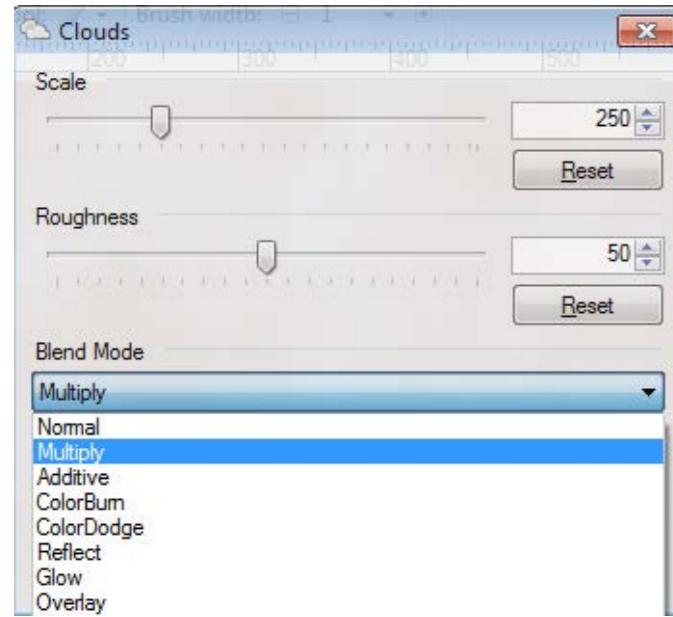
Diamond Design

Using Galaincha

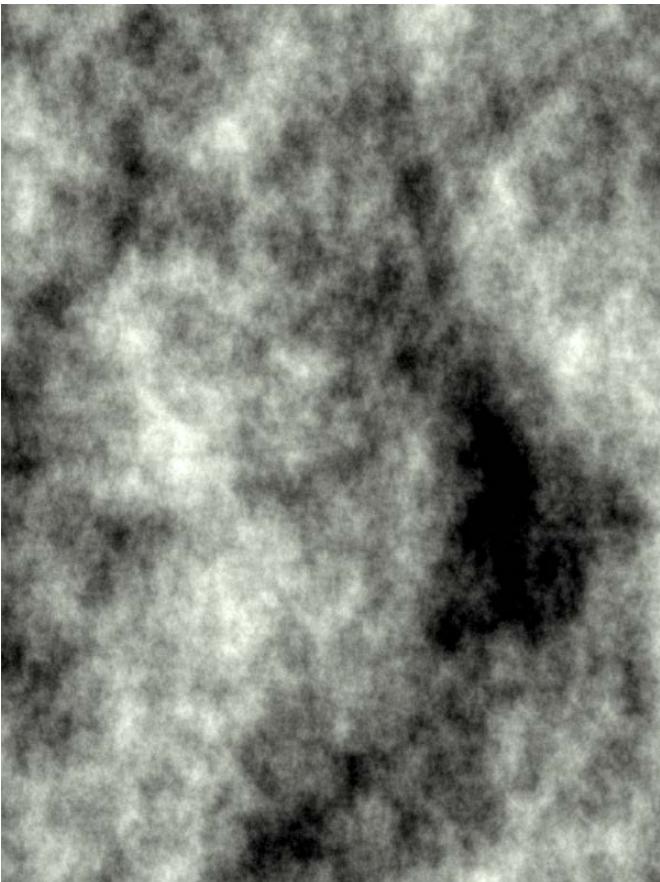
Design Generation

Cloud

Go to **CarpeTools>>Create>>Irregular>>Cloud**



Move slider to generate variations



www.galaincha.com.np

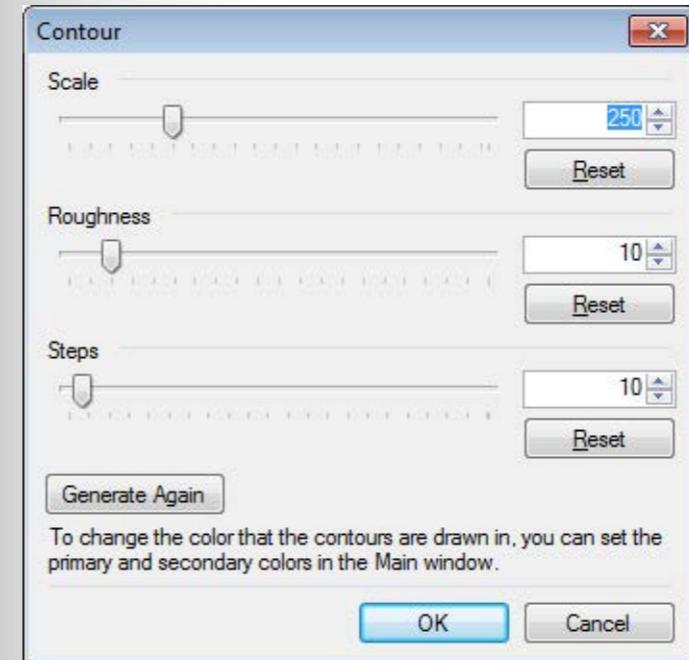
support@galaincha.com.np

Using Galaincha

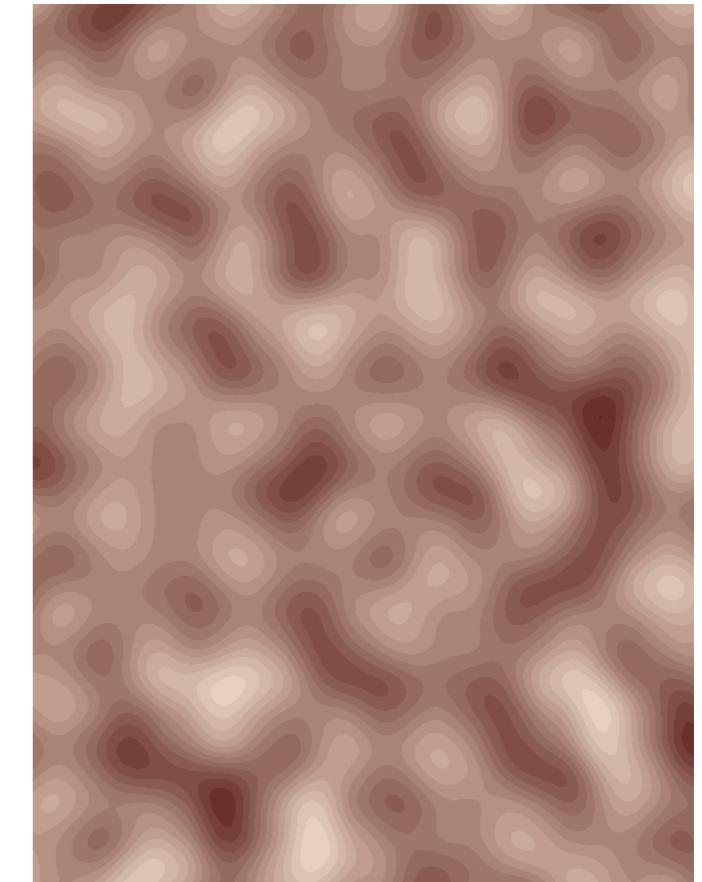
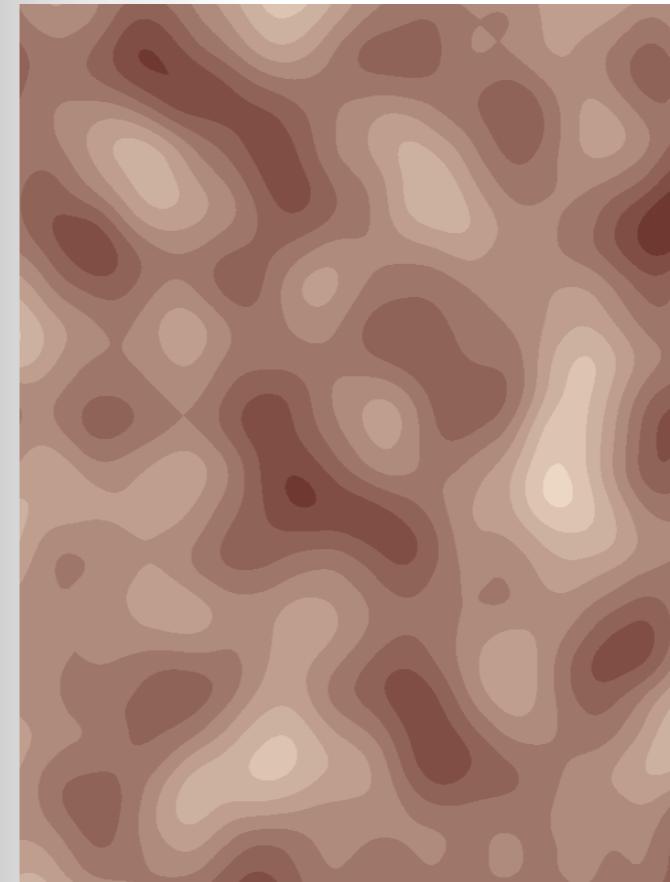
Design Generation

Contour

Go to **CarpeTools>>Create>>Irregular>>Contour**



Move slider to generate variations

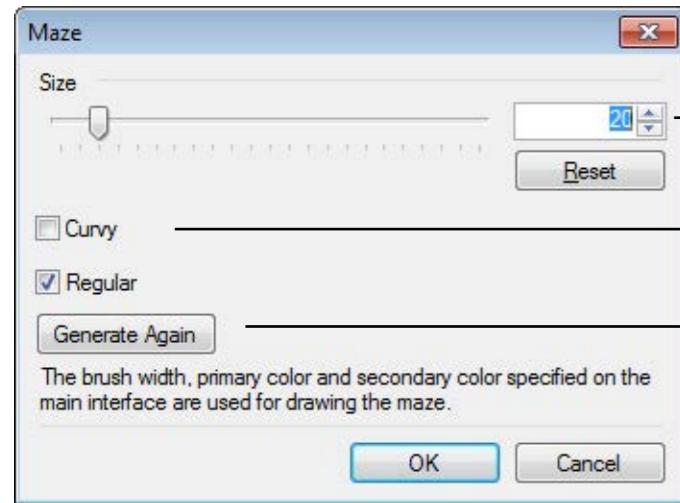


Using Galaincha

Design Generation

Maze

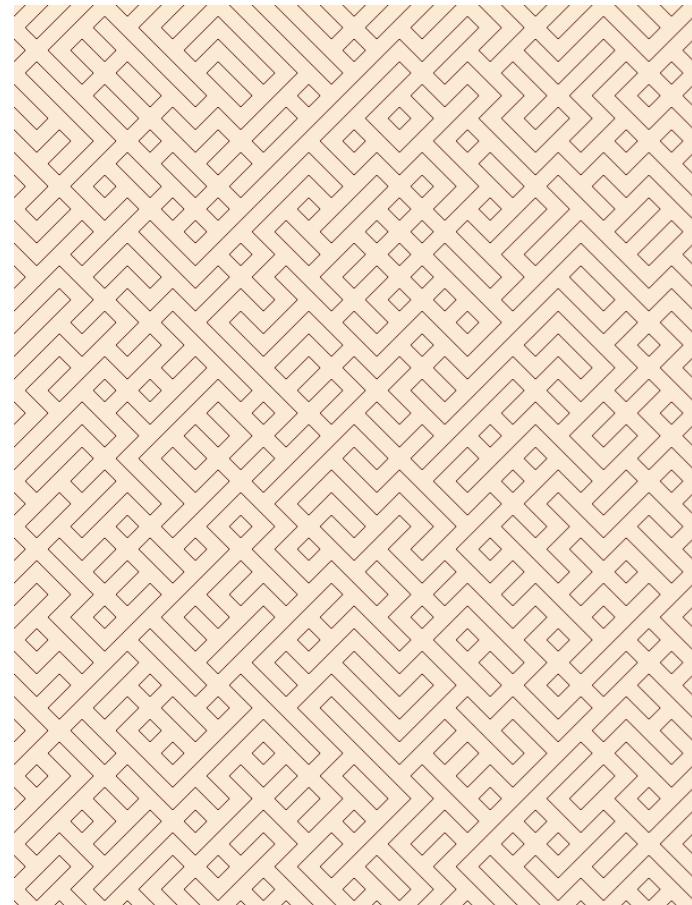
Go to **CarpeTools>>Create>>Irregular>>Maze**



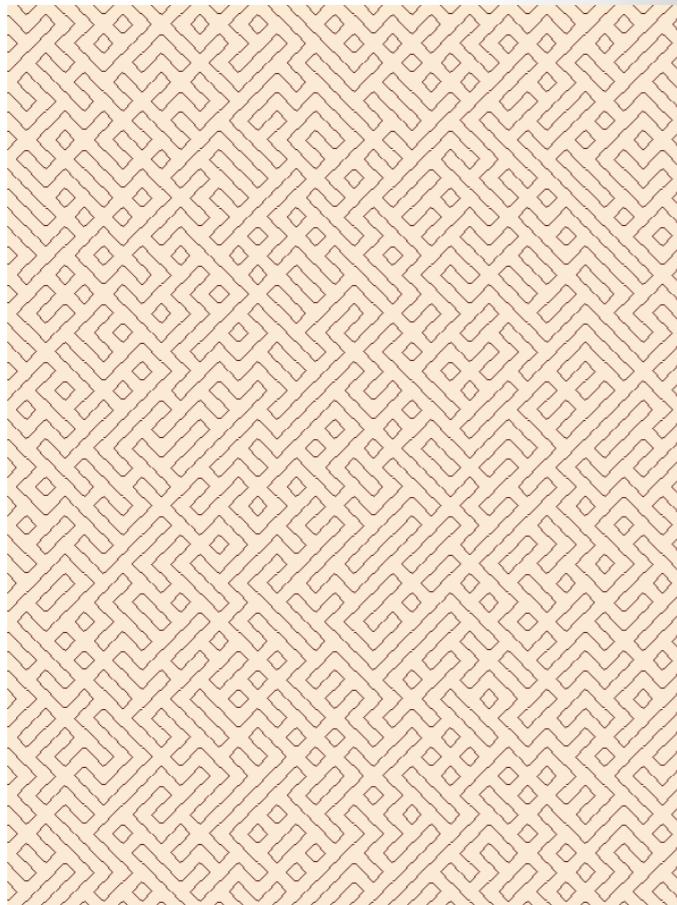
Choose the size for the Maze design.

Choose the 'Curvy' option, to have curved maze

By clicking on Generate Again, you can find different variation of the designs.



Design after maze effect



Design after maze effect with Curvy option

Using Galaincha

Design Generation

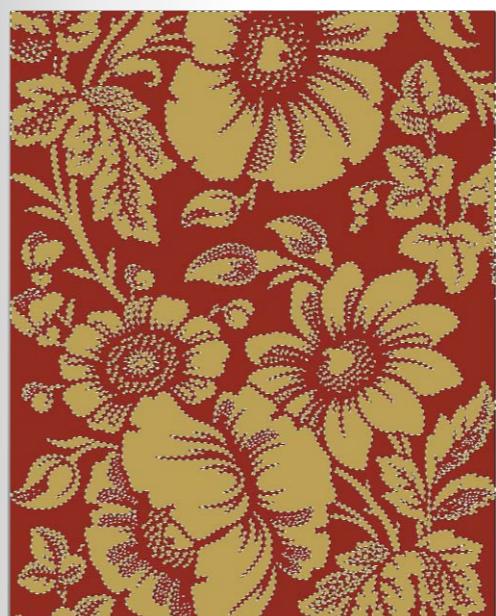
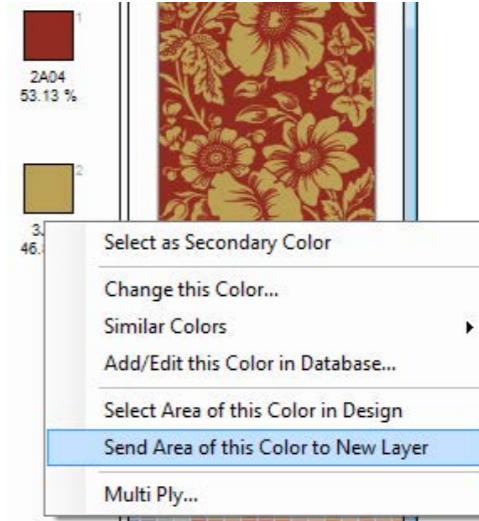
Motif with Gradient Effect

Open a Design

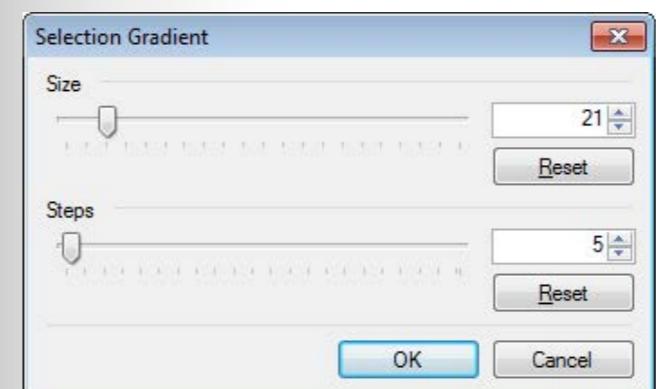
Select primary and secondary color.

Right click on the color used for the motif.

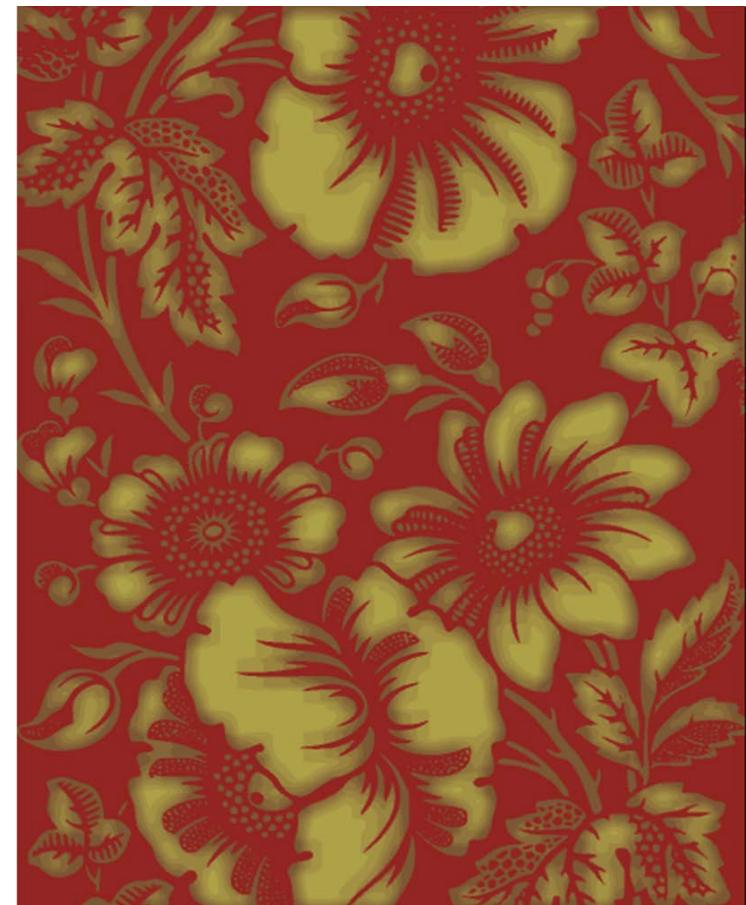
Select the option Send Area of this Color to New Layer.



Choose the Selection Gradient
CarpeTools>> Create>> Irregular >> Selection Gradient



Move slider to generate variations



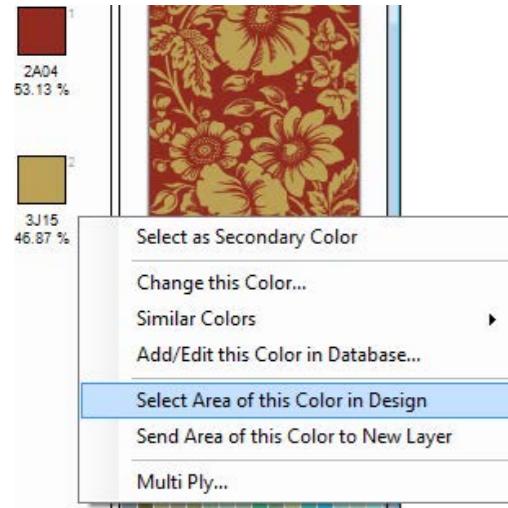
Motif with Gradient Effect

Motif with Contour Effect

Open a Design

Right click on the color used for motif.

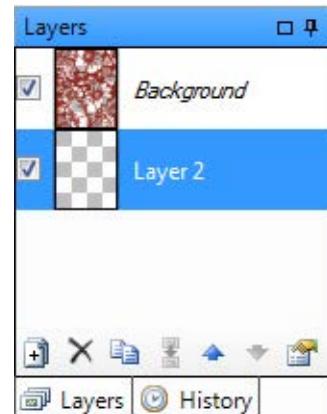
Select the option Select Area of this Color in Design.



Replace the selected motif with transparent color or delete it.

Create a new layer.

Move the new layer below the background.

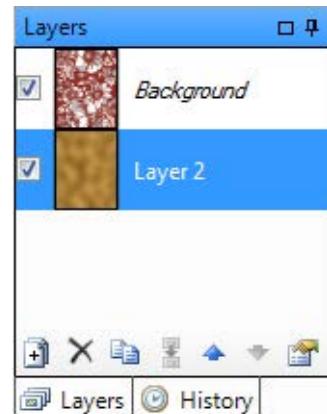


Select primary and secondary color

Choose the Contour effect.

Go to CarpeTools >> Create >> Irregular >> Contour.

Try the different variations offered by Contour.



Layer 2 with
Contour Effect

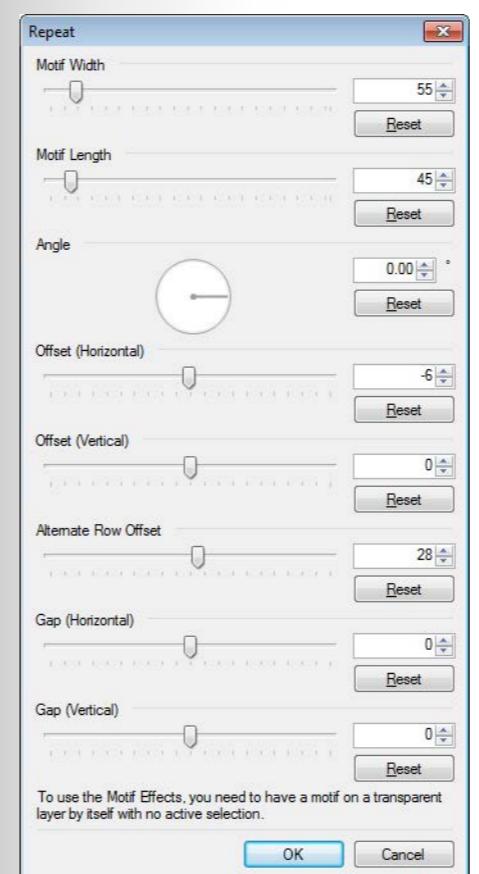
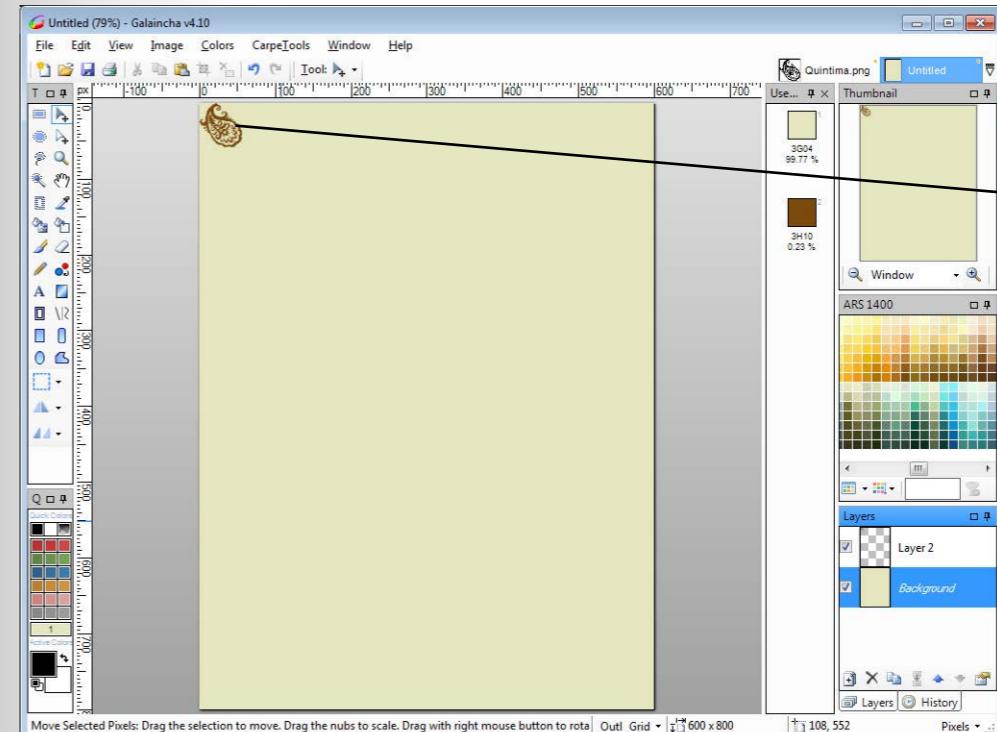


Motif with Contour Effect

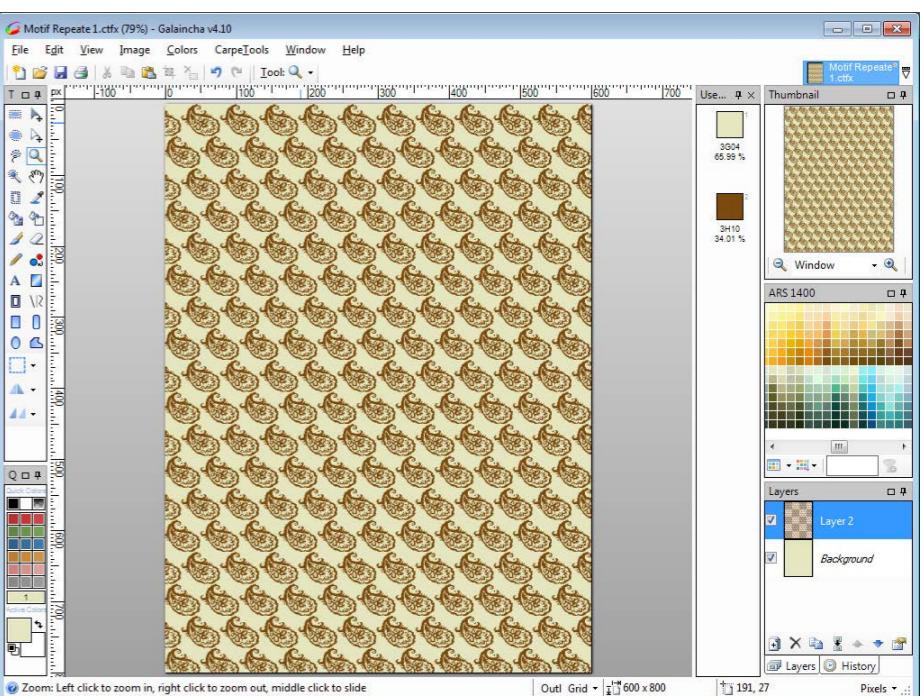
Motif Repeat

First select the layer of Motif.

Go to CarpeTools >> Create >> Motif Effects >> Repeat



Move slider to generate variations



Motif Rotate

This tool is used to rotate motif of the design

Go to **CapeTools>>Create>>Motif Effects>>Rotate**



Set the angle of rotation or move the angle.

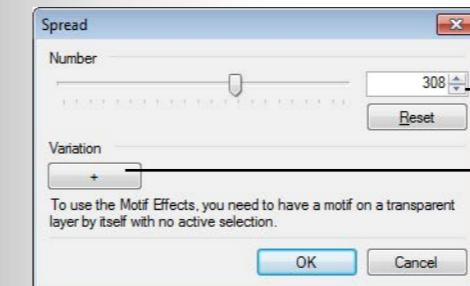


To use this tool the motif should be on a transparent layer by itself.

Motif Spread

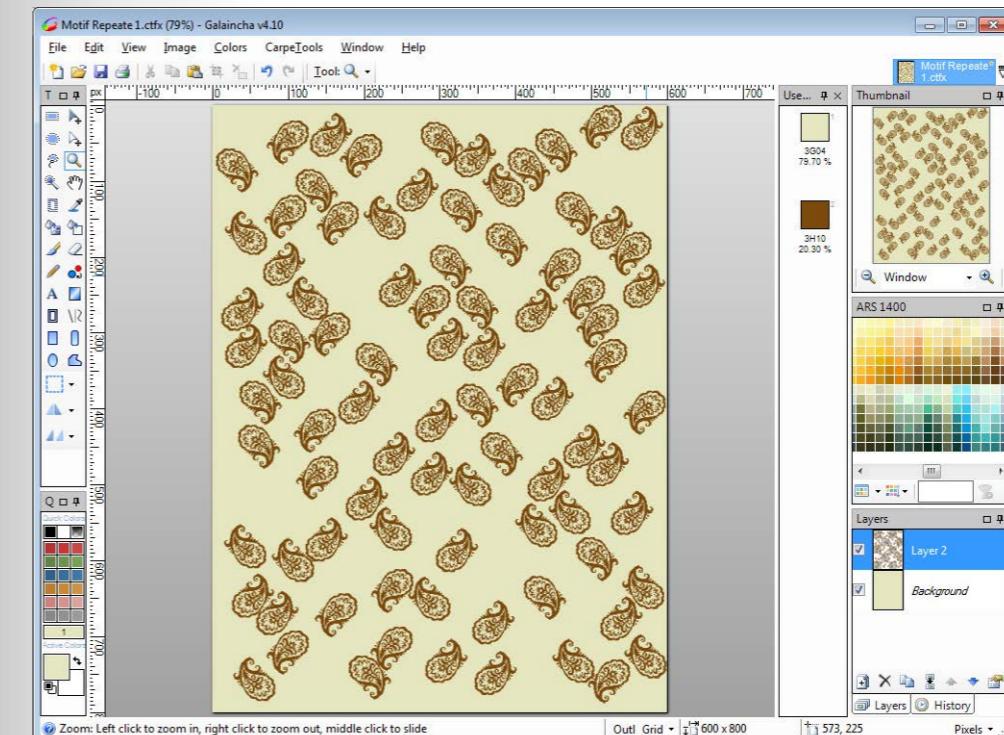
This tool is used to spread motif on whole canvas.

Go to **CapeTools>>Create>>Motif Effects>>Spread**



Set the number of motifs.

Click on **Variation** to generate different variations of spread.



To use this tool the motif should be on a transparent layer by itself.

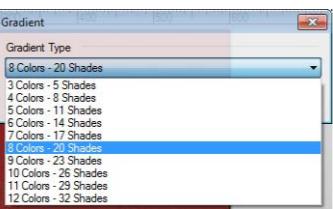
Using Galaincha

Design Generation

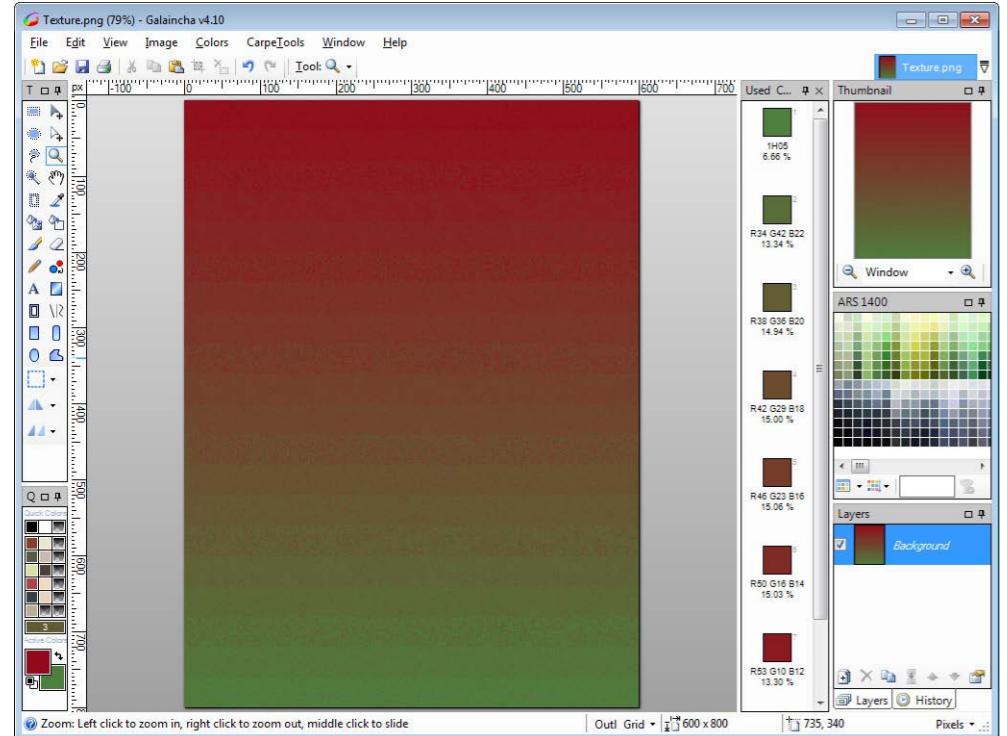
Generate Gradient

Create a new file (with your desired size and quality).
Select Primary and Secondary Color.

Go to **CarpeTools>>Create>>Textures>>Gradient**



Different gradient options to select



Visualization of Gradient effect

www.galaincha.com.np

support@galaincha.com.np

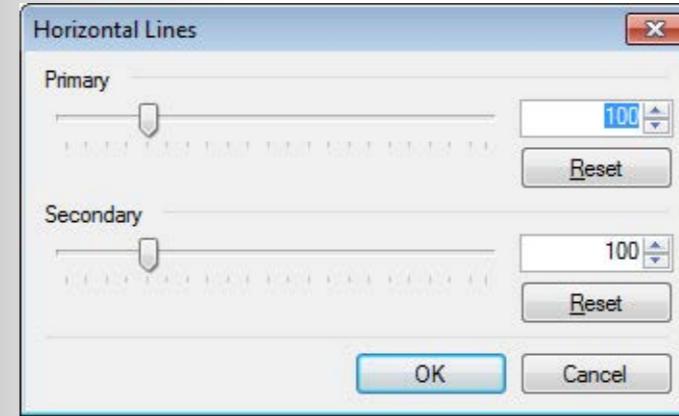
Using Galaincha

Design Generation

Horizontal Lines

Create a new file (with your desired size and quality).
Select Primary and Secondary Color.

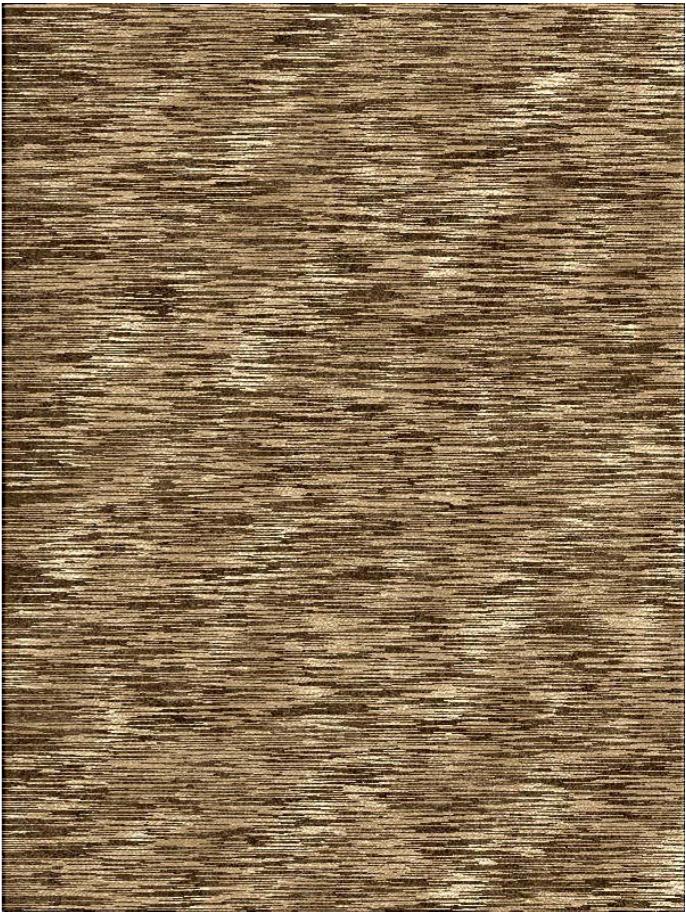
Go to **CarpeTools>>Create>>Textures>>Horizontal Lines**



Slide the bars to change density of the lines



Horizontal lines Design



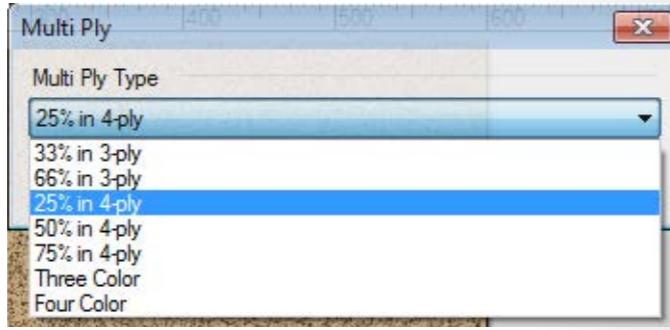
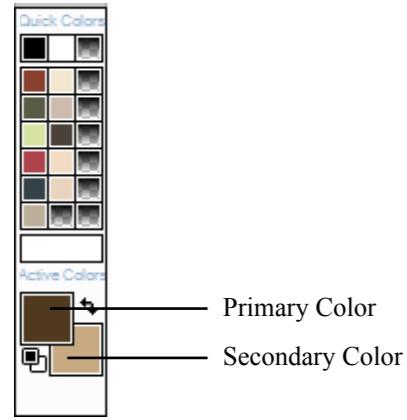
Visualization of Horizontal lines

Multi Ply

Create a new file (with your desired size and quality).

Select Primary and Secondary Color

Go to **Carpe Tools>>Create>>Textures>>Multi Ply**



Multi Ply: Plain view



Multi Ply: Visualization

These effects can be applied as the background of designs



Gradient Background



Horizontal Lines Background



Multi Ply Background

Using Galaincha

Design Generation

Generate Carpet Elements

This option can generate large number of variations of Center Motif from a design.

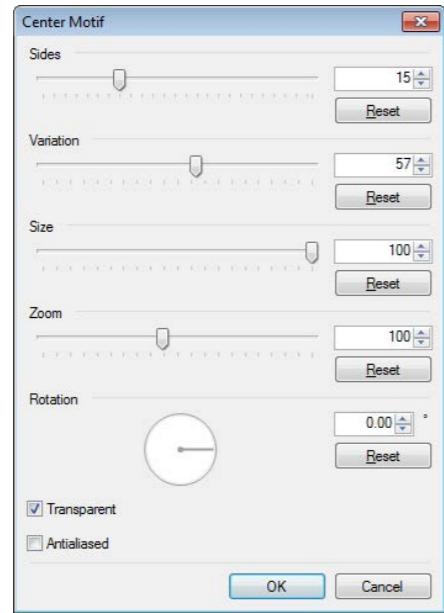
Center Motif

Open a Design

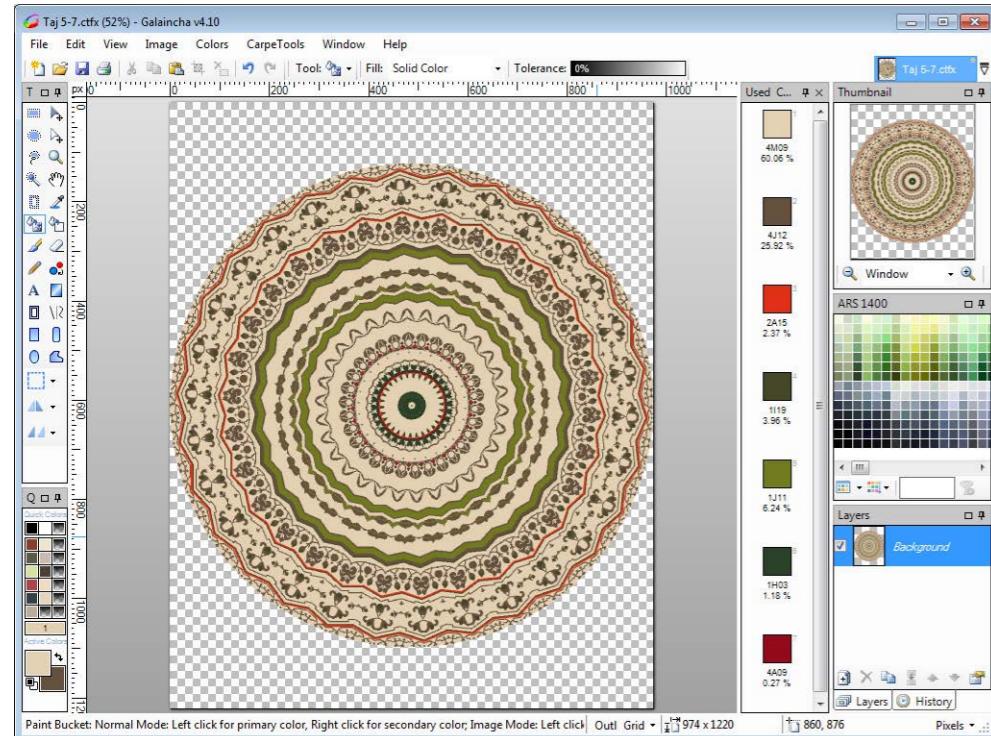
Go to **CarpeTools>>Modify>>Generate Carpet Elements>>Center Motif**



Original Design



You can change the value of Slides, Variation, Size and Zoom to get different variations.



Center Motif Design

www.galaincha.com.np

support@galaincha.com.np

Using Galaincha

Design Generation

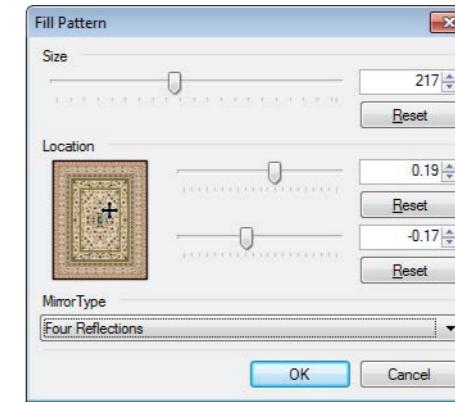
Fill Pattern

Open a Design

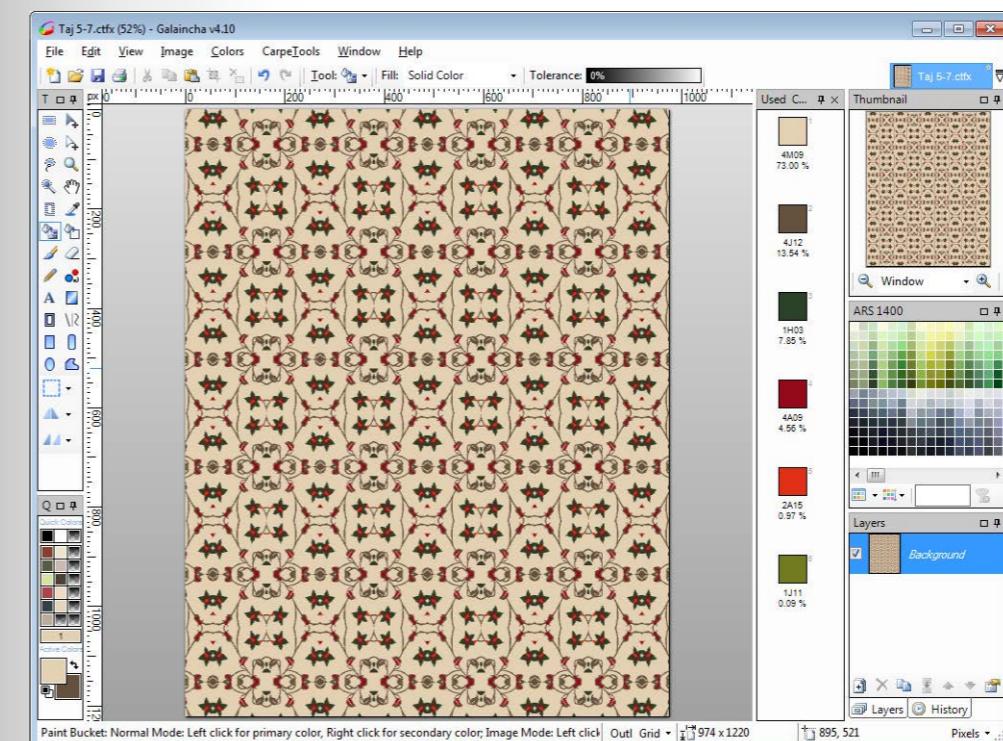
Go to **CarpeTools>>Modify>>Generate Carpet Elements>>Fill Pattern**



Original Design



Move sliders to generate variations

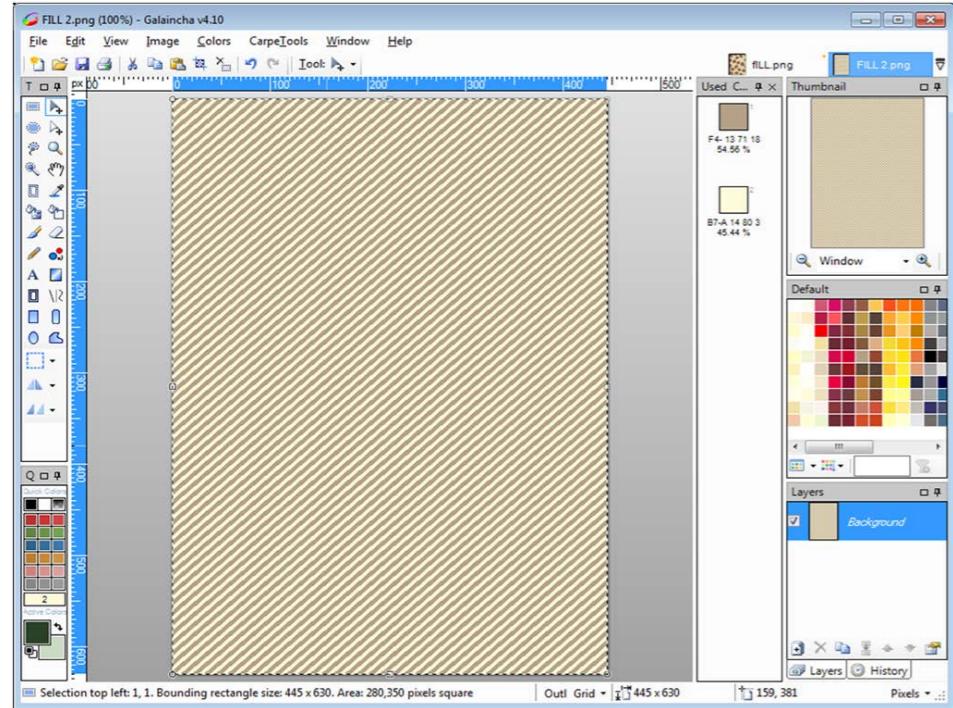


Fill Pattern Design from the original design
You can generate various design using this tool.

Other Options for Paint Bucket Tool

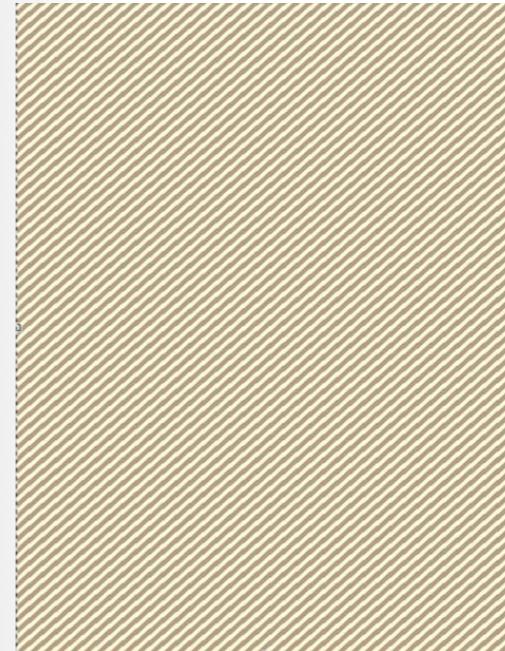
Open a design with pattern

Press **Ctrl+A** to select entire canvas and then press **Ctrl+C** to copy the pattern



www.galaincha.com.np

support@galaincha.com.np



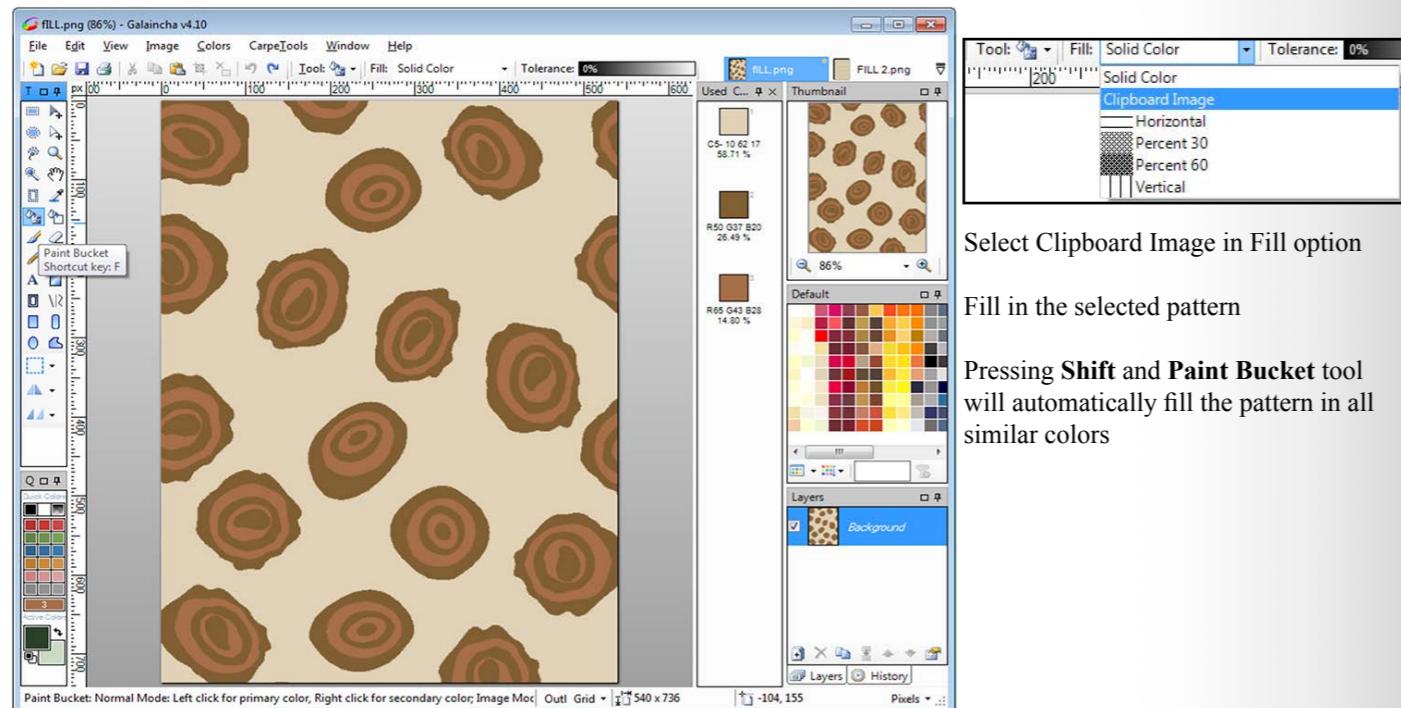
Selected pattern for the design



Selected pattern filled in same color of the design

Open another design to give the effect

Click **Paint Bucket** tool



Select Clipboard Image in Fill option

Fill in the selected pattern

Pressing **Shift** and **Paint Bucket** tool will automatically fill the pattern in all similar colors

Using Galaincha

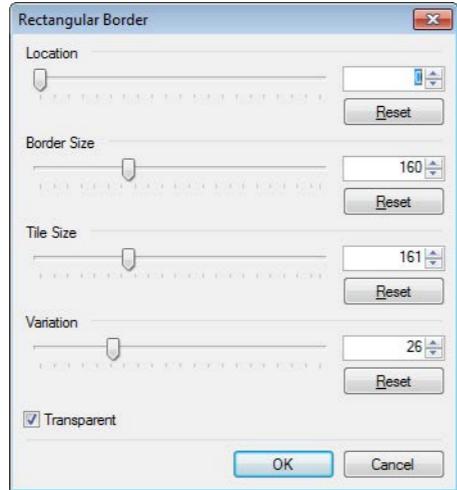
Design Generation

Rectangular Border

This tool generates border from any design.

Open a Design.

Go to **CarpeTools>>Modify>>Generate Carpet Elements>>Rectangular Border**



Move slider to generate variations

www.galaincha.com.np

support@galaincha.com.np

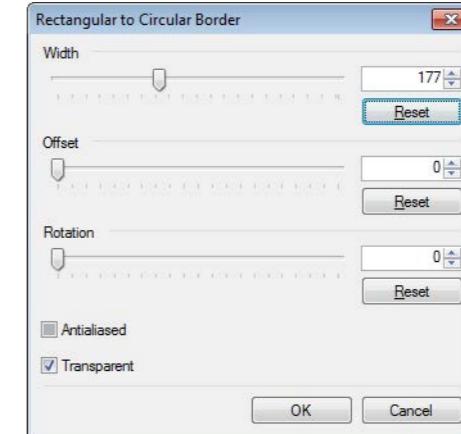
Using Galaincha

Design Generation

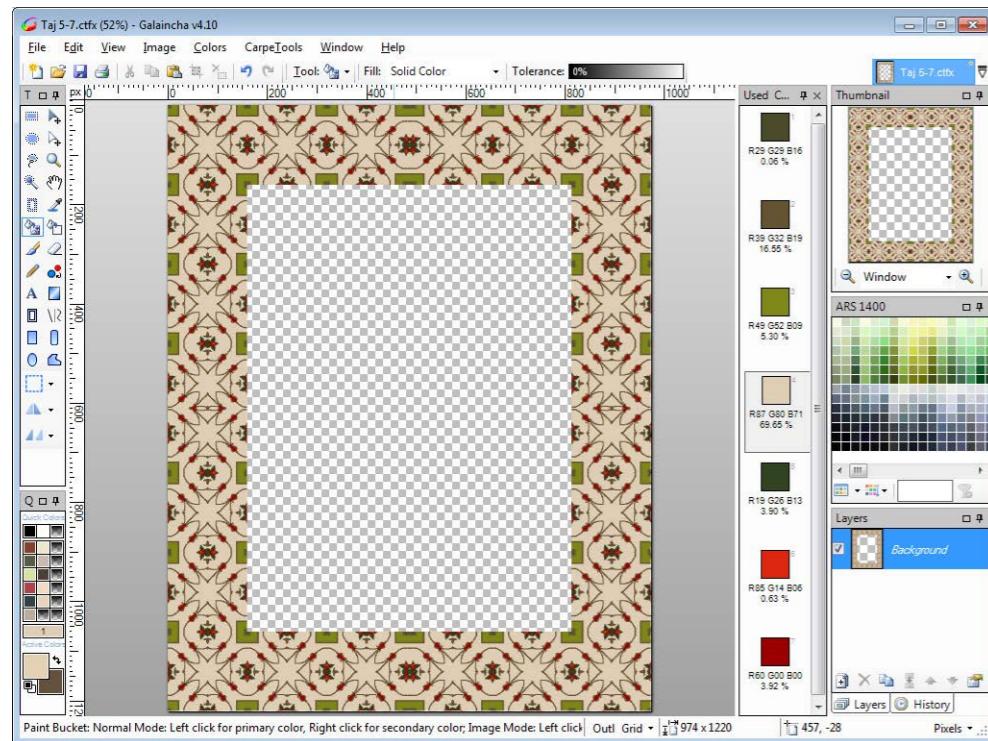
Rectangular to Circular Border

Open a Design.

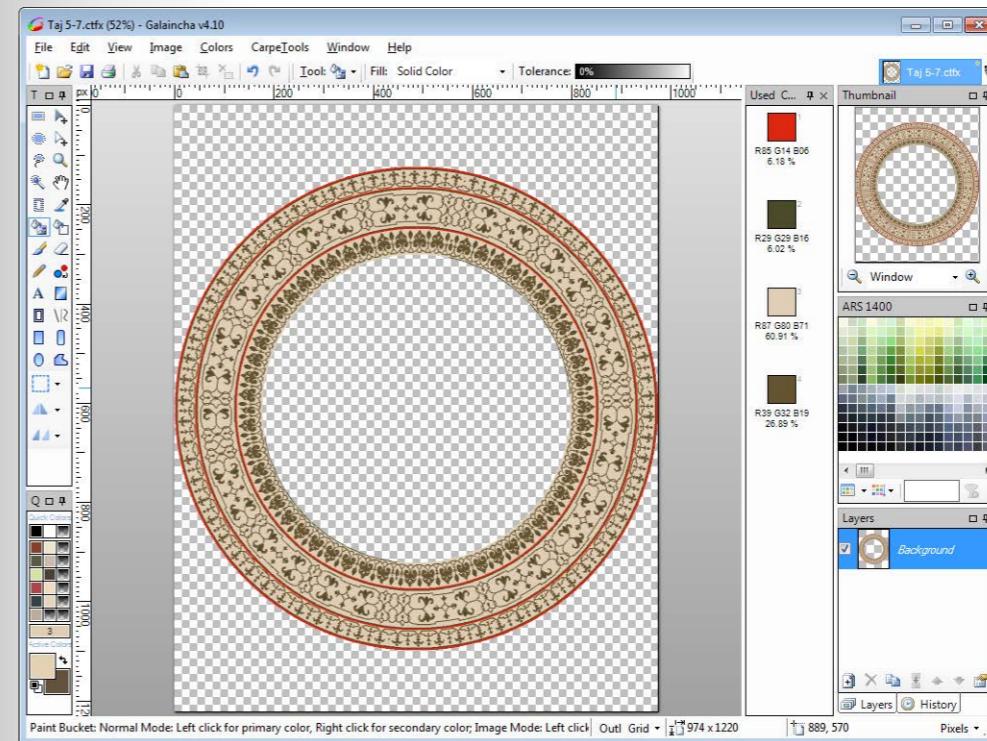
Go to **CarpeTools>>Modify>>Generate Carpet Elements>>Rectangular to Circular Border**



Move slider to generate variations



New Border design



Using Galaincha

Design Generation

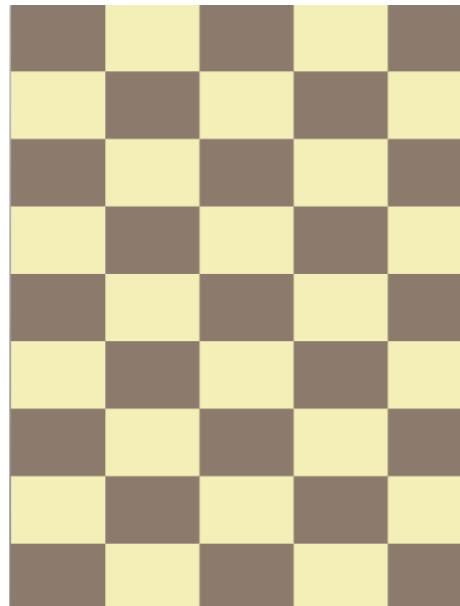
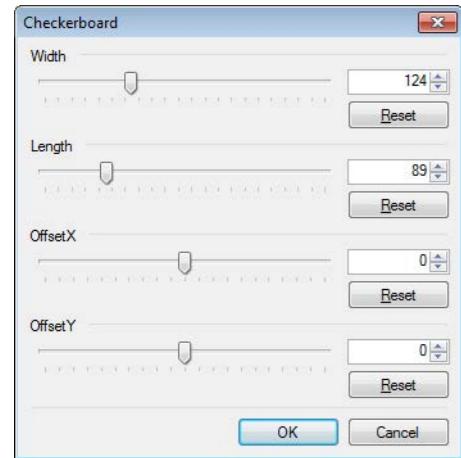
Interlace Design

Open a Design

Create a new layer.

Create larger boxes using Checker Board

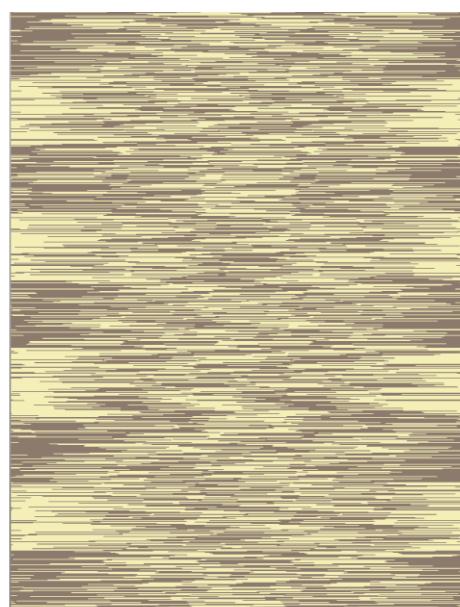
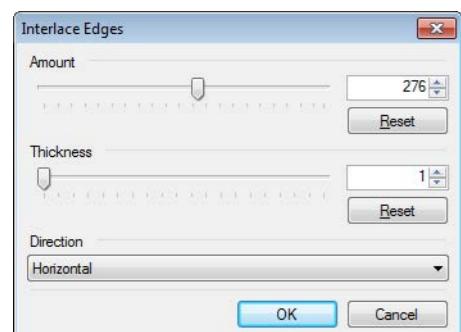
Go to **CarpeTools>> Create>> Geometric>> Checkerboard**



Apply the interlace effect.

CarpeTools>> Modify>> Interlace Edges

Try different variations offered by it.



www.galaincha.com.np

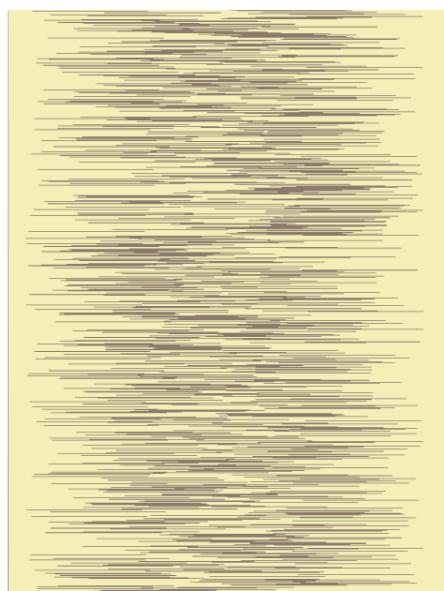
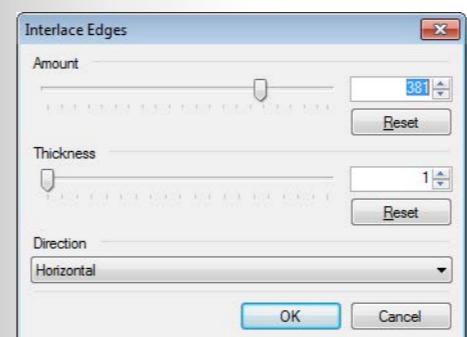
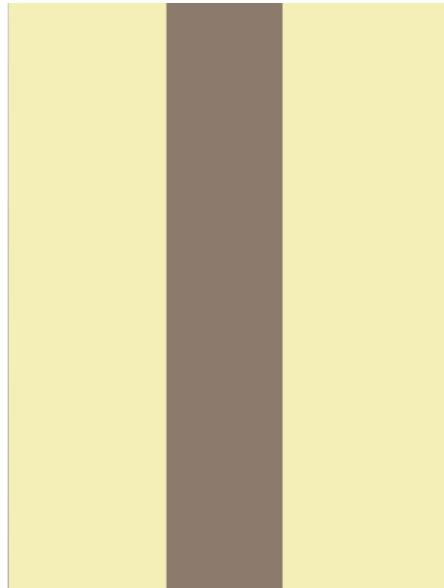
support@galaincha.com.np

Using Galaincha

Design Generation

Similarly, make vertical rectangle in new layer on top of the design.

Repeat the interlaceprocess on it.

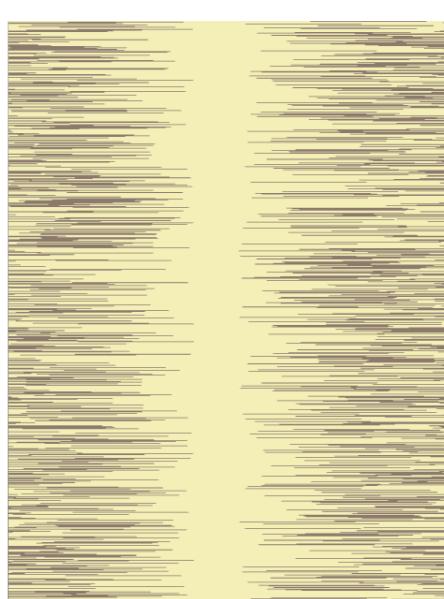
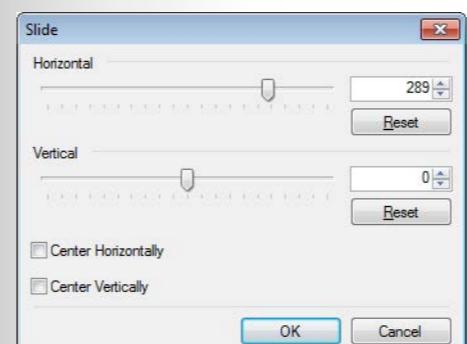


You can shift this layer horizontally.

Go to **CarpeTools>>Modify>>Slide**

Adjust the horizontal slide.

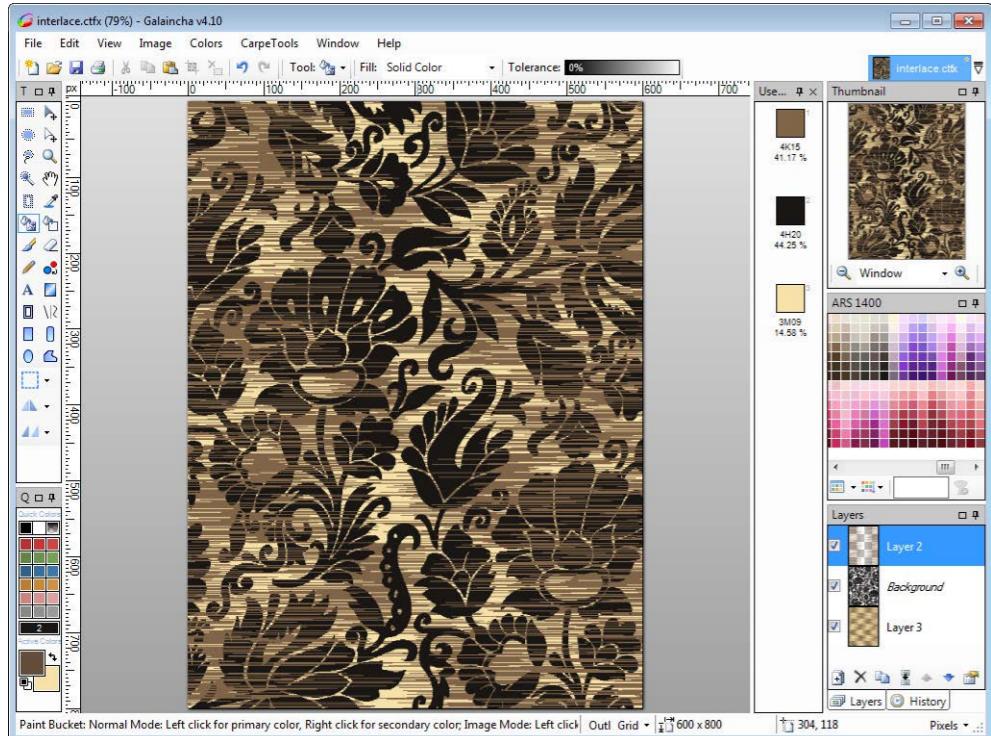
Make dark color transparent.



Using Galaincha

Design Generation

Interlace Design



Layers of the design



www.galaincha.com.np

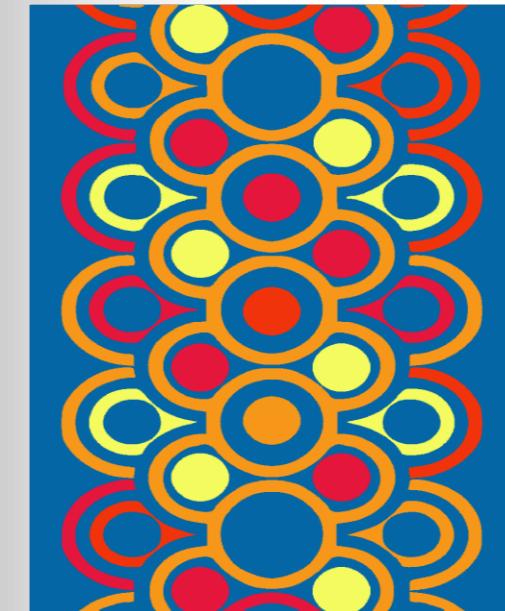
support@galaincha.com.np

Using Galaincha

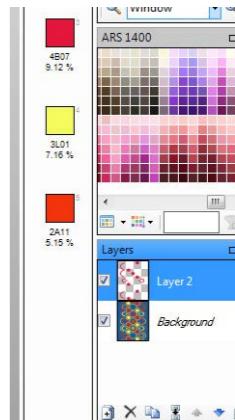
Design Generation

Design motif with interlace effect

This tool is also used to interlace the edges of the motif
Open a Design

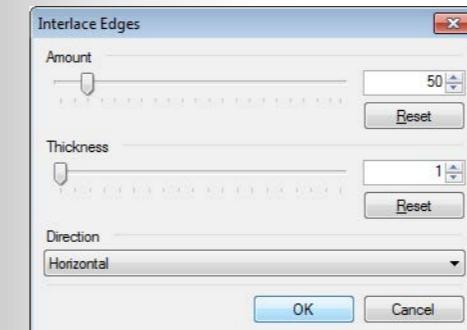


Right click on the used color
to send the selected color
into new layer



Select the layer
to apply the
interlace effect

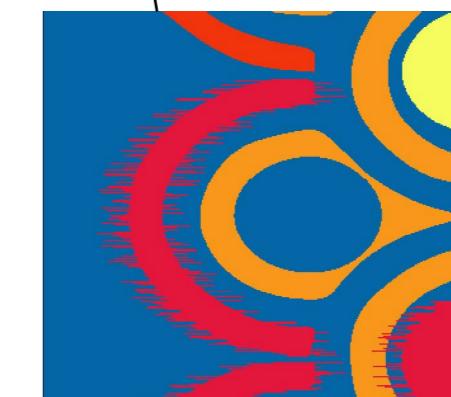
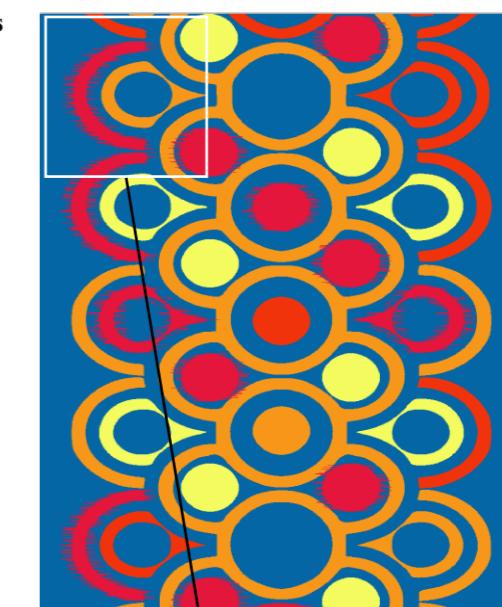
Go to CarpeTools>>Modify>>Interlace Edges



Move the sliders to control the effects



Normal Design



Design After Interlace Edges effect

Using Galaincha

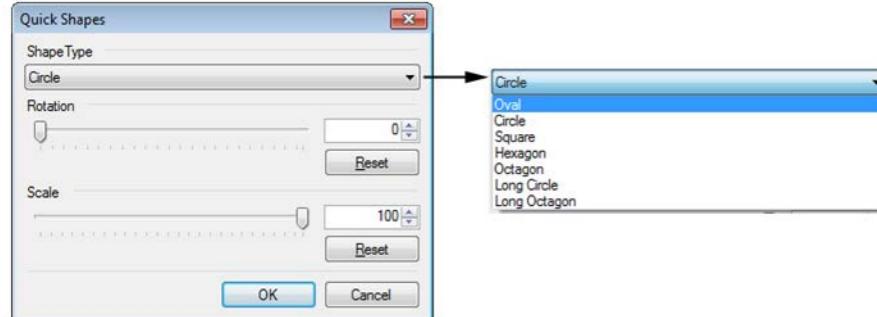
Design Generation

Quick Shapes

This tool is used to generate different geometric shapes of the design.

Go to **CarpeTools>>Modify>>Shapes**

You can select from a list of available shapes.



Circle



Octagon



Oval



Runner

www.galaincha.com.np

support@galaincha.com.np

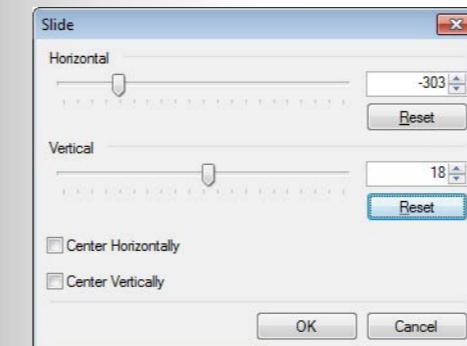
Using Galaincha

Design Generation

Slide

This tool is used to edit the placement of motif in the design by sliding horizontally and vertically.

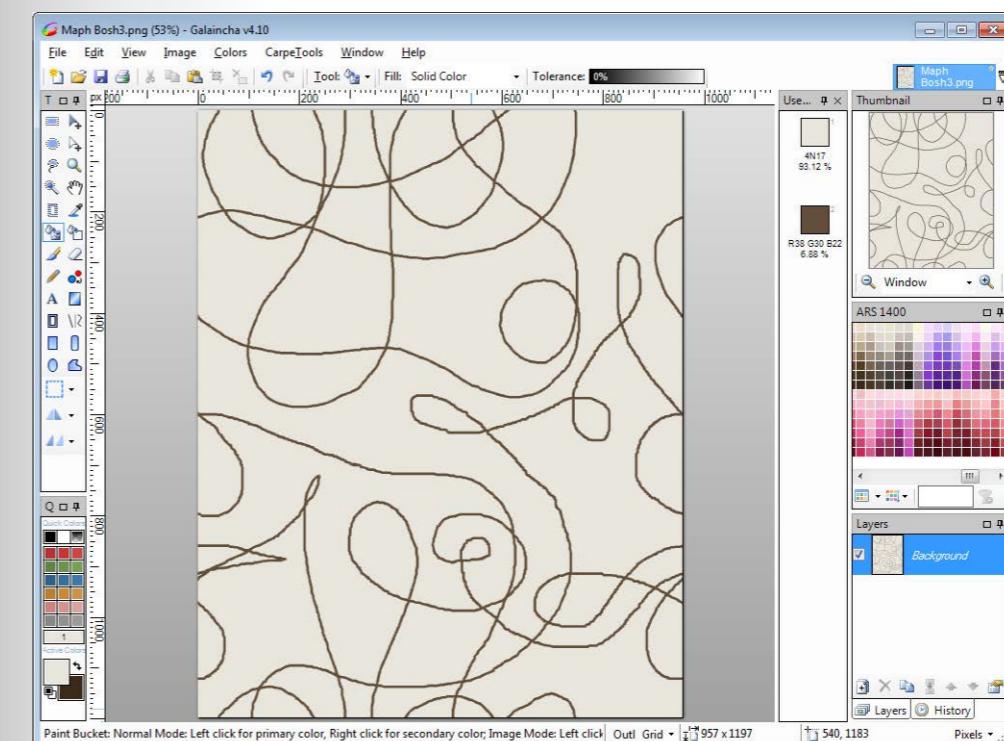
Go to **CarpeTools>>Modify>>Slide**.



Move the slider to move the motif in the design

Check Center Horizontally: locks horizontal movement and allows to move vertically only

Check Center Vertically: locks vertical movement and allows to move horizontally only

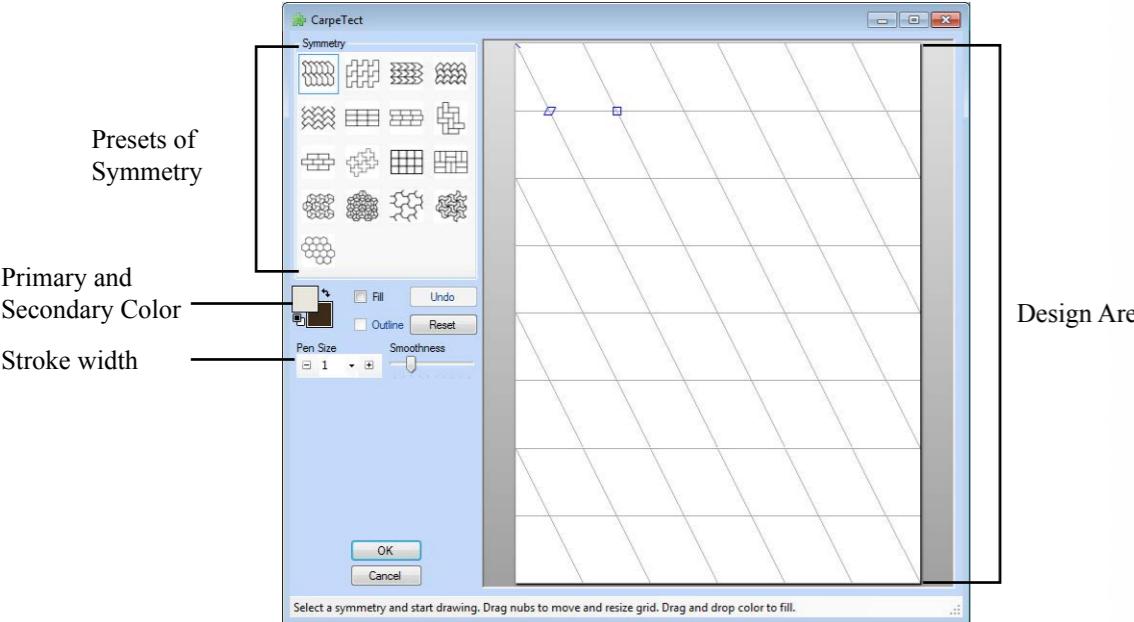


Using Galaincha

Design Generation

CarpeTect

Go to **CarpeTools>>Symmetry>>CarpeTect**



Design Area

www.galaincha.com.np

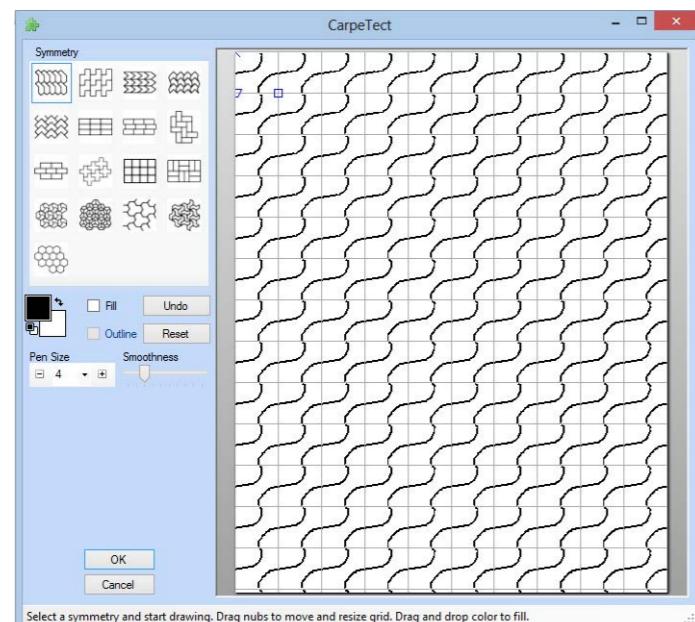
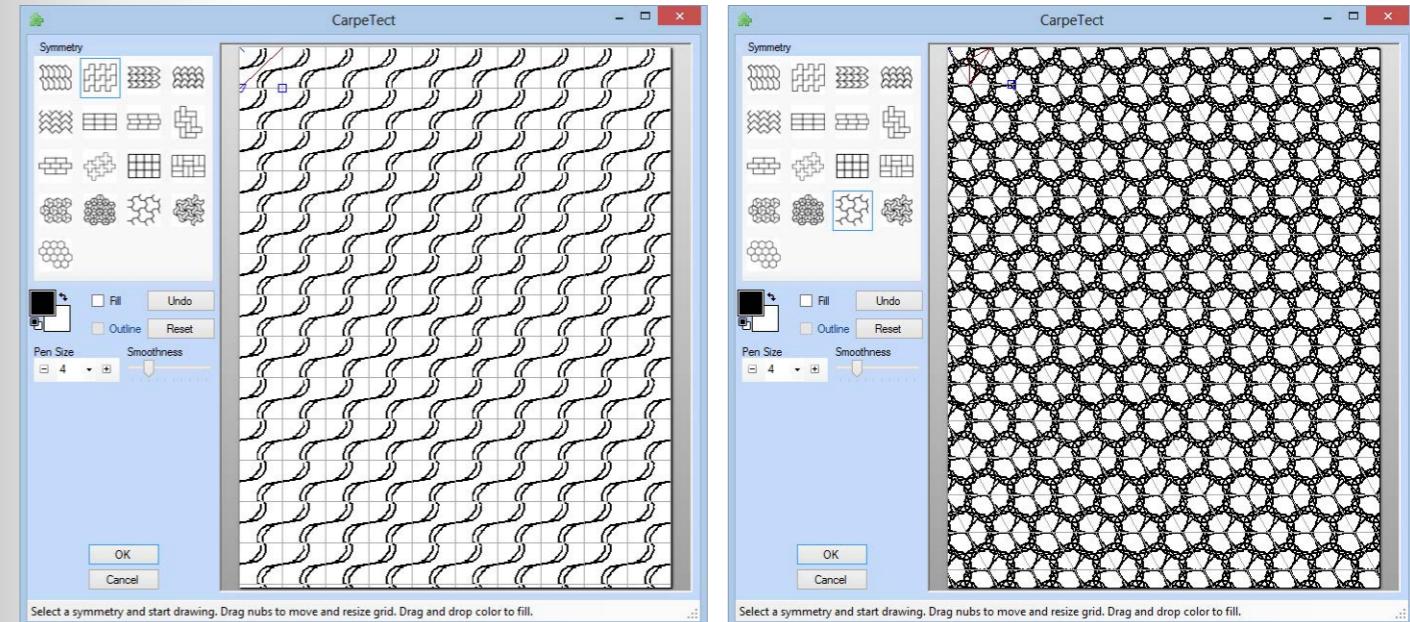
support@galaincha.com.np

Using Galaincha

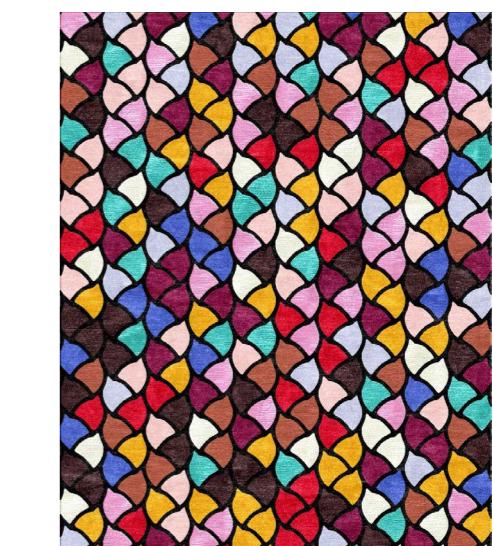
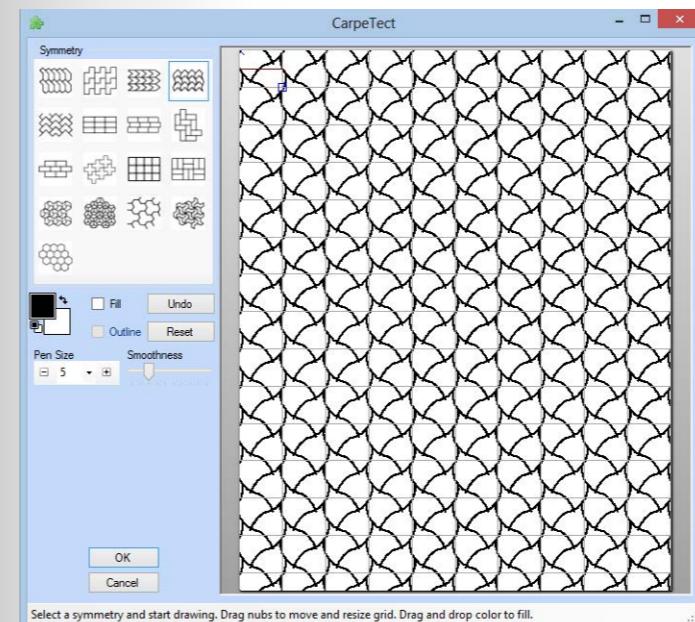
Design Generation

CarpeTect

Design generation form CarpeTect tool.



Pattern drawn in the design area automatically shows repeat.
Select different presets of repeat.



Visualization of the design generated from CarpeTect

Gradient Tool

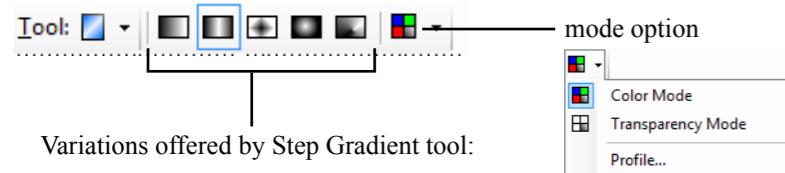
Select the Gradient tool from the toolbox.

Drag a nub to adjust the gradient.

Press **Enter** key to finish and **Esc** to undo.

The starting point (where the mouse is pressed) and ending point (where the mouse is released) affect the gradient appearance.

Upon right click and using the gradient tool again, this appearance is reversed.

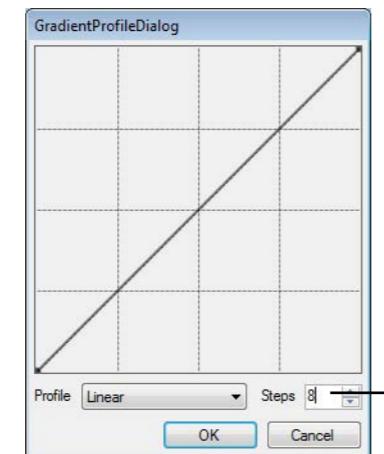


Defining steps in the Gradient Tool

Click on mode option.

Click on Profile.

Enter the number of steps for gradient.

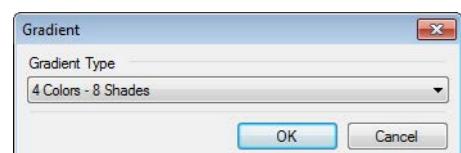


Implementing Gradient Texture

Select primary and secondary color.

Create a gradient texture for the background.

Go to **CarpeTools>>Create >>Texture >> Gradient**



Try the different options of gradient.



* Texture created by the gradient cannot be obtained in graph as it is not a solid patch of color, hence, it is only for illustration.

Gradient With Patch

Create a new layer.

Select Gradient tool from the tool box.

Choose linear option.

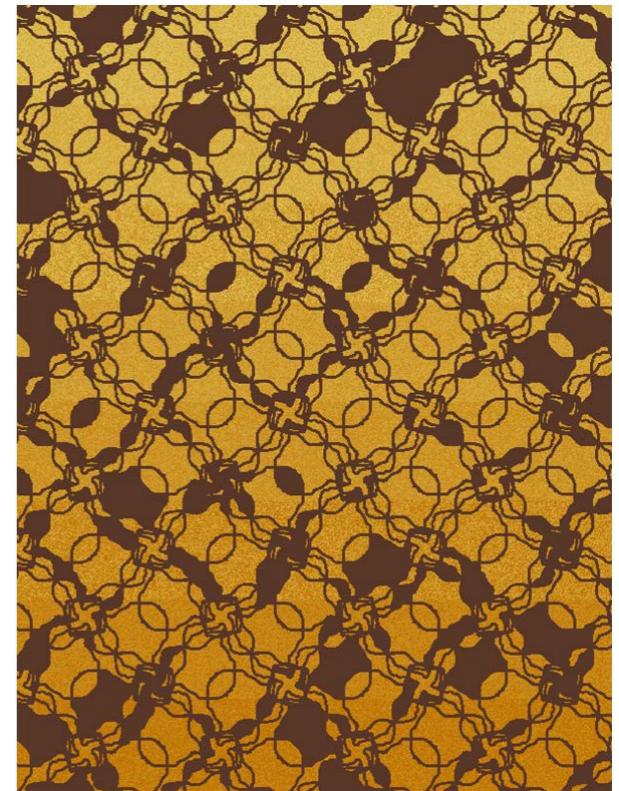
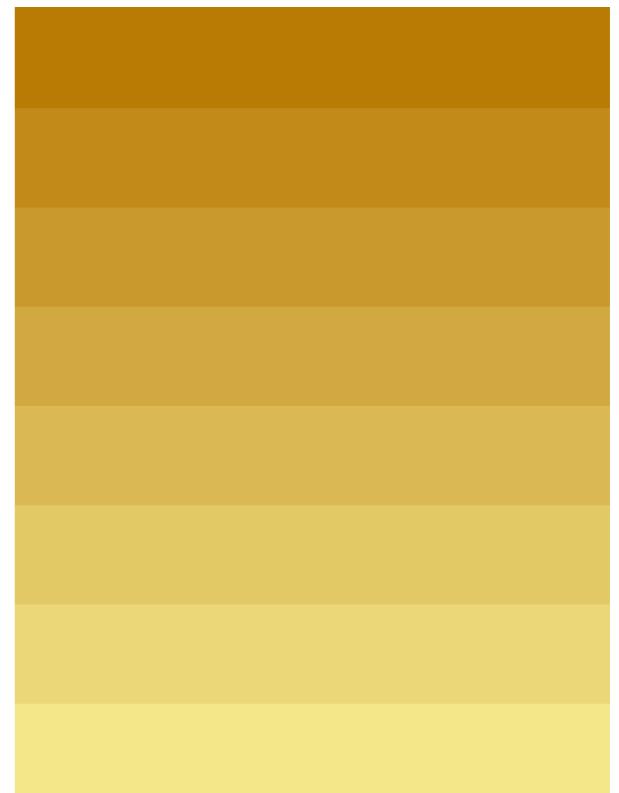
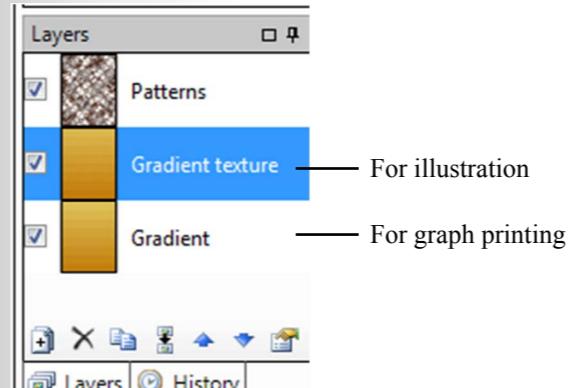
Define the gradient steps.

Managing layers

Place the layer with design on the top.

Place the Gradient texture in the middle.

Place the Gradient at the bottom layer.



Design with Linear Gradient Effect Background



Alternative Technology

Tafuaswan Marg, Khusibun, Nayabazar
GPO Box 5327, Kathmandu, Nepal
Tel: +977. 1.4387977 / 4389747
www.alternative.com.np
info@alternative.com.np

