

Cloud Grid Designer

<http://www.freese-works.com/griddesigner-cloud>

6/29/2025 – Cloud.32



CLOUD GRID DESIGNER	7
INTRODUCTION.....	7
GRID DESIGNER PROGRAMS	7
GRID DESIGNER OVERVIEW	8
<i>Sign-up and Login</i>	<i>13</i>
<i>Default Project.....</i>	<i>14</i>
<i>Supported Browsers.....</i>	<i>14</i>
<i>Working on a phone or tablet</i>	<i>15</i>
PROJECT MENU	15
<i>New Project.....</i>	<i>17</i>
Project Type	17
Enter Rows and Columns	18
Select Palette	19
<i>Changing the Palette</i>	<i>21</i>
Example.....	24
<i>Create Project from Image</i>	<i>27</i>
Tips for Working with Images	39
<i>Saving your Project</i>	<i>41</i>
Save As	42
<i>Sharing your Project</i>	<i>43</i>
<i>Opening a Project</i>	<i>46</i>
<i>Closing a Project</i>	<i>47</i>
<i>Download your project</i>	<i>47</i>
<i>Print your project image</i>	<i>53</i>
Example.....	56
<i>View Project Information.....</i>	<i>57</i>
Example.....	58
<i>Export and Import.....</i>	<i>60</i>

Backup and Restore Projects	61
EDITING.....	64
<i>Mode Buttons</i>	64
<i>Drawing Tools</i>	65
Pencil and Eraser.....	66
Example	66
Fill Tools	69
Example	72
Outline Area Tool	80
Line Tool.....	82
Draw and Erase Symbols.....	84
Shape Tool.....	86
Text Tool.....	89
<i>Line Size</i>	91
<i>Add/Delete Rows or Columns Tool</i>	92
<i>Selection</i>	94
Selection Tool.....	94
Selection Operations.....	97
Cut	97
Copy.....	97
Substitute colors in selection	98
Clear and Crop Options	98
<i>Paste</i>	99
Paste Tools	100
Toggle Background	101
Make Larger.....	102
Make Smaller.....	102
Rotate	102
Custom Change	103

Flip Vertical/Horizontal	104
Invert Colors	105
Fill Entire Grid	105
Fill Area	106
Stamp	106
Example	106
Reload Paste Item	113
Apply	114
<i>Clear All</i>	114
<i>Loading a pattern from the library</i>	114
<i>Undo/Redo</i>	123
WORKING WITH COLORS	124
<i>Edit Palette</i>	124
<i>Palette Groups</i>	132
<i>Substitute Colors</i>	135
<i>Color Dropper</i>	138
DISPLAY MENU	138
<i>Show Floating Palette</i>	139
<i>Show/Hide Grid Lines</i>	140
<i>Show/Hide Mouse Position</i>	141
<i>Show/Hide Numbering</i>	142
<i>Crosshairs</i>	142
<i>Texture ...</i>	144
<i>More Options...</i>	145
Numbering Options	146
Cell Appearance (printing/ download only)	147
<i>Changing Cell Size/Type</i>	148
<i>Changing Grid Size</i>	149
<i>Rule Lines</i>	154

<i>Rotate Project Grid</i>	155
<i>Refresh Display</i>	155
<i>Move Options</i>	155
ZOOM	156
<i>Zoom In/Out</i>	156
<i>Zoom to Show All</i>	156
Example.....	157
KEYBOARD SHORTCUTS.....	160
<i>Moving Grid and Paste Item</i>	160
<i>Zooming</i>	160
<i>Project Menu</i>	160
<i>Display Menu</i>	161
<i>Top Toolbar Options</i>	161
<i>Bottom Toolbar Options</i>	161
<i>Miscellaneous</i>	161
HELP MENU	161
<i>Documentation (HTML)</i>	161
<i>Documentation (PDF)</i>	162
<i>How To Articles</i>	162
<i>YouTube Video Tutorials</i>	162
<i>Facebook Page</i>	162
<i>Blog Home</i>	162
<i>Yarn Calculator</i>	162
<i>Ratio Calculator</i>	163
<i>Enable Hints</i>	163
<i>Reload</i>	163
<i>About</i>	163

Cloud Grid Designer



Introduction

The Grid Designer can be used to create and edit any colored grid-based craft design. Some of its uses include:

- Multi-color knitting
- Multi-color crochet, Graphghans
- Mosaic / Overlay Crochet
- Corner-to-corner (C2C) crochet
- Granny Square Crochet
- Latch Hook rug-making
- Diamond Painting
- Square or rectangular patch quilting
- Cross-stitch embroidery

Grid Designer Programs

There are two different Grid Designer programs and **they are both free to use**:

- **Cloud** Grid Designer– This program runs in your browser for free, but you must create a login with a valid email. In the Cloud version your projects/designs are stored in the cloud and you can log in from any device and work on your saved designs.

- **Legacy Grid Designer** – This program runs in your browser for free and requires no login, but your designs are saved in your local browser storage, on the device and in the browser you are using.

The following table shows the main differences between these two programs:

Feature	Cloud	Legacy
Storage	approximately 60MB of project data (6 x legacy)	Limited to browser local storage size, usually 5MB - 10MB
Login	Email required for login	No login
Editing access	Access your design from any browser on any device	Access your designs from the same device and same browser
Backup of designs	Export facility	Export facility
Basic Editing Features	Same in both cloud and legacy	Same in both cloud and legacy
New Features	New features will be added as time goes on	No new features will be added
URL	https://www.freese-works.com/griddesigner-cloud	https://www.freese-works.com/griddesigner-legacy

More information can be found on my blog at: <https://www.freese-works.com>. YouTube videos are also available on my YouTube channel at: [Grid Designer on YouTube](#).

The remainder of this document describes the features of the Cloud Grid Designer located at: <https://www.freese-works.com/griddesigner-cloud>.

If you are looking for documentation for the Legacy Grid Designer, it is located at: <https://www.freese-works.com/griddesigner-legacy/docs/GridDesignerDoc.htm>.

Grid Designer Overview

You may create a grid of up to 500 x 500 cells for each design. The cells of the grid can be either square or rectangular to correspond to whatever craft you are interested in. Multiple display options, such as numbering and mouse position, aid in working with your grid. [Zoom in and zoom out](#) are available as

well as a zoom-full-picture that will size the grid to just-fit the editing window so that the complete design is visible.

The [drawing tools](#) include a pencil and eraser, for free-hand drawing, as well as a line tool, shape tool, fill tools, outline area tool and text tool. Line size/width can be modified from 1 to 10 cells in width, to make drawing on larger grids easier. A Draw Symbols tool has just been added, which will be used to draw symbols relevant to each craft project type on the grid. Undo/Redo is unlimited for all drawing tools.

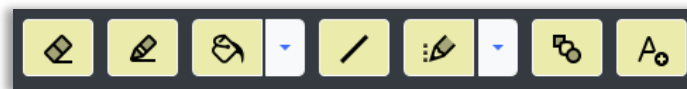


Figure 1: Drawing Tools

The Draw Symbols tools allows you to draw with the currently selected symbol from the Design Symbols dropdown menu. Symbols available will differ depending upon your project type. Here are the symbols for Mosaic / Overlay Crochet.

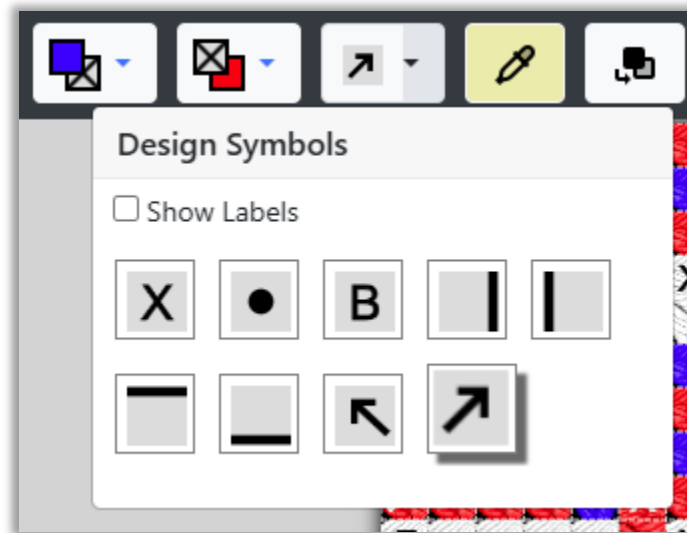


Figure 2: Design Symbols

The [shape tool](#) allows the creation of simple shapes such as rectangles, circles, triangles, hexagons, diamonds, hearts, stars etc. These shapes can be created as solid shapes of a single color, outlined shapes where only the outline is drawn, or filled shapes with an outline of one color and fill of another color.

Drawing tools use the selected foreground and background colors which are shown on the top toolbar. Foreground color is usually the color used to draw, while the background color is used to fill the grid initially and to erase with.

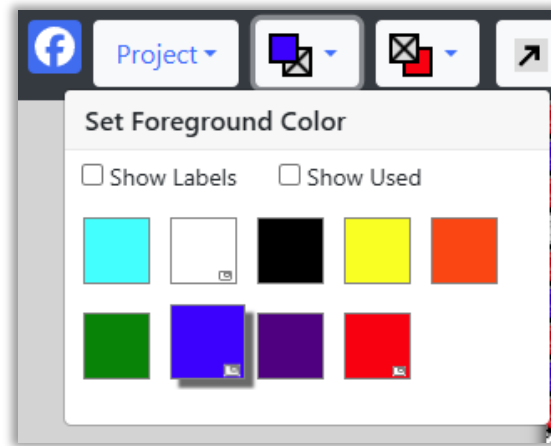


Figure 3: Color Selection

You may also open a Floating Palette from the Display > Show Floating Palette option. This places a moveable window containing the foreground, background color selections as well as Design Symbols. You may select foreground and background colors or a Design Symbol from the Floating Palette instead of using the dropdowns on the top toolbar.

Select colors from many pre-defined palettes or [add your own colors](#) to any palette. Pre-defined palettes include many commonly used yarns, rug yarn, embroidery floss, etc. One custom palette is also provided where you can add any colors you would like to work with. Palettes may also be combined into Groups.

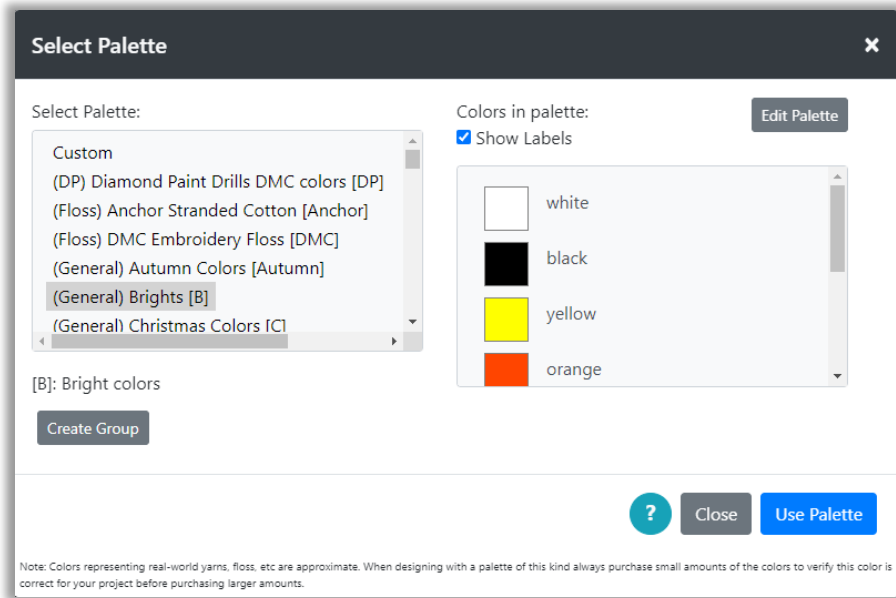


Figure 4: Palette Feature

Complete support for [selection](#), cut, copy, paste within the tool is provided. In addition, the paste contents can be modified with a series of [tools that allow](#) you to flip vertically and horizontally, invert colors, and rotate.

A [library](#) of small patterns that can be copied into your larger design is also available.

[Color substitution](#) is available, to aid in converting a design from one palette to another or just to switch one color for another in your open project.

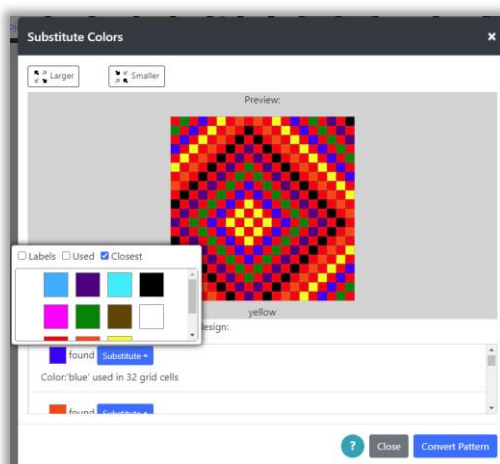


Figure 5: Ready to substitute

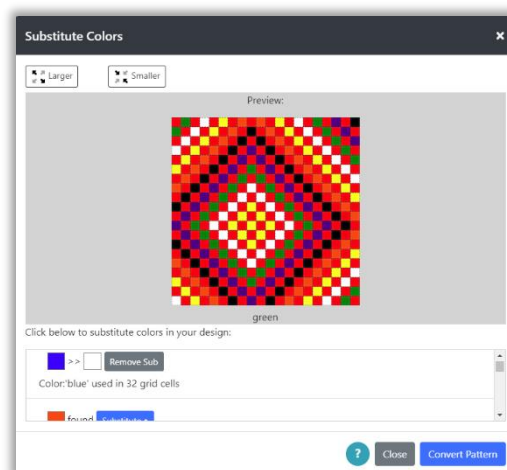


Figure 6: Substitute white for blue

Projects can be created from scratch, by selecting either the Project → New Project option or the Project → Create from Image option.

The Project → Create from Image option has a full digitizer to convert any image/photo to a digitized pattern.

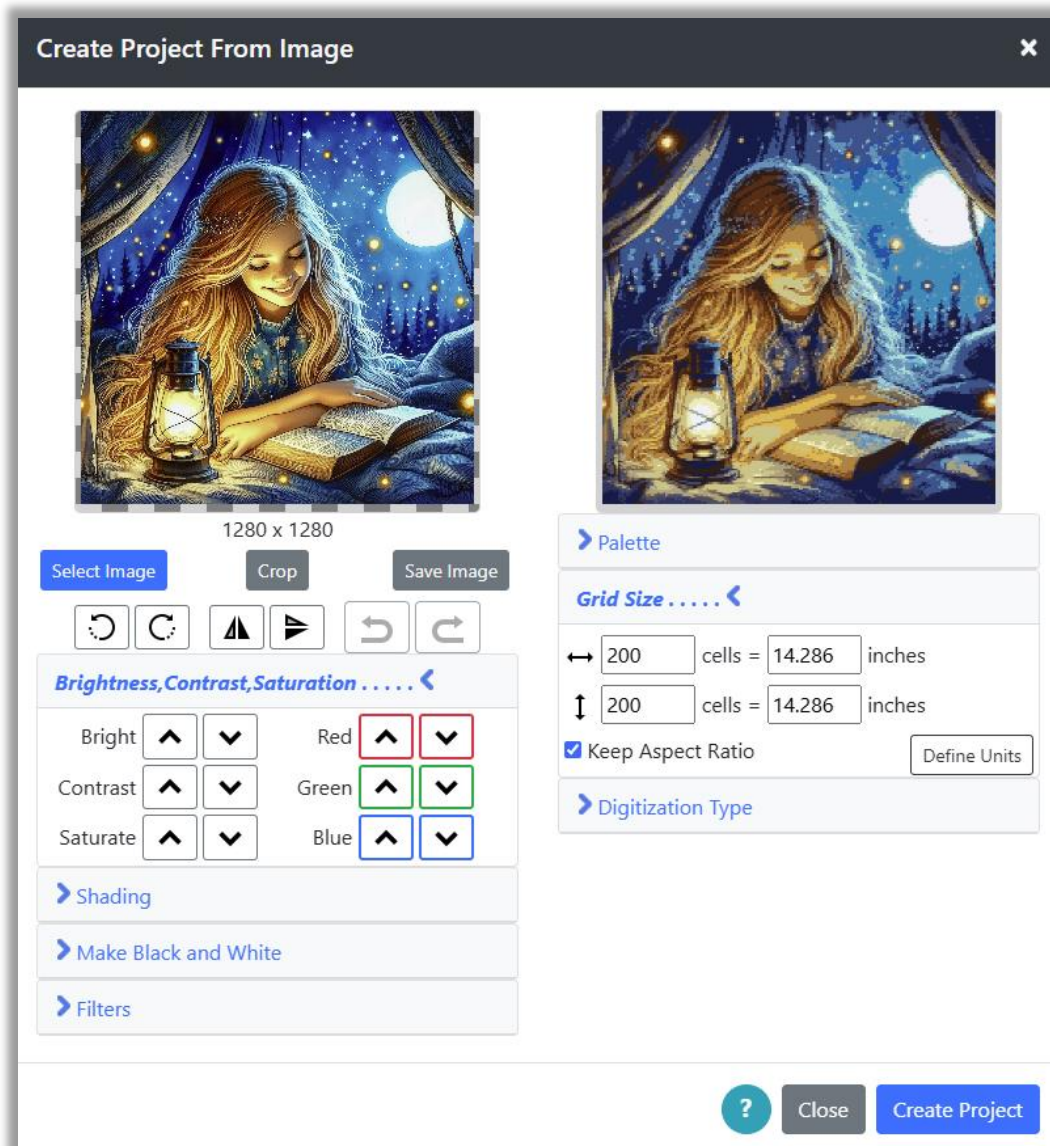


Figure 7: Create from Image Digitization

Sign-up and Login

You must create a login to use the Cloud Grid Designer. The process starts by going to <https://www.freese-works.com/griddesigner-cloud>. There you will see the login shield with links for login, sign-up and password reset.

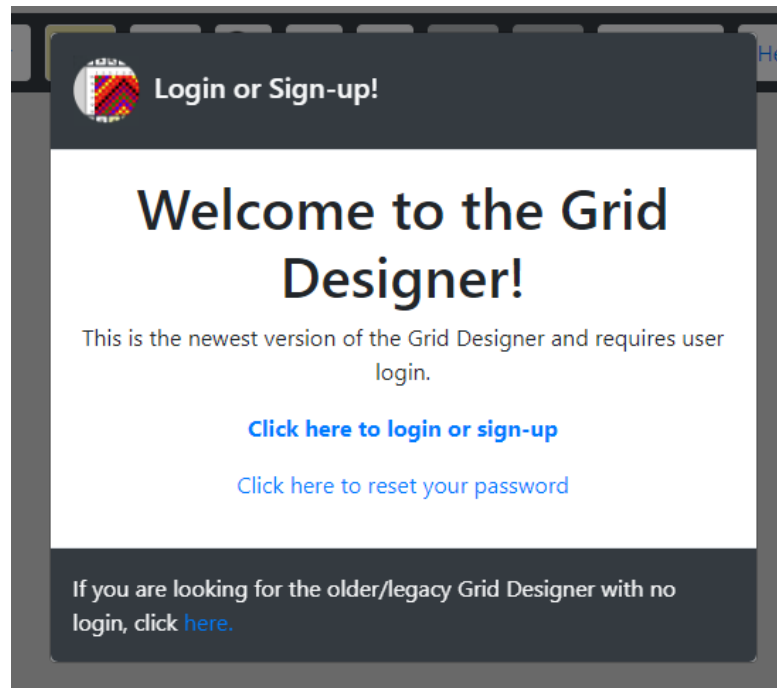


Figure 8: Login Shield

If you are a first-time user, simply click the “Click here to login or sign-up” link. This will take you to another page where you will need to enter a first name, email address and password. You must also read and accept the [Terms of Use](#) and [Privacy Policies](#) to sign-up. Your email address will be verified along the way. Simply follow the instructions for sign-up.

At the end of sign-up you will be sent to the login page where you can use your new login/password to login.

Once you have logged in, you will see a user menu on the far right of the top toolbar with your first name on it. You can modify your name and your email address with the options in this menu. You can also log out from there. If you need to change your password, you must logout and then click the “Click here to reset your password” link on the login shield.

Default Project

Once you are logged in and the designer is opened, a default project is created. This project contains a grid of 20 x 20 cells where each cell is square. The “Brights” palette is automatically selected and the background filled with red. The default project makes it easy to get started editing right away. Use this project for practice with the drawing tools.

This project can be reloaded anytime by selecting the Project → Close option or pressing the refresh button in your browser’s toolbar. The refresh button may clear other areas of the editor, such as the currently loaded image in the Create from Image option. Use the Project → close option in this case.

Supported Browsers

The following table shows browsers and the operating systems they are supported on:

	MS Edge	Chrome	Firefox	Opera	Samsung Internet	Safari
Windows *	Yes	Yes	Yes	Yes	N/A	N/A
iOS ** (iphone/ipad/mac)	Yes	No	Yes	No	N/A	Yes
Android tablets/phones ***	Yes	Yes	Yes	Yes	Yes	N/A

* -- Tested on Windows 10 and 11, should work on browsers with recent windows operating systems.

** -- Tested on iphone 10X, ipad, mac

*** -- Tested on Samsung Galaxy tablet and Google Pixel 4 phone

Internet Explorer will not be supported, as Microsoft is no longer making changes to it and is not supporting it.

I will consider other browsers and operating systems, if there is something specific that you would like to have supported. Please leave me a comment if you have a suggestion.

Working on a phone or tablet

In general, I expect most users to work on a desktop computer, as this provides the necessary screen space to view and edit designs. However, I am supporting iPad, iPhone and Android devices. See the previous section for browser support on each device. Editing large designs is limited by the amount of memory your particular device provides. I have found that designs up to 100 x 100 in size seem to be editable on all devices. Larger than this size may currently be unworkable on a low-end device.

When working on a tablet or phone, note that the top and bottom toolbars scroll side-to-side to allow you to reach and select all of the tools available on them.

With the Cloud Grid Designer you can login and edit your designs on any device.

I hope to create Android and iPad apps in the future.

Project Menu

On the upper left of the top toolbar, you will find the Project menu. This appears as a button labeled project with a dropdown arrow on the right. Click the project menu button and you will find the following options:

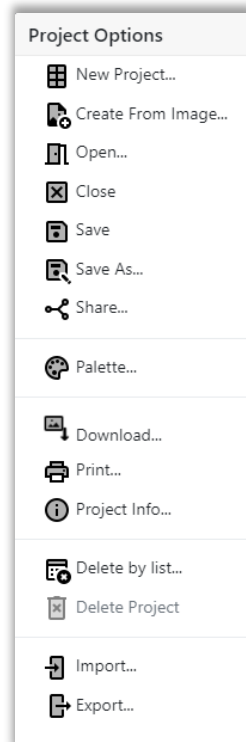


Figure 9: Project Menu Options

The New Project and the Create from Image options are used to create new projects. Use New Project to define the grid size, cell size/type and palette for a new project. Use Create from Image to create a project from a jpg, png or other image file.

To Save your project, use the Save or Save As options. Any project you save can be opened again with the Open option.

Projects can also be shared with others using the Share option. The Delete Project option deletes the currently open project and the Delete by List option presents you with a full list of all your projects so that you can delete old or unused projects.

To change the color palette for your project, use the Palette option. This option also allows you to edit palettes and groups and convert an existing drawing to different palette.

Your project grid diagram can also be downloaded to an image file, PDF or Excel spreadsheet with the Download option, or printed with the Print option.

To see the current project's information, such as grid size, cell size and colors currently used, select the Project Info option or click on the text on the upper left corner of the screen showing the title and size of the current project.

To export and import your projects (and palette changes) to and from files on your local file system, use the Export and Import options at the bottom of the project menu. These can be used to make a backup file of your projects (and palette changes).

These features will be discussed in detail in the following sections.

New Project

The Project → New Project option opens the New Project Layout dialog shown in Figure 3.

Figure 10: New Project Layout Dialog

This dialog allows you to select the project type, define the size of that project’s grid and select a palette for your project. Make selections for your project, as described in the following sections and then click the Create Project button to create your project grid.

Project Type

Select the type of project you are working on from the “Select Type of Project” dropdown:

- Cross-stitch embroidery
- Latch-hook rug-making
- Knitting
- Crochet – this option includes all standard crochet stitches, sc, hdc, dc, tc. Simply set the gauge to accommodate the stitch you are working with.

- Mosaic / Overlay Crochet – this is the traditional version where rows are worked in one direction only with border stitches on each end.
- Reverse Mosaic / Overlay Crochet – this is a way of working Mosaic / Overlay crochet in a continuous mode and creating a similar pattern on the reverse so that the piece is reversible. See the video: [Reversible Continuous Overlay Mosaic Crochet \(REV-COM\)](#)
- Corner-to-corner (C2C) crochet
- Granny Square Crochet
- Diamond Painting
- Quilting with squares
- Grid of Square Cells – use if your project type is not available and you expect to work with square cells, i.e. height equals width for each cell.
- Grid of Rectangular Cells – use if your project type is not available and you expect to work with rectangular cells, i.e. height is different from width for each cell.

Once the project type is selected, the dialog will change to show more options for that project type. For instance, if Cross-stitch is selected as the project type, you can select from pre-defined settings as shown below, or you can enter your own sizing information in the form of number of stitches per inch or cm.

Project Type: Cross Stitch ☐ Texture Cross Stitch

Select one of the following pre-defined sizes...

Pre-defined:

...OR enter your own values below:

stitch(es) per inch

information in this section is optional

None
CrossStitch, 11 count
CrossStitch, 14 count
CrossStitch, 16 count
CrossStitch, 18 count
CrossStitch, 20 count

Figure 11: Selecting Project Type

Follow directions on screen for the project type you have selected.

Enter Rows and Columns

The next section of the New Project Layout dialog allows you to enter the number of rows and columns for your grid. If you have entered information for the project that defines the real world size of

the project such as in inches or cms, the Height and Width will be calculated for the project and is shown below the Rows and Columns.

For example, suppose we select cross-stitch and 11 count fabric. This tells us the relationship between your project grid and real-world measurements of inches, because 11 count Aida cloth will have 11 stitches per inch. Then, the size in inches can be computed as you change the number of rows and columns. See the figure below; 50 rows and columns of stitches will be 4.545 inches or a little over 4 ½ inches.

The screenshot shows a 'New Project Layout' dialog box with the following fields and values:

- Project Type:** Cross Stitch (dropdown)
- Texture:** ☐ Cross Stitch (dropdown)
- Select one of the following pre-defined sizes...**
 - Pre-defined:** CrossStitch, 14 count (dropdown)
 - ...OR enter your own values below:**
 - 14 (spin box) stitch(es) per 1 (spin box) inches (in) (dropdown)
 - information in this section is optional*
- Rows:** 50 (spin box)
- Columns:** 50 (spin box)
- Ht(in):** 3.571 (text field)
- Wid(in):** 3.571 (text field)
- Select Palette:** (Floss) DMC Embroidery Floss [DMC] (dropdown)
- Buy Here:** [DMC Embroidery Floss \[DMC\]](#)
- Buttons:** ? (help), Close, Create Project

Figure 12: New Project Size Calculation

If no sizing information is provided in the section above Rows and Columns, then the Ht and Wid fields will be blank.

Select Palette

The final section of the New Project Layout dialog allows you to select a palette for your project.

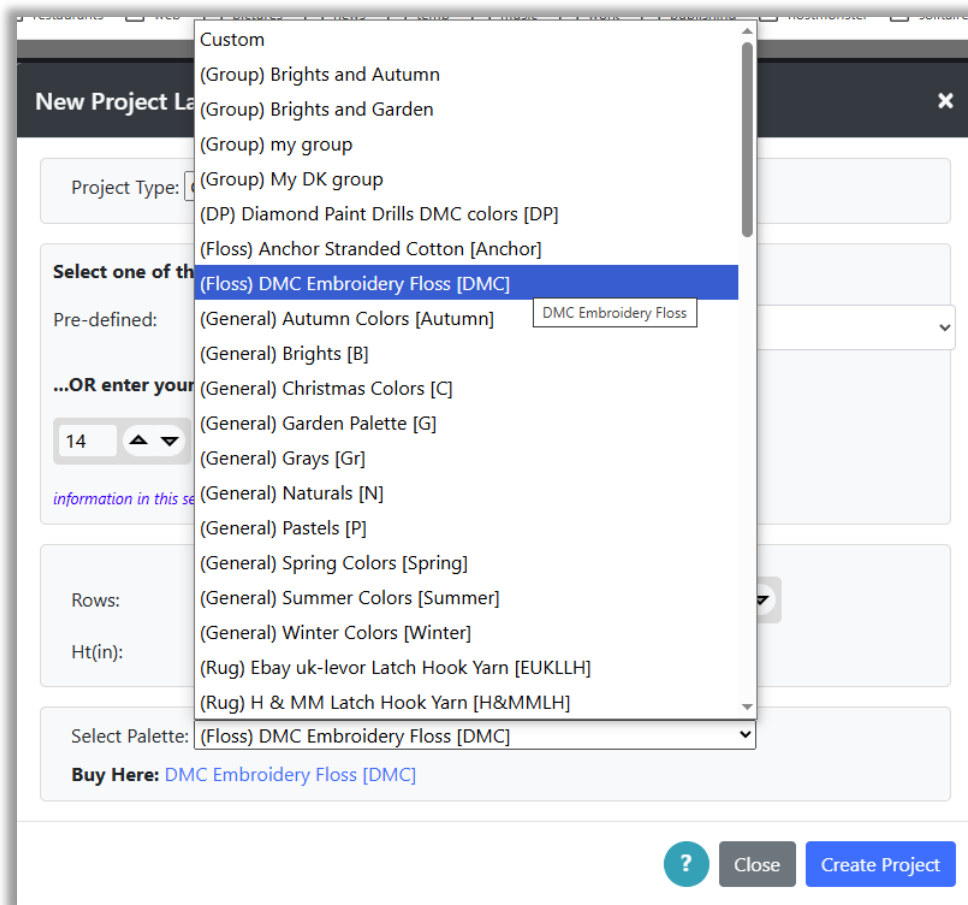


Figure 13: Selecting Palette for Project

General palettes represent convenient groupings of colors, but do not correspond to any particular type of yarn or floss. Groups can be created by the user to combine multiple palettes. Other palettes correspond to specific real-world yarns or flosses. Types are indicated in the menu: Rug – indicates pre-cut latch hook rug yarn, Yarn – indicates yarn, Floss – indicates embroidery floss, etc.

Click the Create Project button to create your new project.

You will be asked to select the starting foreground and background colors for your project in the next dialog. You may select a color for each or select the Close button to use default values. These are just starting values. For most projects, the background color will be used to fill the pattern grid initially. You can change the selections afterwards.

You will also be asked if you wish to save the new project. You do not have to save the project at this time, you can save it later, anytime while editing it.

Changing the Palette

By default, the “Brights” palette is selected and opened with the default project. You may select a palette when you create a new project either through the Project → New Project option or through the Project → Create from Image option. You may also change palettes at any time while working and the Grid Designer will allow you to select the existing colors and substitute colors for them from the new palette.

Selection and modification of color palettes is done by selecting the Palette option from the Project dropdown menu (Project → Palette). The Select Palette dialog will be displayed.

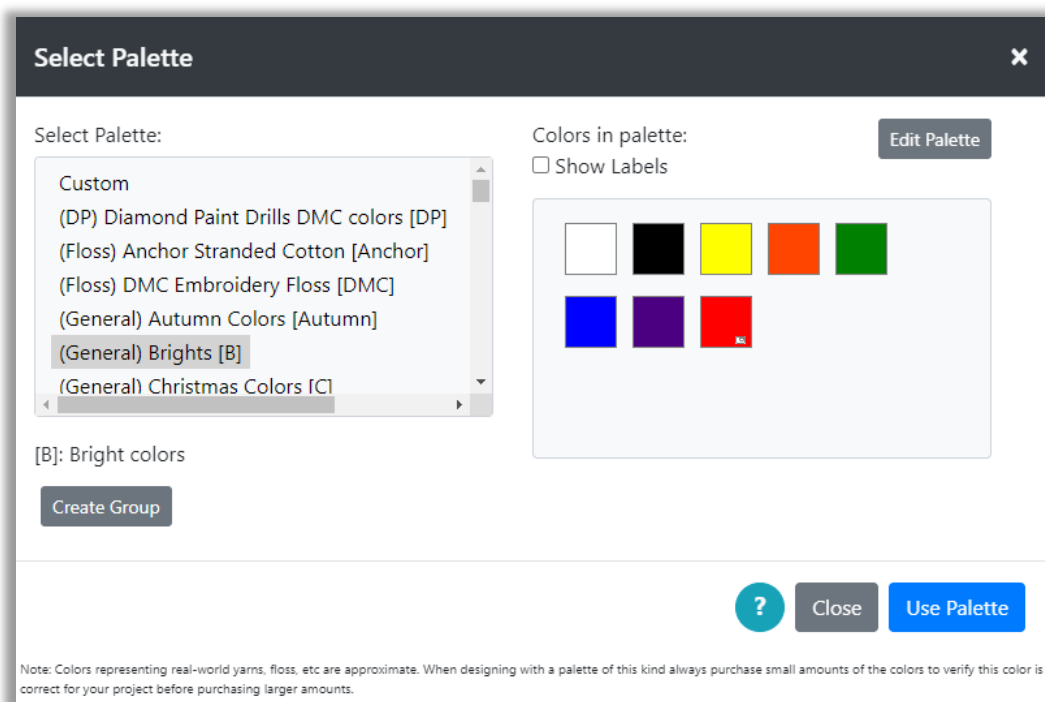


Figure 14: Select Palette Dialog

On the left is a list of existing palettes. The colors contained in that palette will be displayed in the panel on the right side. You can browse through the palettes by selecting each one and viewing its colors.

Palettes currently are available in the following types:

- **Rug** – colors from popular pre-cut latch hook rug yarn
- **Yarn** – colors from popular yarns, yarn weights of 3, 4, and 5 are included.
- **Floss** – colors from embroidery floss (currently DMC and Anchor are represented)

- **General** – colors following a particular theme that are not associated with a particular yarn or floss.
- **Tile** – ceramic tile palettes
- **DP** – diamond painting (you can also use the DMC Floss palette for diamond painting)
- **Custom** – An empty palette you can add your own colors to.
- **Group** – A combination of palettes the user can create.

NOTE: All palettes can be modified. You can add new colors and hide existing colors. For more information, see the [Modifying a Palette](#) section.

NOTE: If you are editing the palette that you are currently using in a project, some limitations exist. You cannot remove or hide colors that are in use.

Color labels can be shown by clicking the Show Labels check box above the color list. You can search for colors in the list using the browser's text search for the page. Often this is initiated with Ctrl+f.

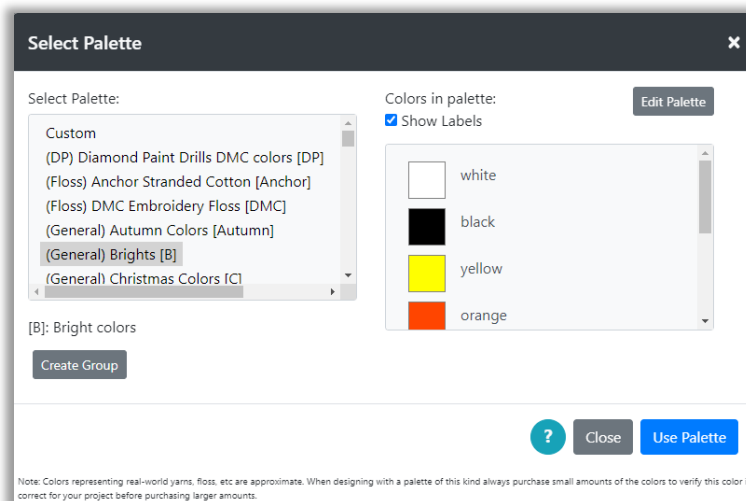


Figure 15: Select Palette Dialog with color labels shown

To change your project to a different palette, simply select the palette on the left that you want to use, then click the Use Palette button on the bottom right.

The Grid Designer will look to see what colors are currently used in the grid you are working on. If those colors are not found in the palette you have selected, the following dialog will be displayed:

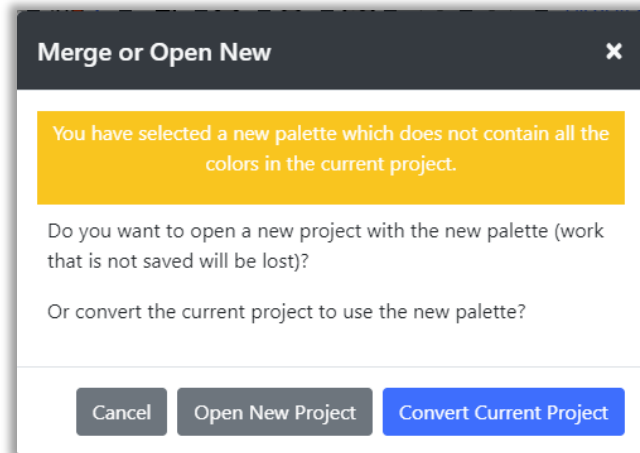


Figure 16: Merge or Open New Dialog

You can create a new empty project with the new palette, or you can convert the existing colors in your project to the new palette by selecting colors to substitute for the old colors.

NOTE: Both of these actions are NOT undoable. If you want to save any current work, click the Cancel button and save your project before you change the palette.

Selecting Open New Project will clear the current grid and automatically select a foreground color and a background color from the new palette. You can change these manually.

Selecting Convert Current Project will display the Convert to Palette Colors dialog:

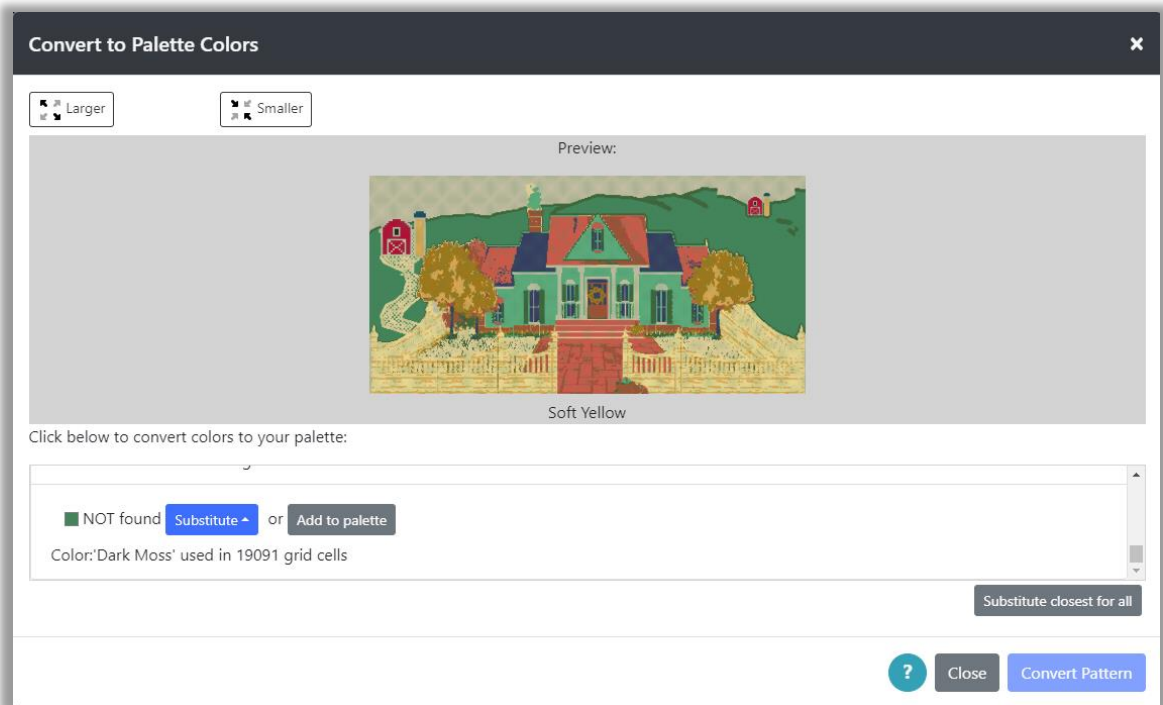


Figure 17: Convert to Palette Colors

This dialog will list each color used in the grid and provide options for each color as follows:

- 1) *If the color in the current grid is found in the new palette, you may keep the color the same or substitute another color for it.*
- 2) *If the color in the current grid is NOT found in the new palette, you may add the color to the new palette or substitute another color for it.*

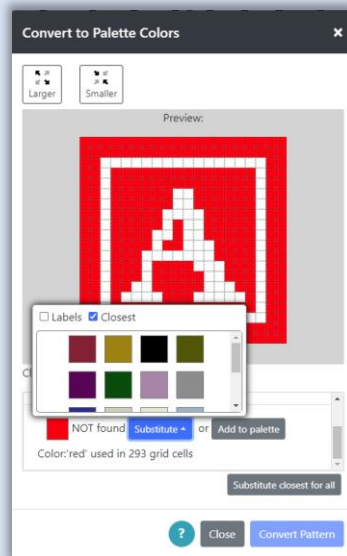
You can make the preview picture larger or smaller with the buttons on the top right. On the bottom left is a button labeled “Substitute closest for all”. Clicking this button will substitute the closest color in the new palette for every color used in the old palette that is not already found or is not already substituted. This is particularly useful for projects using many colors.

Example

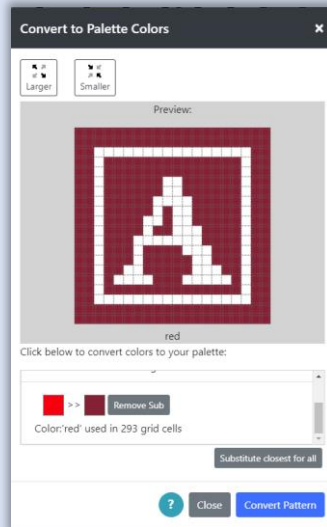
In the figure above, there are only two colors in the grid, red and white. White was found in the new palette that we have selected; red was NOT found in the new palette we selected.

Suppose first that we want to keep the colors as close as possible to the original. We would keep the white alone, as it can be the same color with the new palette.

To change the red color to one that is in the palette, we click the Substitute button. A popup will be displayed with all the colors in the new palette.



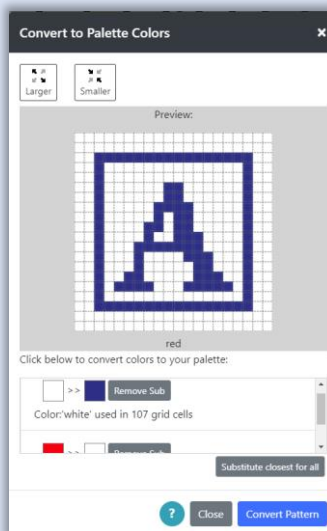
We select the color we would like from the popup. In the picture above, we have selected the Closest checkbox to order the colors according to which is closest to the original color. The Preview picture is updated to show that color substitution:



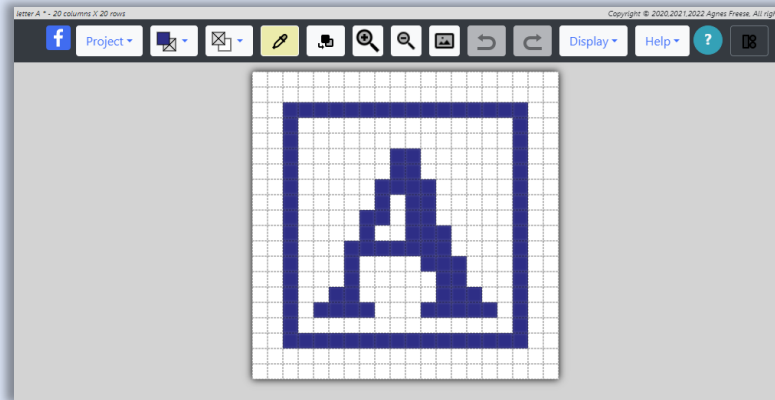
Note that there is also a button labeled “Substitute closest for all” on the lower right. This button will select the closest color in the new palette for each color that is not found, or not already substituted. This button can be very useful when there are a lot of colors.

Suppose we want to completely change the color scheme. We want the picture to contain a blue letter on a white background. We click the Remove Sub button to remove the current substitution for red.

Then, we can substitute a blue for the white and a white for the red and the preview will show the result.



When we have the preview picture as we would like it, we click the Convert Pattern button. The grid is updated to show the picture with the substitutions. If we have substituted colors for the background and foreground, then the background and foreground selections are updated also.



Note that white is now selected for the background color and blue is now selected for the foreground color in the top toolbar.

NOTE: You can also substitute colors without changing the palette, by selecting the Substitute Colors button on the top toolbar. For more information see section [Working with Colors > Substituting Colors](#).

Create Project from Image

You can create a project by digitizing an image.

See also the YouTube playlist: [Step by Step Digitization Using Grid Designer](#) for more detailed examples.

To digitize an image:

- 1) Select Project → Create from Image option. The Create Project From Image dialog will be displayed.

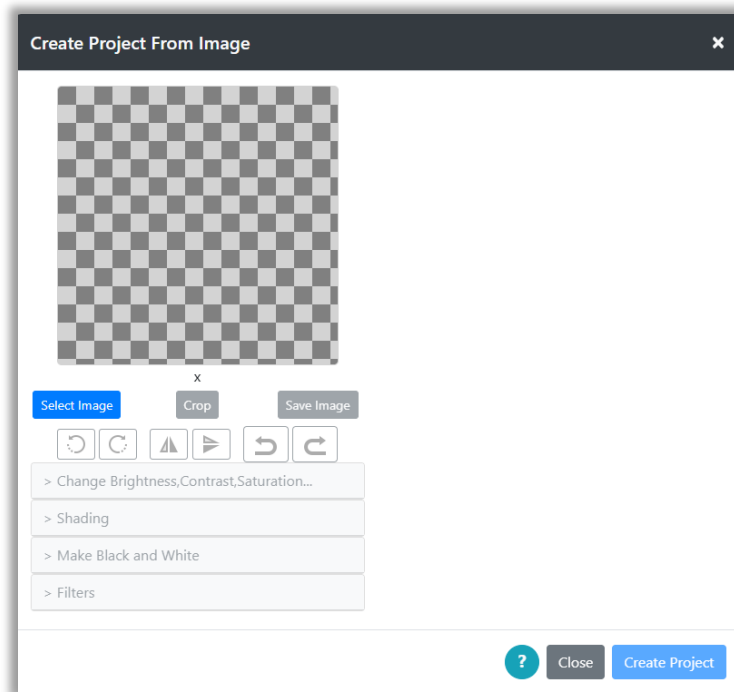


Figure 18: Create Project From Image Dialog

- 2) Click the Select Image button to browse for an image on your device. On my Windows 10 computer with the Chrome browser, the Open dialog is shown and I can browse for and select a picture. This process differs depending upon the device you are using.

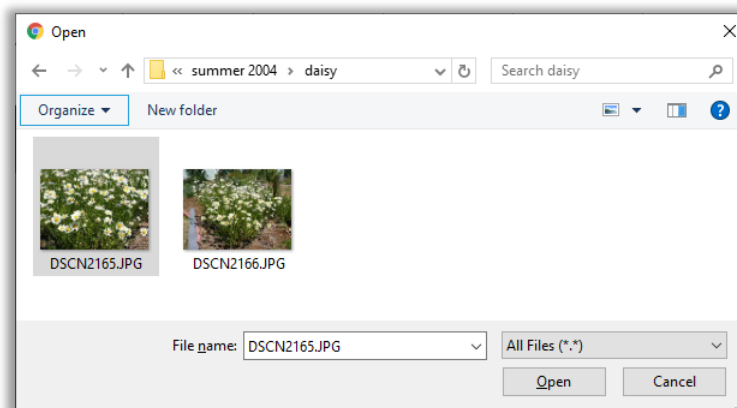


Figure 19: Select Image File

- 3) Select an image file to use. In the picture above, I have selected a picture of daisies. Then I click the Open button to complete the selection. The image will be loaded and more options will be shown in the Create Project From Image dialog.

- 4) To begin digitizing the image, select a palette from the options on the right-hand side. Now your image will be digitized with colors from that palette and the digitized picture will appear on the upper right-hand side.

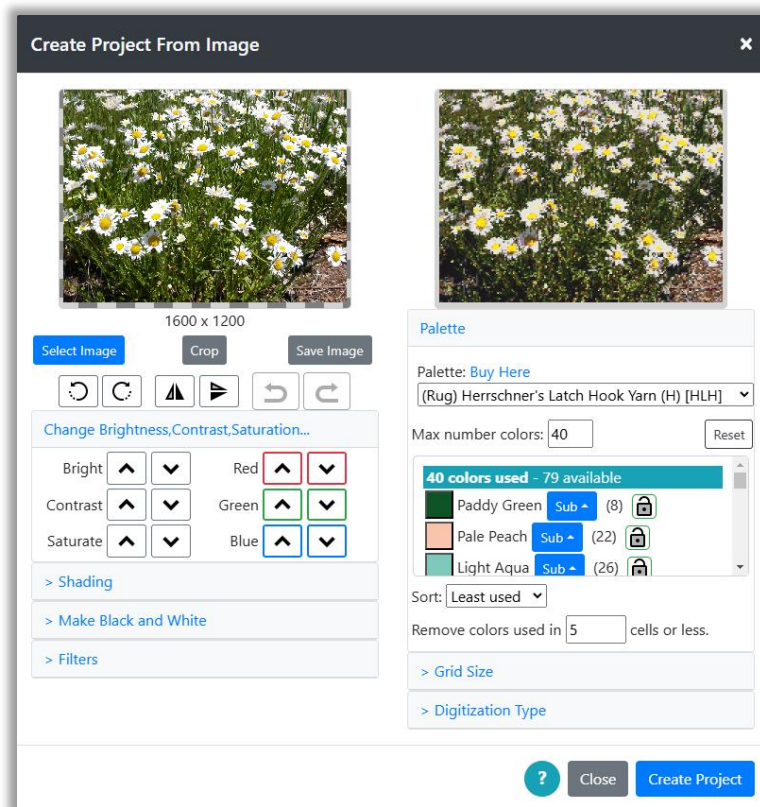


Figure 20: Daisy Image Loaded

- 5) Below the loaded image on the left are options to modify the image. You may rotate, flip, crop, change brightness, contrast, saturation and red/green/blue values in the image. You may also create a black and white image based on a threshold value that can be adjusted through a slider. You can also create a grayscale image, invert the colors, sharpen, blur and emboss the image using filters as well as add shading to the edges of the image.

Changes to the original image are undo-able. Click the undo or redo buttons to move back and forth in your changes. If you like changes you have made to your image, you may save a copy of it with the Save Image button. This allows you to reload the modified image at a later time to continue where you left off.

You may crop the picture by clicking the Crop button. A separate panel will come up showing the picture and a selection box to position around the section of the picture you want to crop out.

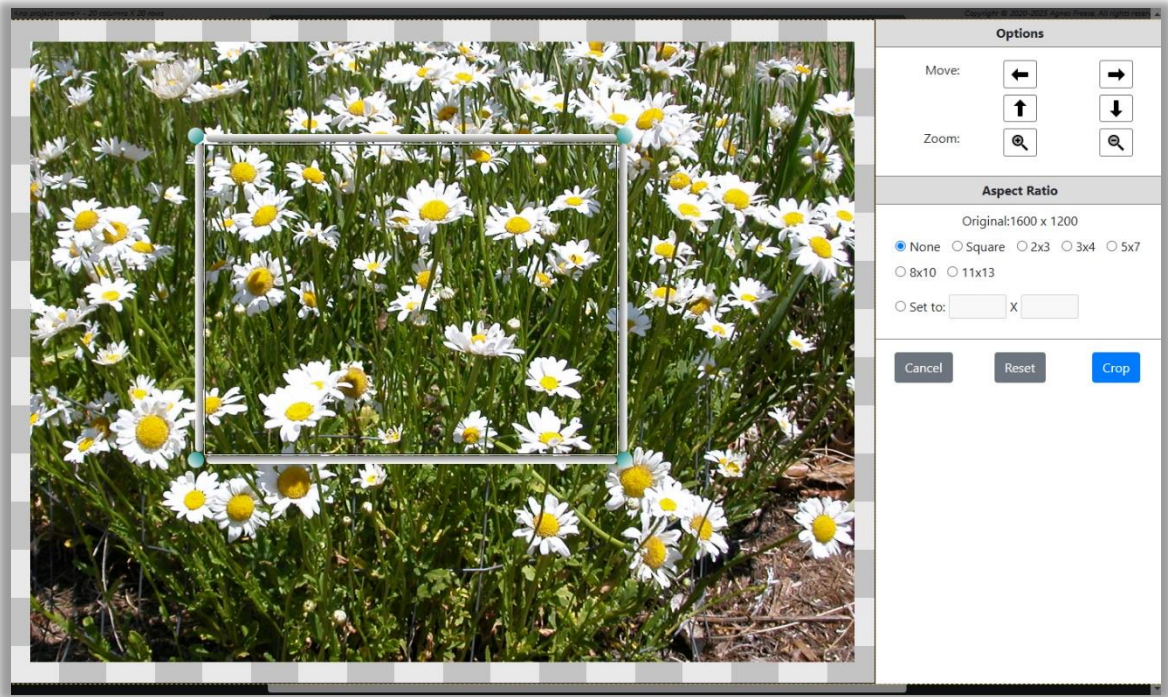


Figure 21: Crop Panel

- a. There are options on the right for moving and zooming the underlying image. Also, you can fix the Aspect ratio of the selection area under the Aspect Ratio section.
 - b. When you have the selection positioned correctly, click the Crop button to crop and your selection will be returned to the original dialog. The Reset button will reset the image and selection box to the initial state.
- 6) Options below the digitized picture on the right allow you to affect how the image is digitized.
- a. The first section below the digitized image allows you to select a palette, modify the number of colors used, turn colors off/on, lock colors you want to be used, and substitute one color for another.

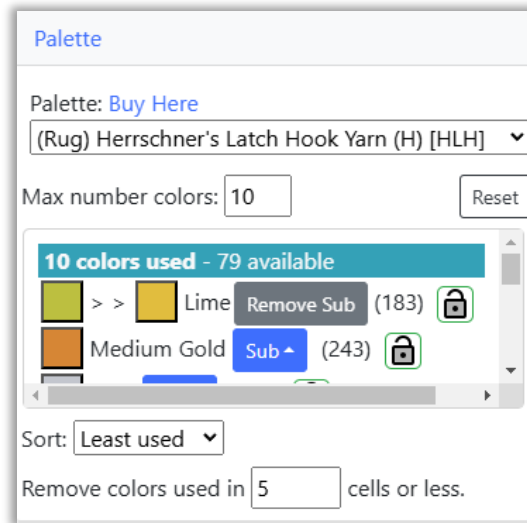


Figure 22: Select Digitization Palette

- i. Select the palette you want to use, then adjust the max number of colors used as you wish. You may also reduce the number of colors that are used in only a few cells by adjusting the “Remove colors used in X cells or less” number. This will remove trailing colors that might be used in only a couple of cells. The default value here is 5, but you can increase the number to anything you like.
- ii. The list of colors below the palette selection shows the current colors selected from the palette by the digitizer. The list of currently used colors can be sorted in different ways: Most used/Least used as well as A-Z and Z-A.
- iii. You can modify this list in three ways, below. All of these can be cleared with the Reset button above the color list.
 1. **You can turn a color off in the list** by clicking on the colored box for the color. You can turn it back on by clicking it again. (Note that colors may move around in the list when you turn them on and off, depending upon the Sort option on the upper right of the color list.)
When you turn a color off, it is the same as removing it from the palette, with respect to the digitizer.



Figure 23: Dark Green Off

2. **You can substitute other colors from the palette for any color in the list.** The picture below shows selecting a substitute color for Dark Green.

When you substitute a color for another, the digitizer still uses the original color to digitize, but wherever it finds a use for that color, it will use the substituted color in the final digitized picture.

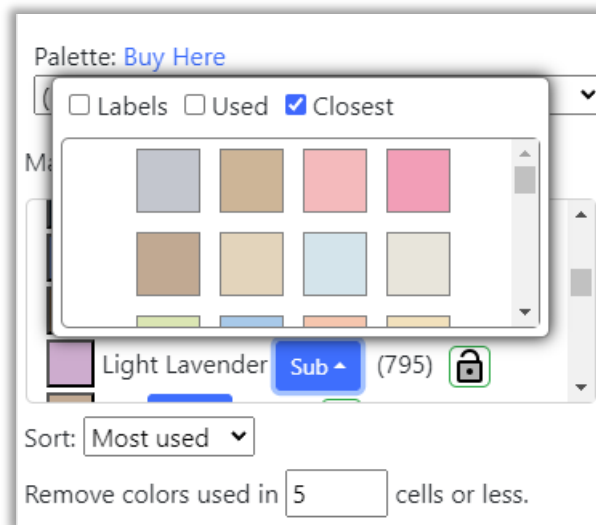


Figure 24: Substituting color for Light Lavender

3. **You can lock a color to force the digitizer to use it.** This is useful when you are trying to reduce colors, but a specific color you want to be used is being removed by the digitizer, when you reduce the number of colors. To lock a color, select the lock on the right side of the color when it appears (usually when the number of colors is larger). The lock will turn green, indicating it will not be removed by the digitizer as you reduce the number of colors.

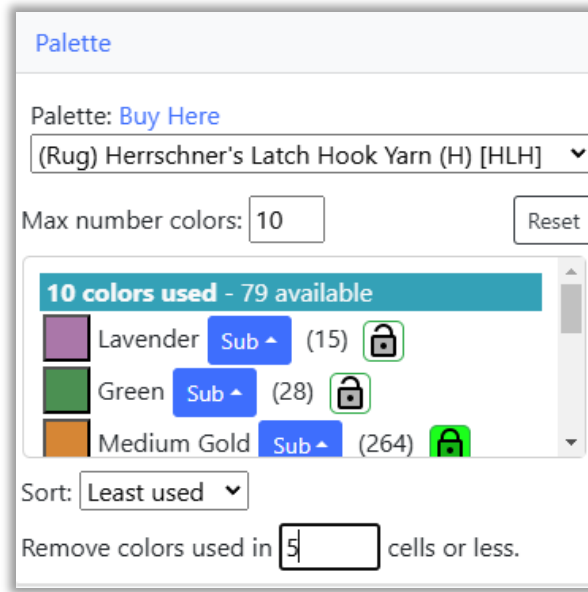


Figure 25: Locked Colors

- b. The next section below Palette allows you to size your project grid. (Click on the Grid Size link to open this section). If you have not entered any sizing information for your project, you will see “?units” displayed in this section. You may continue to size your project by changing the number of cells horizontally and vertically directly.

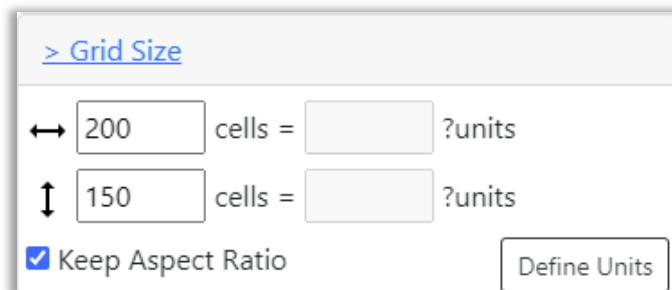


Figure 26: Defining Digitized Grid Size(no units defined)

However, if you want to size your project in inches or centimeters, you will need to define the type of project you are working on and the size of cells in inches or cms. To do this select the Define Units button.

- i. The Define Units button will bring up the Change Cell Size dialog where you can select your project type and sizing information. For instance, if you are

working on a latch hook project, you would click on the Define Units button, select Latch Hook for project type and then select your canvas type.

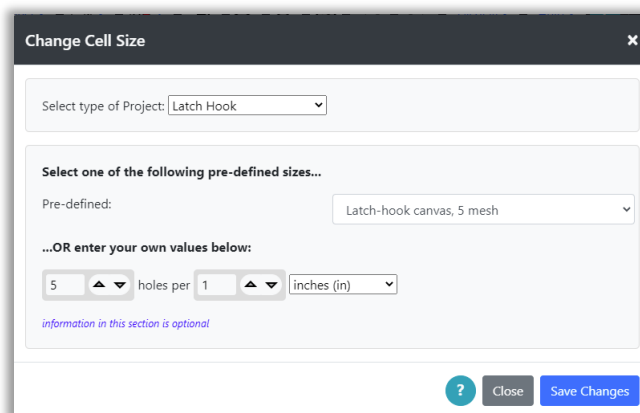


Figure 27: Define Units

- ii. Click on Save Changes when you are done and you will be returned to the Create from Image dialog. The grid size information will now be updated with size in inches (or cms). At this point you may enter either number of cells or number of inches for your project.

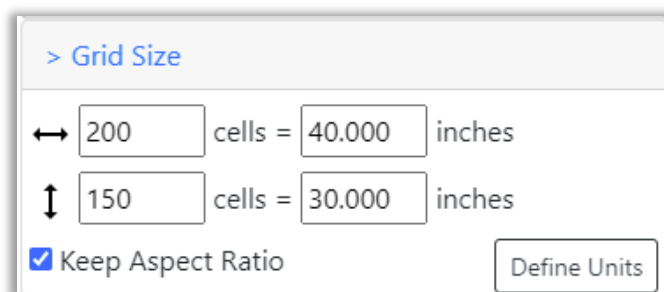


Figure 28: Units defined

- iii. As you change the number of cells or the number of inches/cms, the other values will be recalculated. As long as the Keep Aspect Ratio is selected, the ratio of the height to width of the digitized image will remain the same as the original image.
- iv. If you unselect Keep Aspect Ratio and modify the values, the digitized picture will be stretched or shrunk to fit within the values you define. This allows you to fine tune the final size of your project. For instance, in the Figure above, if you wanted your project size to be exactly 40 x 32 inches, you can unselect Keep Aspect Ratio, and then change the 32.200 value to

32.0. This will remove one row and shrink the image slightly in the vertical direction to fit. Small changes such as this will be unnoticeable in the final project.

- c. The last section on the right side of the dialog allows you to change the digitization type and set the method for how colors are removed.

The digitization type can be “Sharp”, “Smooth”, “Block”, “Dithered/Smoothed” or “Dithered/Pixelated”. Click the Digitization Link to open the section. Try your picture with each one to see which you like best with your image.

The method for how colors are removed is labeled “Remove colors that are: “ either Least Distinct or Least Used. Least Distinct works well when there are small areas of color that are distinct from the rest of the picture, such as a dog’s pink tongue or bright colored collar. Least Used will remove colors least used and will result a more homogeneous picture.

In general, Least Used works better when the number of colors is small, like < 5 . This is true so often that I have added an Auto Selection checkbox that is selected by default. This checkbox automatically switches from Least Distinct to Least Used and vice versa depending upon the number of colors selected.

For detailed images and photos try “Sharp” or “Smooth”:

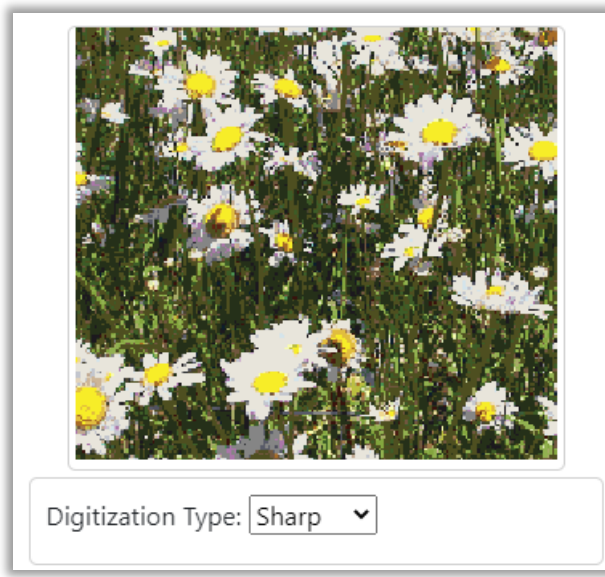


Figure 29: Sharp Digitization

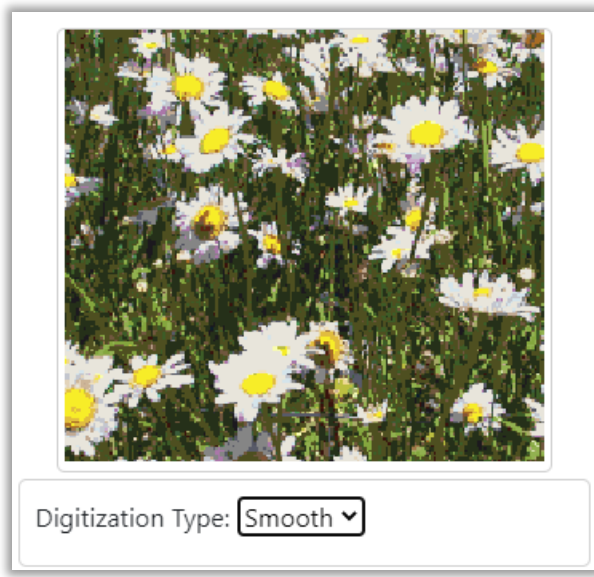


Figure 30: Smooth Digitization

For images that contain a gradient of colors, such as the sky at sunset or any type of shading or fading of a color, select one of the Dithered options to capture the subtle change in colors across an area.

For instance, here is a sunset first done with the Smooth option, then done with Dithered/Smooth:



Figure 31: Sunset with Smooth option



Figure 32: Sunset with Dithered/Smooth option

For simple drawings with areas of solid colors try “Sharp” or “Block”. I find that “Block” seems to give the best shape to a single-color object, but sharp can pick up more details that “Block” does not draw. “Smooth” will create a fuzzy edge to drawings like this which is usually not desirable.



Table 1: Block vs Sharp

Grid drawings can be imported, depending upon the quality of the grid image. On the left of the figure below, is a rainbow I created in design-a-knit. Setting the number of horizontal cells to the exact number of cells in the grid and making sure the image is trimmed to contain only that grid will allow you to import a grid. Using block in the case below works best, as block looks for the most common color in an area. Block is able to find the colors around the lettering in the grid.

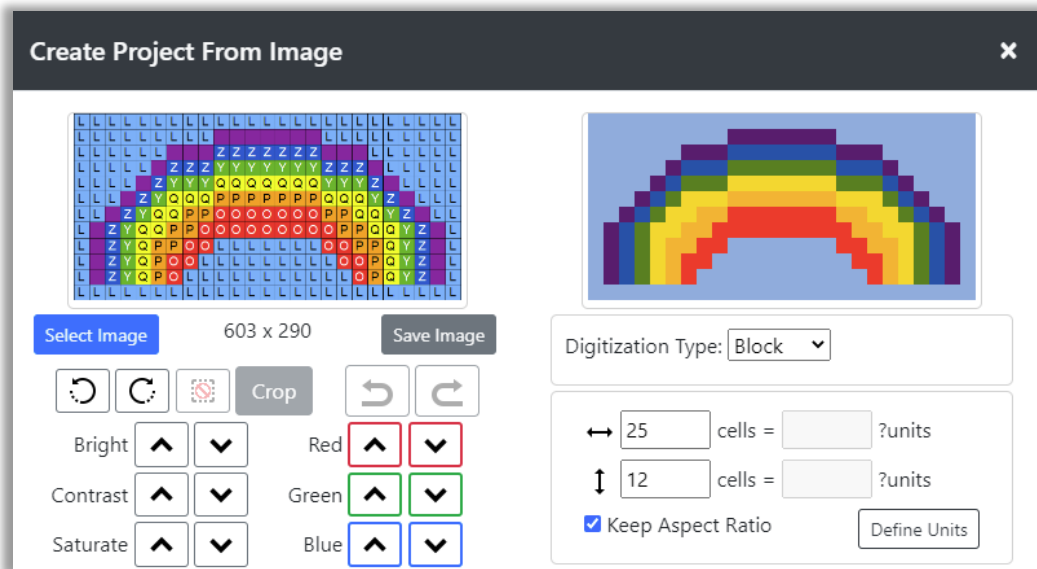


Figure 33: Importing a grid with block

- 7) Click the Create Project button when you are ready. A “Processing Image” message will appear at the bottom of the dialog and then the project will be created and the dialog will be removed. If the cell size of the project is small, the grid lines will be turned off in order to better view the final result. You can turn them on again with the Display → Show Grid option if desired.



Figure 34: Digitized Image

- 8) If you want to change settings and reprocess the image, you may select the Project → Create from Image option again and the same cropped image you just processed will be there in the dialog. Once you refresh the browser page or close and reopen it, the image will be gone from the dialog. You can save an image for later by clicking the Save Image button under the loaded image on the left side of the dialog.

Tips for Working with Images

Here are some tips for using images to create a project:

- 1) The Grid Designer contains palettes that contain color representations of yarns and floss. These color representations and how they are viewed by a designer is dependent upon a lot of variables. *The colors viewed may appear differently on the screen than they would if you had the yarn or the floss immediately in front of you.* This is because any variation in lighting

when the yarns were photographed, the quality of the camera, or a variation in the brightness of your screen, etc. can affect how a color looks.

Always keep this in mind when purchasing colors for a large project. Purchase a small amount of the colors you believe you need and verify that they look good together before purchasing large amounts for a project.

- 2) After digitizing the project, you can view the colors used in the project by going to Project → Project Info. This will show the number of colors used and the number of cells each color is used in.
- 3) To continue editing the project manually with only the colors used in the image, select the Show Used option in the dropdown for Foreground or Background color to reduce the list to only those colors currently used.

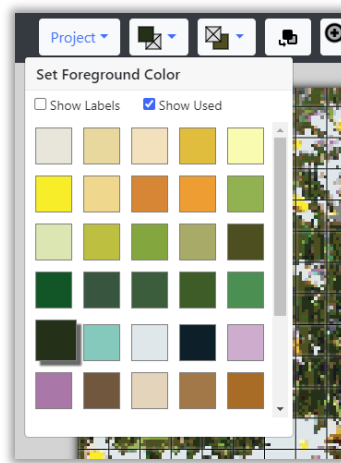


Figure 35: Select Show Used to see only color currently used in grid

- 4) Once you have created your project, you can do substitutions of one color for another by clicking the Substitute Colors button on the main toolbar. This will bring up a dialog where you can see what colors are used and how many cells, they are used in. You may then substitute one color for another.
- 5) When substituting colors, you can first select areas of the picture using any selection tool. Then, when you are substituting colors, only the areas that are selected will be affected.
- 6) You may restrict the colors chosen by the image processor, by hiding colors in the palette you are using. For instance, the DMC embroidery floss palette has almost 500 possible colors. To restrict this palette to colors that are more relevant for the image you are using, you may edit the palette under Project → Palette. For instance, you might edit the DMC palette, select the Hide All button, and then Show only those colors you would like to use in the digitization of your image. When the DMC palette is later selected in the Create Project From Image

dialog, it will use only the colors you have selected to Show in the palette. This type of restriction can be done with any palette. To remove your changes later, select the Show All button when editing the palette.

***Note:** that when modifying a palette, such as to hide colors, you will not be able to make any modification to colors that are currently used in an open project. To edit a palette, it is best to close any open project that uses the colors in that palette.*

Use the Project → Close option for this purpose.

Saving your Project

Your project grid and the current palette being used can be saved using the Project → Save option.

This data is saved in a database in the cloud where you can access your designs again from any browser on any device.

The current name of the project you are working on is displayed in the upper left corner of the screen. You can also see the name by selecting Project → Info. The name will be defined if you have previously saved the project, or if you have opened an existing project.

To save your project for the first time:

- 1) Select Save from the Project menu. The Save dialog will be displayed.
- 2) Enter a name in the “Save As” field.
- 3) Click the Save Project button.
- 4) Your project is saved. You can verify it is saved by selecting the Project → Open option and viewing the list of your saved projects.

To save your project again, once it has been saved or opened from a saved project:

- 1) Select Save from the Project menu.

- 2) **No dialog will be displayed**, the project will be saved under the same name as previously used. This allows you to quickly re-save your project as you work. You can verify it is saved by selecting the Project → Open option and viewing the list of your saved projects.

You can quickly check to see if a project needs to be saved by looking at the project name in the upper left corner of the screen. An asterisk will appear after the name, if the project has changes that need to be saved.

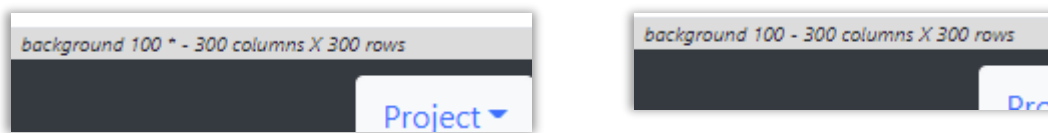


Figure 36: Checking project status, unsaved (left), saved(right)

If the Save option in the Project dropdown menu is disabled, it means there are no edits or changes to save.

NOTE: Keyboard shortcuts exist for many options in the designer. Ctrl-s or Alt-s will execute the save option. Many of the keyboard shortcuts are visible in the option tooltips. See the [Keyboard Shortcuts](#) section for a list of all keyboard shortcuts.

Save As

The Project → Save As option allows you to explicitly provide a name when you save.

To save your project using Save As:

- 1) Select the Save As option from the Project dropdown menu.
- 2) If your project already has a name (from a previous save or from opening an existing project), a unique name will be generated for it and placed in the “Save As” field. If no name has previously been used, the “Save As” field will be blank.
- 3) Edit or enter the name as desired.

- 4) Click the Save Project button.
- 5) If a project already exists with the name you entered, you will be asked if you want to replace the project of the same name with your new content.

NOTE: It is possible to run out of space in the cloud for your projects. If you receive an error saying that you have exceeded the limit for storage, you may need to delete projects to make more space using the Project → Delete by List option. If you want to save copies of old projects before deleting them to make more space, [use the Export option](#) to save the projects to files on your local file system.

Sharing your Project

You can share any project with another user. Shared projects are temporary and may be deleted after 6 months from the creation of the shared link. You may share the link to the project directly with another user, or you may post the link to the project to a social media platform.

To share the currently opened project:

- 1) Select Project → Share. A small dialog will appear while data is being generated. No action is needed, when it is done it will continue with the share process.
- 2) The Share Project dialog will be displayed. This dialog explains that a link will be generated to the project information.

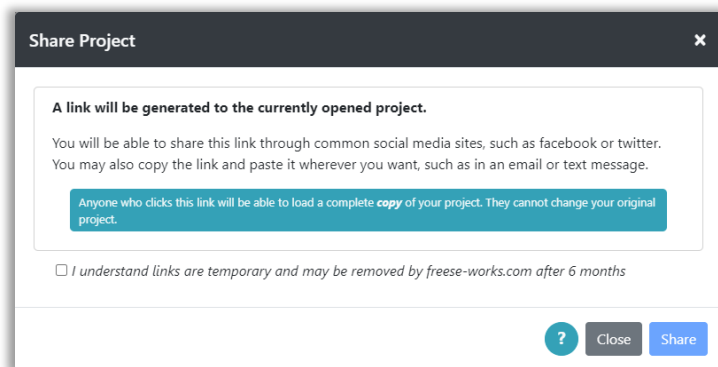


Figure 37: Share Project Dialog

- 3) Check the checkbox in the dialog that indicates that you understand that the link you create may be temporary.

- 4) Click the Share button. The Share Link dialog will be displayed. This shows a link to your project data that may be copied and pasted anywhere you would like it or it can be shared on a social media site.

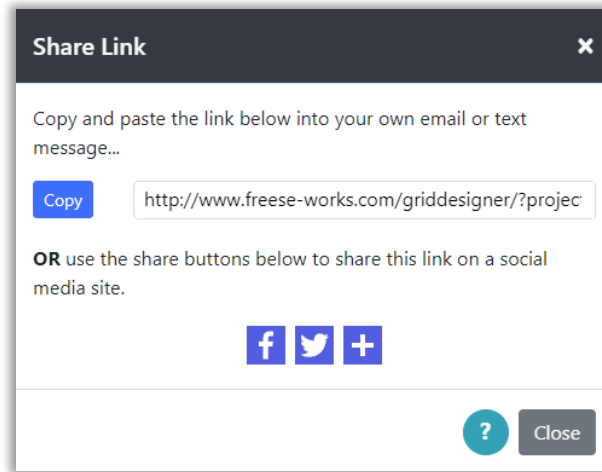


Figure 38: Share Link Dialog

- 5) There are two ways to share the link:
 - a. If you want to share the link directly in an email or text message, copy and paste the link text to the desired place. Clicking the Copy button will copy the text to your clipboard so you can paste it wherever you want.
 - b. If you want to share the link on a social media site, such as facebook or twitter, click the facebook, twitter, or + icon to select another social media site and follow the instructions for that site.
- 6) Click the Close button when done.

When the link is used, it will display a page like the following example:

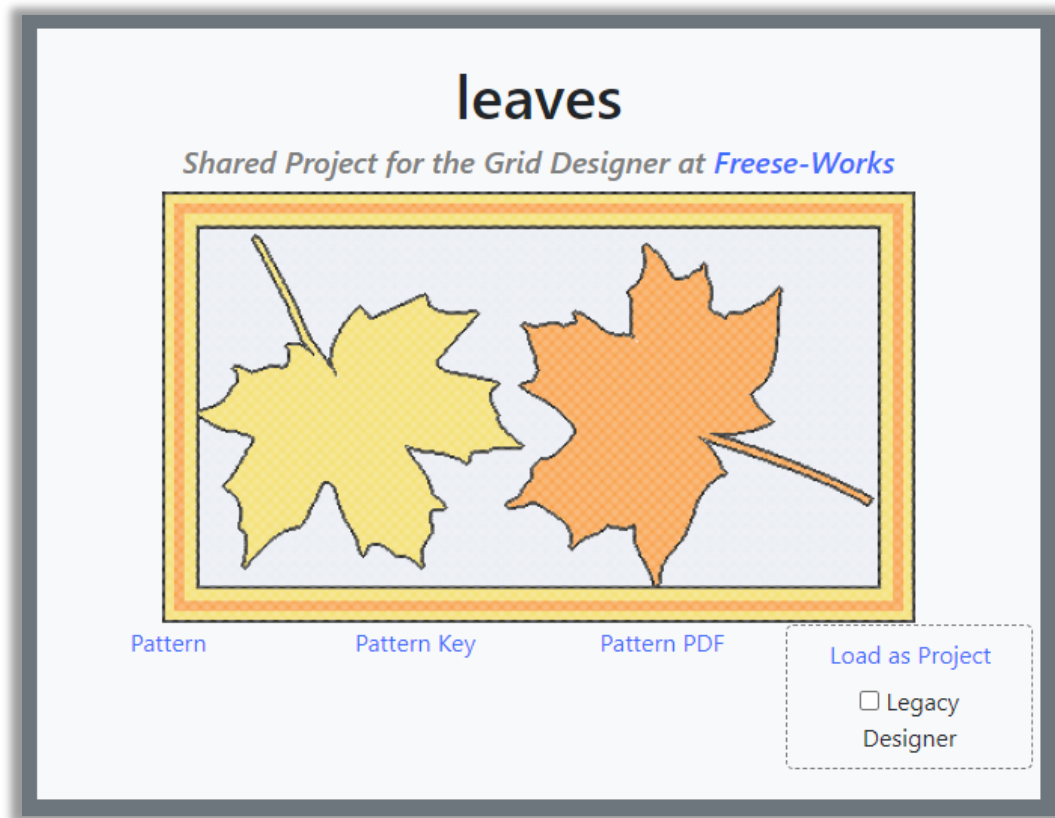


Figure 39: Shared Project Example

Four links appear under the picture:

- **Pattern** – opens a png image file with the grid, this can be different from the image you see on the shared project page. It includes numbering, etc. If there are more than 10 colors in use, the pattern image will have symbols for each color.
- **Pattern Key** – opens a png image file that contains the color key for the pattern image.
- **Pattern PDF** – opens a pdf file that contains both the pattern image and the color key. This can be used in other tools such as “knitcompanion”, as you work on your project.
- **Load as Project** – opens a copy of the shared pattern in the Grid Designer. By default it will open the Cloud Grid Designer. If you want to open the project in the Legacy Grid Designer, select the Legacy Designer checkbox before clicking the Load as Project link. From there you may edit the pattern, download or print it using your own selection of options.

***NOTE:** As more and more new features are added to the Cloud Grid Designer, you may find that a project created in Cloud cannot be opened or will lose many of its features if*

opened in the Legacy Grid Designer. In general, you should open projects with the editor they were created with.

To load a shared project:

- 1) Click the Load as Project link as shown in the example above. (Clicking the picture in the shared file will also load the project). The default will load into the Cloud Grid Designer. If you want to load it into the Legacy Grid Designer, select the Legacy Designer checkbox before clicking the Load as Project link.
- 2) Grid Designer will be started in your browser and the Load Project dialog will be displayed.

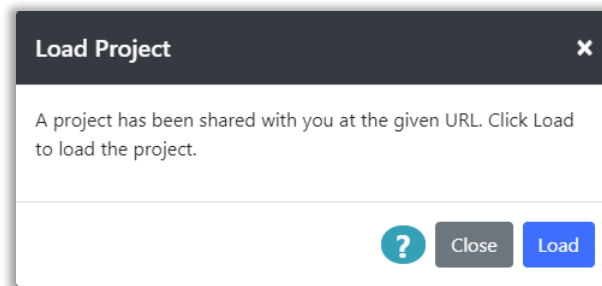


Figure 40: Load Project Dialog

- 3) Click the Load button to load the project. A **copy** of the original user's project will be loaded into your Grid Designer. View and edit as desired. Save any changes you make in the normal way, with Project → Save or Save As.

Opening a Project

Projects that have been saved, may be reopened using the Project → Open option.

To open a project, you have previously saved:

- 1) Select the Open option from the Project dropdown menu. The Open Project dialog will be displayed.

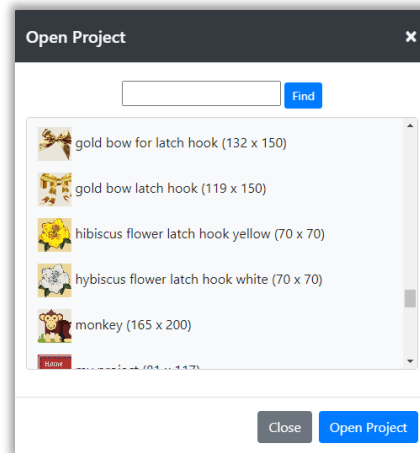


Figure 41: Open Project Dialog

- 2) The dialog will show a thumbnail image of each project, the project name, and the project size. Select the project you want to open.
 - You may also search for projects in the list by typing in the text box next to the Find button at the top. Then, click the Find button to search for the text in the list. Each time you click the button, the search will move to the next instance of the text in the list. If the text is not found, the text box will show a red border.
- 3) Click the Open Project button
- 4) The project is loaded into the grid and the palette set to the palette used when the project was last saved. Foreground and Background color selections are restored to those that were set when the project was saved.

Closing a Project

To close a project, select the Project → close option. A warning will be displayed if your current project has not been saved.

Once your project is closed, the default project will be displayed in its place.

Download your project

You may download the following from the Grid Designer:

- A png file containing an image of the project grid/graph

- This image will be generated with the same settings as for the Print option. See print settings under the [More Options](#) section.
- A png file containing an image of the project color key
- A pdf file containing :
 - Optional cover page with designer name, date, project title, description and picture of graph as it appears on your screen.
 - Optional graph either fit to a single page or full-size and covering multiple pages. The graph image will be generated with the same settings as for the Print option. See print settings under the [More Options](#) section.
 - Optional color key.
 - Optional written directions, these are currently available for crochet and general printing of colors for each row in various ways. For crochet you may also download an estimate of the yarn needed for your project. Crochet directions can be left or right-handed. Also, different options are available for printing color boxes within the text to make reading easier. For example:

Row 23: Colors R2L, 24 white , 1 navy , 2 blue jeans , 1 navy , 5 blue jeans , 1 navy , 4 blue jeans , 1 navy , 24 white

Row 24: Colors L2R, 25 white , 1 navy , 3 blue jeans , 1 navy , 4 blue jeans , 1 navy , 2 blue jeans , 1 navy , 25 white

Figure 42: Generic Directions list colors for each row

Row 5: Chain 1 Coffee . Starting in 3rd loop from hook (top of 2nd st), SC 2 Coffee , SC 214 Lemon , SC 3 Coffee , turn

Figure 43: Crochet Directions with color boxes

- An XLSX file for Microsoft Excel containing the graph and the color key
 - The XLSX file contains three sheets: the color key, the graph with colors and symbols for each cell, the same graph with no symbols.

NOTE: If you do not like working with the colored graph, writing out directions will provide another alternative. If you are interested in having directions

written for other types of graphs, please contact me and let me know what you would like to have.

To download your selection:

- 1) Select Download from the Project dropdown menu. The Download Image Settings dialog will be displayed.

Download Image Settings

Select options, then select Download

Heavy lines on grid

☒ None ☐ Every 5 ☐ Every 10 ☐ Every 20

☐ Custom - Every cells ☐ Print Crosshairs

Numbering

☐ Normal ☐ From center ☒ C2C

Number from corner:

Cell Appearance

☐ Small Cells ☐ Medium Cells ☒ Large Cells

☒ Print Texture

☒ Print Symbols over colors ☐ No Regular Grid Lines

☒ Auto-Generate Symbols ☐ Assign Symbols to Colors

Figure 44: Download Image Settings dialog

This dialog contains three areas:

- **Heavy Lines on Grid** – heavy lines drawn over the lighter grid lines to break up the grid into area. The options here are the same as the options for the Display > Rule Lines option. See the [Rule Lines section](#) for more information. In addition, you can turn the printing of Crosshairs on and off here also. See more about Crosshairs [here](#)..
- **Numbering** – options for controlling the way numbering appears around the edges of the project. Numbering is always shown for printing. The numbering options are the

same as in Display > More Options. See the [More Options section](#) for more information.

- **Cell Appearance** – cell appearance can be controlled for printing. The Cell Appearance options are generally the same as shown in Display > More Options. See the [More Options section](#) for more information.
 - You may also turn regular grid lines on and off with the No Regular Grid Lines checkbox.
 - You may turn texture on and off. You may include texture at the same time as adding Symbols. If you have both of these selected, it is suggested that you use the Large Cell size.

Select the options you want for your download image, then click the Download button. The Download Project Image dialog will be displayed.

- 2) There will first be a message saying it is generating the image data:

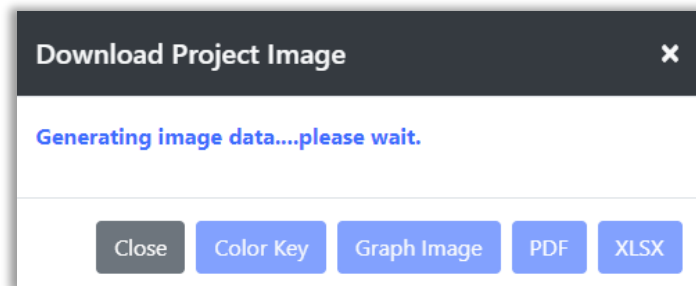


Figure 45: Generating Image Data for download

- 3) When it is done generating the image, it will display:

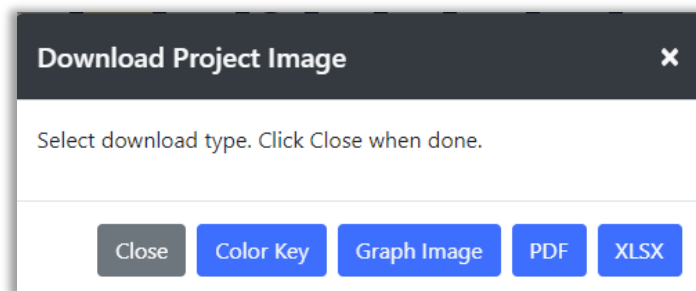
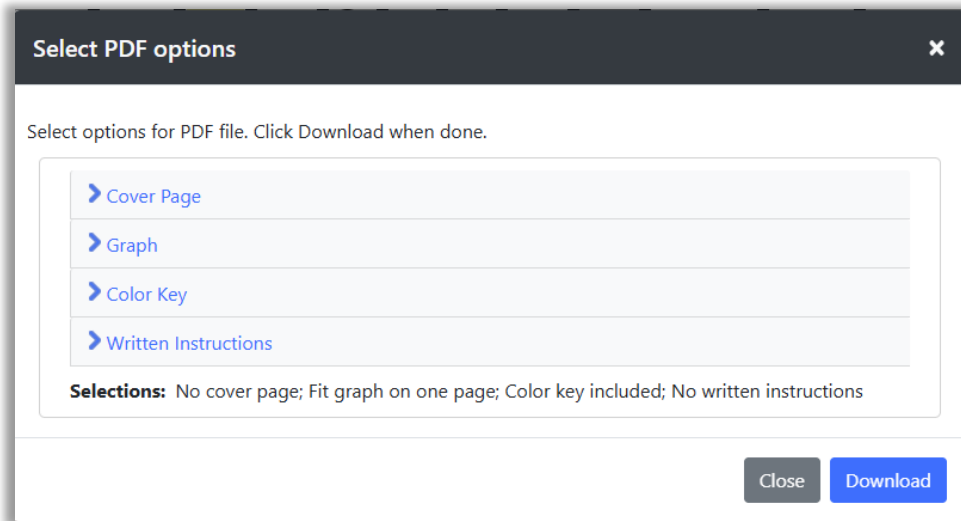


Figure 46: Ready to download image

- 4) Select the option you want: click the type of download you are interested in. The browser will handle the download for the Color Key, Graph Image and XLSX file. If the PDF option is selected, another dialog will be displayed, asking what you would like to include in the pdf.



Select PDF options [X]

Select options for PDF file. Click Download when done.

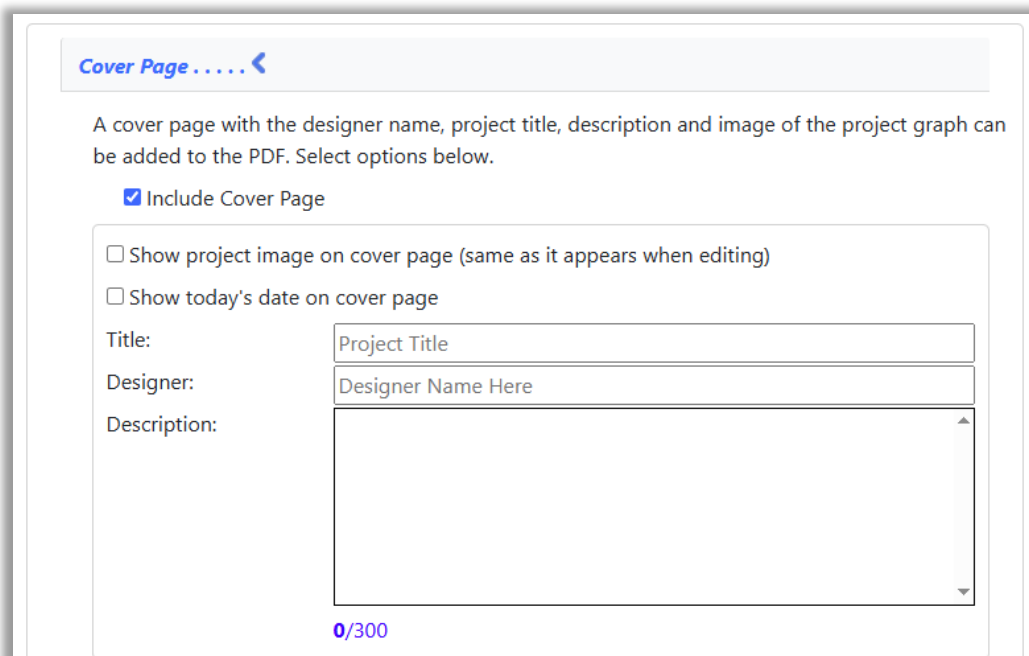
- > Cover Page
- > Graph
- > Color Key
- > Written Instructions

Selections: No cover page; Fit graph on one page; Color key included; No written instructions

[Close] [Download]

Figure 47: PDF Options

Each section can be opened by clicking on it. For instance, to elect to include a cover page with information about your project, click on the Cover Page section. This will open to show the following:



Cover Page <

A cover page with the designer name, project title, description and image of the project graph can be added to the PDF. Select options below.

☒ Include Cover Page

☐ Show project image on cover page (same as it appears when editing)

☐ Show today's date on cover page

Title:

Designer:

Description:

0/300

Figure 48: Cover Page section of PDF Options

Select those options you would like on your cover page. If you do not want to see Title, Designer or Description, just leave that area blank.

The Graph section allows you to turn off the graph in the output or draw the graph either to fit into a single page or on multiple pages.

The Color Key section allows you to turn the color key on and off.

The Written Instructions section allows you to select written instructions. These are available for either crochet or as generic instructions that list colors in each row. You may set these for either right or left-handed work. Right-handed work starts in the lower right corner and left-handed work starts in the lower left corner.

You may also intersperse the written directions with color boxes and select options for how you would like the text/boxes to appear:

Written Instructions <

☒ Add Written Directions:

Colors <

The section defines how the color is displayed in the written directions.

- ☒ Show text color name or symbol only
- ☐ Show color as colored box only
- ☐ Show text color name or symbol in colored box
- ☐ Show text color name or symbol along with number of sts,holes,etc. in colored box
- ☐ Show number of sts,holes,etc. in colored box, no color name or symbol

> Crochet

> Generic Color Listing

Figure 49: Written Instructions in PDF Options

Your selections are summarized at the bottom.

Selections: Cover page included with image with date ; Full graph; Color key included; Add written instructions as hdc crochet directions with right hand; Colors shown as color box only

Figure 50: Summary PDF Options

Review the summary of what you have selected and click the Download button. The browser will handle the download to your device.

If you select to “Add yarn yardage estimate” in the Written Directions for Crochet section, you will need to do a simple measurement of the yarn used in a small amount of your work. See the directions and videos on <https://freese-works.com/get-a-yarn-estimate-for-graphghan-projects> page for more information.

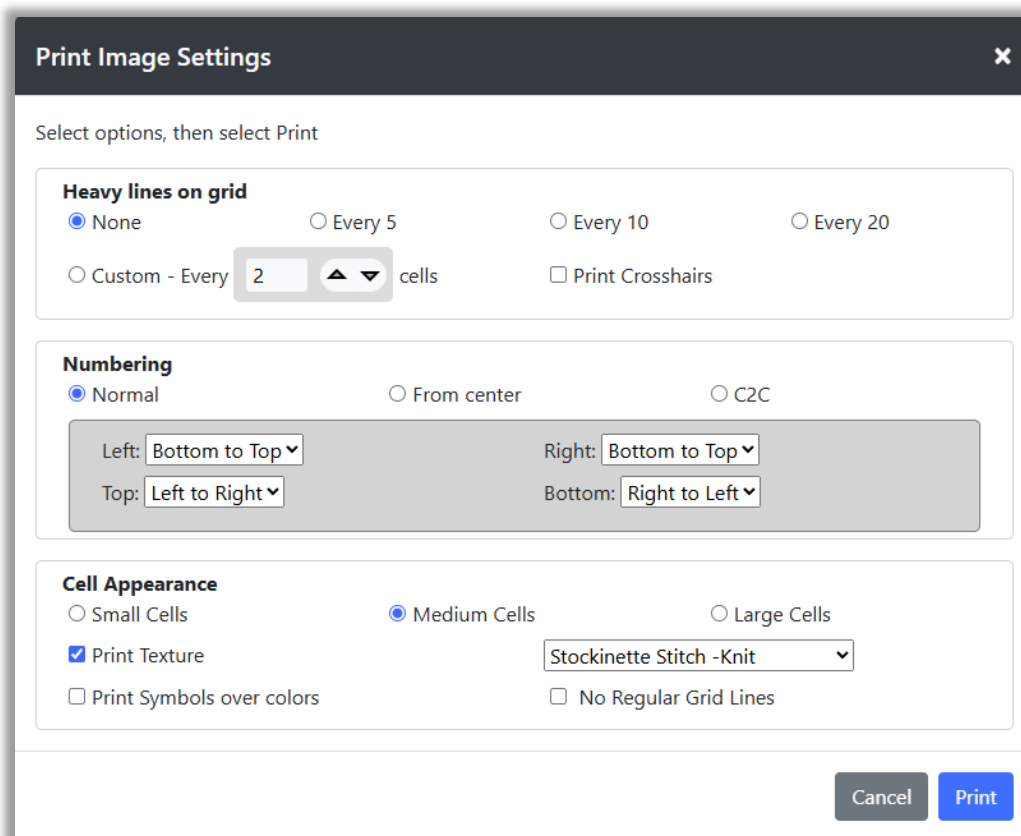
- 5) Click Close to close the Download Project Image dialog if it is still visible after your download.

Print your project image

You may also print your project image.

To print your project image:

- 1) Select Print from the Project dropdown menu. The Print Image Settings dialog will be displayed.



The image shows a 'Print Image Settings' dialog box with a dark header bar containing the title and a close button. The main area is white and contains three sections of settings. The first section, 'Heavy lines on grid', has radio buttons for 'None' (selected), 'Every 5', 'Every 10', and 'Every 20', plus a 'Custom - Every' option with a text input set to '2' and a 'Print Crosshairs' checkbox. The second section, 'Numbering', has radio buttons for 'Normal' (selected), 'From center', and 'C2C', and a grid of four dropdown menus for 'Left', 'Right', 'Top', and 'Bottom' directions. The third section, 'Cell Appearance', has radio buttons for 'Small Cells', 'Medium Cells' (selected), and 'Large Cells', a 'Print Texture' checkbox (checked), a 'Print Symbols over colors' checkbox, a 'Stockinette Stitch -Knit' dropdown menu, and a 'No Regular Grid Lines' checkbox. At the bottom right are 'Cancel' and 'Print' buttons.

Print Image Settings [X]

Select options, then select Print

Heavy lines on grid

☒ None ☐ Every 5 ☐ Every 10 ☐ Every 20

☐ Custom - Every cells ☐ Print Crosshairs

Numbering

☒ Normal ☐ From center ☐ C2C

Left: Right:

Top: Bottom:

Cell Appearance

☐ Small Cells ☒ Medium Cells ☐ Large Cells

☒ Print Texture

☐ Print Symbols over colors ☐ No Regular Grid Lines

[Cancel] [Print]

Figure 51: Print Image Settings dialog

This dialog contains three areas:

- **Heavy Lines on Grid** – heavy lines drawn over the lighter grid lines to break up the grid into area. The options here are the same as the options for the Display > Rule Lines option. See the [Rule Lines section](#) for more information. In addition, you can turn the printing of Crosshairs on and off here also. See more about Crosshairs [here](#).
- **Numbering** – options for controlling the way numbering appears around the edges of the project. Numbering is always shown for printing. The numbering options are the same as in Display > More Options. See the [More Options section](#) for more information.
- **Cell Appearance** – cell appearance can be controlled for printing. The Cell Appearance options are generally the same as shown in Display > More Options. See the [More Options section](#) for more information.
 - You may also turn regular grid lines on and off by checking the No Regular Grid Lines checkbox.
 - You may turn texture on and off with the Print Texture checkbox. If you choose both texture and symbols it is suggested that you user the Large Cell size.

Select the options you want for your print-out, then click the Print button. The Print Design dialog will be displayed.

- 2) There will first be a message saying it is generating the data:

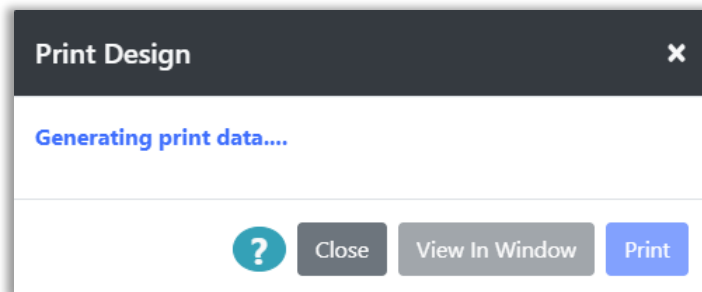


Figure 52: Generating print data

- 3) When it is done generating the data, it will display:

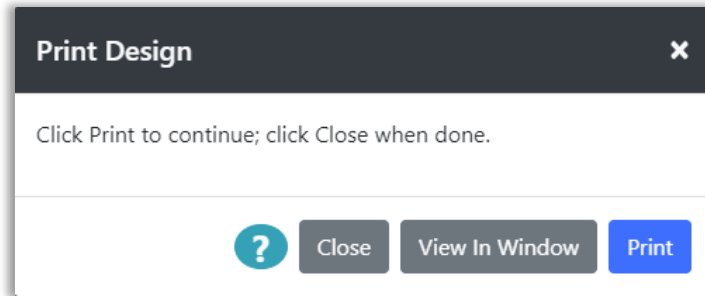


Figure 53: Ready to Print

- 4) If you are on a desktop computer, click the Print button to print.
- 5) This will bring up a browser-specific window from which you can select your printer. In some browsers you can view the pattern to be printed before selecting the final print.
- 6) If your current browser does not allow you to view what will be printed before printing, or you are using a phone or tablet, you can select the View In Window option.
- 7) The View In Window options will open a new browser window containing the images to be printed. You may then print them from that browser window using the browser or any utility that you would normally use to print a web page.
- 8) When you are done printing or viewing the design, click the Close button to close the Print Design window.

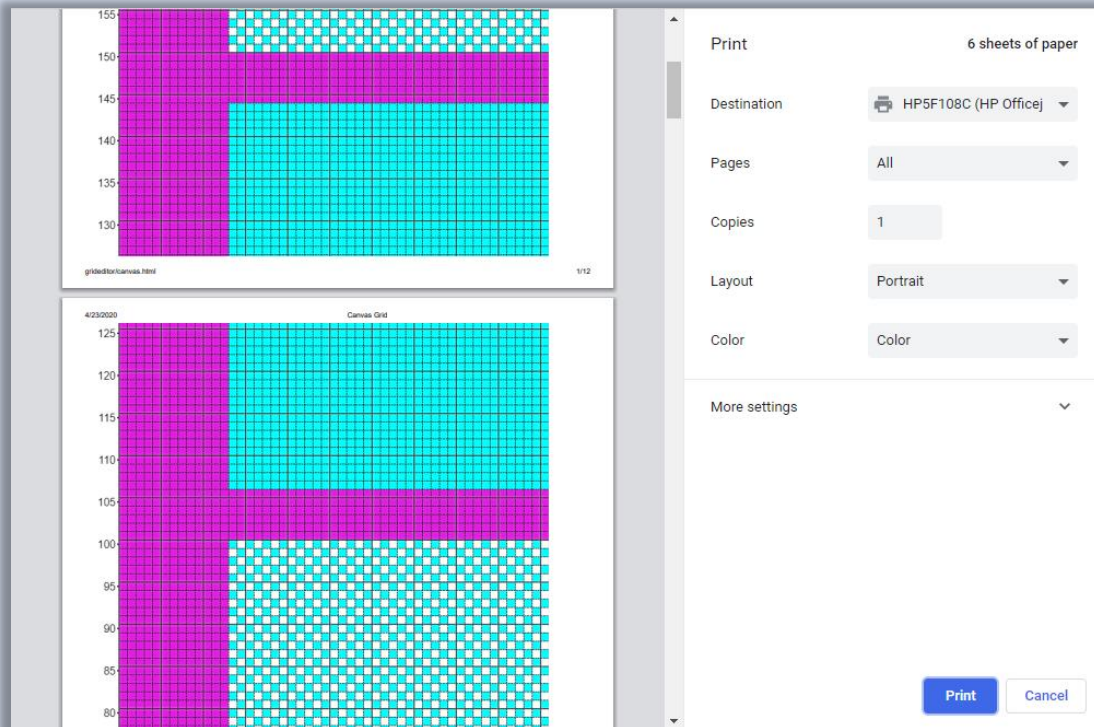
If you are working with a large grid, the image will be broken up into multiple pages so that it will fit onto printer paper and the grid will be readable. The resulting pieces can be cut out and assembled together using tape to form a single large grid diagram.

When the grid is printed, numbering will be added to the borders of the diagram for ease of use.

NOTE: You may also use the Project → Download option to download the same image that is printed, without the image being broken up into pages. This image can be printed in any way you choose, including printing at a facility where it can be printed on oversized paper. See the [Download](#) section for more information.

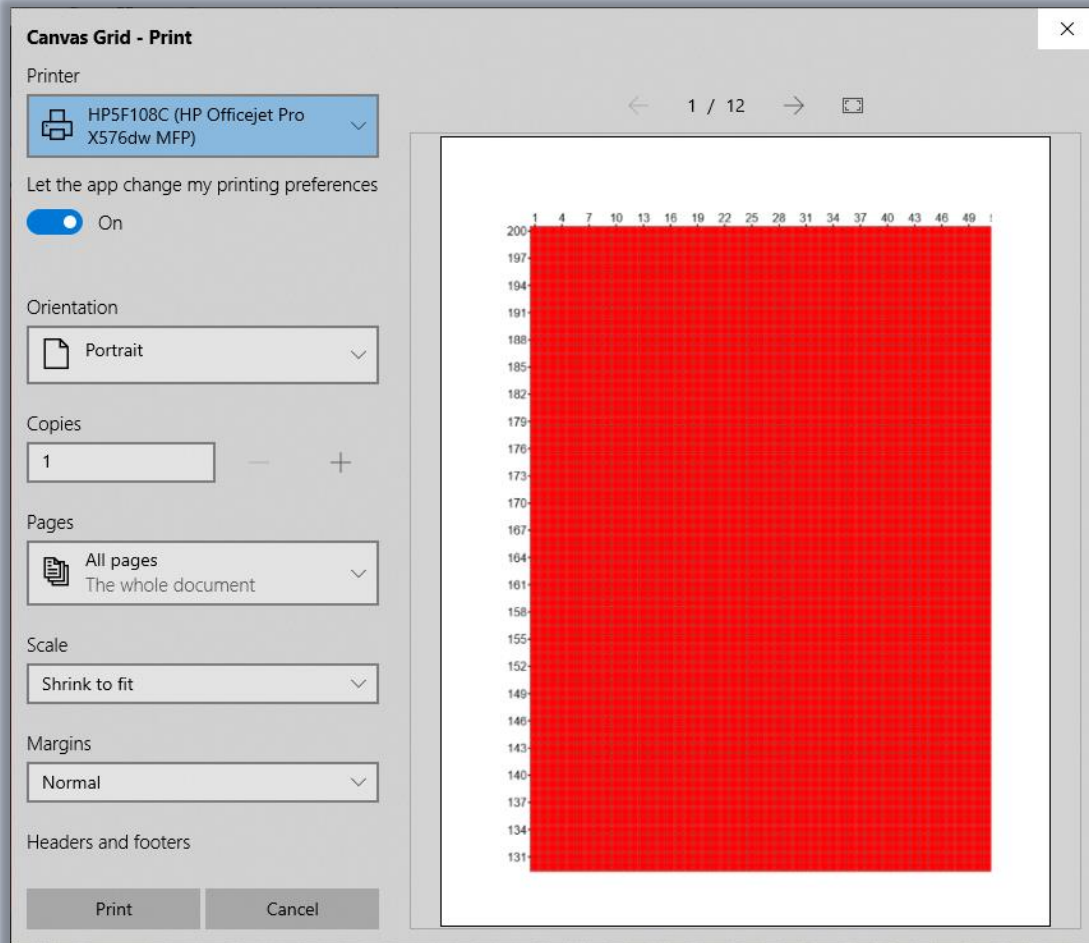
Example

If we are using Google Chrome for our browser on a Windows computer. We will see the following when we click the Print button on the Print Design dialog.



Google Chrome shows the pages that will be printed with the design so they can be reviewed before printing.

Microsoft Edge will also show the pages that will be printed with the design. If we use Microsoft Edge, to print a large project, we will see something like the following:



Here there are 12 pages to print. We can review them before printing.

If we are using Firefox as our browser, the pages are not shown as part of the browser's print support. To see the pages in Firefox, select the View in Window button. This will open a separate window with the images to be printed. The images can then be printed from there.

View Project Information

You can view your project information at any time using the Project → Project Info option or by clicking the project name on the upper left of the screen.

Some project information is always shown on the upper left of the screen. The project name (if set) and the size of the project will show there. If the project is not saved an asterisk will show after the

project name. You can click on the project name and size information on the upper left of the screen to display the Project Info dialog.

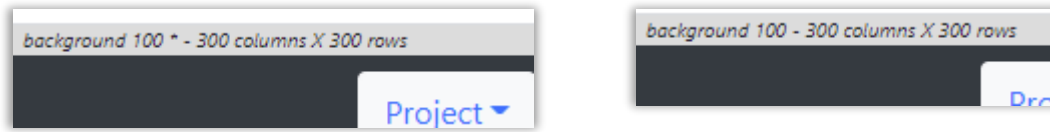


Figure 54: Project Info Unsaved (Left) and Saved (Right)

To view project information:

- 1) Select the Project Info option from the Project dropdown menu or click on the project name in the upper left corner of the screen.
- 2) The Project Info dialog will be displayed.

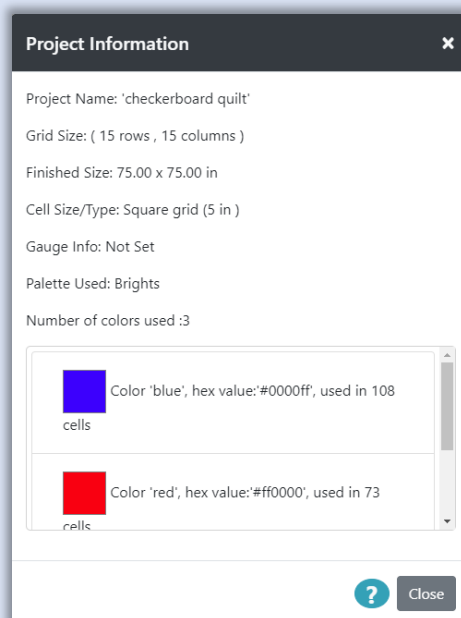
The Project Info dialog displays the following information:

- a) **Project Name** – if the project name is not set, it will display as Undefined
- b) **Grid Size** – shows number of rows and columns in the current grid
- c) **Finished Size** – if the size of a grid cell is defined in inches or centimeters either through directly setting the size on the cell or through defining a gauge, then the finished size of the entire grid will be computed and shown here.
- d) **Cell Size/Type** – Size of each cell will be shown in inches or centimeters, if defined through either directly setting the size of the cell or through defining a gauge. If cells are square with no defined size, it will indicate “Square grid”.
- e) **Gauge Info** – If a gauge has been defined, the information will appear here.
- f) **Palette Used** – Name of palette being used
- g) **Colors Used** – Number of colors used and list of colors currently used in the project with the number of cells using each color.

Example

Here are some examples of how the information appears for different types of projects.

A square grid with the sizes of the squares defined as 5 inches, for a quilting project would look as follows:



Project Information [X]

Project Name: 'checkerboard quilt'

Grid Size: (15 rows , 15 columns)



Finished Size: 75.00 x 75.00 in

Cell Size/Type: Square grid (5 in)

Gauge Info: Not Set

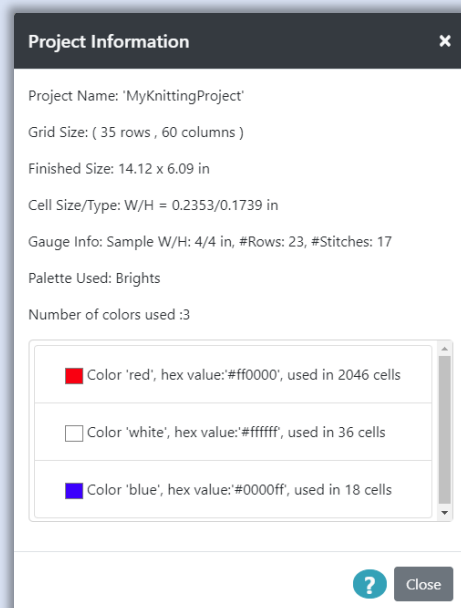
Palette Used: Brights

Number of colors used :3

	Color 'blue', hex value:'#0000ff', used in 108 cells
	Color 'red', hex value:'#ff0000', used in 73 cells

[?] Close

A grid that was set up with the default knitting settings for gauge, would look like this:



Project Information [X]

Project Name: 'MyKnittingProject'

Grid Size: (35 rows , 60 columns)




Finished Size: 14.12 x 6.09 in

Cell Size/Type: W/H = 0.2353/0.1739 in

Gauge Info: Sample W/H: 4/4 in, #Rows: 23, #Stitches: 17

Palette Used: Brights

Number of colors used :3

	Color 'red', hex value:'#ff0000', used in 2046 cells
<input type="checkbox"/> 	Color 'white', hex value:'#ffffff', used in 36 cells
	Color 'blue', hex value:'#0000ff', used in 18 cells

[?] Close

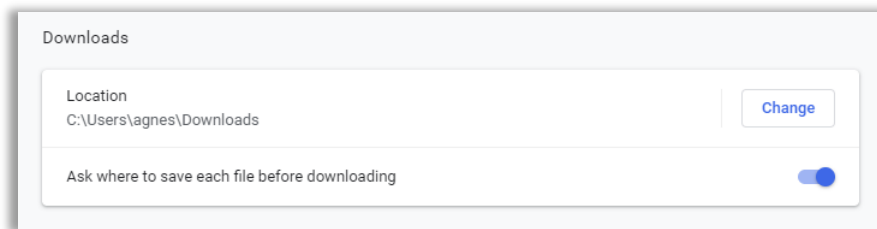
Export and Import

You can Export and Import your projects to and from files on your local file system. These files can be used as backups for your projects. Export and Import can also save your palette changes, if you have made any.

Export and Import files are the same format in both the Legacy and Cloud versions of Grid Designer and can be used in both, i.e. you can make a backup of projects from the Legacy Grid Designer and import it into the Cloud Grid Designer and vice versa.

While cloud storage for your projects should be very secure, there can always be unforeseen events that could cause a loss of data. It's always a good idea to back up your projects to files on your own device. The Export option can be used for this purpose.

NOTE: The following directions for Export depend upon settings in your browser for handling downloads. Generally, browsers provide a switch in their settings for downloads, that can be turned on to cause the browser to prompt for the filename and folder for the downloaded file. For instance, in Google Chrome, this switch appears under Settings → Advanced → Downloads.



The following directions for Export, assume that this type of switch in your browser is “on”, so that the browser will prompt you for a file name and folder for the file. The way that the browser prompts for this, is dependent upon the browser.

If a switch like this is not on, the file will be created as “projects.gridd” and will show up in the browser’s download folder. The location of the download folder is set in the browser’s settings or options. The file can be moved from the download folder to another folder and renamed as desired.

Backup and Restore Projects

To create a backup file containing all your projects:

- 1) Select the Export option from the project menu. The Export Project(s) to File dialog will be displayed.

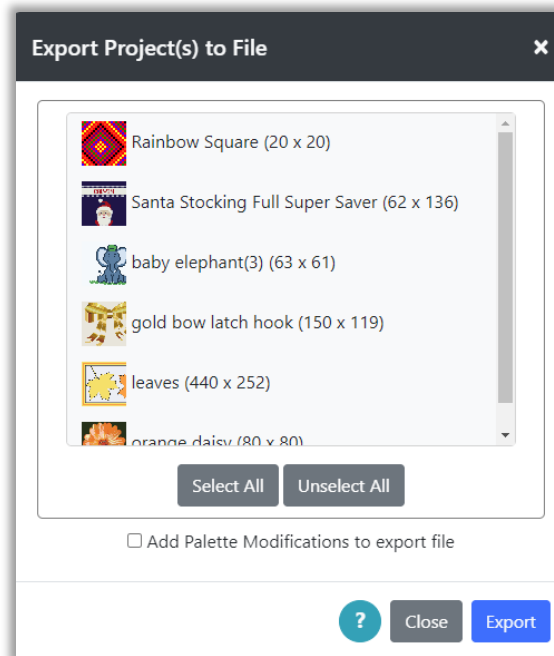


Figure 55: Export Dialog

- 2) Click the Select All button below the list of projects. This will select all the projects in the list. If you have modified palettes, check the Add Palette Modifications checkbox at the bottom. Projects contain quite a bit of palette data themselves, but to get everything, select the checkbox.
- 3) Click the Export button. The browser's dialog for downloading files will be displayed. The default name for an exported file is "projects.gridd". You may change the name to anything you would like, but it is a good idea to keep the ".gridd" extension name to make it easier to find your projects for import later.
- 4) Navigate to a folder, or create a folder on your computer/device where you would like to save the file. It's a good idea to make a note of where you have saved the file.
- 5) Click the Save or OK button on your browser's download dialog. The file will be written to your local file system in the folder selected.

To restore your projects from a backup file:

- 1) Select the Import option from the project menu. The Import Project(s) from File dialog will be displayed.

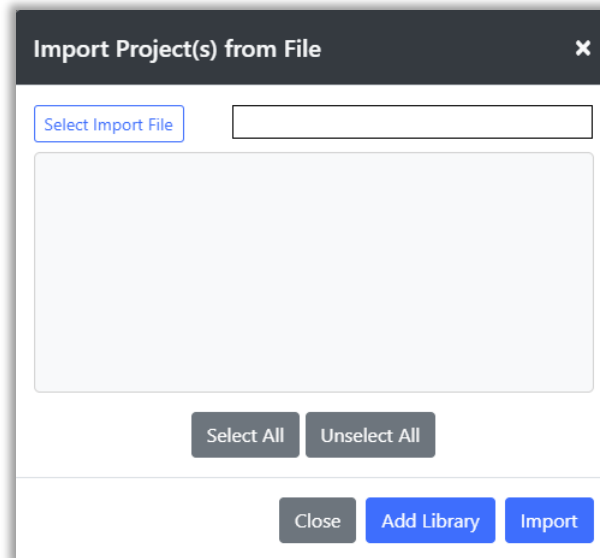


Figure 56: Import Dialog

- 2) Click the Select Import File button on the top left of the dialog. This will bring up a browser dialog so that you can locate the file you want to import. Select your backup file that you created with the Export option. The file should end with a ".gridd" if it was created by the Grid Designer.
- 3) Click the Open button on your browser's dialog. The file will be opened and the projects contained in it will appear in the list in the import dialog. If the file contains palette data, it will appear in the list also.

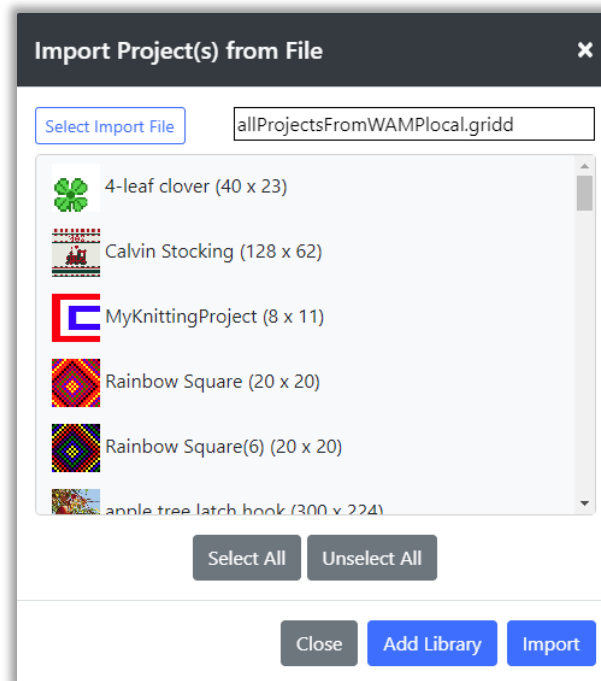


Figure 57: Import File Loaded

- 4) Click the Select All button below the list of projects/palette data. This will select all the projects in the list (all the projects in the file).
- 5) Click the Import button. The import button will load the projects from the file into cloud storage.
 - a. If a project in the file is the same as in your cloud storage, no change will be made for that project. You will see it listed as a duplicate.
 - b. If any projects in the file are different from a project of the same name in your cloud storage, the project will be saved under a slightly modified name.
 - c. Projects in the file that are not in main cloud storage will be created. Palette data will be loaded also, if selected.
- 6) A Results dialog will appear with the results of the import. This will list all the projects loaded and if palette data was loaded also. Close the results dialog when you have reviewed the results.

Editing

Editing the grid is handled with the drawing tools. The majority of these tools use the current settings of the foreground and background colors set in the toolbar. The Draw Symbol button and its related buttons use the setting of the current Design Symbol setting to the right of the color settings.



Figure 58: Foreground and Background colors

Foreground is set by the button on the left, background is set by the button on the right.

Foreground is used to draw; background is used to fill and erase.

When you create a project, or select a new palette, the background color is used to fill the grid in preparation for drawing on top of it with the foreground color.

When the default project is created the first time you use the Grid Designer, or when the refresh button is clicked, you are presented with a grid of 20 x 20 cells, colored red, the initial background color.

The foreground color is initially set to white.

Mode Buttons

On the bottom toolbar, you will find two kinds of buttons. Some have a white background and some have a pale golden background. Those with the pale golden background are called Mode Buttons.

Mode Buttons are used to initiate an action on the grid. After clicking these buttons, they turn a bright green to show they are active. They remain active until the user clicks on them again, or a specific action is taken with the mouse on the grid. So that the user will understand what action they are to take on the grid, an informational popup is displayed the first time the user clicks that button.

For instance, if the user clicks the pencil button, the following informational dialog is displayed with a hint:

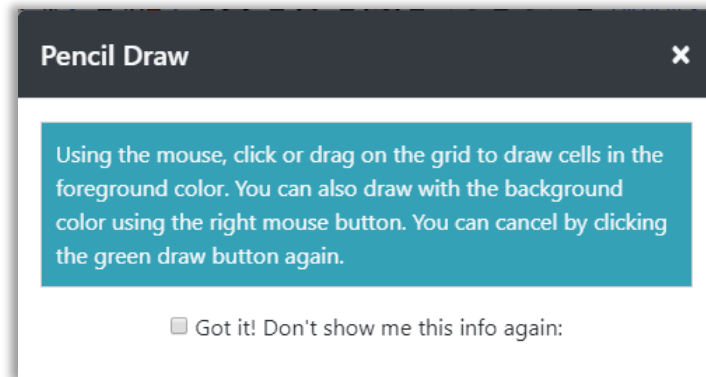


Figure 59: Hint Dialog

If you do not want to see the dialog again, click the “Got it!” checkbox before closing the dialog.

If you would like to see the hint dialogs again, perhaps if you have forgotten how to do something, select the Enable Hints option from the Help menu.

When no mode button is active, the Grid Designer will show an open hand icon when the mouse is over the grid. This hand icon indicates that you can grab the grid and move it anywhere in the screen area.

Drawing Tools

All of the drawing tools are Mode Buttons and work in a similar way:

- 1) Select the button you want to use. Different fill buttons can be selected by clicking the arrow button next to the fill bucket. Different symbol drawing options can be selected by clicking the arrow button next to the Draw Symbol button.
- 2) Either a dialog or a hint popup will come up to tell you what to do next.
- 3) Some buttons have a single action to perform on the grid and then de-activate afterwards. Some buttons stay active until you click them again.

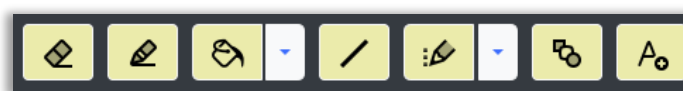


Figure 60: Drawing Tools

From left to right, the figure above shows the following tools: Eraser, Pencil, Fill options, Line, Draw Symbol options, Shape, and Text. These tools will be discussed in this section.

Pencil and Eraser

The pencil and eraser are used for free-hand drawing. They do the following:

- **Pencil:**
 - Click or drag the mouse on the grid when the pencil is active (green).
 - When active the left mouse button will draw with the foreground color.
 - When active the right mouse button will draw with the background color.
- **Eraser:**
 - Click or drag the mouse on the grid when the eraser is active (green).
 - When active, both mouse buttons will draw with the background color.

The width of the pencil and eraser may be set with the [line size](#) value.

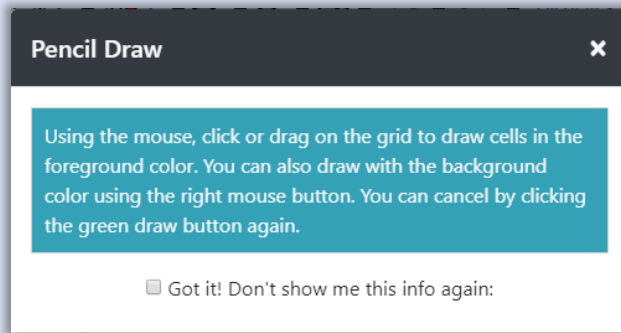
To use the Pencil or Eraser:

- 1) Select the pencil or eraser button.
- 2) A hint dialog may be displayed with directions. Read and click the “Got it!” checkbox if you do not want to see the information again. Dismiss the dialog.
- 3) Click a cell on the grid or drag the mouse across cells on the grid to paint with the associated color.
- 4) When done, select the active pencil or eraser button again to de-activate.

Example

With the default project loaded (either after going to the Grid Designer initially or by clicking the browser’s refresh button), click the Pencil button on the bottom toolbar.

The informational popup comes up.

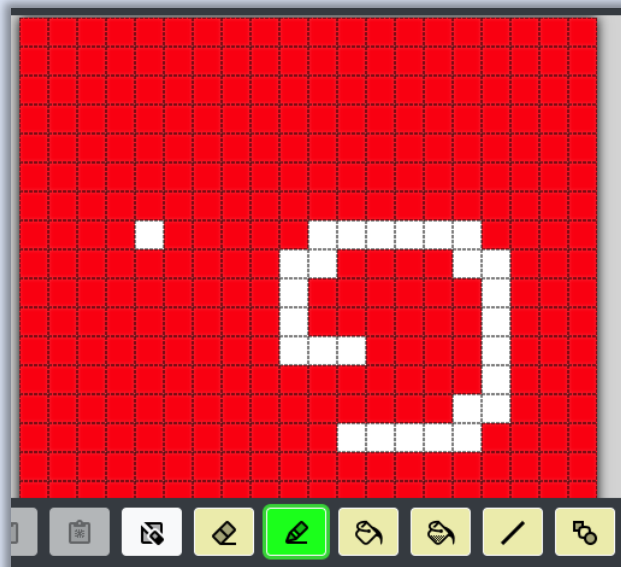


Click the “Got it!” checkbox if you don’t want to see this hint again, and close the popup.

The Pencil button will become green to show it is active. Depending upon your browser you will either see a pencil icon when the mouse is moved over the grid or a pointer finger icon.



Click the mouse in one cell on the grid with the left mouse button and it will paint that cell white. Press the left mouse button down and drag and it will paint white in whatever cells you drag over, until you release the mouse button.

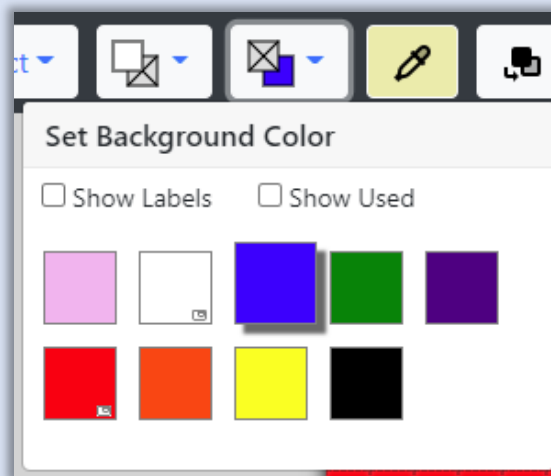


Click the right mouse button over a white cell and it will paint the cell red. Press the right mouse button down and drag it across some white cells; it will paint red in whatever cells you drag it over, until you release the mouse button.

This functionality with the left and right mouse buttons allows you to:

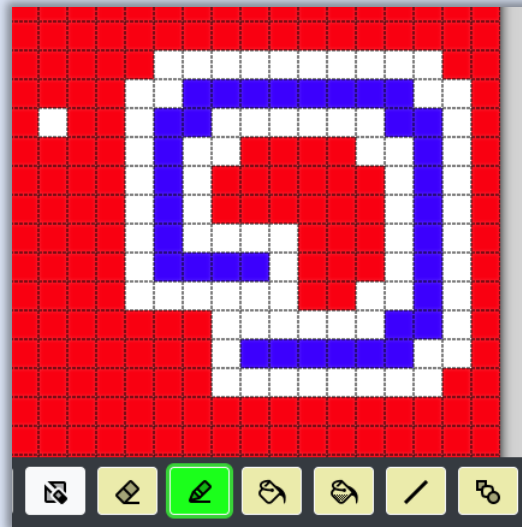
- Draw and erase without switching back and forth between the pencil and eraser tools.
- Draw with 2 colors quickly, when you set the background color to something other than your main background

Now, set the background color to blue, by clicking the background color button in the top toolbar and selecting blue from the dropdown.



The background color will show as blue. Note that changing the background color to another color for a short time is fine. It will not automatically fill the red color that was the original background color.

Draw white with the left mouse button and blue with the right mouse button.



I call it the “two-fingered fast draw”, LOL!

With the background color still set to blue, click the eraser button, to the left of the pencil. Another hint dialog will popup, click the “Got it!” button if you want and close that dialog. The eraser button will now be active and green.



Draw with the eraser tool on the grid. Notice that it is painting blue now. It paints the background color selection. If you are on a tablet or phone, using the eraser tool is a quick way to paint with a second color, since you cannot do the “two-fingered fast draw” without two mouse buttons. You will have to switch from eraser to pencil, though.

Set the background color back to red and draw again with the eraser, the eraser is now erasing and painting red in the grid.

Fill Tools

To the right of the pencil is a fill tools button. Click the fill bucket to invoke the default fill tool or click the arrow to the right of the fill bucket and a list of tools will popup. Select the tool you want from the list. The last selected tool will replace the fill bucket and you can easily reselect it later.

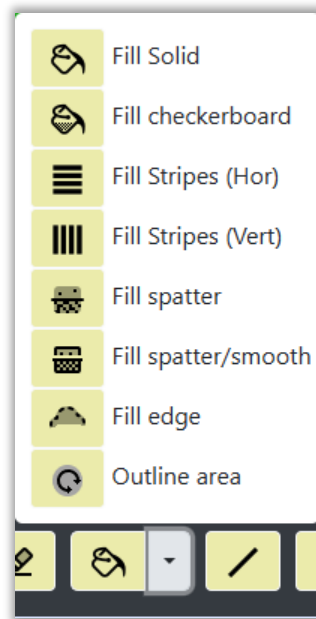


Figure 61: Fill Tools

More specifically:

- **Fill Solid**
 - Fills a contiguous area with a color
 - Left mouse button fills with foreground color
 - Right mouse button fills with background color
- **Fill Checkerboard**
 - Fills a continuous area with a checkboard
 - Both left and right mouse buttons create a checkerboard with the foreground color.
 - The [line size](#) on the bottom toolbar is used to determine the size of the checks.
- **Fill Stripes (Hor), Fill Stripes (Vert)**
 - Fills a continuous area with either horizontal or vertical stripes
 - Both left and right mouse buttons create stripes of the foreground color on the existing background.
 - The [line size](#) on the bottom toolbar is used to determine the width of the lines.
- **Fill Checkerboard**
 - Fills a continuous area with a checkboard

- Both left and right mouse buttons create a checkerboard with the foreground color.
 - The [line size](#) on the bottom toolbar is used to determine the size of the checks.
- **Fill Spatter**
 - Fills a contiguous area with a color and will also fill single cells that are surrounded by that color
 - Left mouse button fills with foreground color
 - Right mouse button fills with background color
- **Fill Spatter/Smooth**
 - Fills a contiguous area with a color, fills single cells that are surrounded by that color and also smooths the edges of the fill area
 - Left mouse button fills with foreground color
 - Right mouse button fills with background color
- **Fill Edge**
 - Fills cells between a foreground color area and a background color area with the fill color.
 - Left mouse button fills with foreground color
 - Right mouse button fills with background color
- **Outline Area**
 - Outlines the inside or outside of a selected area. This is described in more detail in the following section [Outline Area Tool](#).
 - The [line size](#) on the bottom toolbar is used to determine the thickness of the outline.

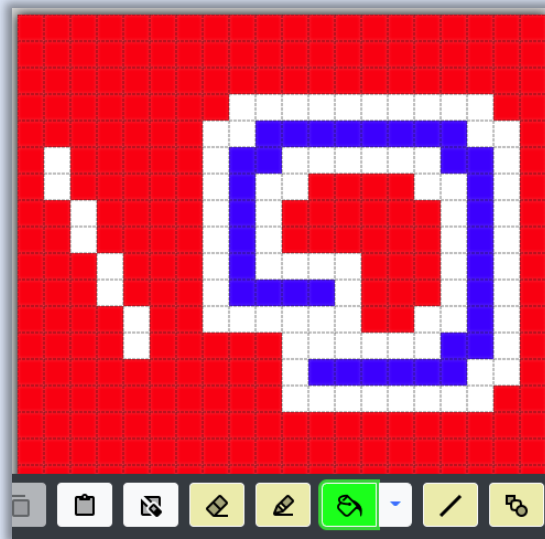
To use the fill tools:

- 1) Select the fill tool you want. That tool will replace the fill bucket on the main toolbar and will become green, showing it is active.
- 2) A hint dialog may be displayed with directions. Read and click the “Got it!” checkbox if you do not want to see the information again. Dismiss the dialog.
- 3) Click on an area on the grid that you would like to fill or outline.

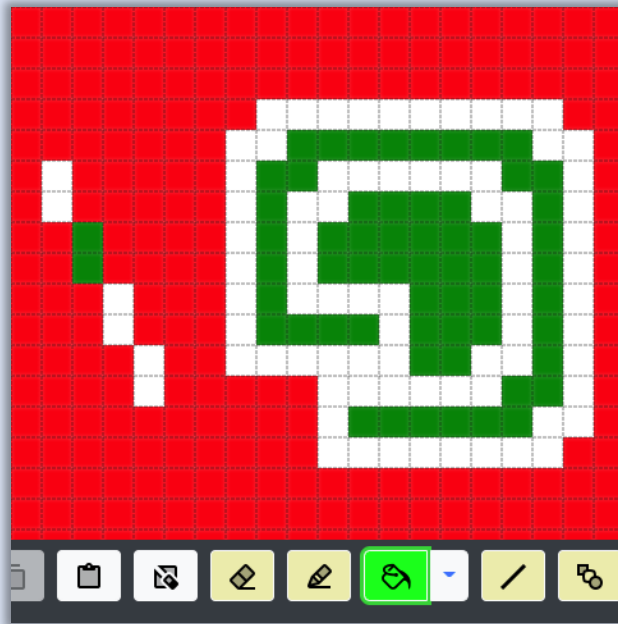
- 4) When done, click the active fill tool button to de-activate the tool. The last selected tool will now appear in the main toolbar where you can select it without opening the popup.

Example

Let's take a look at how the fill tools work. Here is my picture after playing with the pencil and eraser tools in the previous section:

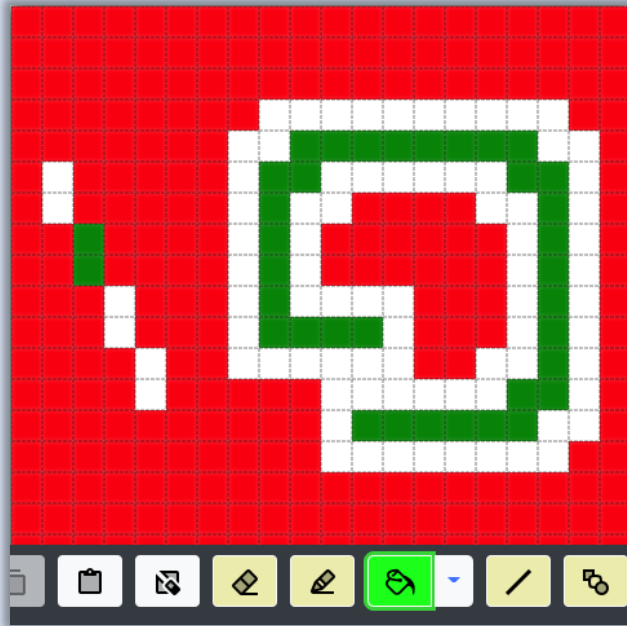


When I select the Fill Solid button, the usual hint dialog appears. After it is dismissed my Fill Solid button is active. Let's try the fill tool to see how it works. I set the foreground color to green and click on various areas:

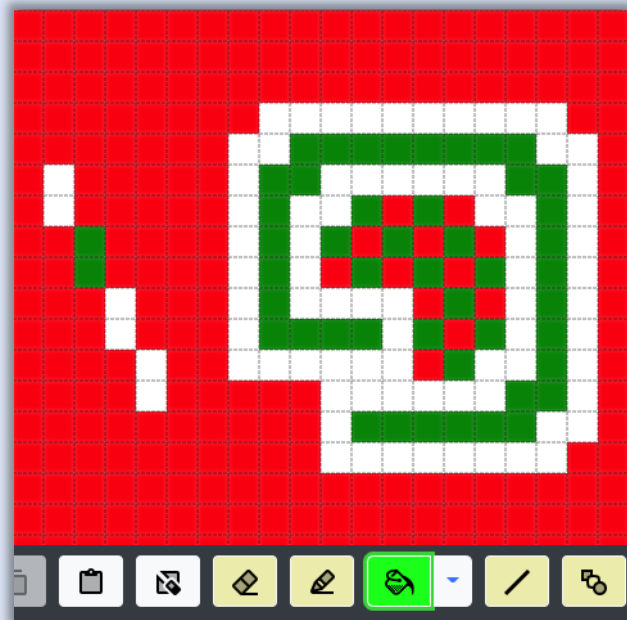


With the left mouse button, I click on the center of the blue and white swirl and it turns green. I click on the blue and it fills with green. Next, I click on the second white bar on the left and it turns green. Notice that the other white areas that are connected diagonally to the white bar are not affected. The fill tool works only on cells areas of the same color that are connected directly, either side to side or top to bottom.

If I click the center again with the right mouse button, it fills with red. Again, sort of a two-fingered fast fill is possible here, as it was with the pencil tool. You can temporarily set the background color to use both left and right mouse buttons to fill with two colors other than the original background.

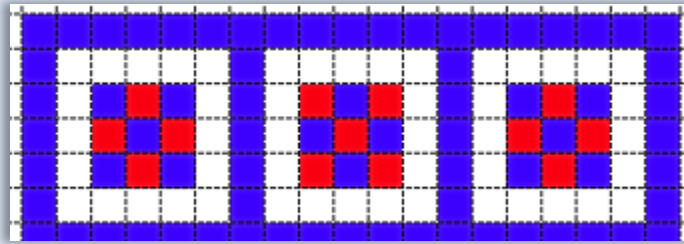


Now, I click on the arrow next to the fill bucket and select the Fill Checkerboard tool (hint dialog comes up, dismiss) and it becomes active. If I click again in the center of the swirl, I get:



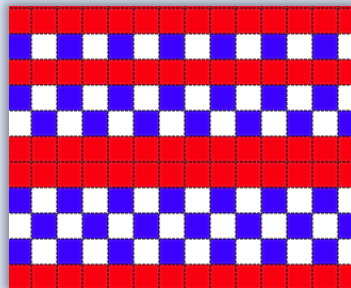
A checkerboard fill with the foreground color. In this case, the checkerboard in green is interspersed with the background color red, if the swirl area had been filled with blue, the checkerboard would be green and blue. It uses whatever color exists, as the other color, not the background color.

You can control exactly what cells are colored with the foreground color. The cell that you click on with the Fill Checkerboard tool will always be the foreground color and the pattern will start from that cell. In this way you can create alternate checkerboards like below:

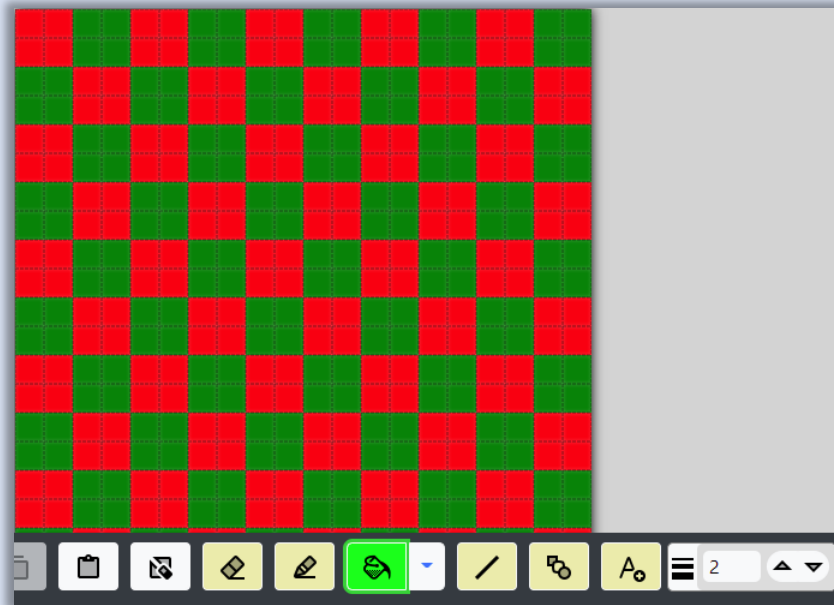


Note that the checkerboard pattern alternates from square to square.

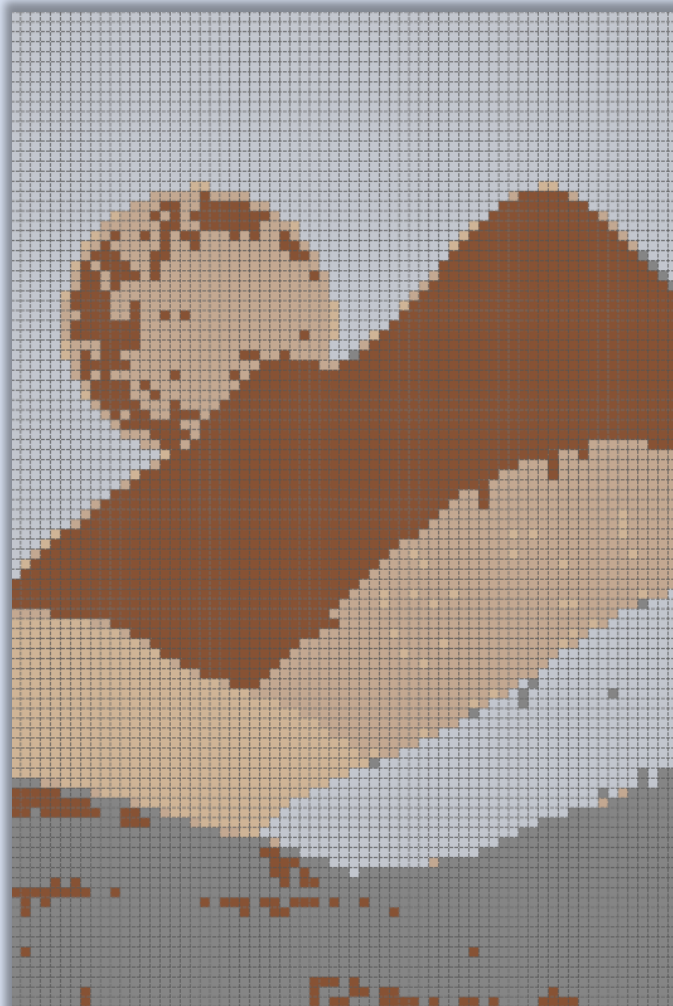
Filling in lines creates dashed stripes:



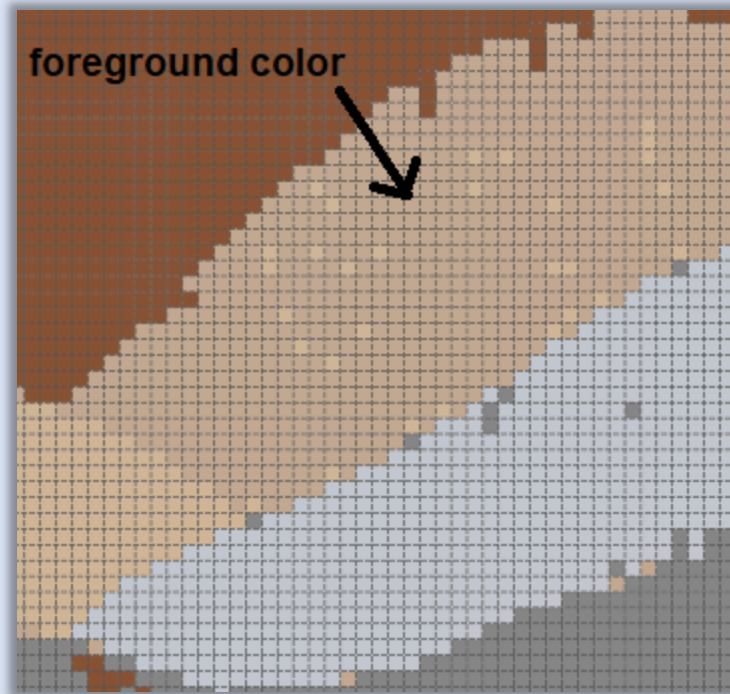
The size of the checks can be controlled with the line size value (on the bottom toolbar to the right). For instance, in the picture below, the line size is set to 2 and then the entire 20x20 grid is filled with the checkerboard tool.



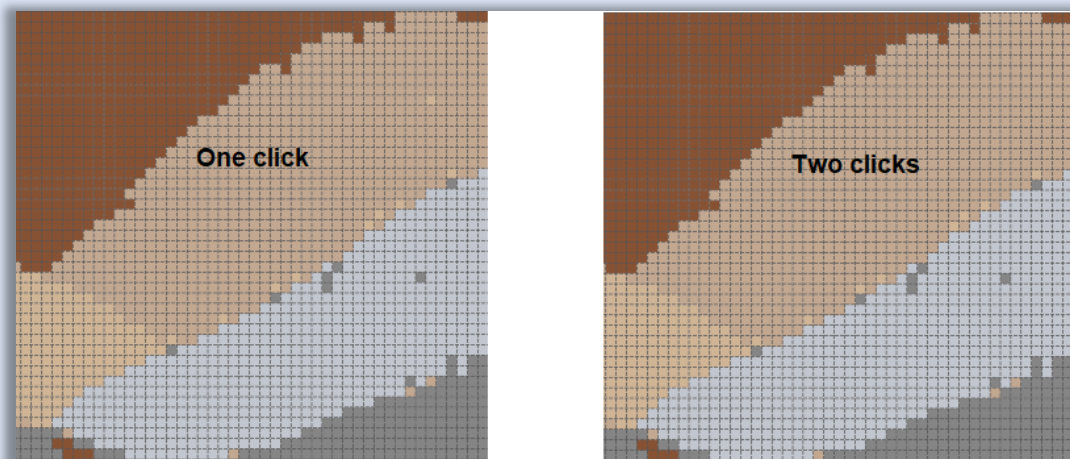
Fill Spatter, Fill Spatter/Smooth and Fill Edge are intended for cleanup after digitizing a photo. Let's use this digitized hill image to show what these tools do:



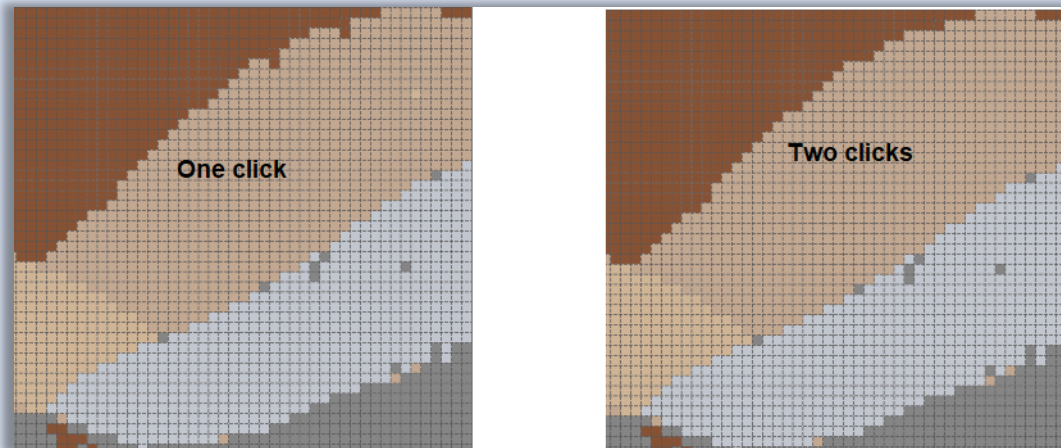
Fill Spatter: The Fill Spatter tool targets single cells of a different color located in the fill area. Let's look at it's use on this area of the example image:



Set the foreground color to the area indicated in the image above. Then, with the Fill Spatter tool selected, click with the left mouse button on the area. This will result in the following:

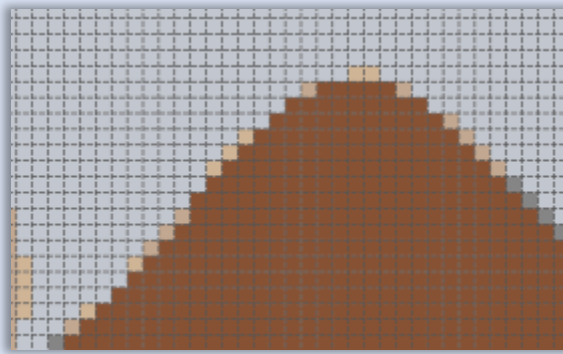


Clicking again can result in more spatter removal. Now, let's use the Fill Spatter/Smooth tool on the same area:



Notice that the Fill Spatter/Smooth has a very similar effect on the internal spatter, but also smooths the edges of the fill area.

Now, let's look at the Fill Edge tool. This tool is intended to remove colors around the edges of a colored area. Let's look at the top edge of our hills example:

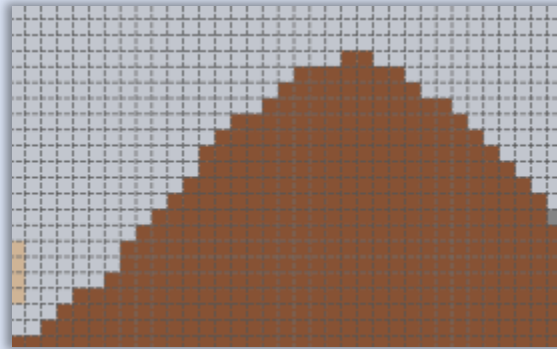


The area between the brown and the gray background has an edge of other colored cells we'd like to remove. These are often created by digitizing an image, because of anti-aliasing in the original image or photo around the edges of color changes. The Fill Edge tool will remove these colored cells. We can fill them either with the gray background or with the brown.

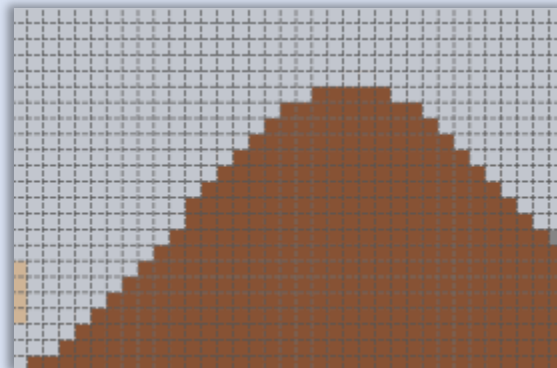
Before we can use the tool, **we need to set the foreground and background colors to the brown and gray**. This is easiest to do with the dropper tool on the top toolbar to select each color and set

it as foreground and background. The Fill Edge tool will then work on cells that are between the brown and the gray, i.e. between areas of the foreground and background colors.

With the brown set as foreground and the gray set as background, we select the Fill Edge tool and left click on the brown area, the edge cells will be filled with brown.



OR, with the brown set as foreground and the gray set as background, we select the Fill Edge tool and RIGHT click on the gray area, the edge cells will be filled with gray instead. You can get the same effect by switching the foreground and background colors and left-clicking on the gray area.



Outline Area Tool

The outline area tool can be selected from the popup next to the fill bucket, see section [Fill Tools](#):



Figure 62: Outline Area tool

This tool draws an outline around the border of a selected area:

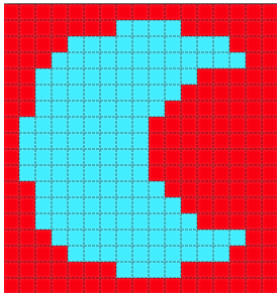
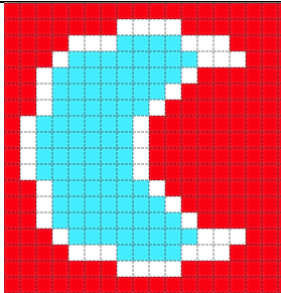
- Left mouse button draws with foreground color
- Right mouse button draws with background color

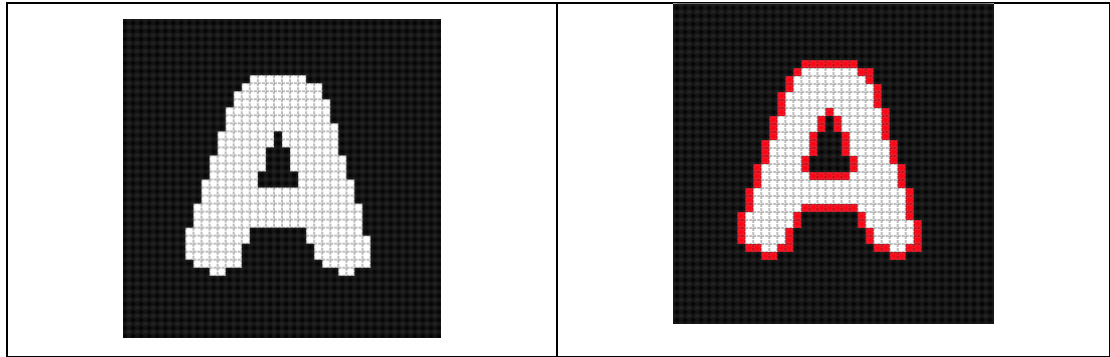
The [line size](#) setting determines the thickness of the outline.

To use the Outline Area tool:

- 1) Select the Outline Area tool button from the fill bucket popup. The button will turn green when it is active.
- 2) A hint dialog may be displayed with directions. Read and click the “Got it!” checkbox if you do not want to see the information again. Dismiss the dialog.
- 3) Click on an area on the grid that you would like to outline. The area is outlined with either the foreground or background color, depending on the mouse button used. The outline thickness can be controlled by setting the line size or by clicking again to add another layer.
- 4) When done, click the active (green) outline area tool button to de-activate the tool.

Here are some before and after examples of the outline tool:

Before Outline	After Outline
	



Note that the examples above are created by clicking within the given shape and letter. *An outline can also be drawn around the outside* of an object by clicking in the area outside.

Line Tool

The Line Tool is to the right of the fill tools. It allows you to draw lines on the grid.



Figure 63: Line Tool

- **Line Tool**
 - Draws a line of grid cells from the starting cell to where you release the mouse.
 - Left mouse button draws the line in foreground color
 - Right mouse button draws the line in background color

The thickness of the line tool can be controlled with the [line size](#) setting.

To use the Line Tool:

- 1) Click the Line Tool on the bottom toolbar.
- 2) A hint dialog may be displayed with directions for drawing the line on the grid. Read and click the “Got it!” checkbox if desired and dismiss.
- 3) Place the mouse over the grid cell where you would like the line to start.

- 4) Press the left or right mouse button to choose foreground or background color and drag the line to where you would like the line to end on your grid.
- 5) Let the mouse up.
- 6) When you are done drawing lines, click the Line Tool again to de-activate it.

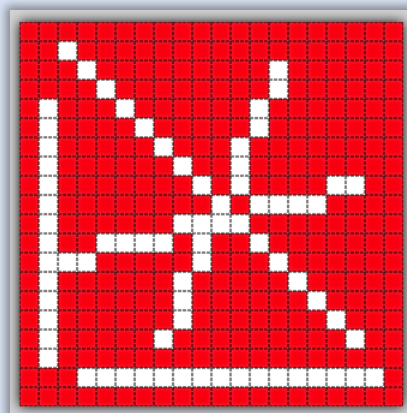
Example

Starting from the default project (which is loaded by default when you open the Grid Designer and when you press the browser's refresh button), let's work with the line tool.

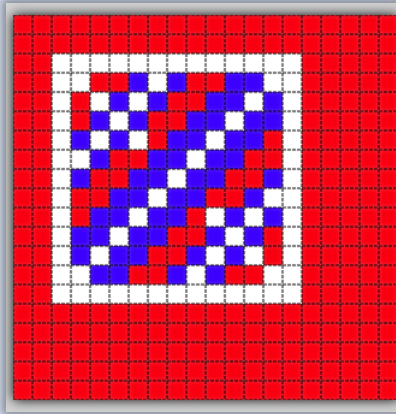
Clicking the Line Tool in the bottom toolbar, a hint dialog will be displayed. Read and dismiss. The line tool will now be active (green).



With the mouse over the grid, press the left mouse button and hold it down while you drag across the grid. A line will draw between the cell where you first pressed the mouse button and where you are dragging the mouse. Let the mouse button up and a line will be drawn on the grid.



Here are my lines, it's as simple as that. If we then set the background color to blue, notice that we can now do the “two-fingered fast draw”, drawing white lines with the left mouse button and blue lines with the right mouse button.



Draw and Erase Symbols

The Draw and Erase Symbols Tools are to the right of the Line Tool on the bottom toolbar:

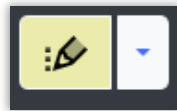


Figure 64: Draw and Erase Symbols Tools

There are currently three tools that can be used: Draw Symbol, Erase All Symbols, Erase Symbol by Type. When first starting the Grid Designer, the Draw Symbol tool will be shown. To select one of the other tools, click the down-arrow button on the right side to pop-up a list.

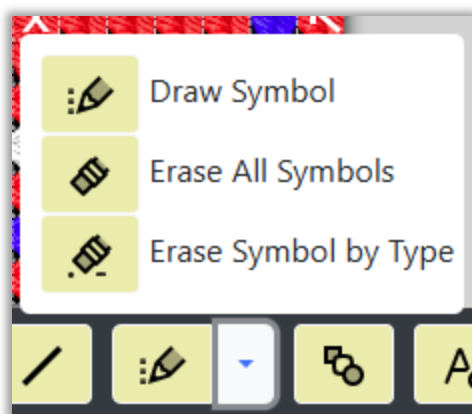


Figure 65: Draw and Erase Symbols Tools

Each tool does the following:

- **Draw Symbol** – draws the Design Symbol selected in the Design Symbols popup to the right of the foreground and background color selectors on the top toolbar. Simply click on the Draw Symbol button; it will turn green / active, then click the mouse on those cells where you would like to place the current symbol (left mouse button). The right mouse button erases the currently selected symbol, so that you can place symbols with the left mouse button and quickly erase them with the right mouse button if placed incorrectly.
- **Erase All Symbols** – erases all the symbols in a cell. Simply click the Erase All Symbols button, it will turn green / active. Then click any cell that has symbols in it to erase all the symbols in that cell.
- **Erase Symbol by Type** – erases the symbol of the currently selected type. Simply click the Erase Symbol by Type button, it will turn green / active. Then click any cell that has one of the currently selected symbols and it will be removed from that cell. This functionality is the same as right-clicking with the Draw Symbol button active.

To deactivate when you are done drawing, select a different drawing tool or click the green / active button to deactivate it.

NOTE: The addition of symbols for different project types is a work-in-progress. The first symbol sets are out for Mosaic / Overlay Crochet. The next expected set of symbols will be for Cross-stitch. If you do not see any symbols in the Design Symbol drop-down on the top toolbar, it is because your project type does not have symbols defined for it. They will be coming!!

Shape Tool

The Shape Tool is to the right of the Draw and Erase Symbols Tools on the bottom toolbar:



Figure 66: Shape Tool

The Shape Tool can be used to draw a variety of shapes. Simple shapes such as rectangles, diamonds, circles, triangles, hexagons, etc. are supported, as well as more complex shapes: hearts, water drop, egg, various flowers, star, etc.

When we click the Shape Tool, the Select Shape dialog displayed:

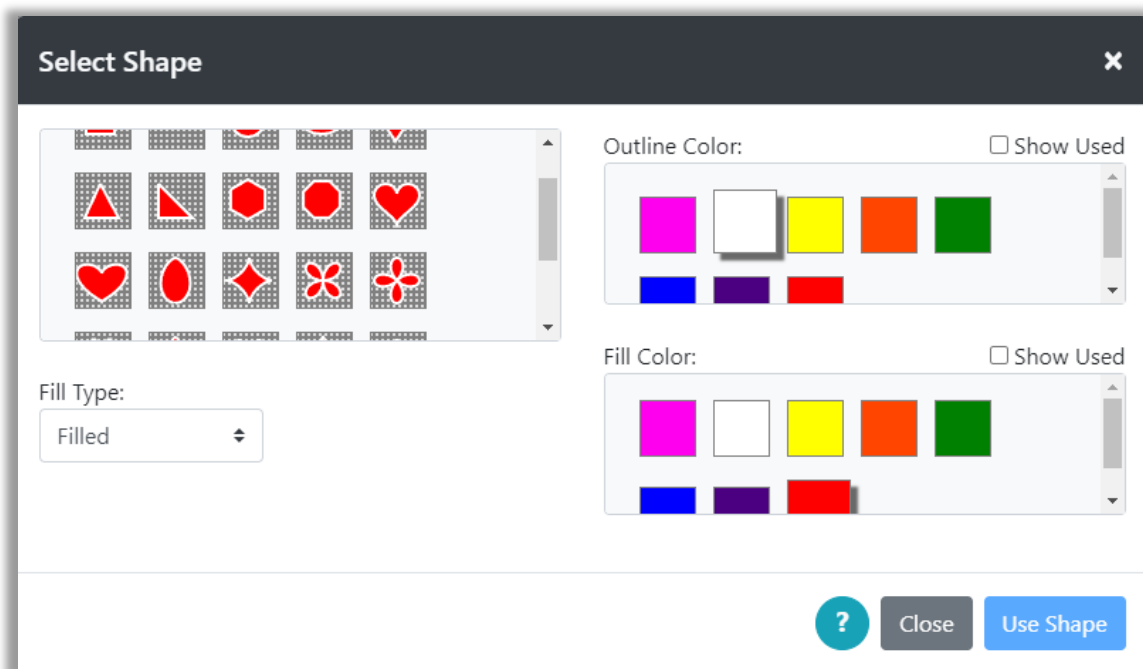


Figure 67: Select Shape Dialog

On the left of the dialog there is a dropdown box where we can select one of three options:

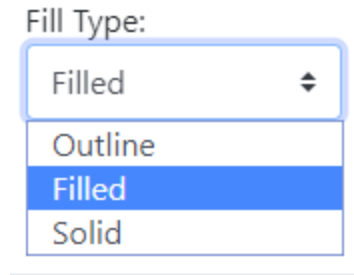


Figure 68: Shape Fill Type

These Fill Type options are:

- **Outline** – only the outline of the shape will be drawn. The thickness of the outline can be controlled by setting the [line size](#).
 - User will select the outline color only
- **Filled** – the shape will have both an outline and a fill. Again the thickness of the outline can be controlled by setting the [line size](#).
 - User will select both an outline and fill color
- **Solid** – the shape will be a solid color
 - User will select the outline color only and that will be used to both outline and fill

When the Fill Type is selected, the dialog will update to allow the user to select colors for outline and fill as needed.

To draw a shape on the grid:

- 1) Click on the Shape Tool, the Select Shape dialog is displayed.
- 2) Select the Fill Type desired from the Fill Type dropdown.
- 3) Select the shape to be drawn from the shapes shown above the Fill Type dropdown.
- 4) Select outline and fill colors as desired. Shape thumbnails will be updated to show the colors selected.
- 5) Click the Use Shape button.

- 6) A hint dialog may display with directions for how to draw the shape on the grid. Click the “Got it!” checkbox if desired and dismiss dialog.
- 7) Drag across the grid to draw the shape. Pause for a second as you drag, and you should see the shape appear. You do not have to get its placement correct in this step as you will have a chance to move the shape in the next step. You do need to get it the correct size for what you want.

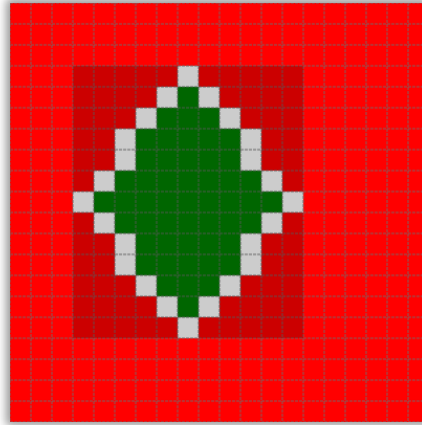


Figure 69: Shape appears flat on grid while dragging

- 8) When you have the shape you want, let up the mouse button. The shape will appear as a floating paste item and the bottom toolbar will show the paste tools.

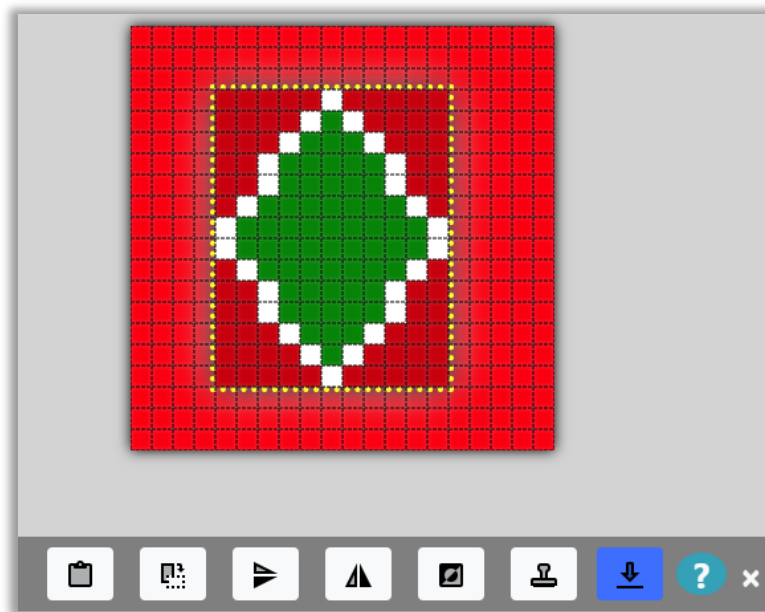



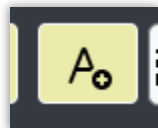
Figure 70: After shape is dragged, can be moved

- 9) Grab the shape with the mouse and move it to the position where you would like to place it.
- 10) Click the Apply to Grid button  to transfer the shape to the grid once and exit, or the Stamp button to stamp the shape on the grid in multiple places. When done, click the close X on the right side of the toolbar.
- 11) The bottom toolbar will change back to the primary tool bar.

NOTE: While the shape is in the form of a floating paste item, you may use the same tools that are available when pasting an item that has been cut or copied. These tools are described in the [Paste Tools section](#). The pasted item has also been stored in the clipboard and can be pasted again at a later time or even into another project by selecting the Paste button from the main bottom toolbar.

Text Tool

The Text Tool is located on the bottom toolbar to the right of the Shape Tool.



The Text Tool digitizes fonts so that they can be drawn on your grid. In general, most fonts require an area with at least 10 to 20 cells high for them to look presentable. If you are looking for text that is smaller, the library contains simple block letters from 5 to 10 cells in height. [See the library section](#) for more information on using these block letters.

The section will describe the use of the main text tools for use creating text that is generally larger than 10 cells in height. Some fonts and characters are useful down to a height of 7, so the tool allows you to select a font size starting at 7.

To use the Text Tool:

- 1) Click the Text Tool.

- 2) A hint dialog may be displayed explaining how to create a text area on your grid. Click the “Got it!” checkbox if you do not want to see the hint again, then dismiss the dialog.
- 3) Create a text area by dragging the mouse on the grid to create a rectangular area roughly where you would like your text to appear. You will be able to move and resize the text before applying it to the grid. All you need is a general area to start.
- 4) When you let go of the mouse, text will be drawn in your text area. If it’s the first time you have used the text tool, the text ABC will be drawn.

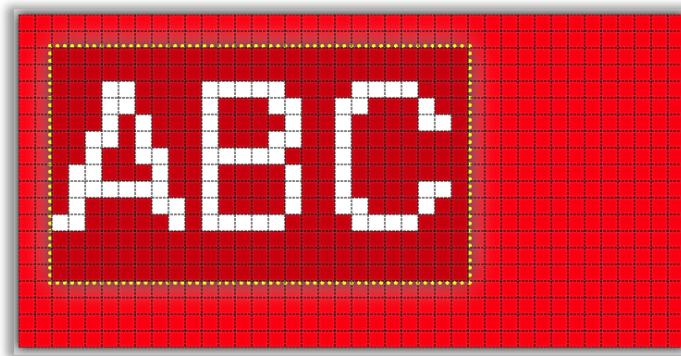


Figure 71: Text in Text Tool

- 5) The bottom toolbar will change to show the text tools.



Figure 72: Text Toolbar

- 6) Enter the text you would like on the left, in place of ABC.
- 7) Select the font you would like from the dropdown. When you first use the text tool this will be set to Roboto. Select the font you want.
- 8) Some fonts have a Bold and an Italic version. Click the B or I button to make the text bold or italic.
- 9) You can change the size of the text up or down or type in the font size explicitly using this widget:

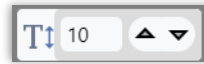



Figure 73: Text font size

10) The text may also be rotated at 90 degree increments with the rotate button.




Figure 74: Text rotate button

11) You may toggle the background color on and off with the toggle background button: .

Both background and foreground colors can be changed on the top toolbar or on the floating palette.

12) You may also drag the text area around to place it exactly where you want it.

13) When you have the text correctly created and placed, click the Apply Text to Grid  button.

14) If you want to cancel, click the close X on the right side of the toolbar to cancel.

Line Size

Line Size can be set for the drawing tools. The Line Size widget is located on the far right of the bottom toolbar. It can be set from 1 to 10 cells in width.

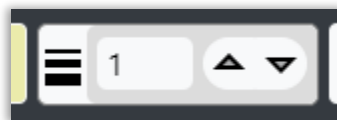


Figure 75: Line Size Widget

Line Size affects the following drawing tools:

- Pencil and Eraser – affects the drawing/erasing width and height. If the line size is 3, then clicking the pencil or eraser on the grid will draw/erase a 3 x 3 area of the grid.
- Line Tool – affects the width of the line. If the line is vertical or horizontal, its width will be the same as the line size in cells.
- Shape Tool – affects the outline width of a shape in the same way as for a line.

- Outline Tool – sets the thickness of the outline.
- Checkerboard fill – sets the size of the checks in the checkerboard.

Add/Delete Rows or Columns Tool

The Add/Delete Rows or Columns Tool is located on the far left of the bottom toolbar.

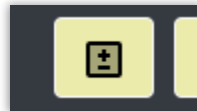


Figure 76: Add/Delete Rows and Columns

This tool allows you to add or delete rows and columns anywhere in the grid. It is a mode button, like the drawing tools and will be green when it is active, while the user is selecting rows and columns on the grid.

To use the Add/Delete Rows or Columns tool:

- 1) Click the Add/Delete Rows or Columns tool. The Add/Delete Rows and Columns dialog will be displayed.

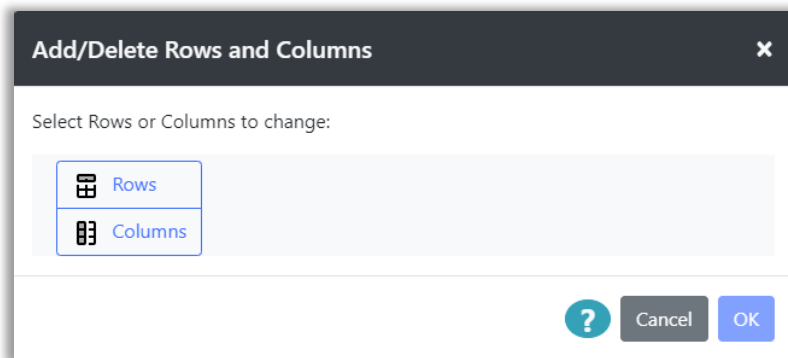


Figure 77: Add/Delete Rows and Columns Dialog

- 2) Select either Rows or Columns to change. The dialog will be updated.

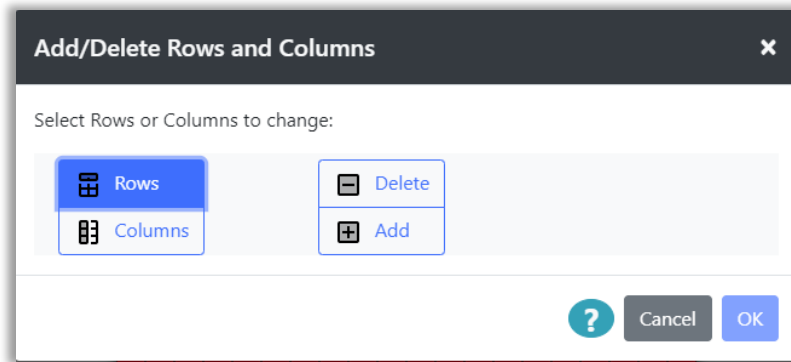


Figure 78: Select Add/Delete for Rows or Columns

- 3) Select either to Add or Delete the Rows or Columns you have selected.
 - a. If Delete is selected, the OK button will become selectable. Click OK.
 - b. If Add is selected, the dialog will be updated.

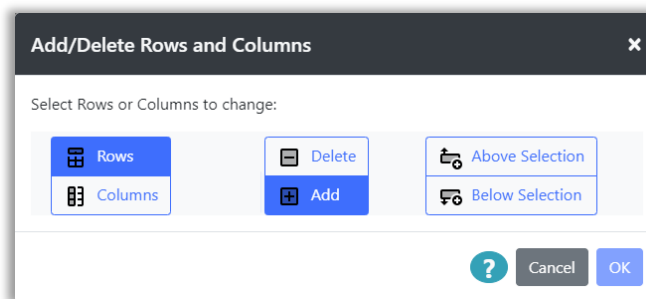


Figure 79: Select where to Add Rows

- c. If the user has selected Rows, they will be asked if they are to be added Above or Below the row selection that is to be made.
If the user has selected Columns, they will be asked if they are to be added to the Left or Right of the column selection that is to be made.
 - d. Select an option and the OK button will be enabled.
 - e. Click OK. The dialog will be closed.
- 4) A hint dialog may be displayed with directions, as for all mode buttons. Read and click the “Got it!” checkbox if desired and close the dialog.
- 5) Drag the mouse on the grid to select rows or columns. They will either be deleted, or inserted according to your selections.

Selection

Rectangular areas and connected motifs can be selected with the Selection Tool. The selection can then be cut, copied, cleared or used for color substitution.

You may include more than one rectangular area or motif in the selection.

Selection Tool

The selection tool button along with the button to cancel the selection are located on the left side of the bottom toolbar.



Figure 80: Select and Cancel Select

When you click the down arrow next to the selection button, a pop-up will show the different selection tools:

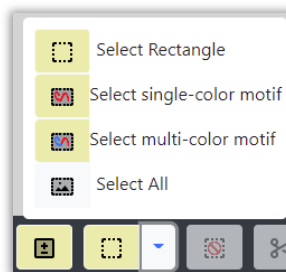


Figure 81: Selection Tools

Selection of a tool in the pop-up will replace the default tool button next to the down arrow.

To select a rectangular area of the grid:

- 1) Click the Select Rectangle button.
- 2) A hint dialog may be displayed. Read and click the “Got it!” checkbox if desired, then dismiss the dialog.
- 3) If you have selected the Rectangular Select option, drag a rectangular area across the grid with the mouse.

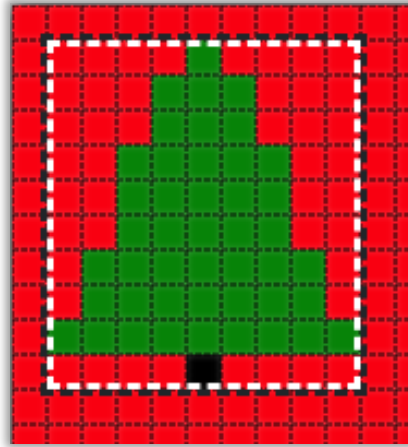


Figure 82: Selection Box

- 4) The selection box can be moved and resized.
 - a. Each edge can be moved by grabbing the edge and dragging.
 - b. The entire box can be moved by placing the mouse in the center and dragging it where you want it.

To select the entire grid:

- 1) Click the Select All option. This will create a rectangular selection around the entire grid.
- 2) The edges of the selection area can be moved and resized in the same manner as for any rectangular selection (see section above).

To select a single-color motif:

- 1) Click the Select single-color motif option.
- 2) A hint dialog may be displayed. Read and click the “Got it!” checkbox if desired, then dismiss the dialog.
- 3) Click on a non-background-colored cell on the grid. That cell and any of the same color that are connected to it, including diagonal connections, will be selected.

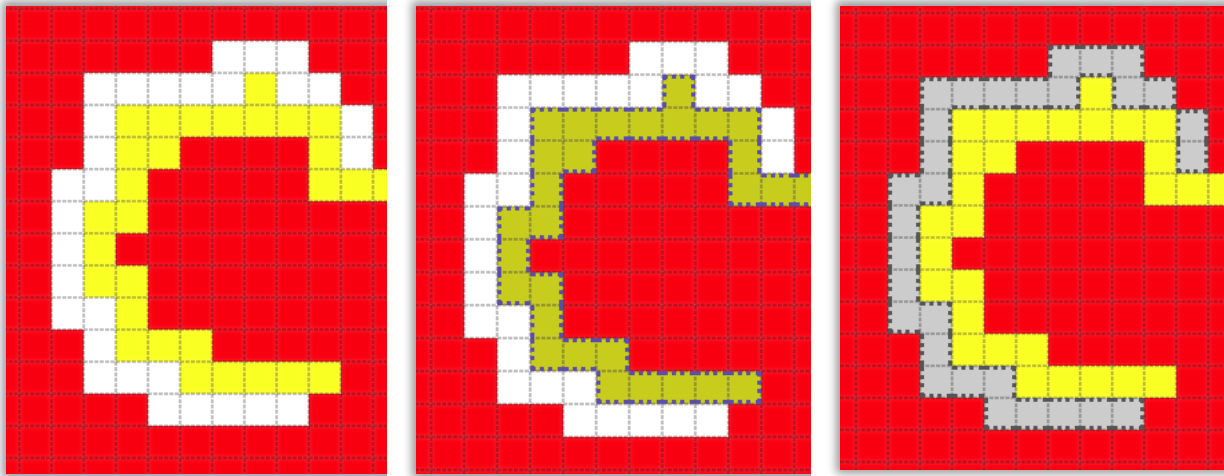


Figure 83: Motif Selection, yellow Selected(center), white selected(right)

To select a multi-color motif:

- 1) Click the Select multi-color motif option.
- 2) A hint dialog may be displayed. Read and click the “Got it!” checkbox if desired, then dismiss the dialog.
- 3) Click on a non-background-colored cell on the grid. That cell and any non-background cells connected to it, including diagonal connections, will be selected.

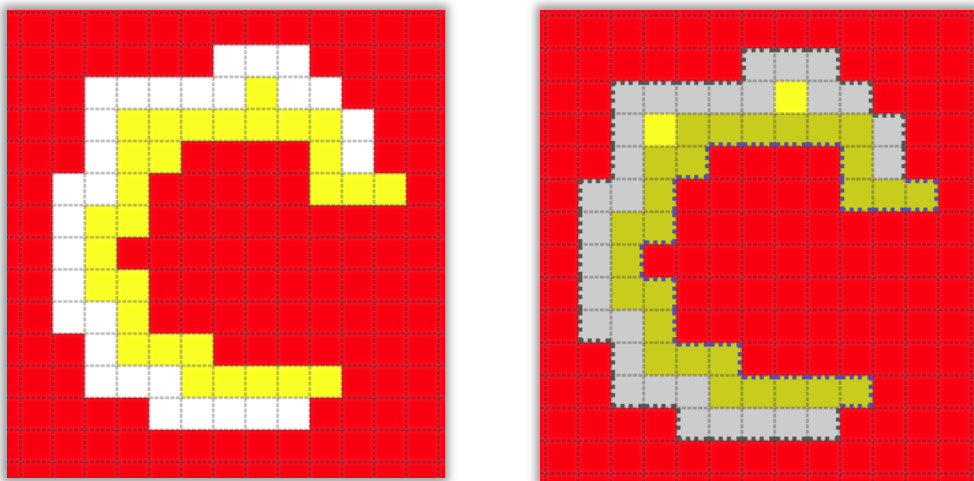


Figure 84: Multi-color motif selection, both yellow and white selected (right)

To select additional rectangular areas or motifs:

- 1) Select another button from the select tool pop-up. It can be the same type of selection as your last selection or can be a different selection tool.

- 2) The selected button will show as green, showing it is active. The originally selected area will continue to show as selected.
- 3) Click on a motif if motif is selected, or drag a selection box if the rectangular selection is selected. This new selection will then be added to the total selection.
- 4) Repeat to add additional motifs/areas to your selection.

See the next sections of this document for what you can do with the selection.

The selection can be cleared with the Cancel Select button on the bottom toolbar, or by clicking once anywhere on the grid outside of your selection. If you have multiple motifs/areas selected and you want to remove one, click on it while no selection tool is active (green) and it will be removed from your selection.

Selection Operations

Cut

Once a selection is made, as described in the [Selection Tool section](#) above, you can cut the contents of the selection. Cut will clear/erase the area where the selection was, AND put a copy of the selection into the Grid Designer's clipboard. You can then paste that selection, either to move it to a new location in your current grid or to copy it to another project grid entirely, by opening another project while the selection is saved in the clipboard.

Use cut when you want to move the selection somewhere else.

To cut the selection, click the Cut button, on the bottom toolbar (scissors icon).



Figure 85: Cut button

The selection will be cleared, and the contents of the selection will be in the clipboard (in memory), ready for a paste action. See [Paste section](#) below.

Copy

Once a selection is made, as described in the [Selection Tool section](#) above, you can copy the contents of the selection. Copy will leave the original selection area alone and make a copy of its

contents in the Grid Designer's clipboard. You can then paste that selection elsewhere to copy it. It can be copied to another place in the current grid, or to another project's grid.

Use copy when you want to make a copy of the selected area to place somewhere else.

To copy the selection. Click the Copy button, on the bottom toolbar.



Figure 86: Copy button

The selection box area will be unchanged, and the contents of the selection will be in the clipboard (in memory), ready for a paste action. See [Paste section](#) below.

Substitute colors in selection

Once a selection is made, as described in the [Selection Tool section](#) above, you can use the selection area to restrict color substitution. Color substitution is done with the Substitute Colors button located on the top toolbar.

More information on color substitution can be found in the [Substitute Colors section](#).

Clear and Crop Options

Once a selection is made, as described in the [Selection Tool section](#) above, you can clear/erase or crop based on the selection by using one of five options available:

- Clear the selection (fills selection with background color and clears design symbols)
- Clear outside the selection, leave the selected area unchanged (fills background color in the entire grid OUTSIDE of the selection)
- Crop the grid to include only the selected area (changes the size of the grid to include only the selected area).
- Clear Design Symbols from the selected area.
- Clear colors only (keep symbols) from the selected area.

All three of these options are placed together next to the Clear All button. Click the down arrow button next to the Clear All button to see all three options. The last selected option will replace the Clear All button on the bottom toolbar and will be selectable from there until another option is selected.

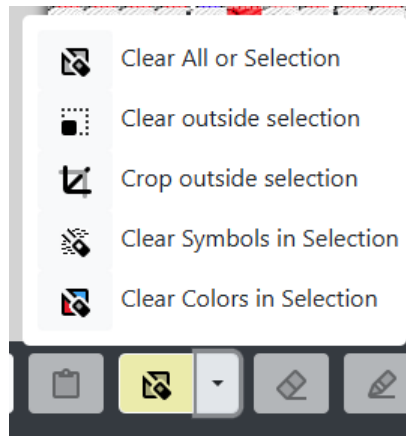


Figure 87: Clear All button

If no selection is made, the Clear All button will clear the entire project, including project name. Do this only if you want to start over completely with your drawing.

Paste

Once an item has been placed in the Grid Designer's clipboard (in memory) with the [Cut](#) or [Copy](#) options, it can be pasted onto the grid, moved, modified with the paste tools and eventually stamped or applied to the grid.

Items can be added to the clipboard in multiple ways:

- Cut a selection, described in the [Cut section](#).
- Copy a selection, described in the [Copy section](#).
- Created with the Shape Tool, described in the [Shape Tool section](#).
- Created with the library tool, described in the [Library section](#).

Once an item is in the clipboard, it can be pasted to the open project, to another project or to a new project. To paste to another project, create the item with one of the methods above, then open another project with the Project → Open option and paste, as below. To paste to a new project, create the item with one of the methods above, then select Project → New Project, complete the resulting New Project Layout dialog and click Create Project. Then paste the item into the new project, as below.

NOTE: To paste an object from one project to another, both projects must use the same palette..



An item is pasted with the paste button.

This button pastes the item with the background filled if the item is coming from your own cut/copy action and a rectangular select. The background can be turned off once the paste tools are displayed.

If the item was created with one of the motif selection options, the background will be turned off initially. You can turn the background on, if desired, once the paste tools are displayed.

If you are re-pasting a pattern from the library or a shape from the shape tool, the background will be turned off to start. You can turn the background on, if desired, once the paste tools are displayed.

The item will be pasted on the grid as a floating paste item and the bottom toolbar will change to the paste toolbar.

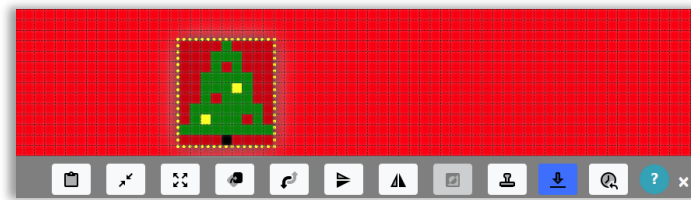


Figure 88: Floating Paste Item

The object can be grabbed with the mouse and moved, modified with the paste tools on the bottom toolbar, and either stamped or applied to the grid when ready. Each of these possible actions is described in the next section on Paste Tools.

Paste Tools

The paste tools appear on the bottom toolbar once an item has been pasted from the Grid Designer's clipboard.



Figure 89: Paste Tools

From left to right, in the figure above, these tools are:

- **Toggle background** on/off
- **Make Smaller**

- **Make Larger**
- **Rotate** 45 degrees – click twice to rotate 90 degrees
- **Custom Change** – rotate any angle and resize to any number of rows and columns
- **Flip vertically**
- **Flip horizontally**
- **Invert** two colors
- **Fill entire grid** by repeating the paste item
- **Fill area** by repeating the paste item
- **Stamp** and move the paste item onto the grid
- **Apply** the paste item to the grid
- **Reload** the original paste item

To exit the paste area at any time, click the close X on the right of the bottom toolbar.

Some of these options may be disabled depending upon the project type. For instance, for Mosaic / Overlay Crochet, you will only be allowed to Stamp and Apply the paste item.

The following sections describe each of these tools.

Toggle Background

Clicking the Toggle Background tool button will toggle the background color fill on and off in the background space around your item. In the following figures, the extra space at the top of the item is filled with background color in one case, and is clear in the other.

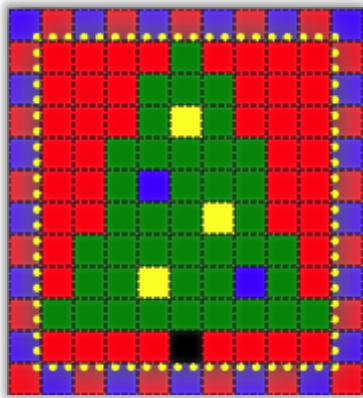


Figure 90: Background Toggled On

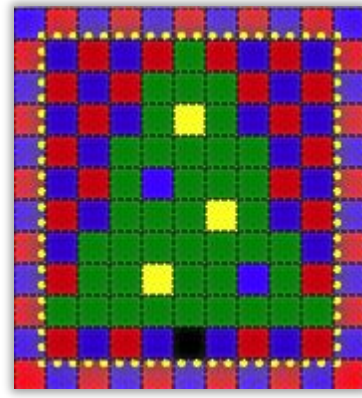


Figure 91: Background Toggled Off

If the item you have selected fills its selection rectangle completely, with no background color, there will be no difference in the toggle state, as there will be no extra cells to fill, in the selection rectangle.

Make Larger

Click the Make Larger tool button to enlarge the paste item. The first time the button is clicked, the image will be increased 2x. The next time the button is clicked, it will enlarge to 3x the original. Successive clicks will do 4x original, 5x original, 6x original, etc.

To resize the paste item to a specific number of rows and columns, see the [Custom Change section](#).

Make Smaller

Click the Make Smaller tool button to shrink the paste item. The first time the button is clicked, the image will be shrunk by 1/2. The next time the button is clicked, it will shrink to 1/3 original. Successive clicks will do 1/4 original, 1/5 original, 1/6 original, etc.

To resize the paste item to a specific number of rows and columns, see the [Custom Change section](#).

Rotate

Click the Rotate button to rotate the paste item 45 degrees clockwise. The pictures below were created by clicking the rotate button successively.

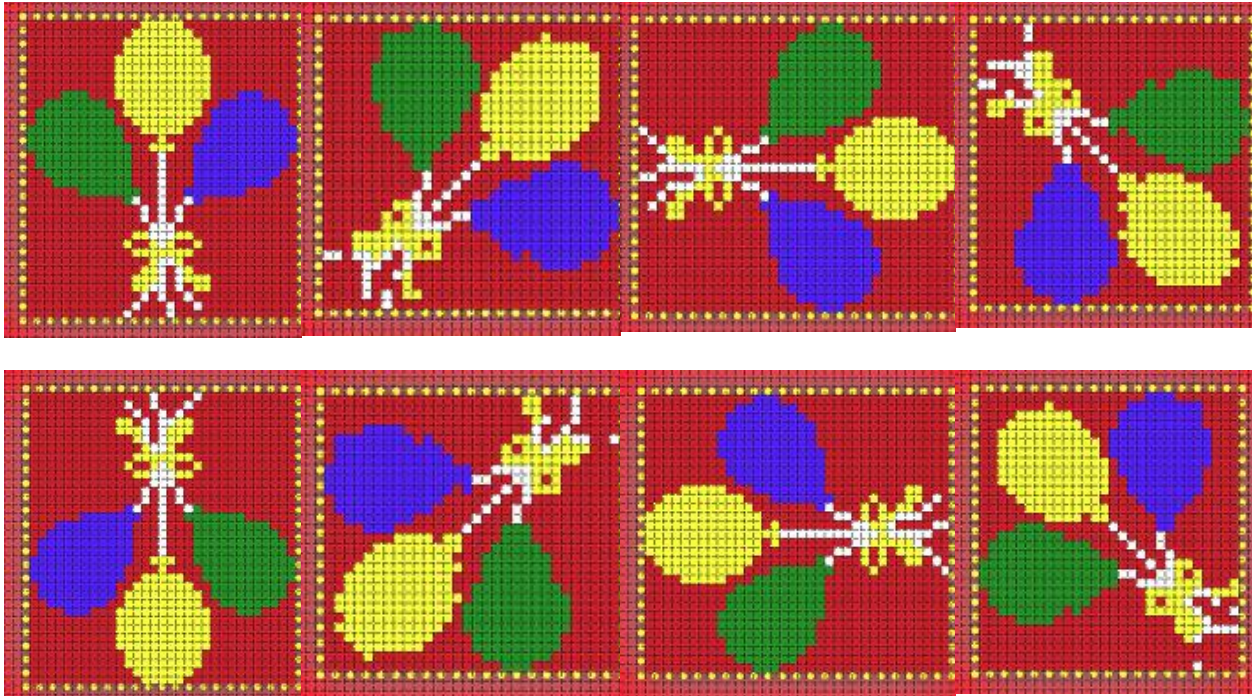



Figure 92: Rotation Examples

To rotate the paste item to a specific angle, see the [Custom Change section](#).

Custom Change

The Custom Change button  allows you to rotate to a specific angle or resize the paste item to a specific height and width.

To make a custom change:

- 1) Click the Custom Change button. The Change Paste Item dialog will be displayed.

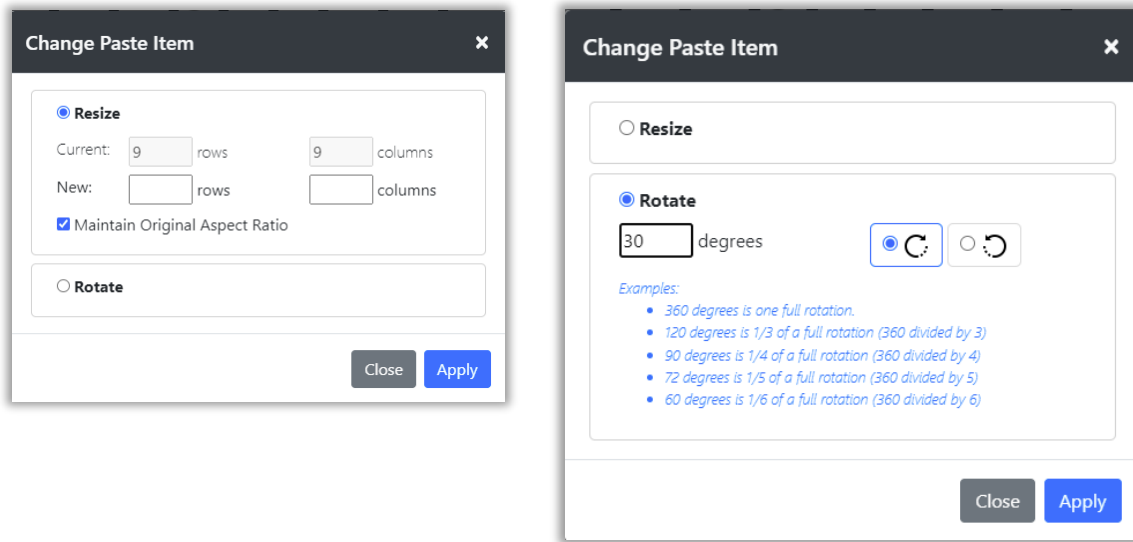


Figure 93: Change Paste Item dialog

- 2) Select either the Resize or Rotate option.
 - a. For Resize, enter the new number of rows and columns for the paste item. Then click Apply. If the Maintain Original Aspect Ratio checkbox is checked, values for rows or columns will automatically be calculated when you change either.
 - b. For Rotate, enter the number of degrees of rotation desired, from 1 to 360. Select either the rotate clockwise or rotate counterclockwise button on the right. Then click Apply.

Flip Vertical/Horizontal

Clicking the Flip Vertical or Flip Horizontal tool button will flip the contents of the paste buffer vertically or horizontally.

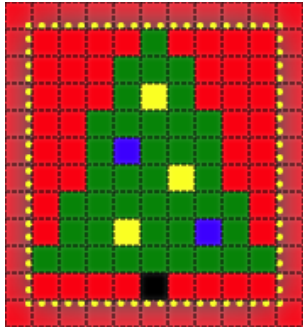


Figure 94: Paste before flip

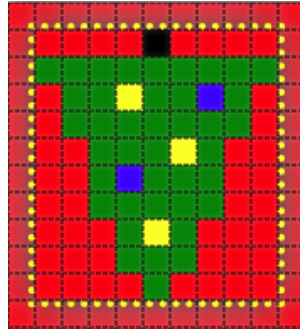


Figure 95: Paste Flip Vertical

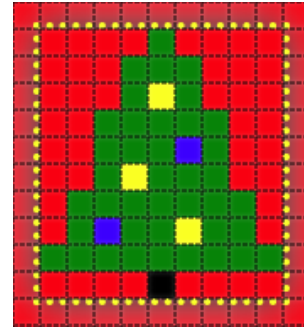


Figure 96: Paste Flip Horizontal

Invert Colors

If the item consists of two colors, clicking the Invert Colors will invert those colors.

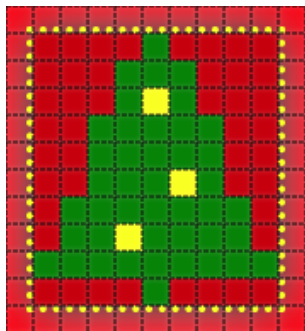


Figure 97: Paste Before Invert

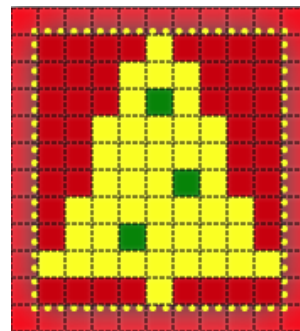


Figure 98: Paste After Invert

If your item contains 3 colors and includes the background color, you can create a 2-color item by toggling the background off.

If your item contains only 1 color with the background off, you can create a 2-color item by toggling the background on.

Fill Entire Grid

The Fill Entire Grid button will copy the paste item across the entire project grid. If the background is turned off when doing this, it will have the effect of overlaying any existing picture. If the background is turned on, it will completely erase any existing picture with the paste item.

Fill Area

The Fill Area button will copy the paste item across a bounded area, similar to the Fill tool on the main toolbar that fills a solid color. The area that will be filled is selected by the position of the center black and white dot on the paste item. Usually, the position of the dot will not matter, as the area to be filled will be much larger than the paste item. However, if the area to be filled is small, the dot must be positioned over the area in order for the fill to paste into that area.

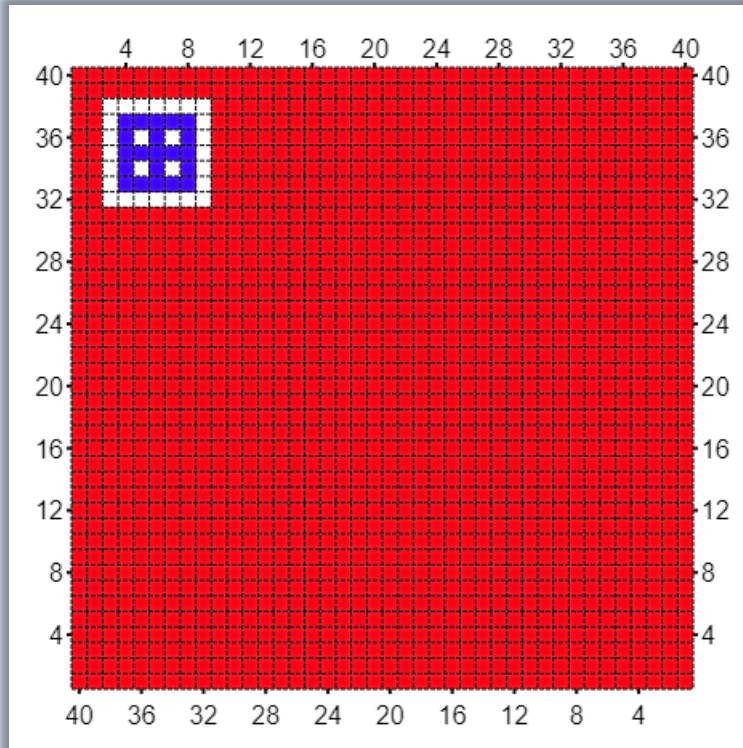
Stamp

The Stamp button allows you to repetitively stamp your paste item onto the grid. The Stamp tool will automatically reposition items to repeat the same distance from the original stamp, even when you move the paste item during the stamping process.

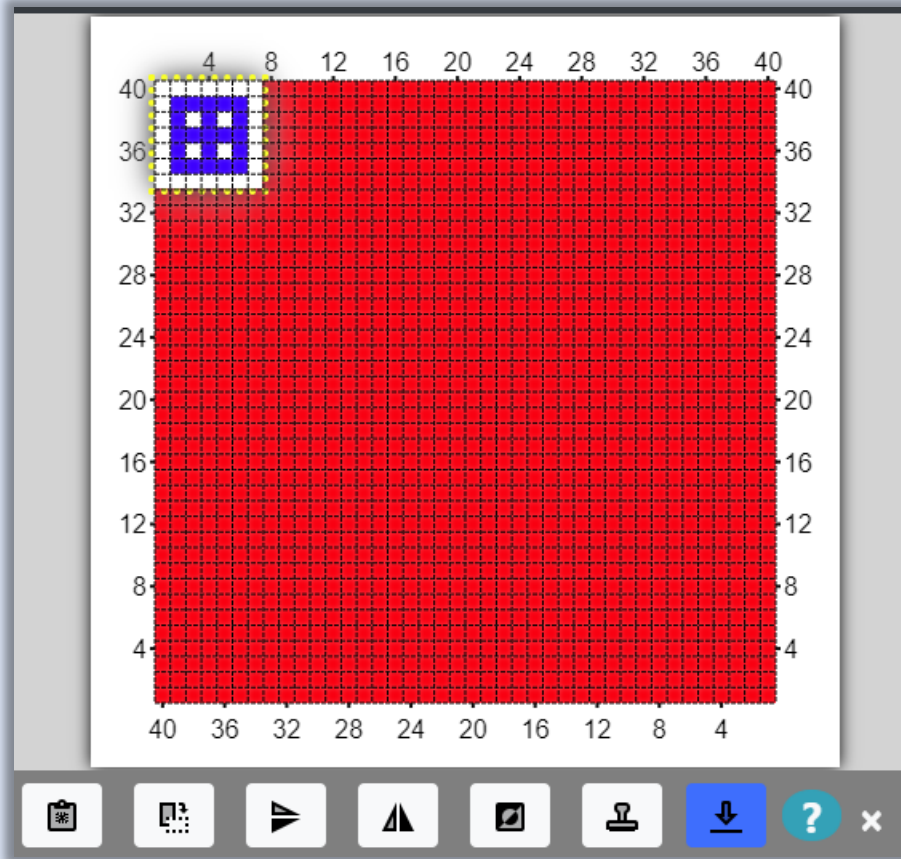
This is best shown through an example.

Example

Suppose we have the following design that we want to repeat across our pattern.



We will select the blue and white square with the selection tool, then cut and paste the selection. This will bring up the paste tools with the selection as shown.

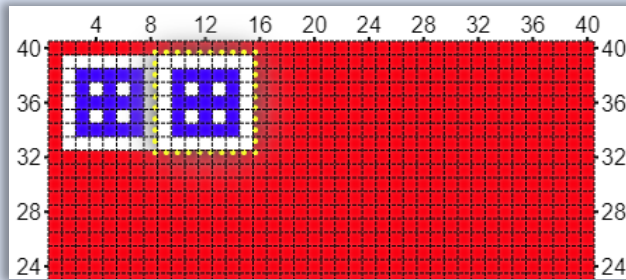


We move the pasted item to our starting position, leaving a one cell edge on the top and side.

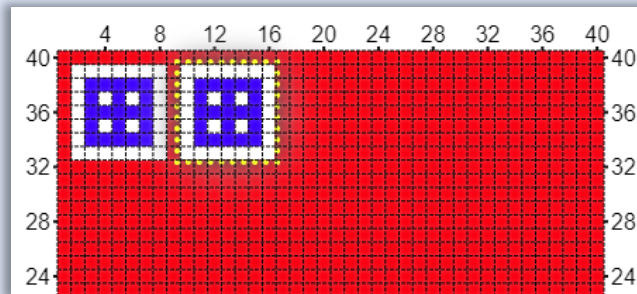


We want to paste this item across the top with a separation of 1 cell, as many times as will fit.

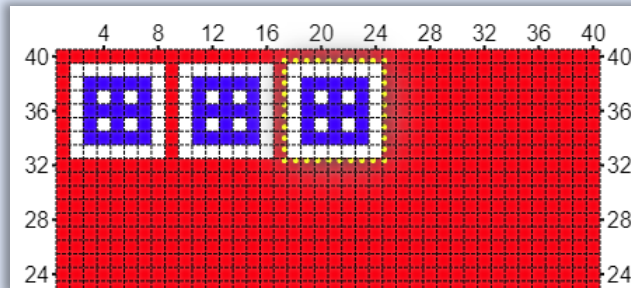
Now we click the Stamp button .



The paste item is transferred once to the grid, where we first positioned it. Then the paste item is moved to the right. We want the next stamp to have one cell between it and the first stamp, so we move the paste item to the right with the mouse.

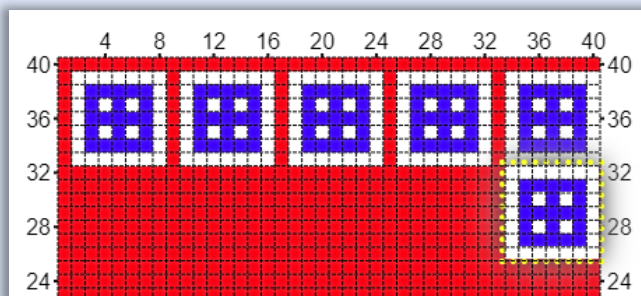


Then we click the stamp button again.

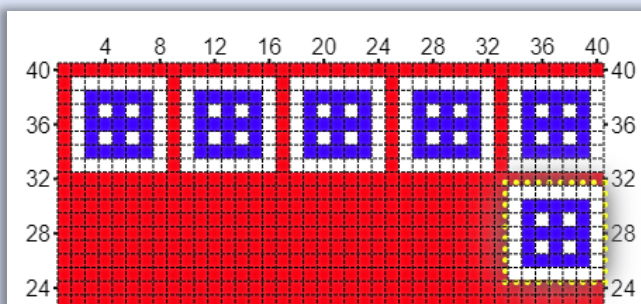


The paste item was transferred to the grid and moved to the right again. However, instead of just moving itself to the edge of the last item, it has learned from us that it needs to add one space. It remembers where we placed it and repeats that spacing. If we had left 2 empty cells between it and the first stamp, it would now place itself two empty cells from our last stamp.

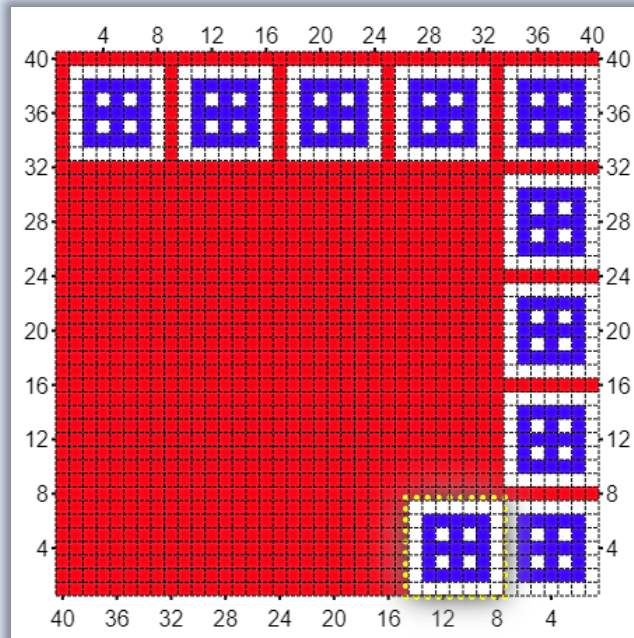
We can continue stamping across the grid until we reach the edge. When there is no more room to place another stamp, the stamp tool will try to move down the edge.



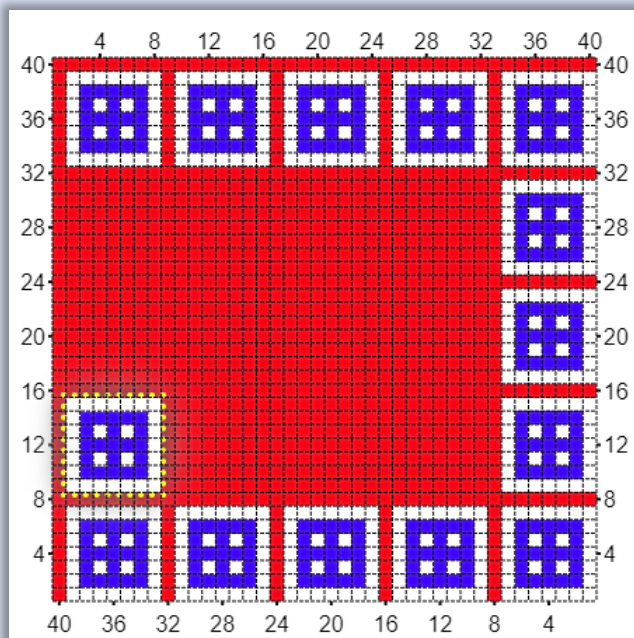
The stamps have gone right against the right edge, we can add a column to the right side later, but for now we will continue moving down the right side. We move the paste item down one row so there is one row of red cells between it and the last stamp.



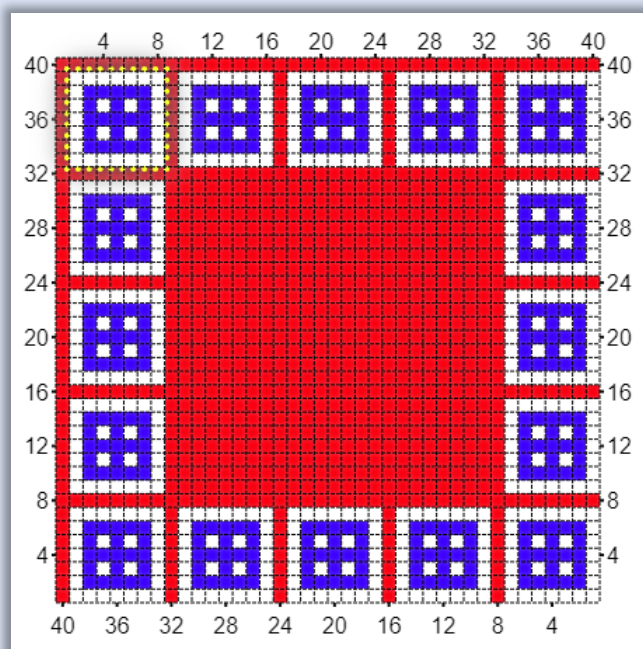
Then continue stamping down the right side till we reach the bottom.



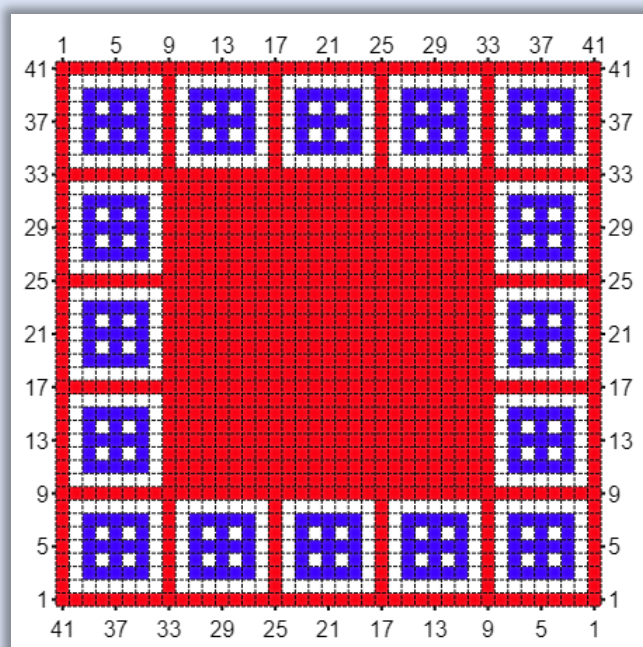
When the stamp reaches the bottom right corner it tries to move to the left. We move it over one cell and continue stamping across the bottom. When it reaches the left side, it will try to move up the left side. We correct it by putting it one cell above our last stamp in the corner.



Now we can continue stamping up the left side. We can add a row at the bottom when we are done.



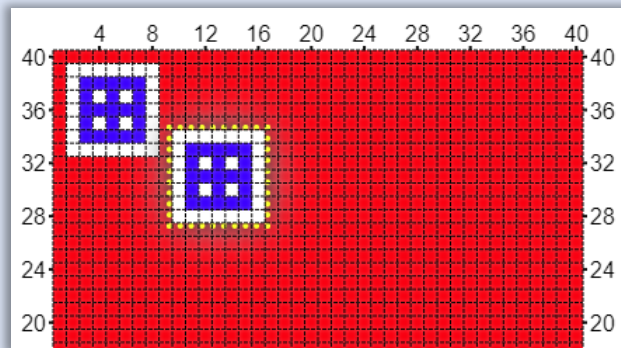
The paste item is now positioned over our first stamp. We click the close X on the right side of the toolbar and we are back in the main editor. We use Design → Grid Size to add a row and column to the bottom and right side and we have a completed border.



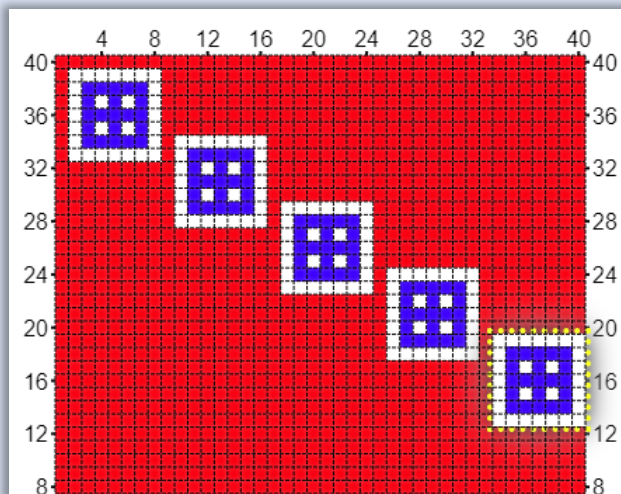
One additional note, the stamp tool can repeat its position change even when moving diagonally.

For example, after the first stamp, just position the paste item where you want it, then continue to click stamp and it will repeat whatever offset it had to the original stamp each time.

Here we set the offset by moving the paste item after the first stamp.




Then continue to stamp. The same spacing will be repeated.




The keyboard shortcut for the stamp tool is the space bar. More information on keyboard shortcuts is available in [section Keyboard Shortcuts](#).

Reload Paste Item

The Reload button  reloads the original paste item. This may be needed after applying unwanted rotations or resizing to the paste item.

Apply

The Apply button  applies the paste item to the grid once and then returns to the main editor.

Clear All

The Clear All button is located near the center of the bottom toolbar. It functions in two different ways depending upon whether or not a selection box exists. Clear All is one of multiple options that can operate on a selected area. See more about this under [Clear and Crop Options](#).

If a selection box exists, i.e. you have used the selection tool to select a rectangular area, then clicking the Clear All button will clear that area, painting it the current background color and erasing any design symbols.

If no selection box exists, then Clear All clears the project data and undo/redo. This action is not undoable. If your project is not saved a warning dialog appears. Do this only if you want to completely redo your drawing from the beginning.


If you want to clear the entire grid and keep your existing undo operations intact, select the entire grid with the selection tool and then select the Clear All button.

Loading a pattern from the library

The library contains a collection of small patterns that you may use in whatever way you wish, on whatever project you desire, regardless of whether or not the project is commercial or for your own personal use. In addition, you may now view patterns stored in *.gridd files under the library modal dialog and add patterns from those files to your project in the same way as adding a library pattern.

Some patterns were created by myself, others were contributed to the library by other designers. If you would like to make a contribution to the library, contact me through my contact page on freese-works.com (click contact tab at the top). Save your patterns as links using the Project > Share option and send the links to me. You must agree that the patterns you contribute can be used by anyone for any purpose, including commercial use. Contributed patterns should be no larger than about 60 x 60 cells.

If you make a contribution, your name will be displayed on the bottom left of the Library Patterns dialog (shown below) along with a link to your website, facebook page or other page that represents you, whenever one of your patterns is selected in the dialog.

The library button  is located on the far right of the main bottom toolbar.

To load a pattern from the library:

- 1) Click the library button on the far right of the main bottom toolbar. The Library Patterns dialog will be displayed.

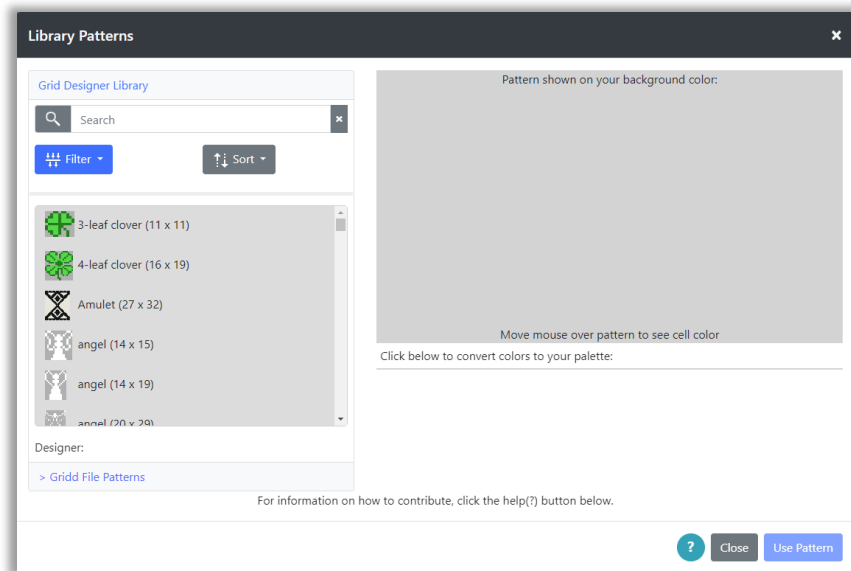


Figure 99: Library Patterns Dialog

- 2) On the left is a list of patterns in the library. The name of the pattern is visible in the list. The description of the pattern is visible in a tooltip, if you place your mouse over an item. The list of patterns can be filtered, sorted and searched.
 - a. Selecting the Filter button above the pattern list will display a popup where you may filter the list by size and type. Select a size, if desired and any types you would like to filter for. Then click the Go button to apply the filter to the list.

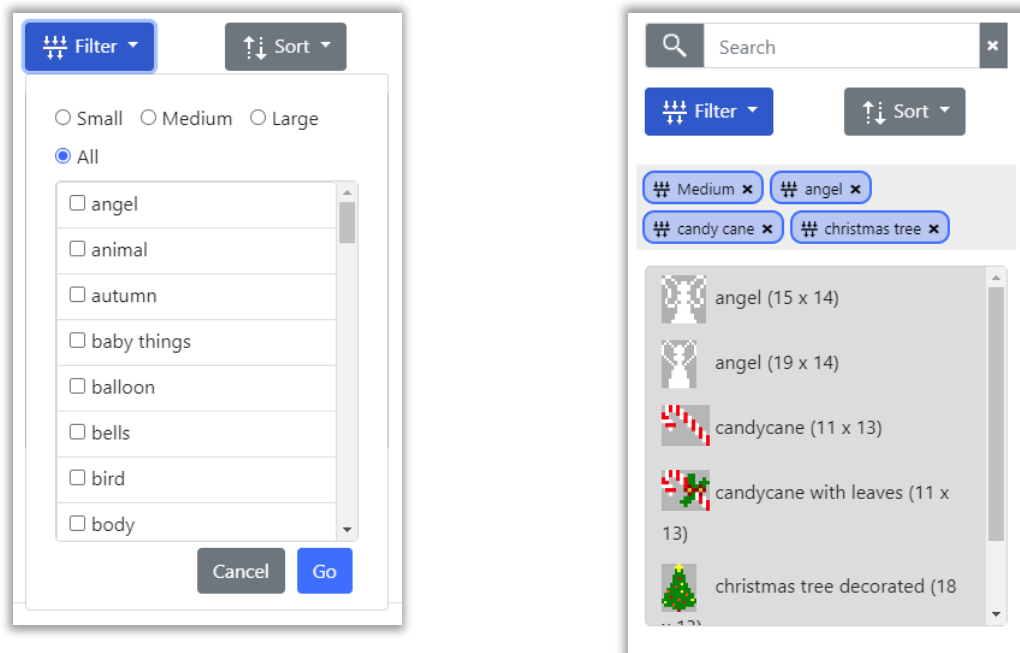


Figure 100: Filter Library Pattern List

Filter selections are shown on tags above the list. To remove any filter simple click on the X on the right side of the tag to remove that filter.

Some useful filters to be aware of are:

- borders – patterns made to repeat vertically and horizontally when rotated,
 - corner – corner patterns intended to work with some borders,
 - fill repeat – pattern made to fill an entire area when repeated,
 - repeat – both borders and fill repeat patterns.
- b. Selecting the Sort button above the pattern list will display a popup where you may sort the list by name, description, height and width. You may sort either ascending or descending for each. You may select more than one sort option.



Figure 101: Sort Options

- c. You may search for specific text within the name or description of the library pattern. To search for specific text, simply type the text into the Search box. To cancel the search, click the X on the right side of the search box. The search box also keeps a list of the last 5 text values you searched for. Clicking on the Search box will show a dropdown of your last 5 searches. You may select one of these also.

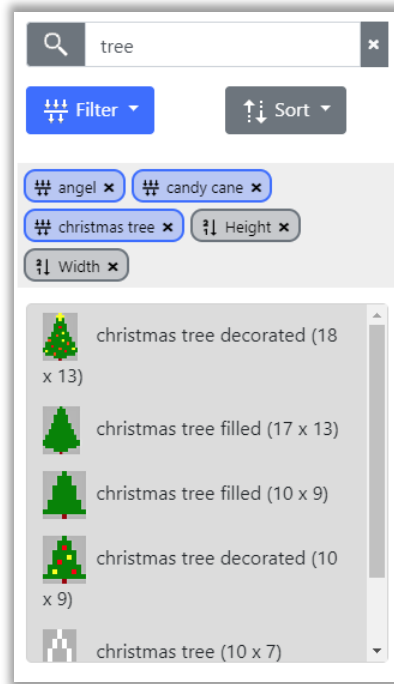


Figure 102: Library Text Search for tree

- 3) When you have found a pattern, you would like to use, click on that pattern to see it on the right side of the dialog. The pattern will always be shown on top of your currently selected background color. The designer's name and link will show on the bottom left.

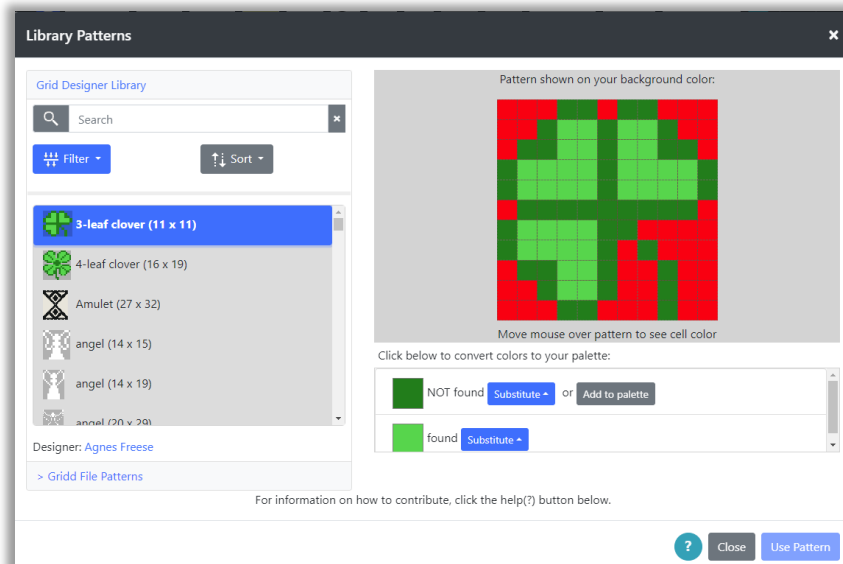


Figure 103: Library Pattern Selected

- 4) Below the pattern will be a list of colors used in the pattern. If these are not found in your currently selected palette, then either a substitution must be done to select a color from your palette, or the color from the pattern must be added to your current palette. When all missing colors are substituted or added, the Use Pattern button will become selectable.

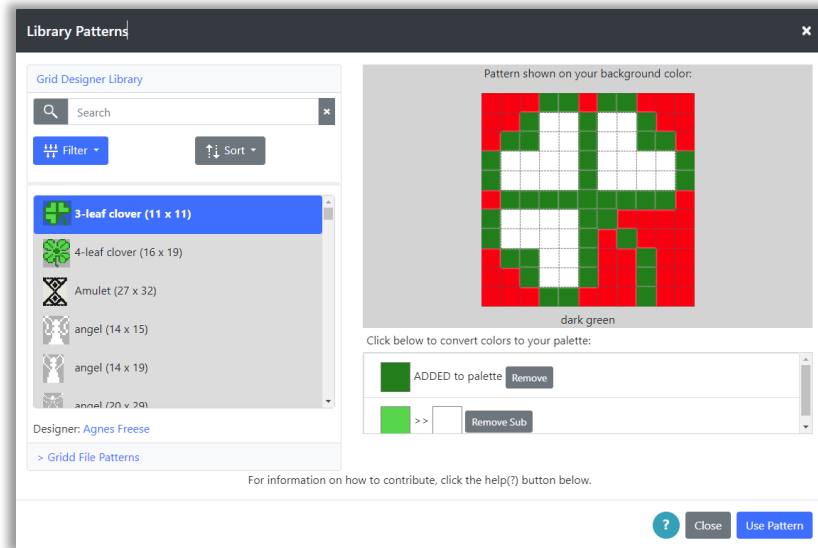


Figure 104: Library Pattern with one color substituted and another added

- 5) Click Use Pattern to use the pattern. The pattern will appear as a paste item. The paste tools will be available on the bottom toolbar. Use the blue Apply button or the Stamp button to apply the pattern to the grid. See the section [Paste Tools](#) for more information.

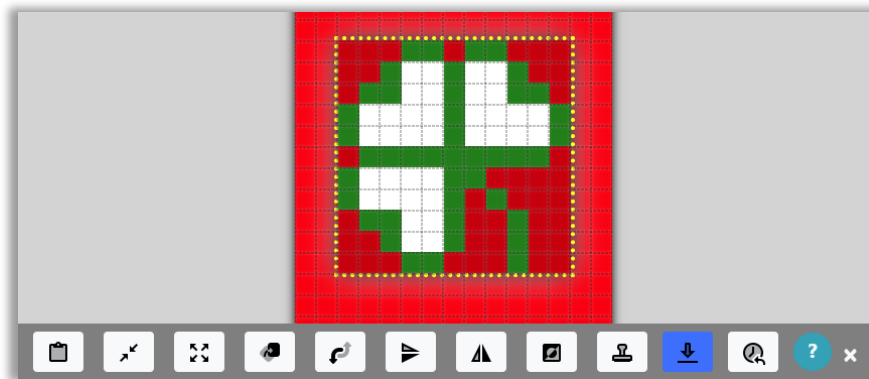


Figure 105: Library Pattern Paste Item

When you leave the paste area, you may paste the object again using the paste button on the main bottom toolbar.

If you use your current background color as a fill color for your pattern, you have the choice of either making that color a solid color in the pattern, or making that color transparent in the pattern. For instance, if in the clover pattern, we selected the interior to be the same red as our background color, two additional buttons will appear next to that color in the list:

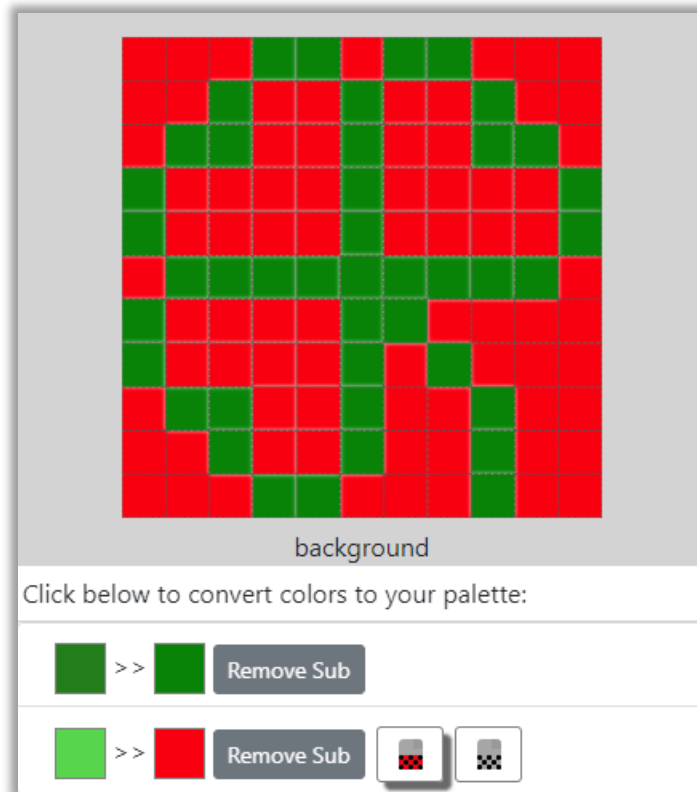



Figure 106: Transparent Color in library pattern

Selecting this button:  will make the red inside the clover a solid red in the pattern.

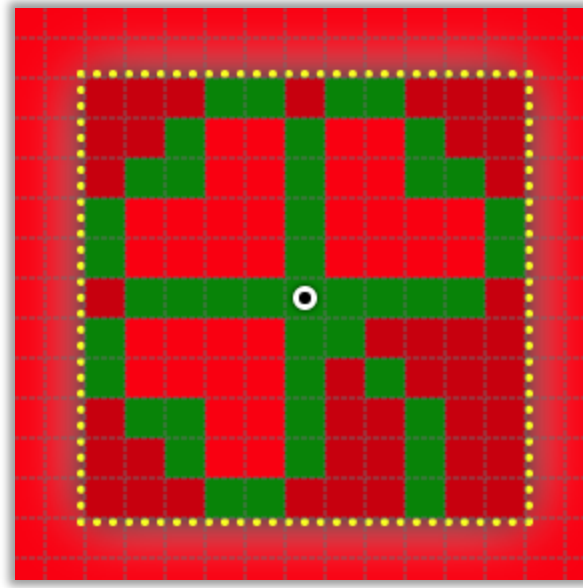



Figure 107: Solid Background Color in library pattern

Selecting this button:  will make the red inside the clover become transparent in the pattern.

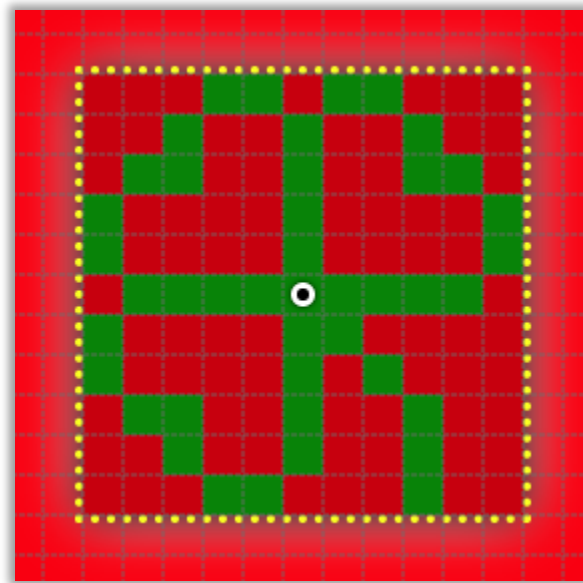


Figure 108: Transparent Background Color in library pattern

To load a pattern from a *.gridd file:

- 1) Click on Gridd File Patterns on the lower right to open the section for loading patterns from *.gridd files.

*NOTE: To see how to create a *.gridd file from your patterns, see section [Export and Import](#). Simply export the projects you want to a *.gridd file using the Export feature, that file can then be loaded here. When you create an exported pattern that you want to reload here as a library pattern, pay special attention to the setting of the background color when you create your pattern. When the pattern is loaded here, that background color will be replaced with the background color the user is currently using.*

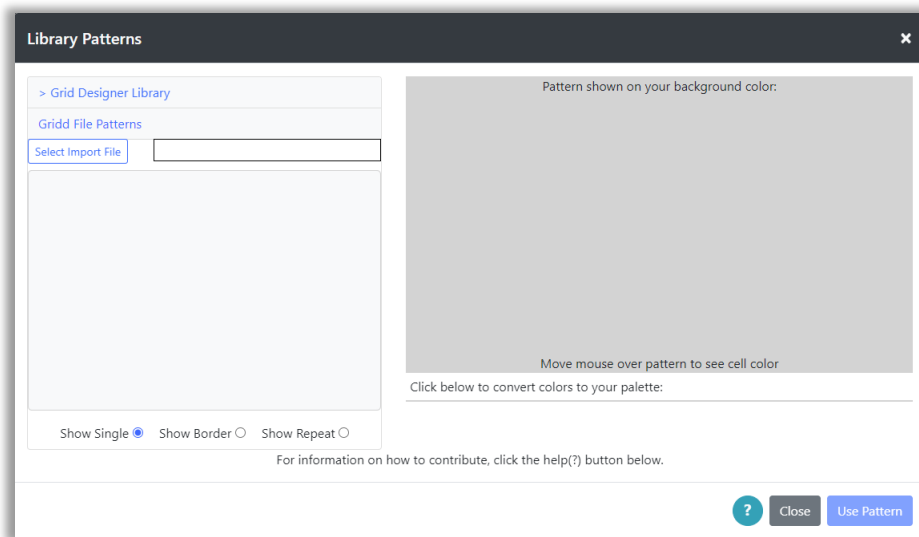


Figure 109: Gridd File Patterns as library patterns

- 2) Click the Select Import File button and select a *.gridd file from your device that you want to load. Below we have loaded a file call presents.gridd where we had stored patterns for presents. Only patterns that are smaller than 100 x 100 will be shown from the file. Larger patterns can be loaded into the Grid Designer as projects with [the Import feature](#).

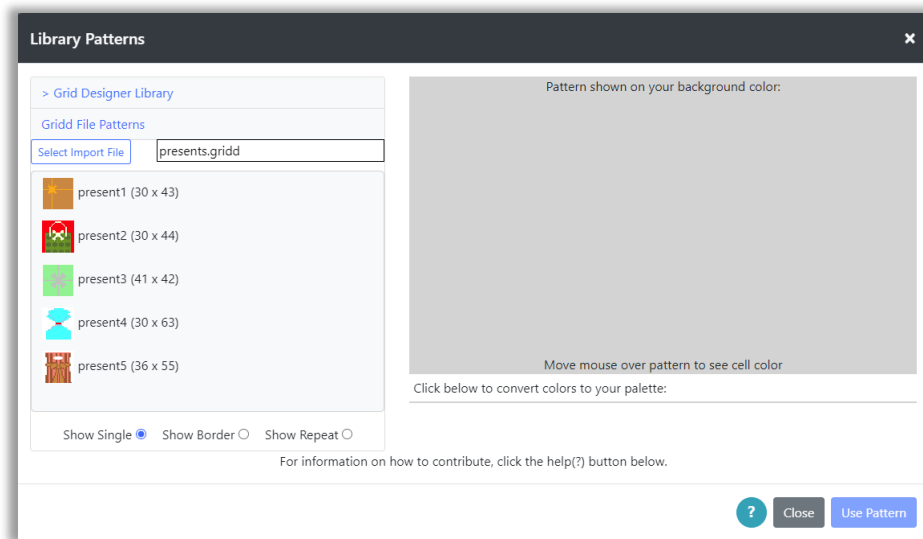


Figure 110: Loaded *.gridd file for library patterns

- 3) Select the pattern you want, select colors substitutions as needed and click the User Pattern button to load the pattern with colors from your palette. See Steps #4 and #5 in the [preceding section](#) on loading a library pattern.

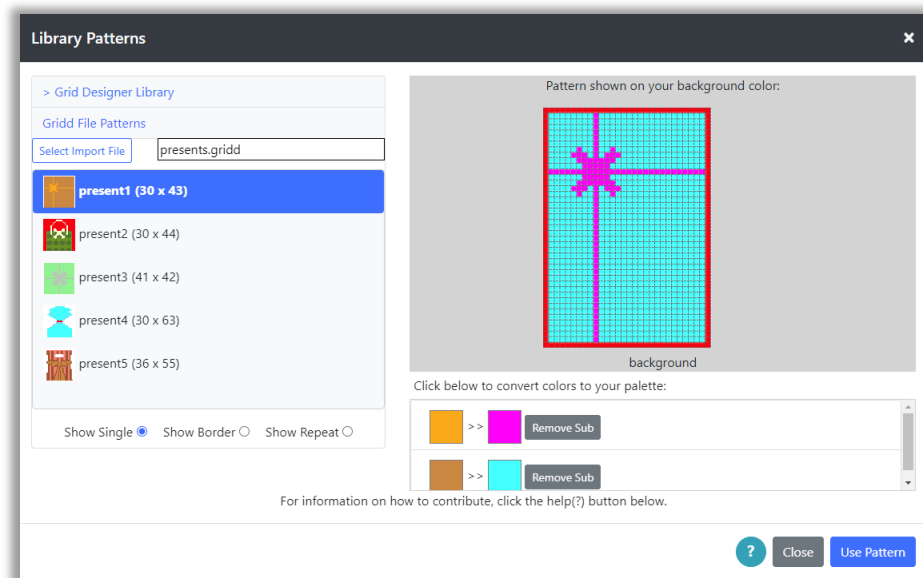


Figure 111: Loaded Pattern from *.gridd file

Undo/Redo

Undo and Redo buttons are located on the top toolbar.



Figure 112: Undo (left), Redo (right)

Clicking the Undo button on the left, will undo the last drawing that was done. It will also undo changes to the grid size. It does not undo changes to the cell size.

Clicking the Redo button will redo the last Undo that was done.

Working with Colors

Edit Palette

Any palette can be modified. The Custom palette is empty to start, you may add any colors to that palette you would like.

To modify a palette:

- 1) Select the Palette option from the Project dropdown menu. The Select Palette dialog is displayed.

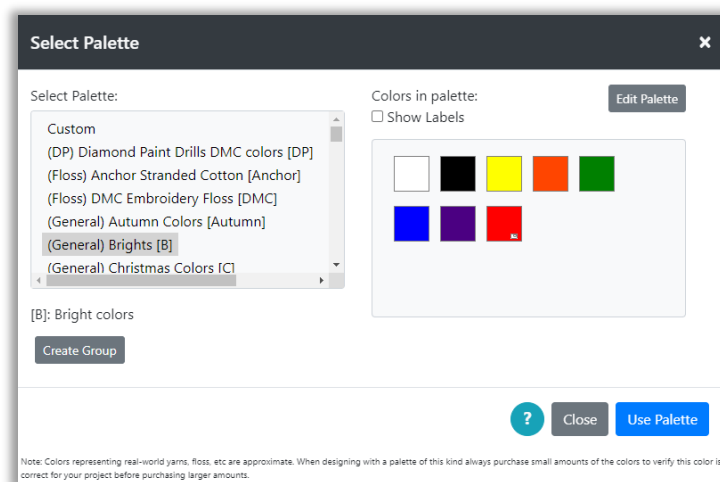


Figure 113: Select Palette Dialog

- 2) Select the palette you wish to modify from the list on the left.

- 3) Click the Edit Palette button on the upper right of the Select Palette dialog. The dialog will be updated to the Edit Palette Dialog.

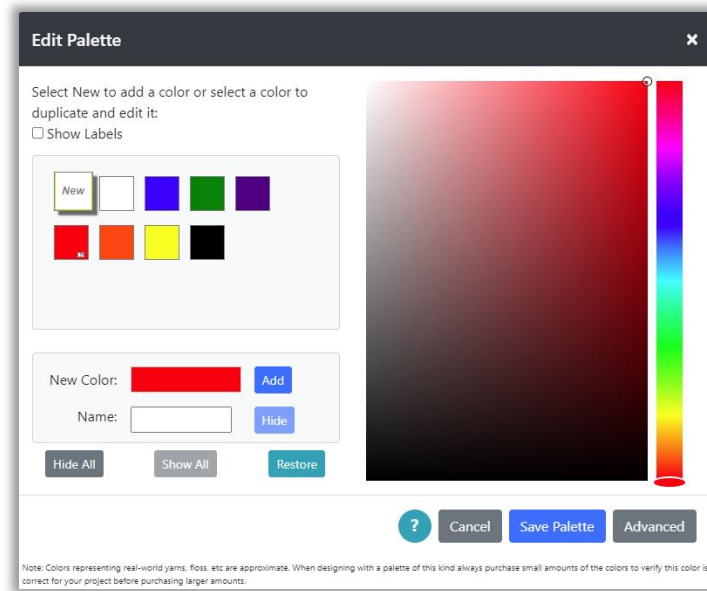


Figure 114: Edit Palette Dialog

- 4) Here you can do the following:
- Add a new custom color to the palette
 - Hide existing colors from view
 - Remove custom colors from the palette
 - Hide All existing colors or Show All
 - Restore the palette to its original colors
- 5) To add a color, select the New button on the upper left of the color list. If you have just come into the dialog, this button will already be selected.

To the right of the color list are two color panels. The panel on the far right provides a slider where we can select the general hue of the color, we'll call this panel the **Huebar**. The panel on the left is a large panel where we can change the brightness and saturation of the hue we select; we'll call this the **Brightness Panel**.

- 6) To create a color, move the slider on the Huebar to the hue you want. Here we are selecting a blue-green hue. You can move the slider by dragging it or clicking on the color you want.

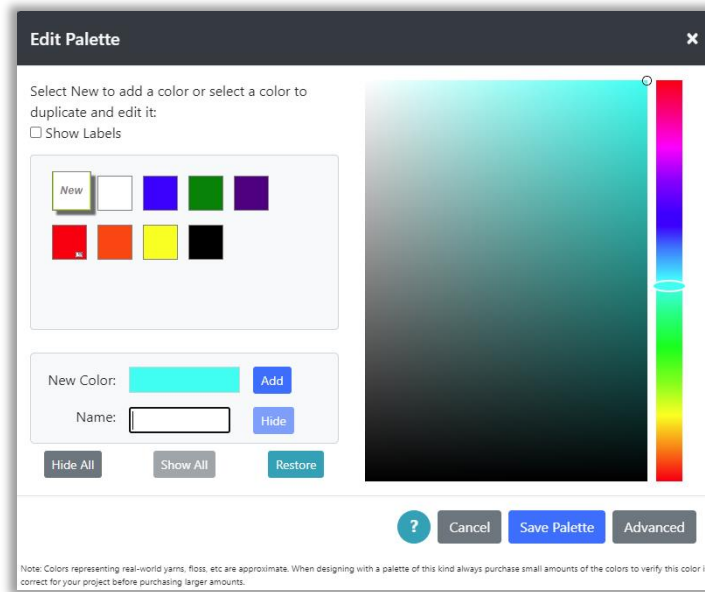


Figure 115: Edit Palette Dialog with blue-green hue selected

- 7) On the large Brightness Panel there is a small circle that indicates the current selection. Initially this is placed on the upper right of the Brightness Panel.

The position of the circle selection indicates how bright and how saturated the hue will be. The figure below shows how saturation and brightness change in the Brightness Panel.



Figure 116: Brightness Panel

When the circle is positioned on the upper right, this is the brightest and most saturated color for the selected hue. Moving the circle down the panel, reduces brightness, making the color darker. Moving the circle to the left reduces saturation, fading the color.

- 8) The values for hue, saturation and brightness can be seen and modified directly by clicking the Advanced button on the lower right. This will show an advanced panel below the dialog.

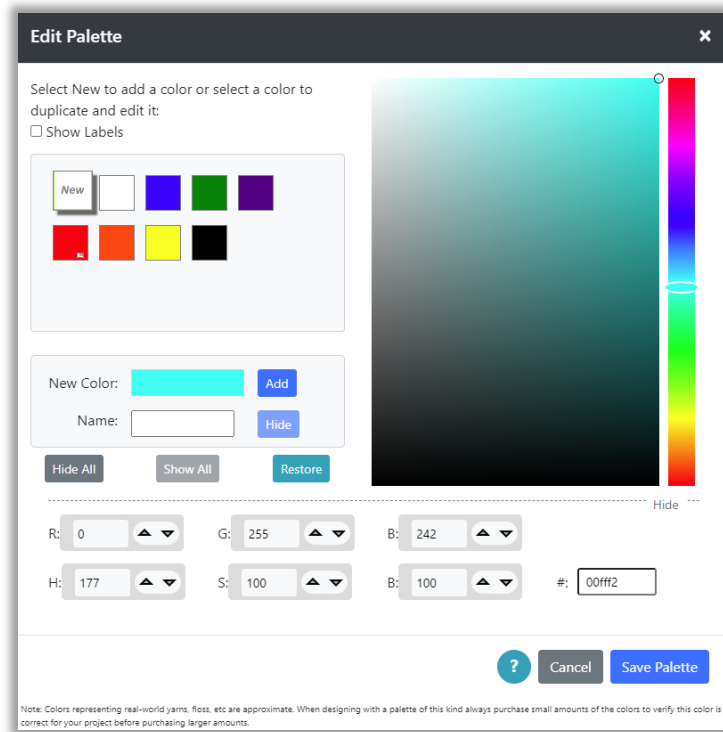


Figure 117: Edit Palette Dialog with Advanced options

- 9) The advanced panel can be used to view and edit color values directly. Referring to the figure above, this panel shows:
- R, G and B values: These are Red, Green and Blue values of the current color. RGB color values are commonly used to specify colors on a computer. If you have a color that you have selected from elsewhere, such as a paint or drawing program. There is likely a way you can view the color's RGB values in that program. You can then enter those values here, to define the same color. These values range from 0 to 255.
 - H, S, B values: These values correspond directly to the Huebar and the Brightness Panel selections. H is hue, S is saturation and B is brightness. H ranges from 0 to 360 where 0 and 360 represent the same color (red). S and B range from 0 to 100.
 - On the bottom right of the advanced panel is the # field. This shows the color's RGB values in hex notation. This is also a common shortcut for specifying the RGB values. If you know a color's hex code, you can enter it here.

10) To complete adding the new color, complete selection of the new color, either by entering values in the advanced panel or by user the Huebar and Brightness Panel. The currently selected color is shown in the rectangle next to the New Color field.

11) Once you have the color you want, enter a name for the color in the Name field.

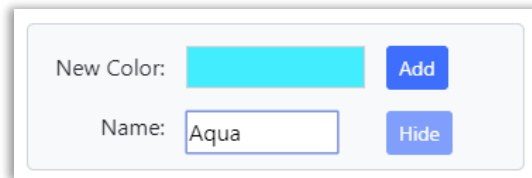


Figure 118: Adding New Color Aqua

12) Click the Add button to the right of the New Color rectangle. The color will be added to the color list. The name in the list can be viewed either by selecting the Show Labels checkbox, or by viewing the tooltip for the color by placing the mouse over the color square in the list.

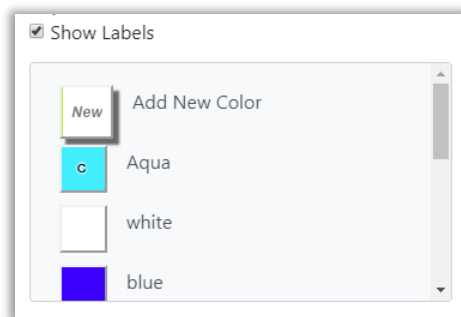


Figure 119: Custom Color Aqua Added

13) Note that the color added is marked with a “C”, for custom, in the center of its color square. This indicates that the color was not originally part of the color palette, it was added by you.

14) Custom colors can be removed at any time by selecting the color in the color list and clicking the Remove button. You can remove ALL of the added colors by clicking the Restore button.

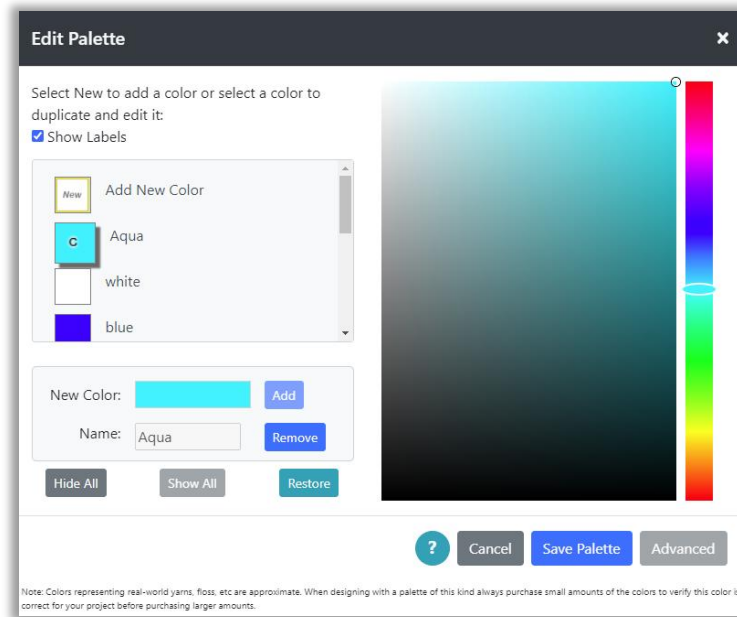


Figure 120: Removing Custom Color

- 15) Note that the Remove button changes between “Remove” and “Hide” functions, depending upon which color is selected. If a custom color is selected, the button performs the Remove function, removing that color from the palette. If an original color is selected, the button performs the Hide function.

Sometimes it is convenient to hide original colors when you do not intend to use them. This is particularly useful when using a large yarn or floss palette, where you are only using a handful of colors. Hiding the others removes them from the display while you are working and makes it easier for you to find and select the colors you *are* using.

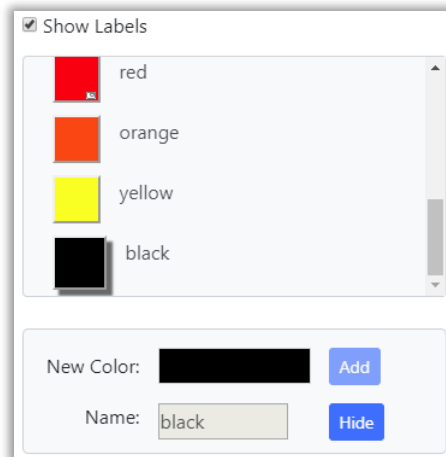


Figure 121: Hiding Original Color

- 16) Clicking the Hide button when the black color is selected (shown in the figure above), will show the color with an “H” in the middle of its color square.

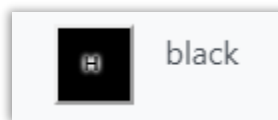


Figure 122: Hidden Color with "H"

Colors that are hidden will show when viewing and editing the palette, but will not show in the foreground and background color dropdowns while editing your design.

- 17) If you want to show a color that is hidden, simply select the color and click the Show button.

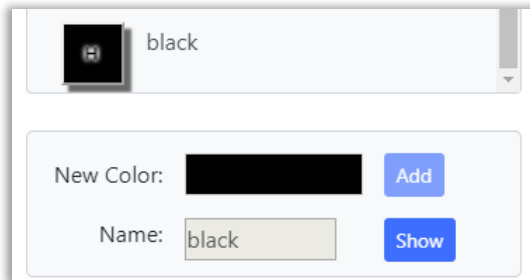


Figure 123: Showing a hidden color

NOTE: Colors that are currently being used in the pattern being edited, cannot be hidden or removed. Colors that are currently being used are marked with a small rectangular icon as shown in the figure below:

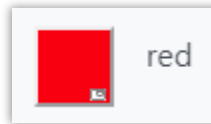


Figure 124: Icon showing color is used

- 18) For convenience when working with large palettes, there are three buttons on the bottom left of the Edit Palette dialog, Hide All and Show All and Restore.

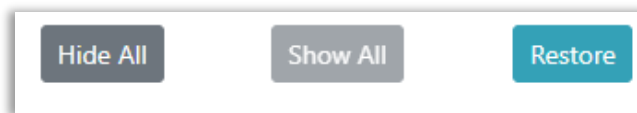


Figure 125: Hide All / Show All

Hide All can be used to hide all the original colors, then select only the few colors you will be using and Show them.

Show All can be used to return all of the original colors that have been hidden.

Restore can be used to reset the palette to its original state. This removes custom colors and shows all original colors that were hidden.

- 19) When you have finished editing your palette, click the Save Palette button at the bottom of the dialog. If you want to discard the changes you have made, click the Cancel button. In both cases, you will be returned to the Select Palette dialog, where you can either select another palette to edit, or select a palette to use.

Palette Groups

You can create groups of palettes and use the group in the same way you would use a single palette.

To create a palette group:

- 1) Open the Select Palette dialog with Project > Palette.
- 2) Click the Create Group button on the lower left of the dialog. This will open a new section in the middle of the Select Palette dialog where you can create the group.

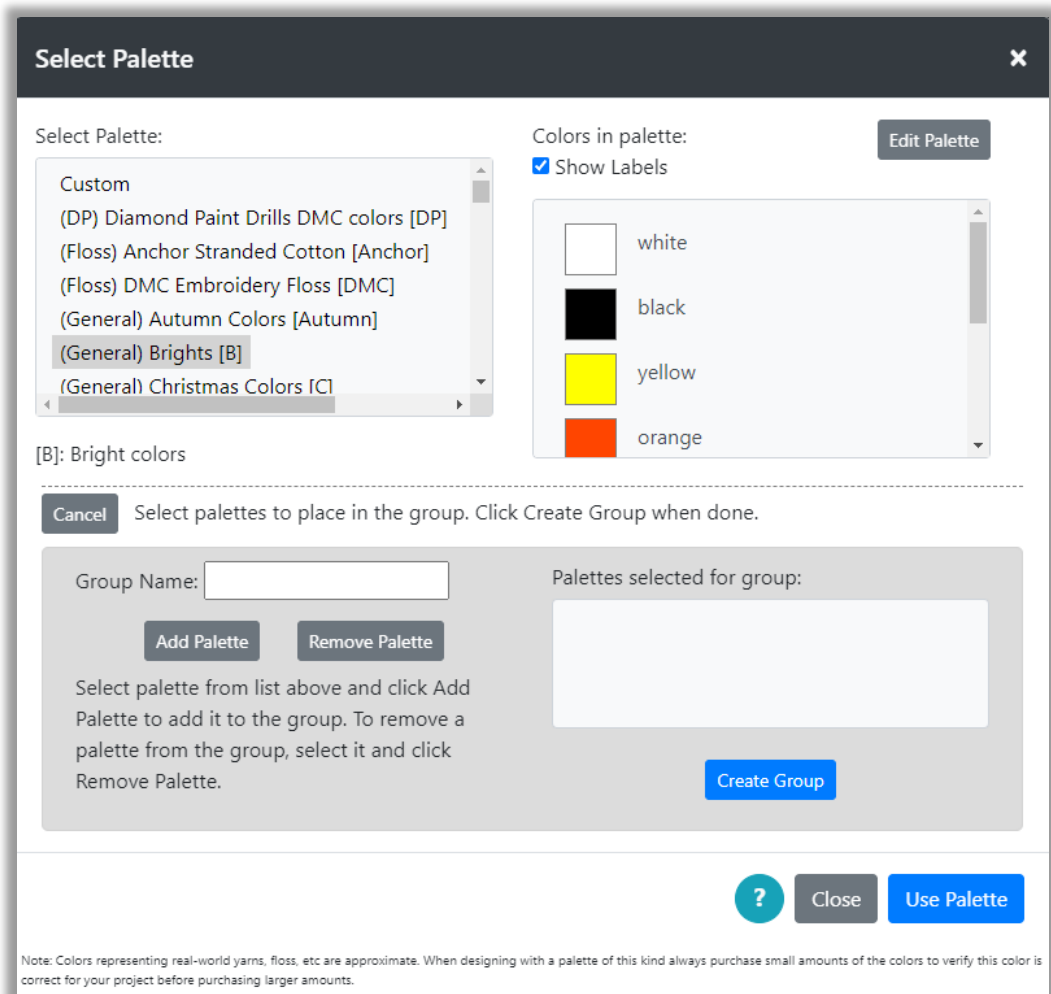


Figure 126: Create Group

- 3) Type in a name for the group in the Group Name field.
- 4) Select palettes from the palette list above and click the button Add Palette to add them to the list of palettes selected for the group.

Select Palette

Select Palette:

(Yarn3) Bernat Softee Baby Yarn [BSB]

(Yarn3) Herrschners My Ami Yarn [HMA]

(Yarn3) Mary Maxim Mellowspun DK [MMMC]

(Yarn3) Patons Astra [PA]

(Yarn3) Premier Afternoon Cotton [PAC]

(Yarn3) Premier Anti-Pilling Everyday DK [PAE]

(Yarn3) Premier Bamboo Fair [PBF]

Colors in palette:

☒ Show Labels

White

Aran

Silver Gray Mix

Medium Gray

Buy here: [Patons Astra \[PA\]](#)

[PA]: Patons Astra Yarn, acrylic, wt 3

Cancel

Select palettes to place in the group. Click Create Group when done.

Group Name:

Add Palette

Remove Palette

Select palette from list above and click Add Palette to add it to the group. To remove a palette from the group, select it and click Remove Palette.

Palettes selected for group:

(Yarn3) Bernat Softee Baby Yarn [BSB]

(Yarn3) Patons Astra [PA]

Create Group

?

Close

Use Palette

Note: Colors representing real-world yarns, floss, etc are approximate. When designing with a palette of this kind always purchase small amounts of the colors to verify this color is correct for your project before purchasing larger amounts.

Figure 127: Group Palette List

- 5) To remove a group from the list, select it and click Remove Palette.
- 6) When you have all the palettes you want in your group, select the Create Group button and the group will be added to the palette list, just below the Custom palette.

Copyright © 2020-2025 Agnes Freese. All rights reserved

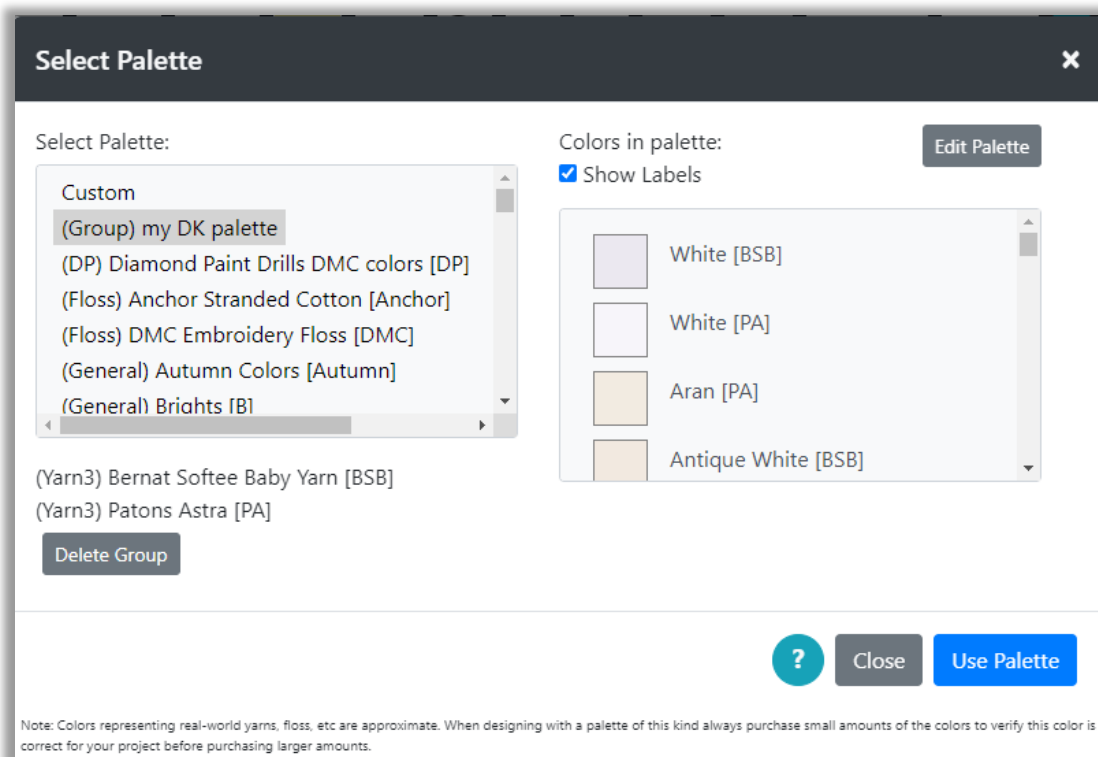


Figure 128: New Group Created

- 7) Each palette has an abbreviation. These are shown in the palette list inside square brackets. For example, the abbreviation for the “Diamond Paint Drills DMC Color” is DP. When a group is created, the color name in the group will have the abbreviation for the palette they come from at the end of the color name. Note the [BSB] for the white from Bernat Softee Baby and the [PA] from Patons Astra yarn. This will indicate which yarn the color corresponds to.

If multiple palettes contain exactly the same color, then only one of them will show in the group.

To delete a palette, select it in the Select Palette dialog and click the Delete Group button. If you later open a project that used the group, the group will be recreated in the palette list.

If you share a project that uses a group with another person using Grid Designer, then when they open the project, the group you created will be created in their system.

You may edit groups in the same way you edit palettes. See the section [Edit Palette](#).

Once added, the group can be selected from other areas of Grid Designer, such as Project > New Project and Project > Create From Image. It can be used like any other palette.

Substitute Colors

Substitution of colors is initiated with the Substitute Colors button located on the top toolbar. It can be limited to a selected area by first selecting an area with the [selection tool](#).



Figure 129: Substitute Colors Button

To substitute colors:

- 1) If you want to limit the area that is changed, select an area with the [selection tool](#). You can select rectangular areas and/or single color and/or multi-color connected motifs. When you select Substitute colors, only the areas selected will be modified. You will see the selected areas highlighted with checkmarks on each selected cell and the area containing selections to be enclosed with a rectangular box.
- 2) Click the Substitute Colors button on the top toolbar. The Substitute Colors dialog is displayed.

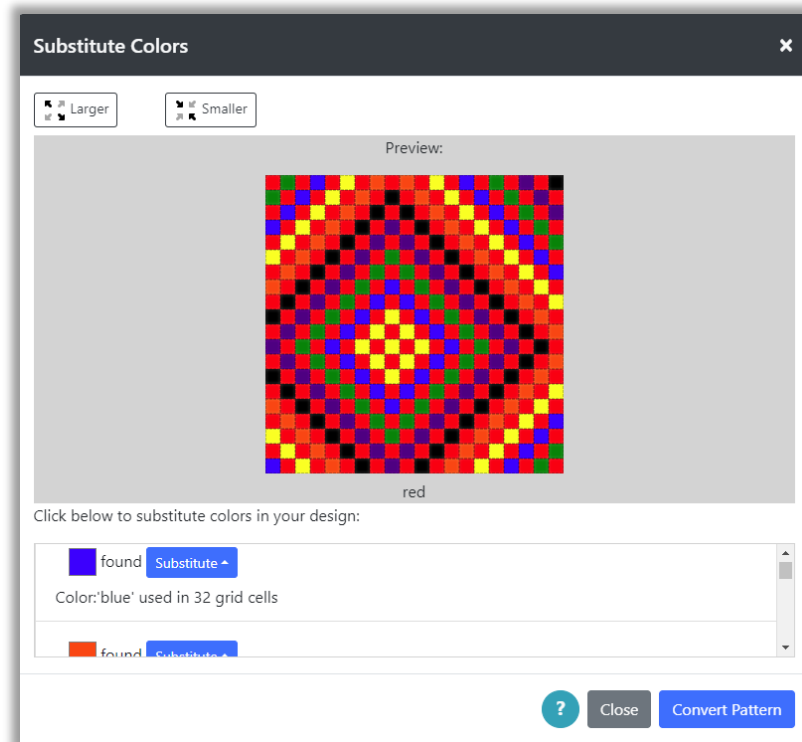


Figure 130: Substitute Colors Dialog

- 3) This dialog shows a picture of your current project grid. Each color that is found in your grid is listed below the picture with a Substitute button. Moving the mouse over the preview picture will show you the name of the color in that cell. Clicking a cell on the picture will scroll the list to show that color. For instance, clicking a yellow cell will scroll the list to show the color yellow.

If you have selected an area, that area will be shown in the substitute colors dialog as a rectangular area. Even if you select a motif, a rectangular area will be shown in the dialog, but only the motif's colors will be modified.

You can make the preview picture smaller and larger by using the buttons on the left.

- 4) To substitute one color for another, click the substitute button next to the color you want to replace. A small popup will appear with the colors you may select from.

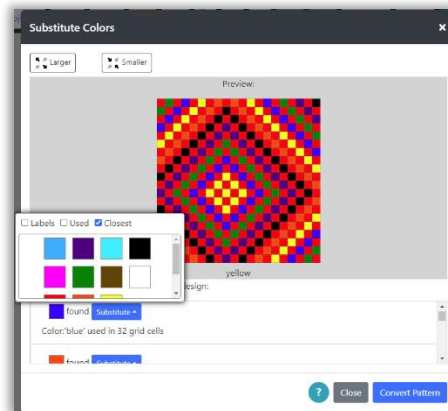


Figure 131: Select Color to substitute

- 5) In the figure above we select a color to replace blue in the grid. After selection, the picture is updated with the new color. Here blue has been replaced with white. If a selected area was created before clicking the Substitute Colors button, then only those cells in the selected area will be modified.

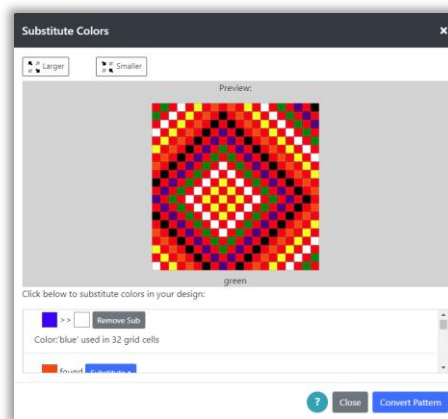
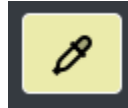


Figure 132: Color Substituted

- 6) To remove the color substitution, click the Remove Sub button.
- 7) Make other color substitutions as needed.
- 8) When the picture is what you would like, click the Convert Pattern button and your main grid will be updated with the color substitutions.
- 9) Substitutions done from the Substitute Colors button are undoable. You can use the Undo button to undo them, once you click the Convert Pattern button.

Color Dropper

You can set the foreground and background colors to the color of a cell in the grid with the color dropper button.



To use the color dropper:

- 1) Click the color dropper button on the main toolbar. A hint will be displayed the first time you do this, giving you directions to click on a cell on the grid to select the color of that cell. Close the hint box or select Got it! at the bottom and close if you don't want to see the hint again.
- 2) Click on a cell on the grid that you want to select the color of.
- 3) A dialog will pop-up asking if you want to set the foreground or background color. Select the one you want and click OK.

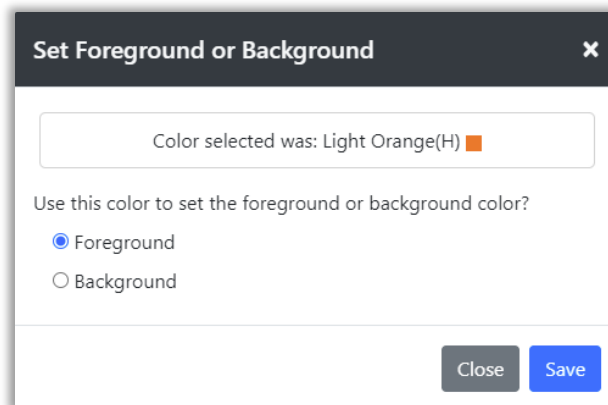


Figure 133: Set Foreground or Background Dialog

Display Menu

The Display Menu appears on the right side of the main toolbar and allows the user to modify how the grid and mouse are displayed.

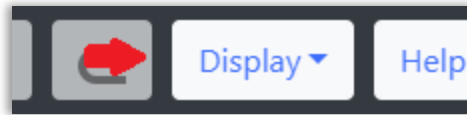


Figure 134: Display Menu Location

When opened, the menu contains the following items:

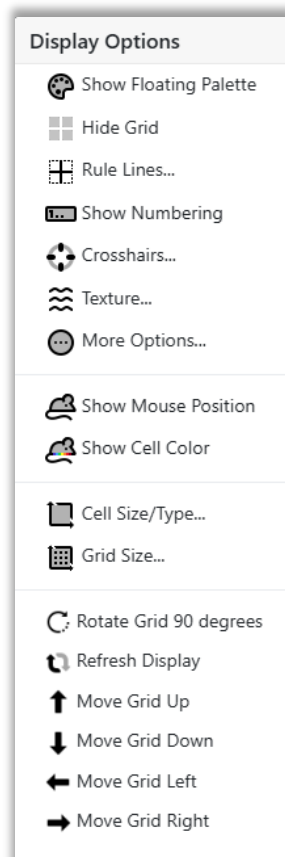


Figure 135: Display Menu Options

Some items will be hidden when the menu opens; access all items in the menu by scrolling. Each of these options will be discussed in the following sections.

Show Floating Palette

The Show Floating Palette option on the Display menu toggles the floating palette, on and off. When the palette is turned on it initially appears in the upper left corner of the screen. It can be moved anywhere and used to select the foreground and background colors in place of selecting them from the dropdowns on the top toolbar. The floating palette contains three sections, Foreground Color,

Background Color and Design Symbols. Checkboxes at the top work the same way as these checkboxes do on the foreground and background pull-down menus on the top menu bar. The Floating Palette can be easier to access than the dropdowns and can be freely moved around the screen by grabbing the gray bar at the top.

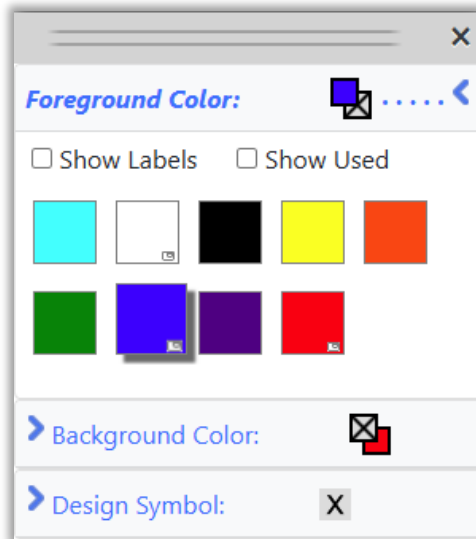


Figure 136: Floating Palette

Show/Hide Grid Lines

The Show/Hide Grid Lines option on the Display menu toggles the dashed grid lines which are drawn at the cell level, on and off.

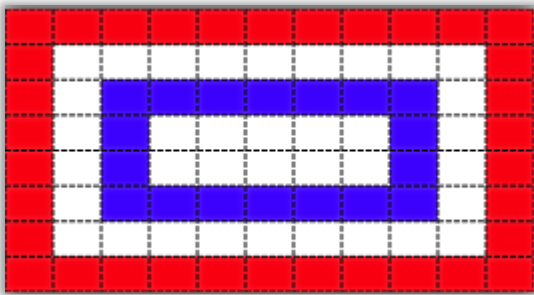


Figure 137: Grid On

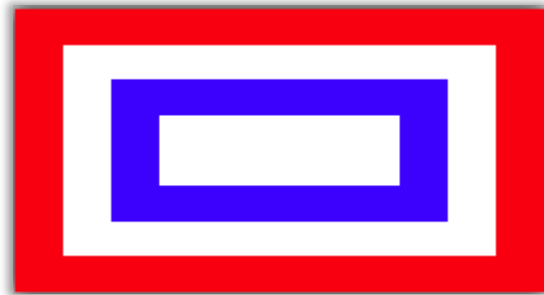


Figure 138: Grid Off

Show/Hide Mouse Position

The Show/Hide Mouse Position option on the Display menu toggles the visible position of the mouse.

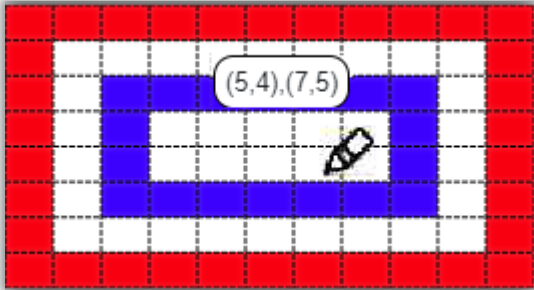


Figure 139: Mouse Position On

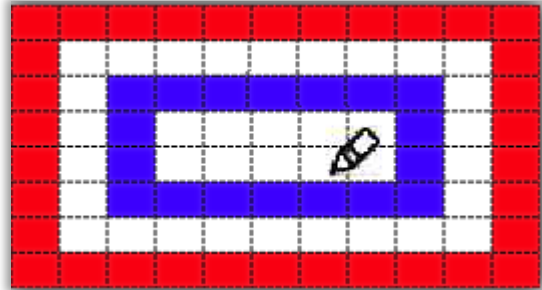
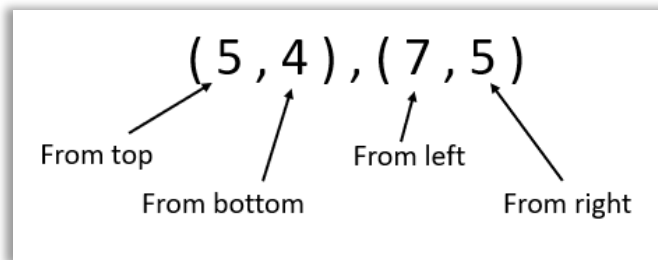


Figure 140: Mouse Position Off

The format for the mouse position is:

(#rows from top, #rows from bottom), (#columns from left, #columns from right).



So, in the figure above, the value (5,4), (7, 5) means that the mouse is in the 5th row from the top and 4th row from the bottom. It is in the 7th column from the left and the 5th column from the right.

When the mouse position is on, the position of a pasted item is also shown as the pasted item is moved.

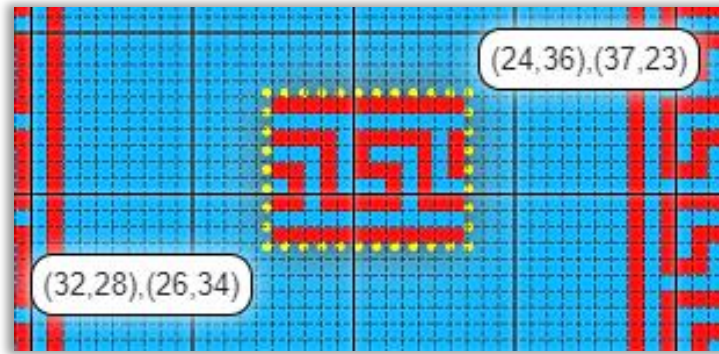


Figure 141: Mouse Position of Paste

Show/Hide Numbering

The Show/Hide Numbering option in the Display menu turns numbering on and off.

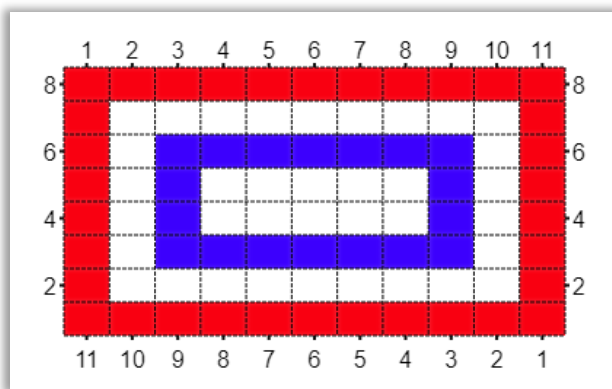


Figure 142: Numbering On

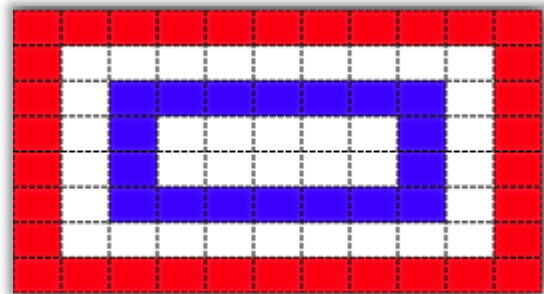


Figure 143: Numbering Off

Crosshairs...

Selecting the Crosshairs option will show the Turn Crosshairs On/Off dialog, where you can select up to 6 crosshairs that can be displayed over your grid.

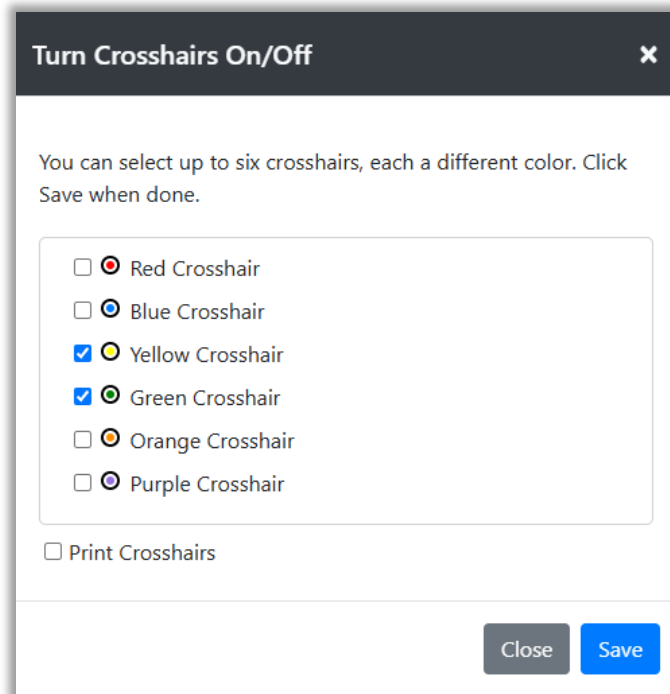


Figure 144: Turn Crosshairs On/Off

These crosshairs can be used as guidelines to help you when editing your design. For instance, when I make Christmas stocking patterns, those patterns are 62 sts wide, but only the center 30 stitches appear on the front of the stocking. To define the edge of these 30 stitches, crosshairs could be put up over the pattern 16 spaces from each side so that it is clear where the edge of the front of the stocking ends (see figure below).



Figure 145: Crosshair Example

Crosshairs can be used in any way you find them useful when working on your drawing.

Select the crosshairs you want to show on your grid from the Turn Crosshairs On/Off dialog, select Print Crosshairs if you want them on your printed or downloaded chart, then click Save. Multiple crosshairs will initially be drawn on top of one another. Select the circle at the center of the crosshairs and drag to move the center to the position you would like. *Tip: to see the position of the crosshair center as you drag, select the Display > Show Mouse Position option.*

Texture ...

Selecting Texture from the display menu will bring up the Show Texture dialog. This dialog allows you to turn texture on and off and select different textures to show such as, knitting, single crochet, cross stitch, etc. The texture setting is saved with your project. Simply select the Show Texture checkbox and then select the texture you want to display. Then click Apply.

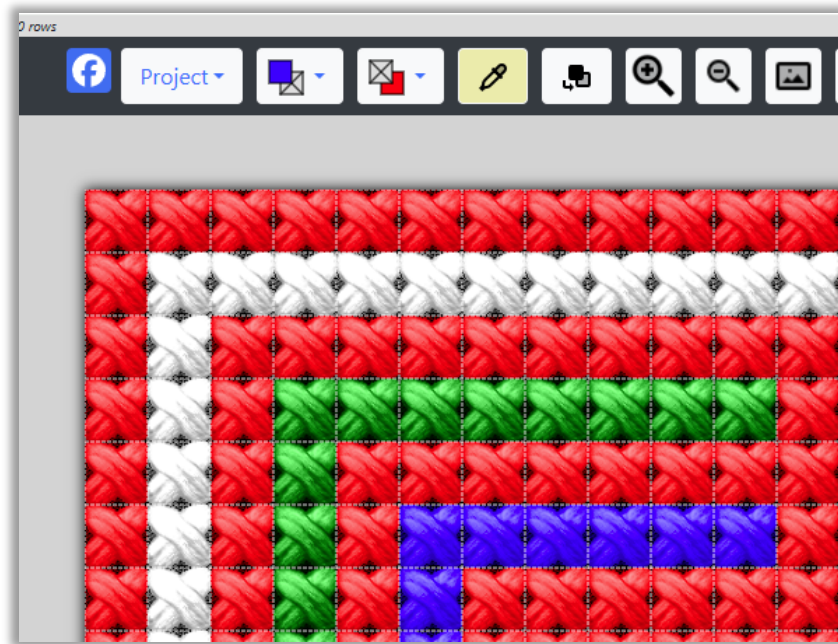
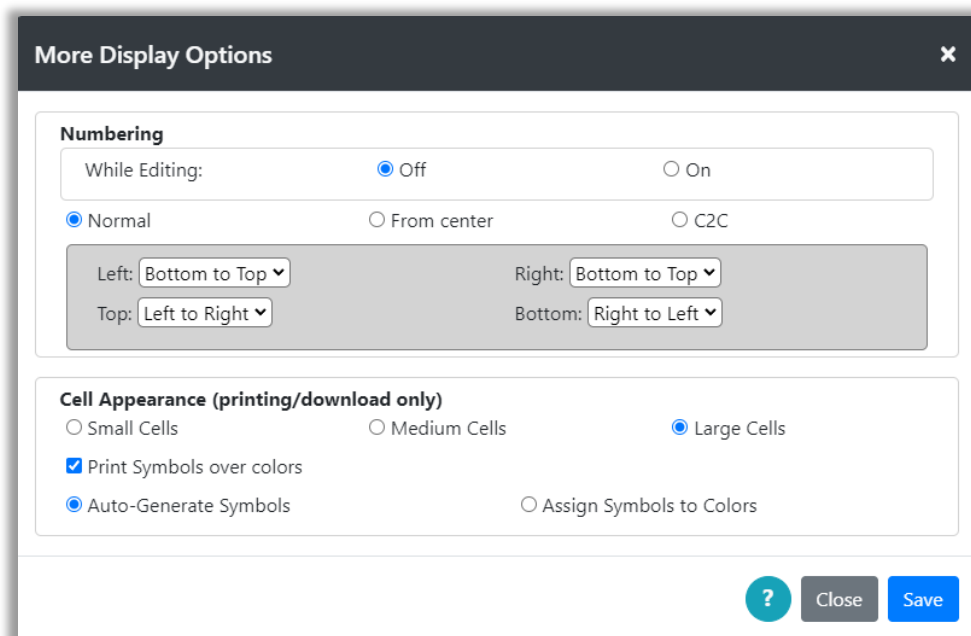


Figure 146: Cross-stitch Texture Example

More Options...

Selecting More Options from the display menu will bring up the More Display Options dialog. This dialog contains more display options, as well as printing options.



The dialog box is titled "More Display Options" and has a close button (X) in the top right corner. It contains two main sections: "Numbering" and "Cell Appearance (printing/download only)".

Numbering Section:

- While Editing:** Two radio buttons, "Off" (selected) and "On".
- Numbering Scheme:** Three radio buttons: "Normal" (selected), "From center", and "C2C".
- Directional Controls:** A greyed-out area containing four dropdown menus:
 - Left: Bottom to Top
 - Right: Bottom to Top
 - Top: Left to Right
 - Bottom: Right to Left

Cell Appearance (printing/download only) Section:

- Cell Size:** Three radio buttons: "Small Cells", "Medium Cells", and "Large Cells" (selected).
- Print Symbols over colors:** A checked checkbox.
- Symbol Generation:** Two radio buttons: "Auto-Generate Symbols" (selected) and "Assign Symbols to Colors".

At the bottom right, there is a help button (question mark icon), a "Close" button, and a "Save" button.

Figure 147: More Display Options dialog

Numbering Options

The top section allows control over how row and column numbers appear. If the While Editing is turned off, the numbering will apply only to print and download. See the [Print](#) and/or [Download](#) sections for more information. If the While Editing is turned on, the numbering will show on the main display while you are editing.

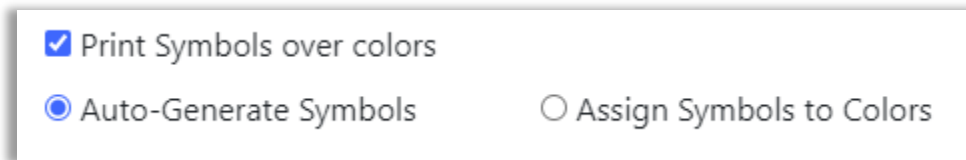
To change the way numbering appears, the user may select either Normal, From Center or C2C numbering.

- Normal Numbering – with this numbering scheme, the user can select how they would like the row and column numbers to appear on each side of the grid.
- From Center – with this numbering scheme, numbers start from the center of each side and the center row is numbered with zero.
- C2C – this numbering scheme is provided for Corner2Corner crochet where the work is created starting from a corner of the diagram. The user can select the corner they wish to start numbering from when C2C is selected.

Click the Save button to save your selections.

Cell Appearance (printing/ download only)

The bottom section allows control over cell appearance for print/download. The checkbox 'Print Symbols over colors' will allow you to print symbols rather than colors on the printed chart. When print symbols is selected, more options will be shown.



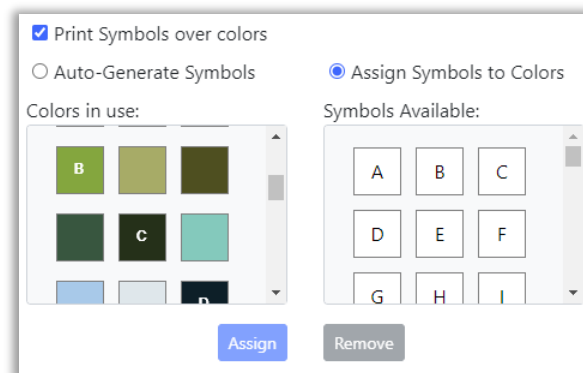
☒ Print Symbols over colors

☒ Auto-Generate Symbols ☐ Assign Symbols to Colors

Figure 148: Print Symbols

You may select either to Auto-Generate Symbols or Assign Symbols to Colors manually. If the Auto-Generate option is selected, then the Grid Designer will assign symbols to all colors and they will appear when you print or download your project.

When the Assign Symbols to Colors option is selected, you will be able to see all the colors currently used in your project and select symbols for any that you want.



☒ Print Symbols over colors

☐ Auto-Generate Symbols ☒ Assign Symbols to Colors

Colors in use:

B		
	C	
		D

Symbols Available:

A	B	C
D	E	F
G	H	I

Figure 149: Assign Symbols

To Assign a symbol to a color:

- 1) Select the color (left) you want to assign a symbol to.
- 2) Select the symbol (right) you want to assign to that color.
- 3) Click the Assign button to make the assignment. The symbol will then appear on the color square on the left.
- 4) If a color has already been assigned, you can select a different symbol by selecting the color again, selecting a different symbol and clicking the Assign button again.

To Remove a symbol from a color:

- 1) Select a color that has a symbol displayed on it (left).
- 2) Click the Remove button to remove the assignment. The symbol will then disappear from the color square on the left.

The assigned symbols will be saved with the current palette and will be used for every project that uses the currently selected palette. At the current time they are saved in browser local storage rather than in the cloud, so they can differ on different devices.

Click the Save button to save your selections.

Changing Cell Size/Type

The Cell Size/Type option in the Display menu displays the Change Cell Size dialog.

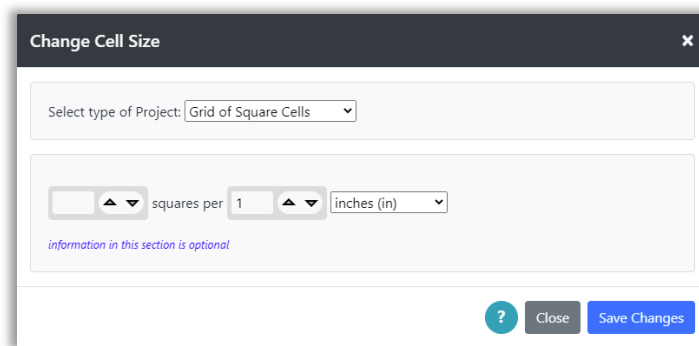


Figure 150: Change Cell Size dialog

This dialog allows you to redefine your project type and/or the cell size of your grid. Its use is the same as described under the New Project option of the Project menu ([See that section for details](#)).

NOTE: Changing project type is not an un-doable action. Save your project before you convert to another type, then do a Save As to save the resultant project after changing the type to make sure you separate the original from the newly typed project.

Here are some situations where this might be useful:

- a) Suppose you have been working on a cross-stitch project and you want to see the size of the project if you work your project on a different cloth with a different number of stitches per inch. You would select the different cloth here and view the size of your project in the Project → Project Info dialog.
- b) You have been using the general knitting gauge to create your design, but you have now decided on a specific yarn and have knitted a sample swatch that you can use to determine the gauge of your project. You want to enter this information here and see how that changes your pattern size.
- c) You have a pattern for a latch hook rug, but now you want to create a similar pattern for cross-stitch so that you can make a wall-hanging to match the rug. Open your latch hook project, do a Project > Save As to make a new place for the cross-stitch project. Then select Display > Cell Size/Type and change the type to cross-stitch; select the cloth type. Click on Save Changes. In this case you would likely want to select a different palette. You can select Project > Palette, then select something like DMC floss and click Use Palette and follow the instructions to convert to that palette.
- d) You can take a Mosaic / Overlay Crochet project and convert it to a reversible crochet project by changing the type from Mosaic / Overlay Crochet to Reversible Mosaic / Overlay crochet. Additional stitches will be added to make your project reversible.

Changing Grid Size

The Grid Size option in the Display menu allows you to add or subtract rows and columns from the edges of your grid and also allows you to resize your project. When you select the Grid Size option, the Grid Size dialog is displayed.

The **Grid Size** dialog box is shown. It has a title bar with a close button (X). The main content area is divided into several sections:

- Current Grid Size:** A section titled "The **current** number of rows and columns is:" with input fields for "Rows: 28" and "Columns: 24".
- New Grid Size:** A section titled "Enter the **new** number of rows and columns below:" with input fields for "Rows: 28" and "Columns: 24". Below these fields is a checkbox labeled "Maintain Original Aspect Ratio".
- Visual Representation:** A diagram of a rectangle with "0" at each of its four corners, representing a grid.
- Change Controls:** Two sections for "Total Change in Rows" and "Total Change in Columns". Each has a numeric input field (both set to "0") and a dropdown menu for "Change Rows" (set to "Bottom") and "Change Columns" (set to "Right").
- Scale Existing Drawing to Fit:** A checkbox at the bottom of the main content area.
- Buttons:** At the bottom of the dialog are three buttons: a help button (question mark icon), a "Close" button, and a "Save changes" button.

Figure 151: Grid Size Dialog

At the top of the dialog the current number of rows and columns are shown. These values are fixed and are for reference as you select to add or delete columns in the next section of the dialog.

You can change the number of rows and columns in multiple ways, either by modifying the row and column totals directly, or by entering a change in rows or columns below.

If you want to maintain the aspect ratio of your project grid, click the Maintain Original Aspect Ratio Checkbox just under the Rows and Columns fields. When the checkbox is checked, any change you make to Rows will cause the number of columns to be calculated, and any change you make to Columns will cause the number of rows to be calculated. The calculation then maintains the aspect ratio of the original grid.

If the Maintain Original Aspect Ratio Checkbox is not checked, you are free to change both Rows and Columns to any value you wish as in the following example.

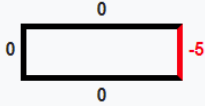
Example

Suppose we have a 20 x 20 grid and suppose we need to remove 5 columns from the left side of the grid. Enter -5 through typing or by clicking the down arrow 5 times in the “Total change in columns” field. This will reduce the number of columns by 5.

Enter the **new number of rows and columns** below:

Rows: Columns:

☐ Maintain Original Aspect Ratio



Total Change in **Rows**: Change **Rows**:

Total Change in **Columns**: Change **Columns**:

But we want the change to be on the left side, so, select Left from the “Change Columns” dropdown.

Total Change in **Columns**:

Change **Columns**:

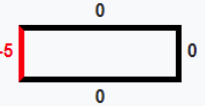
- Right
- Right
- Left
- Both Left and Right

This will result in:

Enter the **new number of rows and columns** below:

Rows: Columns:

☐ Maintain Original Aspect Ratio



Total Change in **Rows**: Change **Rows**:

Total Change in **Columns**: Change **Columns**:

Now the 5 columns will be taken off of the left side of the grid. Click Save Changes to make the change to the grid.

Now suppose after working on our design, we would like to add 1 row and column to all sides of the grid. We open the Grid Size dialog again and reduce by 2 rows and 2 columns in total. Then select “Change Rows” to be Both Top and Bottom and “Change Columns” to be Both Left and Right.

Note that the diagram in the center shows what the final changes to the grid will be.

Click the Save Changes button to make the change to the grid.

In the example above we did not change any existing picture that might have been drawn on the grid before the number of rows and columns were changed. At the bottom of the Grid Size dialog is a checkbox labeled Scale Existing Drawing to Fit. When this checkbox is selected, any picture drawn on the original grid will be resized to the new number of rows and columns. That means it will be skewed or stretched to fit the new size grid. This feature can be used to resize any drawing you have on your grid.

If you have defined the project type and cell size, you will also be able to see the size of your grid in real-world units such as inches or centimeters. In this case the Grid Size dialog will show those units in addition to the number of rows and columns. As you change the number of rows and columns, the height and width of the project will be recalculated:

Grid Size [X]

The **current** grid size is:

Rows:	20	Columns:	20
Ht(in):	3.478	Wid(in):	4.706

Enter the **new number of rows and columns** below:

Rows:	20	Columns:	20
Ht(in):	3.478	Wid(in):	4.706

☐ Maintain Original Aspect Ratio

0

0 0

0

Total Change in **Rows**: 0 Change **Rows**: Bottom

Total Change in **Columns**: 0 Change **Columns**: Right

☐ Scale Existing Drawing to Fit

? Close Save changes

Figure 152: Grid Size with real-world units

To define your project type and cell size, you must have created your project with either Project > New Project or Project > Create from Image and defined specific sizing information that references inches/cms/mms. Or, used the Display > Cell Size/Type to set that information for an existing project.

To enlarge or shrink your drawing and maintain aspect ratio:

- 1) Select Display → Grid Size; the Grid Size dialog will be displayed.
- 2) Check the Scale Existing Drawing to Fit checkbox at the bottom of the dialog.
- 3) Check the Maintain Original Aspect Ratio checkbox just under the Rows and Columns fields.
- 4) Change either the Rows or Columns value, the other value will be calculated.
- 5) When you have the size you want, click the Save Changes button.
- 6) The grid will be resized AND the picture will be rescaled to fit.

Rule Lines

The Rule Lines option on the Display menu allows you to draw solid lines at defined intervals on your grid. For instance, if a pattern repeats every 5 columns or rows, you may want to define rule lines that are every 5 columns or rows to aid in working on your design.

If you are ready to print your design, you can add rule lines to make it easier to keep your place in the pattern as you work from the printed copy by adding rule lines every 3 or 5 cells or so.

If you are working on a large grid, you may also want to turn off the main grid lines and draw rule lines instead, say every 2 or 3 cells. This can make it easier for you to view the colors on your grid, but still allow you to be able to tell what cells you are working on.

When you select the Rule Lines option from the Display menu, the Set Rule Lines dialog is displayed.

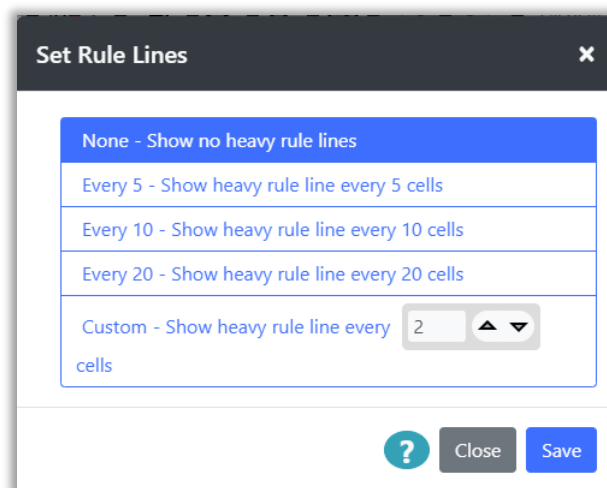


Figure 153: Set Rule Lines Dialog

The default setting is None. You can select lines every 5, 10, or 20 cells and can also set a custom rule line spacing. Select the option you want from the dialog. If you select custom, enter the number of rows/columns to have between lines. Then click the Save button to update your grid.

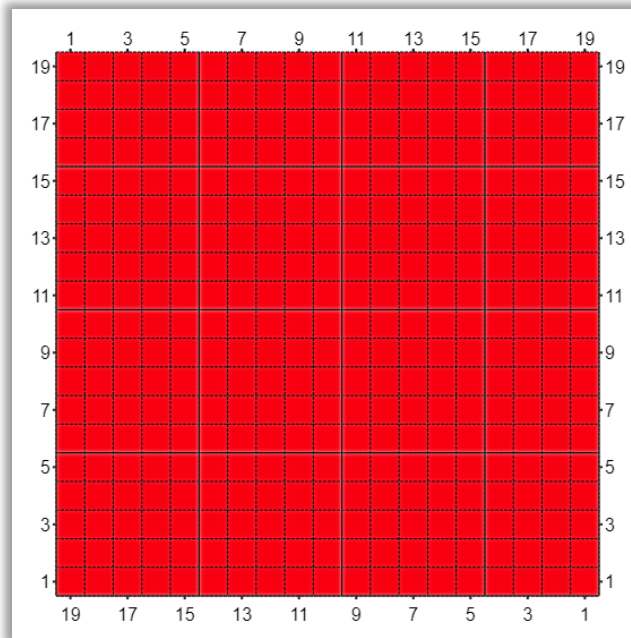


Figure 154: Rule Lines shown every 5 cells

Rotate Project Grid

You can rotate the entire project grid by $\frac{1}{4}$ turn to the right (90 degrees). Select Display > Rotate Grid 90 degrees to rotate the entire grid.

Refresh Display

Select Display > Refresh Display to redraw the grid display. When working with a very large grid that is zoomed out, sometimes shadows can appear in certain cases. This will redraw the grid and remove any shadows from recent editing. Short-cut for this is Alt + r.

Move Options

The display menu also contains 4 options to move the grid, up, down, right and left. Select the appropriate option as desired.

The grid may also be moved with the mouse, when no mode button is selected. If the mouse cursor is showing an open hand when moved over the grid, you can grab the grid and move it in any direction.

On a desktop computer, you can move the grid with the up, down, right and left arrow buttons. See the [Keyboard shortcuts](#) section for more information on keyboard shortcuts.

Zoom

You can zoom in and out to make the grid larger or smaller. There is also a full picture option to allow you to zoom the grid to the size where the entire grid can be seen in the current viewing window.

Zoom In/Out

The Zoom In and Out buttons are located on the top toolbar. Zoom In makes the grid larger (+), zoom out makes the grid smaller (-).



Zoom to Show All

The Zoom to Show All button is located to the right of the Zoom In and Zoom Out buttons on the top toolbar.

This button allows you to zoom out to the point where the entire picture is visible in the viewing window, then zoom back to the same place you were working. It is intended to aid in working with large projects, allowing the user to work on a small area of the grid, zoom to see how the whole picture looks, then zoom back to the small area they are working in.

To use the Zoom to Show All feature:

- 1) Click the Zoom to Show All button.



- 2) The grid will be resized to show the full picture in the given window space.
- 3) The Zoom to Show All button's icon will be changed to add an undo arrow, as in the following figure:

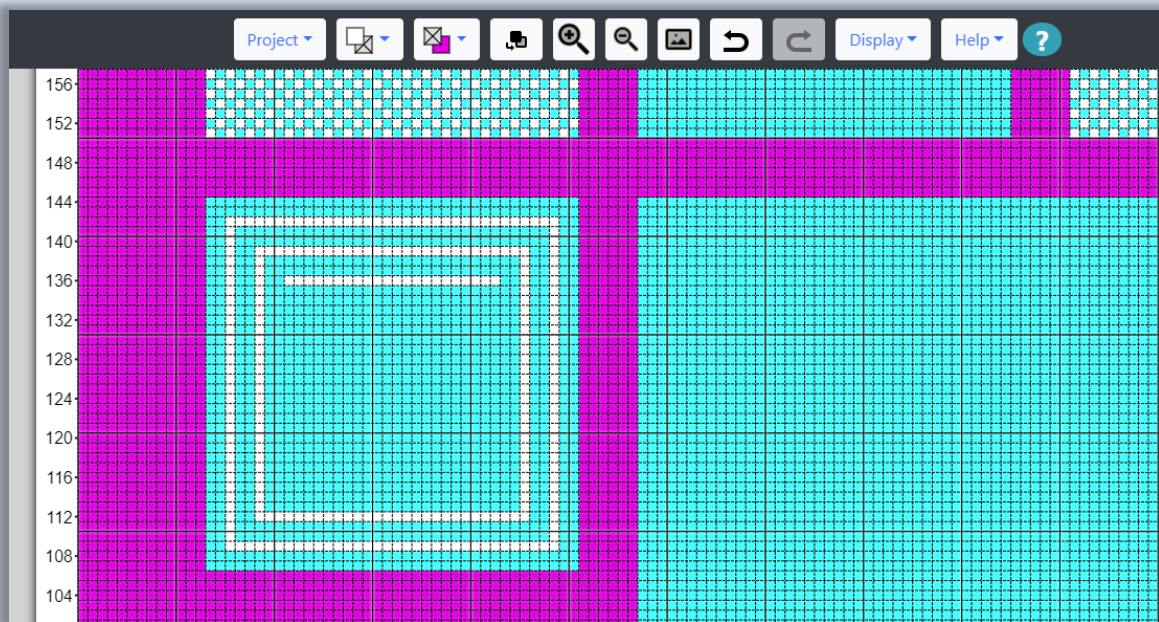


- 4) If the button is clicked while it is showing the undo arrow, the grid will return to its original zoom state and placement.

NOTE: If you have accidentally scrolled your project out of view, click the Zoom to Show All Button (picture icon) to recenter the project in the middle of your page.

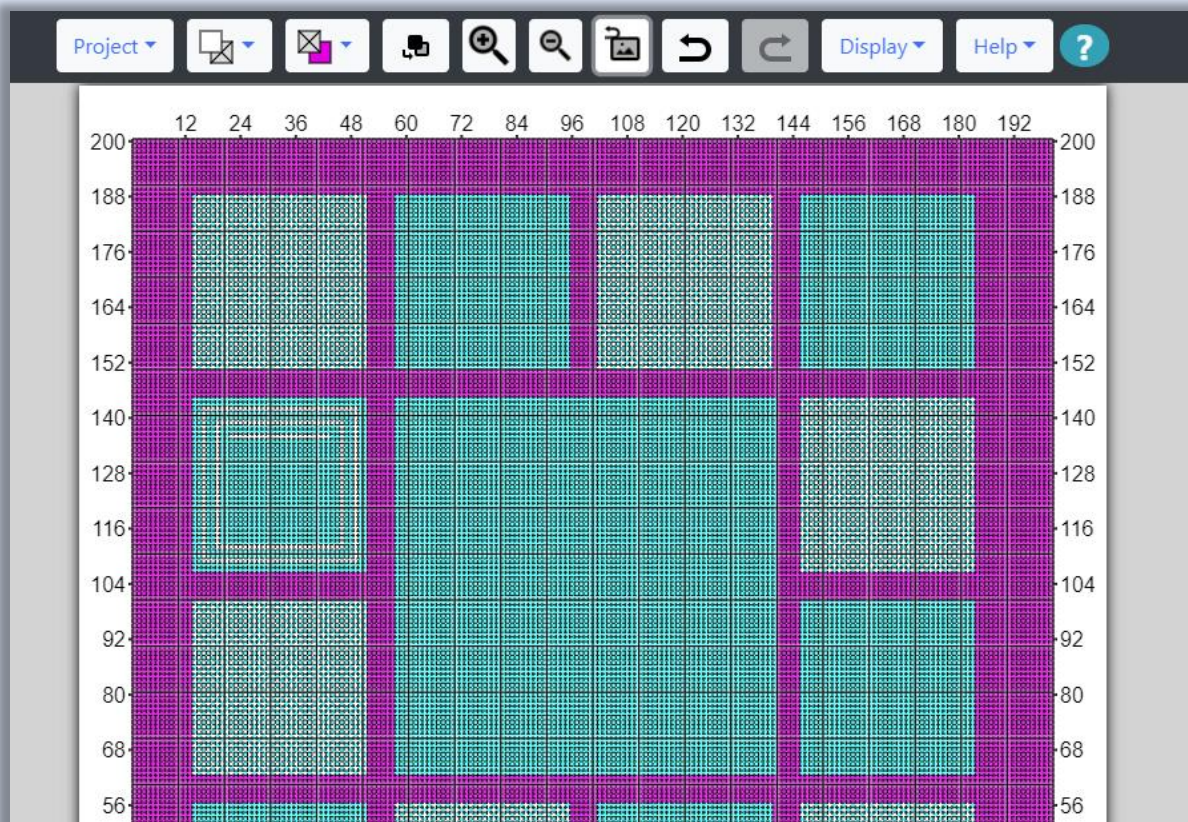
Example

In this example we are working on a design that is 200 x 200 cells. We are zoomed into a small area we are working on.

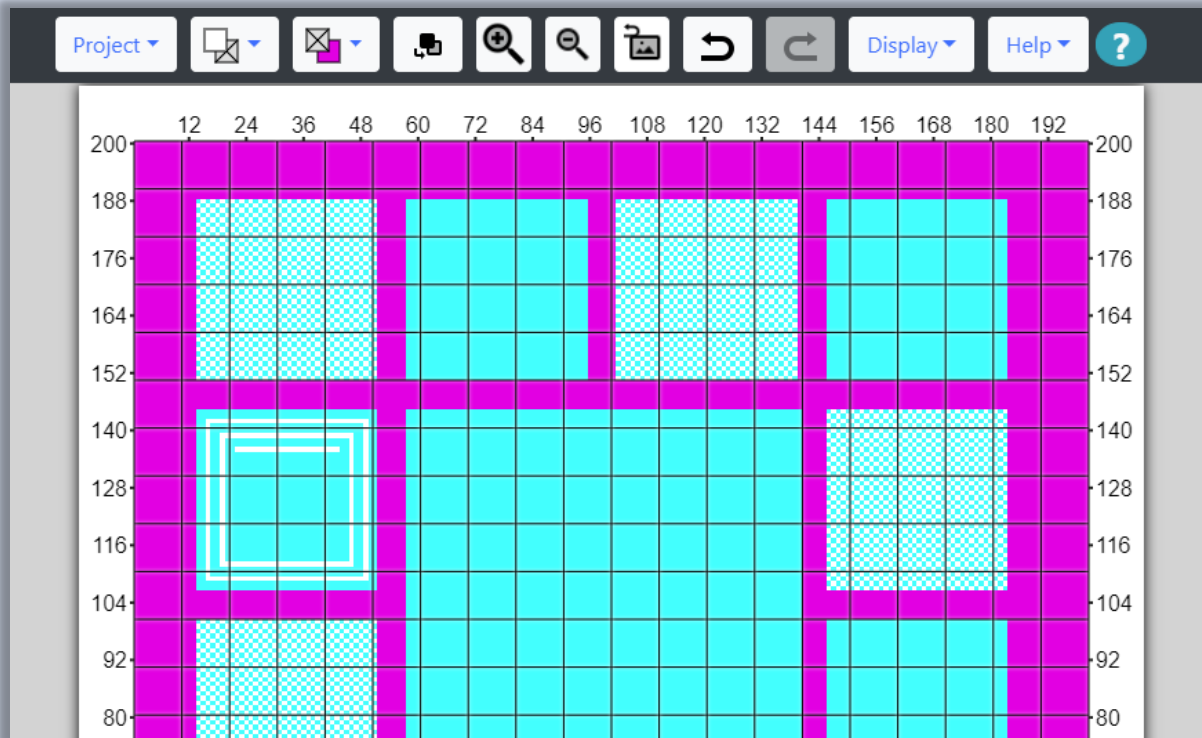


To see what this looks like when we view the entire picture, we click the Zoom to Show All button.

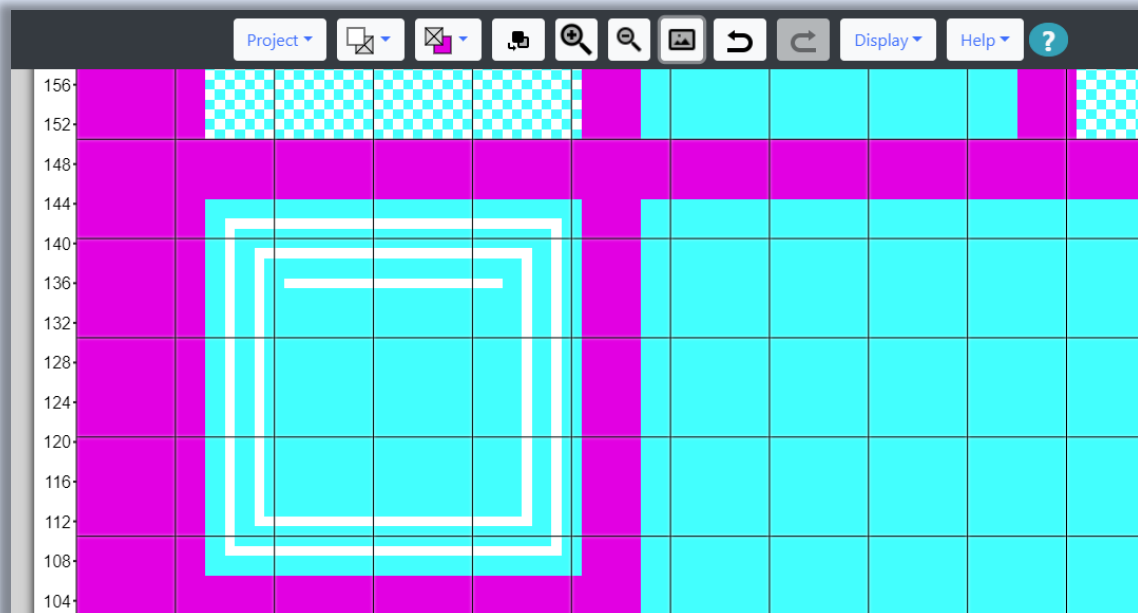
The designer zooms out to show the full picture and we see this:



Turning off the dashed grid lines, we get a clearer view.



The dashed grid is off, we have Rule Lines showing every 20 cells. We want to zoom back to our original place, so we click the Zoom to Show All button again, as it now shows the undo arrow.



This returns the grid to its original position and zoom state. We can then turn the dashed grid lines back on to continue working.

Keyboard Shortcuts

Many of the actions you can take in the Grid Designer, can be executed with Keyboard Shortcuts. This is applicable if you are using a desktop computer. This section describes the Keyboard Shortcuts available.

Moving Grid and Paste Item

The up, down, right and left arrow keys can be used to move the entire grid up, down, right or left. They are useful when working on a large grid.

If the arrow keys are used while holding down the shift key, they will move the paste item up, down, left or right one cell.

The mouse wheel can be used to move the grid up and down. To move the grid right or left, hold the shift key down while moving the mouse wheel.

Zooming

If the arrow keys are used while holding down the Ctrl key, the up and down arrows will zoom the grid in and out.

Ctrl+up-arrow – zoom in

Ctrl+down-arrow – zoom out

If you want to zoom to show all and zoom back, then use either Ctrl+a or Alt+a.

Project Menu

- New Project – Alt+n
- Open Project – Alt+o
- Save Project – Alt+s or Ctrl+s
- Save As – Alt+w
- Print – Alt+p
- Show Project Info – Alt+i

Display Menu

Toggle Show/Hide Mouse Position – Alt+m

Toggle Show/Hide Numbering – Alt+u

Refresh Display – Alt+r

Top Toolbar Options

- Ctrl+z or Alt+z – Undo
- Ctrl+y or Alt+y – Redo
- Ctrl+a or Alt+a – Zoom to show all

Bottom Toolbar Options

- Ctrl+x or Alt+x – Cut
- Ctrl+c or Alt+c – Copy
- Ctrl+v or Alt+y – Paste

Miscellaneous

If the keyboard focus is in an input widget and the widget hold numeric values, then the up and down arrows will adjust the number up or down. The right and left arrows move the input cursor.

The spacebar will execute the Stamp button when the Paste Tools are visible.

The Delete or Backspace key will execute the Cancel Select Button.

Help Menu

The Help menu contains links to documentation and other areas that provide help for how to use the Grid Designer.

Documentation (HTML)

Selecting this option opens the main documentation web pages. <https://www.freese-works.com/griddesigner/docs/GridDesignerDoc.htm>

Documentation (PDF)

Selecting this option will open the documentation in PDF form. To download the pdf, after the PDF is opened, click the download button in the PDF toolbar to download a copy to your device.

<https://www.freese-works.com/griddesigner/docs/Grid%20Designer.pdf>

How To Articles

Selecting this option takes you to the How To category on my blog at freese-works.com.

<https://www.freese-works.com/category/how-to/>

YouTube Video Tutorials

Selecting this option takes you to my YouTube account where I am posting tutorials on how to use the Grid Designer.

https://www.youtube.com/channel/UCRgdJSQZkXXVyQrt7zfWWbg?view_as=subscriber

Facebook Page

Takes you to my Facebook page where I post links to interesting craft sites and articles.

<https://www.facebook.com/agnes.freese.376>

Blog Home

Takes you to freese-works.com home page. To see blog entries, click on the Get Started option.

<https://www.freese-works.com/>

Yarn Calculator

Allows you to convert from weight to length and vice versa, given the information on your yarn label. <https://www.freese-works.com/griddesigner/yarnCalculator.html>

Ratio Calculator

The ratio calculator helps when you are reducing or enlarging a rectangular area and you want to keep the aspect ratio of the rectangle the same. Directions for use appear on the Ratio Calculator dialog that appears when the option is selected.

Enable Hints

Selecting this option re-enables the hint dialogs that appear for [Mode Buttons](#).

Reload

Selecting this causes a browser refresh. It is equivalent to pressing the browser's refresh button. It can be used to make sure that the latest software is loaded in your browser.

About

Selecting this option takes you to information on the current release and lists recent updates that have been made. The release number is displayed as part of the About option on the Help menu.