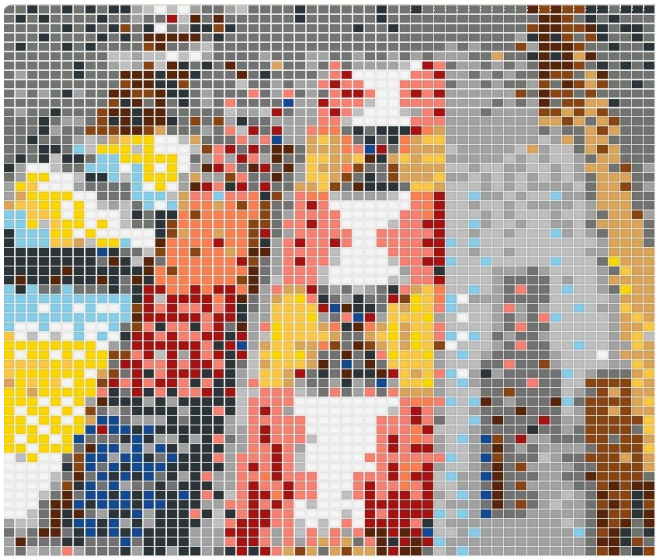
Krazy Stitcher

Photo-to-Pattern Converter

User Manual

For Photo Converter 2.7 · Pro and Studio



krazystitcher.com

October 2026

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What's New Since Version 2.1

Version 2.7 (October 2026)

- **TOHO now uses TOHO's own numbers.** The TOHO 11/0 Round list has 412 colors from Krazy Stitcher's TOHO master list, the same list our conversion charts use. Codes are written **TR-11-** and the TOHO number, for example TR-11-81. The old list had 304 colors whose numbers did not match TOHO's (its T-81 "Ceylon Lt. Peach" is TOHO 81 Metallic Hematite, a near-black bead). See Appendix G.
- **TOHO equivalents now come from our charts.** The TOHO column is now **Delica match**, with the chart's rating (Good, Fair or no close match). Only Perler, Hama and Artkal equivalents are still "approximate". See Chapter 13.
- **Your old TOHO work still opens.** Patterns, library projects, .kspc files, palettes and .kspalette files made with the old TOHO list open with the colors they were made with. A note offers **Convert to real TOHO numbers...**, which matches each old bead by color and saves a new copy. The original is never changed. See Appendix G.
- **Save & Resume remembers the brand.** Save records the brand the pattern was made with (not whatever Step 4's menu shows now), and Load opens it with that brand and its beads. A save from before 2.7 is kept as a copy the first time you save over it, and can be restored (Chapter 8).
- **A clearer row-by-row table.** Each code sits in a small chip in the bead's color, with black or white lettering, so pale beads are as easy to read as dark ones. Runs are spaced and written 3×A. The legend lists code, bead number and name. A **Show bead colors behind the codes** checkbox gives plain codes. The table can be reached with Tab and scrolled with the arrow keys, prints every row, and is now part of Export as PDF (Chapter 9).
- **Recipe codes:** a TOHO recipe code (brand 02) now makes a pattern with the real TOHO numbers.

Version 2.6 (October 27, 2026)

- **Equivalent colors you can trust.** The extra column in the materials list now comes from Krazy Stitcher's own conversion charts for DMC Thread ↔ Miyuki Delica and Mill Hill → Miyuki Delica. Each match carries the chart's honest rating: **Good**, **Fair**, **Poor** or **no close match**. A note under the table says where the matches come from. See Chapter 13.
- **Other brands say "approximate".** The TOHO, Perler, Hama and Artkal equivalents had not been checked against our charts, so they were labeled "approximate" instead of "excellent" or "good". (TOHO now comes from our charts: see 2.7.)
- **Export as PDF works again for Miyuki Delica and DMC Thread.** In 2.5 those two brands showed "Error generating PDF". The printable recipe now has the equivalent column and its note for every brand that has one.

Version 2.5 (October 24, 2026)

- **Photo Converter Studio extras:** custom palettes (convert with only the beads you own), a Project Library that keeps many patterns, and Batch Convert for up to 50 photos at once. See Part III.
- Photo Converter Pro shows these buttons with a **Studio** tag and a dashed border. Pressing one explains what Studio adds.

Version 2.4 (October 24, 2026)

- **Two versions with their own license keys:** Photo Converter Pro ($34.95) and Photo Converter Studio ($59.95). A Krazy Stitcher Pro or Studio edition key still opens the converter. A Krazy Stitcher Essentials key does not. See Chapter 2.

Version 2.2 (September 23, 2026)

- **A license key is required.** There is no free mode. The converter checks your key with the Krazy Stitcher license server the first time you enter it.
- Fixed two errors that could stop the converter from starting in some browsers.

What this manual corrects from 2.1

This edition follows what the converter actually does today:

- Step 3 asks for the **finished size in inches or centimeters**, not a bead count, and there is no aspect-ratio lock (Chapter 6).
- The brand list and color counts are updated: 1,922 colors across nine brands (Chapter 7 and Appendix B).
- There is no Sharpness slider. Grayscale Mode, dithering choices and presets are now described (Chapter 7).
- The printable recipe holds the pattern picture, the materials list, the row-by-row table and the recipe code. It does not hold a symbol grid or page coordinates (Chapter 9).
- Work Mode has no arrow-key shortcuts, and the converter does **not** work offline (Chapters 1 and 10).

PART I · USING THE CONVERTER

Chapter 1: Before You Start

The Krazy Stitcher Photo-to-Pattern Converter turns a photo into a bead pattern in seven steps. This chapter lists what you need before you begin.

What You Need

- A desktop or laptop computer with a current web browser (Chrome, Edge, Firefox or Safari).
- A mouse or trackpad for the pattern editor.
- A photo in JPG, PNG or WebP format, 10 MB or smaller.
- An internet connection. The converter is a web page at krazystitcher.com. It has no offline mode.
- A Photo Converter Pro or Photo Converter Studio license key, or a Krazy Stitcher Pro or Studio edition key (Chapter 2).

Your Photo Stays on Your Computer

The converter does all of its work inside your browser. Your photo is never uploaded. The only thing the converter sends to the Krazy Stitcher server is your license key, when you enter it, so the server can confirm it.

Your saved patterns, presets, palettes and library are kept in your browser on this computer (Appendix E). They do not follow you to another computer or browser, and clearing your browser's site data removes them.

Choosing a Good Photo

- A clear subject with good contrast against the background.
- Even lighting without harsh shadows.
- A simple background, especially for small patterns.
- At least 500 pixels on each side. Small photos give blocky patterns.

> **Tip:** Crop the photo to the shape of your finished piece before you upload it. The converter fits the whole photo into the size you enter in Step 3, so a photo with a different shape will be stretched or squeezed.

Chapter 2: Your License: Pro and Studio

The Photo Converter is sold in two versions. Each has its own license key. Both convert photos the same way; Studio adds three extras.

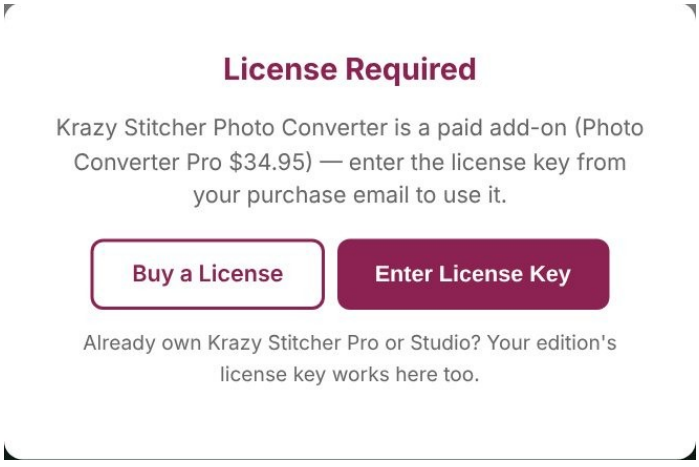
	Photo Converter Pro	Photo Converter Studio
Price	$34.95 one-time	$59.95 one-time In development: not on sale yet
Keys that open it	A Photo Converter Pro key, or a Krazy Stitcher Pro edition key	A Photo Converter Studio key, or a Krazy Stitcher Studio edition key
All seven steps, all nine brands, up to 50 colors, editor, recipe, PDF and Work Mode	Yes	Yes
Custom palettes	—	Yes
Project Library	—	Yes
Batch Convert	—	Yes
Selling rights	Krazy Stitcher Pro rights	Krazy Stitcher Studio rights, including bulk or wholesale pattern sales and pattern books

For the exact selling rights, read the Commercial License page at krazystitcher.com. Prices are the ones listed on the Photo Converter product page in October 2026.

> **Note:** Photo Converter Studio is in development and not on sale yet. The Studio features in this manual work today with a Krazy Stitcher Studio edition key. A Krazy Stitcher Essentials key does not open the converter.

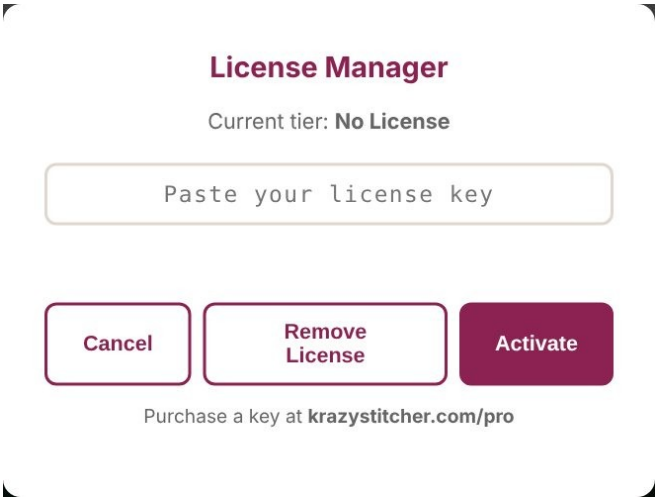
Enter Your License Key

The first time you open the converter, the **License Required** screen covers the page. Nothing works until a key is accepted.



The License Required screen

1. Click **Enter License Key**. The License Manager opens.
2. Paste the key from your purchase email exactly as it appears.
3. Click **Activate**. The converter checks the key with the license server. This needs an internet connection.
4. When the key is accepted, the License Required screen closes and the badge at the top right shows **Photo Converter Pro** or **Photo Converter Studio**.



The License Manager

Your browser remembers the accepted key on this computer. Next time, the converter opens without asking. On another computer or browser, enter the key again.

Messages You May See

Message	What it means
Invalid license key. Please check it and try again.	The server does not know this key. Copy it again from your purchase email.
Could not reach the license server … Your key was not rejected.	No internet connection, or the server did not answer. Try again later.
That key is valid, but it is for Krazy Stitcher Essentials …	Essentials keys do not include the converter. Use a Photo Converter key, or a Krazy Stitcher Pro or Studio key.
Please enter your license key exactly as it appears in your purchase email.	The text you pasted does not look like a key (for example, it has spaces or extra characters).

Check or Remove Your License

Click the badge at the top right to open the License Manager. It shows your current version. **Remove License** forgets the key on this computer, and the License Required screen comes back.

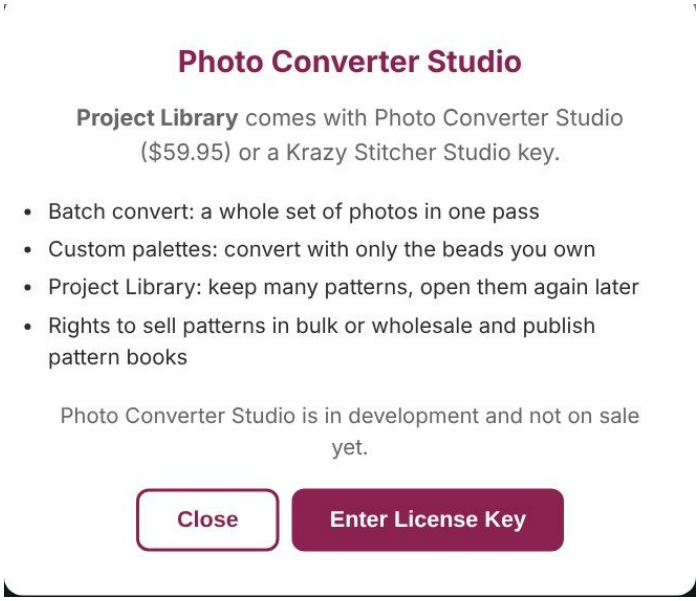


With a Pro key: the badge reads Photo Converter Pro, and Project Library has a dashed border



With a Studio key: the badge reads Photo Converter Studio

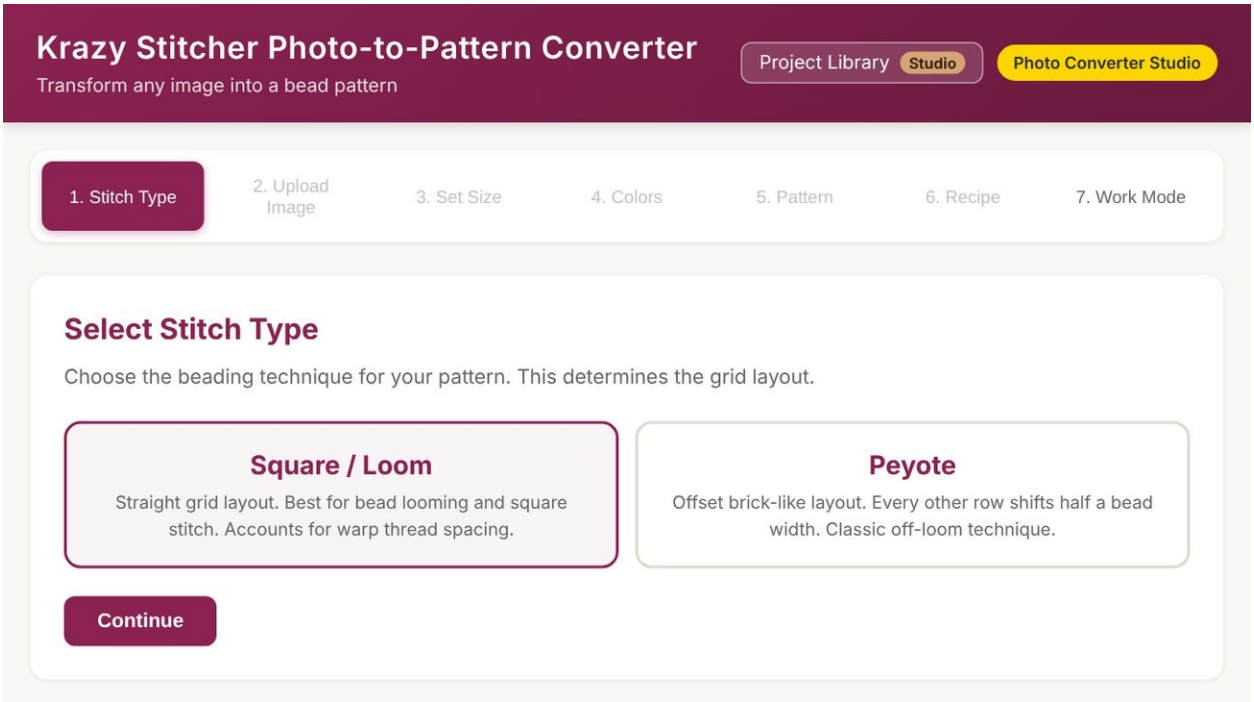
> **Photo Converter Studio only:** Buttons for Studio features carry a small **Studio** tag. With a Pro key they have a dashed border, and pressing one opens a short Photo Converter Studio dialog instead of the feature.



What Photo Converter Pro shows when you press a Studio button

Chapter 3: The Seven Steps

The step bar at the top of the converter shows where you are. You move forward with the buttons at the bottom of each step (**Continue**, **Continue to Pattern**, **Generate Recipe**, **Start Working**) and back with **Back**. Once you have reached a step, you can click its name in the step bar to return to it.



The header, the step bar and Step 1

Step	What you do	Chapter
1. Stitch Type	Choose Square / Loom or Peyote.	4
2. Upload Image	Choose your photo. Studio: batch convert several photos.	5, 19
3. Set Size	Enter the finished width and height.	6
4. Colors	Choose the bead brand, the number of colors and the image settings, then convert.	7, 17
5. Pattern	Edit the pattern bead by bead.	8
6. Recipe	Read the materials list and the row-by-row table. Print or save.	9
7. Work Mode	Bead the pattern one row at a time.	10

Chapter 4: Choose a Stitch Type (Step 1)

The stitch type sets how the beads sit in the grid.

Square / Loom

A straight grid: every row sits directly under the one above. Use it for loom work and square stitch. The size calculation in Step 3 allows for the warp threads between columns.

Square / Loom also suits fuse beads (Perler, Hama, Artkal, NABBI, MARD) and cross-stitch with DMC thread, since those are straight grids too.

Peyote

Every other row shifts half a bead to the right, giving a brick-like layout. Use it for flat peyote. Rows nest into each other, so each row adds less height than a loom row.

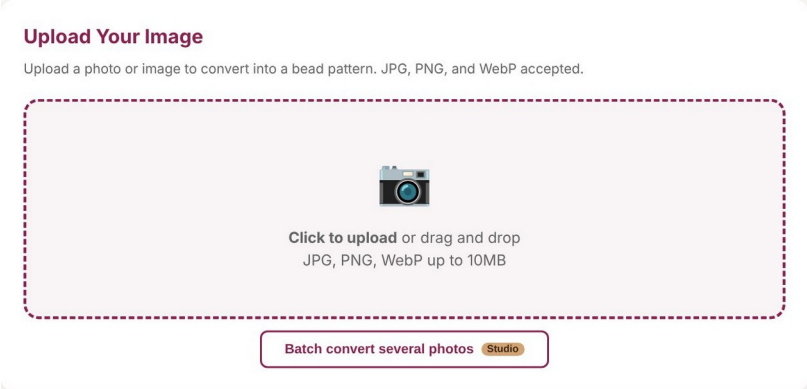
How to Choose

1. Click **Square / Loom** or **Peyote**. The selected card has a dark border.
2. Click **Continue**.

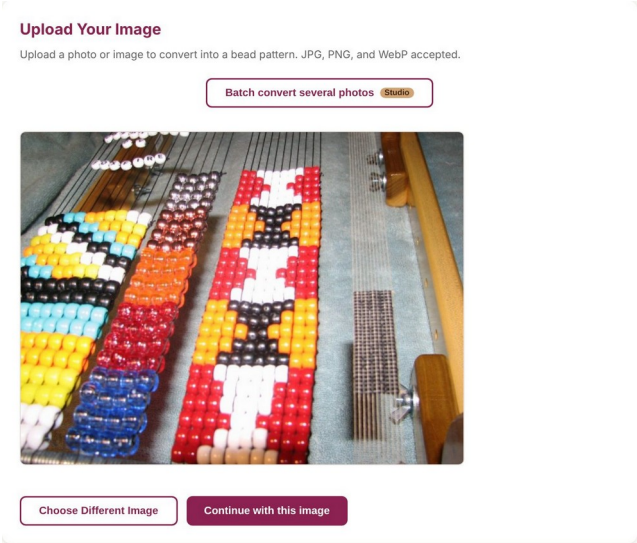
> **Note:** Choose the stitch type before you set the size. The stitch changes how many rows fit, so if you change it later, go back to Step 3, calculate again, and convert again in Step 4.

Chapter 5: Upload Your Photo (Step 2)

1. Click the upload area, or drag a photo onto it.
2. Choose a JPG, PNG or WebP file of 10 MB or less.
3. Check the preview. Click **Choose Different Image** to swap it.
4. Click **Continue with this image**.



Step 2 before a photo is chosen



Step 2 with the photo preview

Format	Good for
JPG / JPEG	Photos from phones and cameras
PNG	Graphics, logos and screenshots. See-through areas are treated as white.
WebP	Images saved from the web

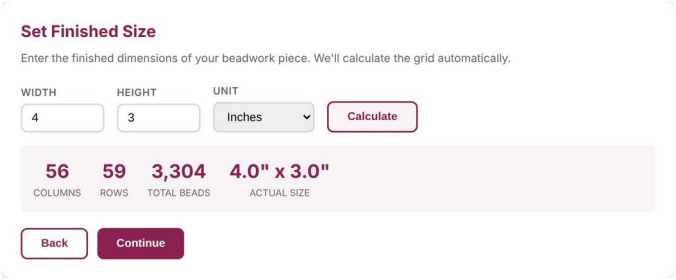
There is no pixel limit, but very large photos take longer to read. Dragging a GIF or BMP file onto the upload area also works.

> **Photo Converter Studio only:** **Batch convert several photos** turns up to 50 photos into patterns in one pass. See Chapter 19.

Chapter 6: Set the Finished Size (Step 3)

Enter how big you want the finished piece to be. The converter works out how many columns and rows of beads that takes.

1. Type the **Width** and **Height**.
2. Choose **Inches** or **Centimeters**.
3. Click **Calculate** (the numbers also update when you change a box). The panel shows Columns, Rows, Total Beads and the Actual Size.
4. Click **Continue**.



A 4 x 3 inch loom piece is 56 columns by 59 rows of Delica beads

How the Grid Is Worked Out

The calculation uses the size of a Miyuki Delica 11/0 bead: **1.6 mm wide and 1.3 mm tall**.

- **Square / Loom:** each column is 1.8 mm (the bead plus 0.2 mm for the warp thread); each row is 1.3 mm.
- **Peyote:** each column is 1.6 mm; each row adds about three quarters of a bead height, because the rows nest.
- Columns and rows are each kept between 5 and 500. Step 4 converts up to 100,000 beads in total.

> **Watch out:** The photo is fitted to the size you enter, whatever its shape. If your photo is 4:3 and you enter a square size, the picture is squeezed. Enter a size with the same shape as your photo, or crop the photo first.

Fuse Beads and Thread

The bead size used here is a Delica bead for every brand. For 5 mm fuse beads or for cross-stitch, the size boxes will not give you the real finished size. Use them to set the bead count instead:

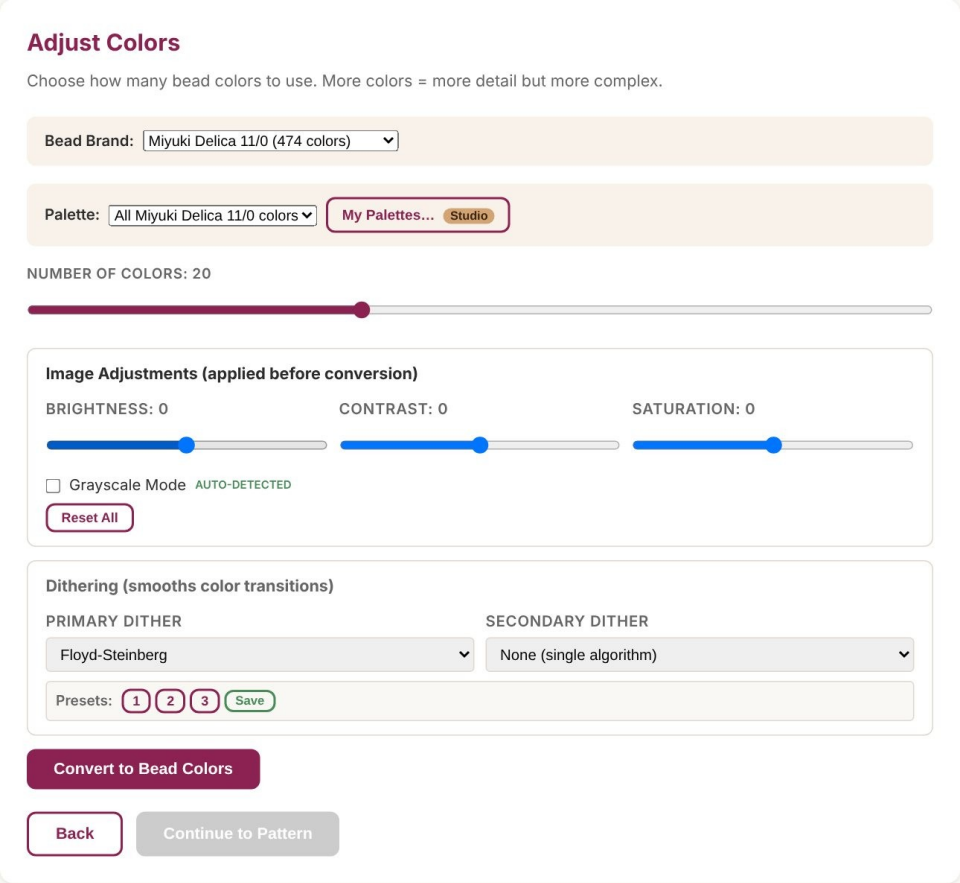
For **N columns** enter a width of N × 0.18 cm, and for **M rows** a height of M × 0.13 cm (Square / Loom). Example: for a 29 × 29 Perler pegboard, enter 5.22 cm by 3.77 cm to get 29 columns and 29 rows.

How big to go: for a first project, about 40 to 60 columns shows good detail without becoming a marathon.

Columns	Beads (about)	Good for
20–40	400–1,600	Simple icons, charms, a first project
40–80	1,600–6,400	Portraits and detailed pictures
80–150	6,400–22,500	Photo-like patterns
150 and more	22,500 and more	Wall pieces and large projects

Chapter 7: Choose Colors and Convert (Step 4)

In this step you pick the bead brand and how many colors to use, adjust the photo if you need to, and convert.



Step 4 before converting (Studio key)

Bead Brand

Choose the brand you will buy. The pattern uses real colors from that brand.

Brand (as listed)	Kind	Colors	Equivalent column (Step 6)
Miyuki Delica 11/0	Seed bead, cylinder	474	DMC match (from our chart)
TOHO 11/0 Round	Seed bead, round	412	Delica match (from our chart)
DMC Thread	Embroidery floss	285	Delica match (from our chart)
Mill Hill Seed Beads	Glass seed bead	118	Delica match (from our chart)
Perler Midi	Fuse bead, 5 mm	117	Hama equivalent (approximate)
Hama Midi	Fuse bead, 5 mm	89	Perler equivalent (approximate)
Artkal S-Series	Fuse bead	176	Perler equivalent (approximate)
NABBI Midi	Fuse bead	30	None
MARD	Fuse bead	221	None

Both Pro and Studio include all nine brands, 1,922 colors in all.

> **Note:** TOHO codes are TOHO's own numbers, written TR-11-81 and so on. Work made before version 2.7 used an older TOHO list whose numbers were not TOHO's; it opens as **TOHO 11/0 Round, old list**. That entry appears in the brand menu only while such work is open, and the old list is never used for new conversions. See Appendix G.

Palette STUDIO ONLY

Below the brand is the **Palette** list. **All ... colors** lets the converter choose from the whole brand. With Studio you can pick one of your own palettes instead, so the pattern uses only beads you own. See Chapter 17.



With a Pro key the Palette list is locked and says custom palettes come with Studio

Number of Colors

Drag the **Number of Colors** slider. You can choose from 3 to 50 colors (fewer if your custom palette is smaller). Fewer colors make a simpler pattern with fewer bead types to buy; more colors keep more detail.

- For a first pattern: 8 to 15 colors.
- For detailed work: 20 to 40 colors.

Image Adjustments

These change the photo before it is converted. They do not change your photo file.

- **Brightness** (−100 to +100): lighten or darken the whole picture.
- **Contrast** (−100 to +100): separate light and dark areas more, or soften them.
- **Saturation** (−100 to +100): make colors more vivid, or mute them.
- **Grayscale Mode:** turn the picture gray and use only the brand's neutral beads (whites, grays and blacks).
- **Reset All** puts the three sliders back to 0 and turns Grayscale Mode off.

If a photo has almost no color, the converter switches to gray beads on its own when you convert.

> **Note:** In version 2.7 the small "AUTO-DETECTED" label next to Grayscale Mode is shown all the time, even when nothing was detected. Look at the converted colors instead: if they are all grays, the converter treated your photo as black and white.

> **Tip:** Beads have a smaller color range than a screen. A little extra saturation (+10 to +20) often helps the converter find livelier bead colors.

Dithering

Dithering mixes neighboring beads to suggest colors and smooth shading that the chosen beads cannot show on their own.

- **Primary Dither:** None, Floyd-Steinberg (the default), Atkinson, Stucki, Sierra or Burkes.
- **Secondary Dither:** None, or a second method. When you pick one, a **Blend** slider appears to mix the two results (0% = all the first, 100% = all the second).

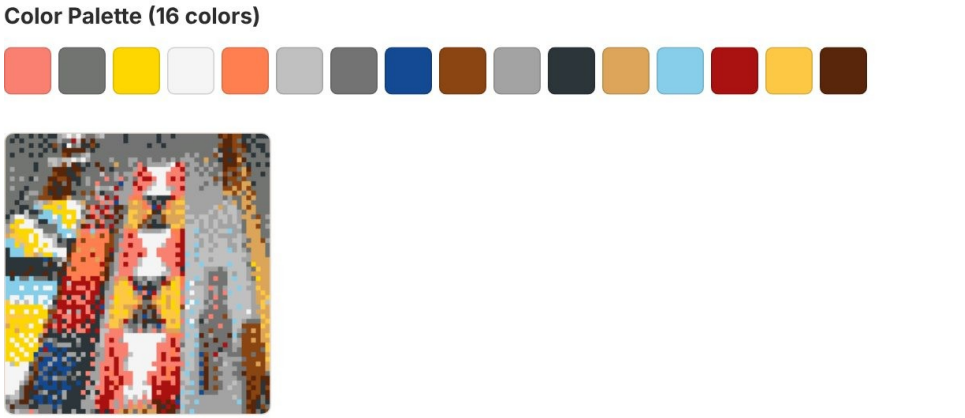
Choose **None** for flat, graphic pictures and logos; it gives clean blocks of color and fewer stray beads. Use a dither for photos with soft shading. Chapter 12 explains the methods.

Presets

Presets keep your dithering choices (primary, secondary and blend) in three slots. Click **Save**, type 1, 2 or 3, and press OK. Click a slot number to use it again. Presets do not keep the brand, the number of colors or the image adjustments.

Convert Your Photo

1. Choose the brand, palette and number of colors.
2. Set the image adjustments and dithering if you want.
3. Click **Convert to Bead Colors**. A large pattern can take several seconds.
4. Check the result: the color swatches (point at one to see its code and name) and the preview.
5. Change settings and convert again until you like it, then click **Continue to Pattern**.

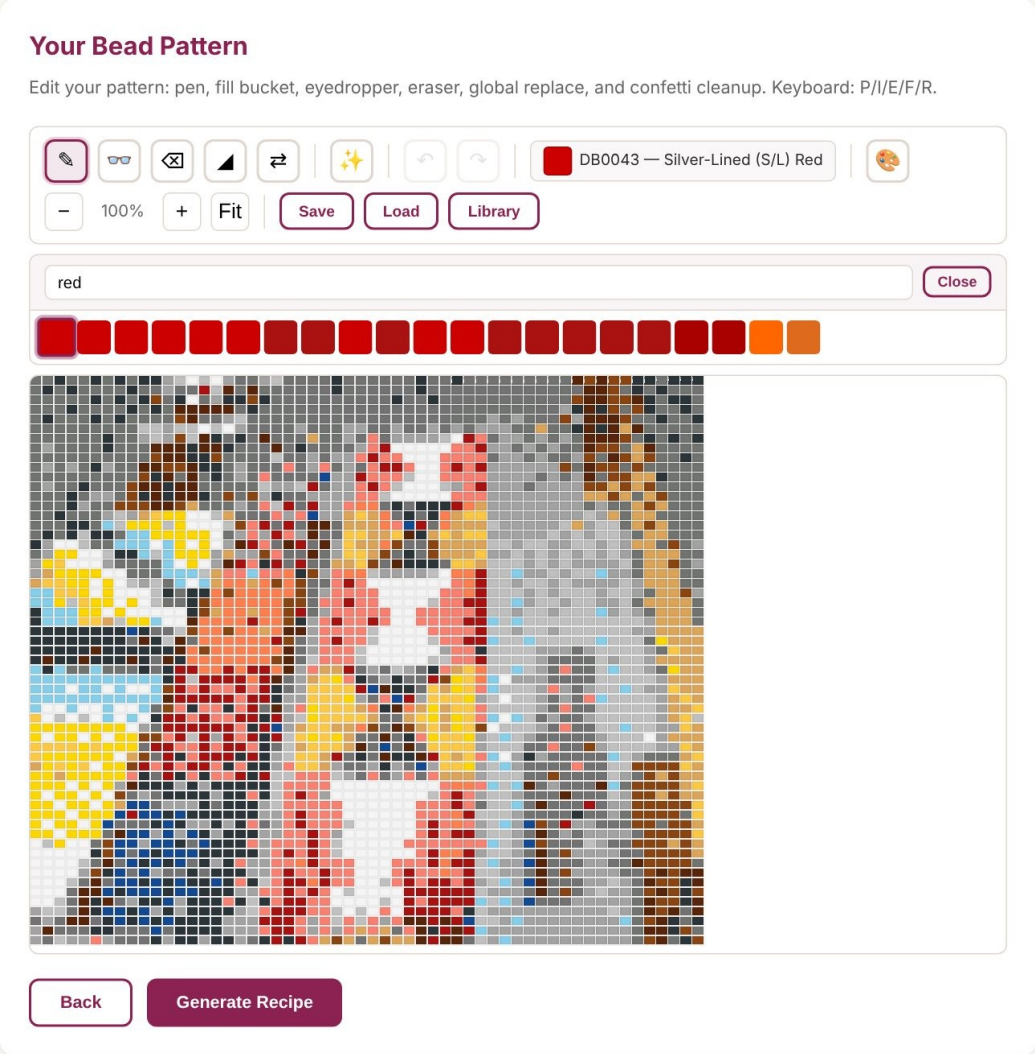


The result: 16 Miyuki Delica colors and a preview

> **Note:** Each conversion starts from a slightly different random point, so converting twice with the same settings can give slightly different colors.

Chapter 8: Edit Your Pattern (Step 5)

The editor lets you fix single beads, clean up edges and simplify colors. Editing works with a mouse or trackpad.



The editor with the full bead palette open and a red Delica chosen

Editor Tools

Tool	Key	What it does
Pen	P	Click a bead to paint it with the active color. Click and drag to paint several.
Eyedropper	I	Click a bead to make its color the active color. The Pen is then selected for you.
Eraser	E	Paints beads with color A, the first color in the pattern's legend (usually the background).
Fill	F	Click a bead to repaint it and every touching bead of the same color with the active color.
Replace	R	Click a bead to repaint every bead of that color in the whole pattern with the active color.
Confetti Cleanup (sparkles)	—	Finds single beads whose four neighbors (up, down, left, right) are all a different color, and gives each the most common neighboring color.
Undo / Redo	Ctrl+Z / Ctrl+Y	Step back or forward through your last 50 changes.

Fill and Replace need an active color first. Pick one with the Eyedropper or the bead palette.

Choose Any Bead from the Brand

1. Click the palette button (the paint palette icon). The full brand palette opens, grouped by color family.
2. Type in the search box to find a bead by number or name, for example DB0010 or black.
3. Click a bead. It becomes the active color and is shown next to the tools.
4. Click **Close** to hide the palette.

> **Watch out:** The tool keys also react while you type in the palette search box. Typing "red" switches to Replace and then Eraser. After searching, click the tool you want before you paint.

See the Pattern

- Point at a bead to see its code and name.
- Use **−** and **+** to zoom from 25% to 500%, and **Fit** to fit the pattern to the window.

Save and Load

Save (or Ctrl+S on this step) keeps the current pattern in your browser, with the brand it was made with and its bead numbers. **Load** brings it back and switches to that brand, whatever brand Step 4 shows. There is one save slot; saving again replaces it.

The brand menu in Step 4 is for your next conversion. If you change it and come back to Steps 5 to 7 without converting, the converter switches back to the brand of the open pattern and says so. To move a pattern to another brand, convert again.

A save made before version 2.7 did not record the brand. Load reads the brand from the save's recipe code instead; if it has none, Load uses the brand shown in Step 4 and tells you so. An old TOHO save opens on the old TOHO list (Appendix G).

The first time you save over a save from before 2.7, the converter keeps a copy of the old one. While that copy differs from your current save, Step 5 shows **Restore my saved pattern from before the 2.7 update**. It asks before replacing your current save, then opens the old pattern. The copy is kept.

> **Note:** Load is on Step 5, so after reopening the page you need to convert any photo once to reach it.

> **Photo Converter Studio only:** The **Library** button saves as many patterns as you like, each with its brand, name and picture. See Chapter 18.

Chapter 9: The Recipe (Step 6)

Click **Generate Recipe** in Step 5 to see everything you need to buy and bead: the materials list, the row-by-row pattern table and the recipe code.

Materials List

One row for each color in the pattern, most-used first:

- **Color:** a swatch of the bead color.
- **Bead Number** and **Name:** the brand's code and color name.
- **Count:** how many beads of this color the pattern uses.
- **% of Total:** that color's share of the pattern.
- **Equivalent column:** for seven of the nine brands, a matching color in another brand, with a rating. The note under the table says where the matches come from.

> **Tip:** Counts are exact bead counts. Buy extra: beads are lost, and some come out of the tube misshapen.

The Equivalent Column

> **New in 2.7:** TOHO equivalents now come from our conversion charts, like DMC, Delica and Mill Hill. The full explanation is in Chapter 13.

Brand you converted with	Column heading	Where the match comes from
Miyuki Delica	DMC match	Krazy Stitcher conversion chart
DMC Thread	Delica match	Krazy Stitcher conversion chart
Mill Hill	Delica match	Krazy Stitcher conversion chart
TOHO	Delica match	Krazy Stitcher conversion chart
Perler	Hama equivalent	Older table, shown as "approximate"
Hama	Perler equivalent	Older table, shown as "approximate"
Artkal	Perler equivalent	Older table, shown as "approximate"
NABBI, MARD	No column	—
TOHO, old list (Appendix G)	No column	—

A dash (—) means the table has no match for that color.

Materials List

Color	Bead Number	Name	Count	% of Total	Delica match
	DMC-924	Gray Green Vy Dark	469	14.2%	DB1484 (Fair)
	DMC-927	Gray Green Light	372	11.3%	DB0201 (Fair)
	DMC-3802	Antique Mauve Very Darkv	290	8.8%	DB0765 (Fair)
	DMC-834	Golden Olive Very Light	286	8.7%	DB1131 (Fair)
	DMC-3042	Antique Violet Light	269	8.1%	DB0875 (Fair)
	DMC-350	Coral Medium	243	7.4%	DB0873 (Fair)
	DMC-730	Olive Green Very Dark	233	7.1%	DB0124 (Fair)
	DMC-819	Baby Pink Light	176	5.3%	DB0220 (Fair)
	DMC-791	Cornflower Blue Very Dark	173	5.2%	DB0377 (Fair)
	DMC-304	Red Medium	148	4.5%	DB0796 (Fair)
	DMC-3819	Moss Green Light	145	4.4%	DB0721 (Fair)
	DMC-792	Cornflower Blue Dark	131	4.0%	DB1225 (Fair)
	DMC-3740	Antique Violet Dark	126	3.8%	DB0765 (Fair)
	DMC-223	Shell Pink Light	119	3.6%	DB1363 (Fair)
	DMC-3761	Sky Blue Light	75	2.3%	DB0658 (no close match)
	DMC-962	Dusty Rose Medium	49	1.5%	DB1363 (Fair)

Matches come from the Krazy Stitcher conversion charts: the best of the chart's three picks, with the chart's rating. Check colors under your own lighting before buying. DMC colors: craft-color-codes by MakeBead (makebead.com), CC BY 4.0; floss colors are community values, so no match is rated better than Fair.

DMC Thread: each floss color with its Delica match and rating. The note credits the DMC color data

Color	Bead Number	Name	Count	% of Total	DMC match
	DB1111	Transp. Lt. Gray	438	13.3%	DMC 646 (Fair)
	DB0321	Matte Nickel-Plated	345	10.4%	—
	DB0021	Nickel-Plated	342	10.4%	—
	DB0035	Galvanized Silver	290	8.8%	—
	DB0001	Gunmetal	289	8.7%	—
	DB0233	Salmon	266	8.1%	DMC 742 (Fair)
	DB0200	White	237	7.2%	DMC 23 (Fair)
	DB0362	Matte Opaque Red Luster	177	5.4%	DMC 3831 (Fair)
	DB1101	Transp. Dk. Topaz	167	5.1%	DMC 400 (Fair)
	DB0007	Brown Iris	153	4.6%	—
	DB0884	Matte Opaque Dk. Brown AB	135	4.1%	DMC 779 (Fair)
	DB0031	24kt Gold-Plated	121	3.7%	—
	DB0352	Sky Blue	101	3.1%	DMC 3047 (Fair)
	DB0034	24kt Lt. Gold-Plated	96	2.9%	—
	DB0159	Opaque Coral AB	86	2.6%	DMC 347 (Fair)
	DB0377	Matte Opaque Cobalt Glazed Luster	61	1.8%	DMC 791 (Fair)

Miyuki Delica: the DMC match column. Delica colors that are not in the chart show a dash

Materials List

Color	Bead Number	Name	Count	% of Total	Delica match
	TR-11-9F	Translucent frosted light grey	787	23.8%	DB0761 (Fair)
	TR-11-53	Opaque grey	563	17.0%	DB0220 (Fair)
	TR-11-177	Translucent rainbow smoky topaz	463	14.0%	DB0170 (Good)
	TR-11-2201	Almond Blossom (with Silver Lining)	317	9.6%	DB0684 (Fair)
	TR-11-42F	Opaque Frosted Dandelion	255	7.7%	DB0751 (Good)
	TR-11-278	Gold Lined Rainbow Topaz	247	7.5%	DB1252 (Good)
	TR-11-41	Opaque white	233	7.1%	DB0200 (Good)
	TR-11-1202	Marbled Opaque Pink/Pink	150	4.5%	DB0728 (Fair)
	TR-11-PF591F	PermaFinish Galvanized (Matte) Old Gold	147	4.4%	DB0034 (Fair)
	TR-11-1057	Light Sapphire (with Opaque Dark Blue Lining)	142	4.3%	DB0694 (Fair)

Matches come from the Krazy Stitcher conversion charts: the best of the chart's three picks, with the chart's rating. Check colors under your own lighting before buying.

TOHO: each TR-11 bead with its Delica match and the chart's rating

Pattern Table (Row-by-Row)

> **New in 2.7:** The table was redesigned in 2.7 so every code can be read, whatever the bead color.

The pattern table spells out every row from left to right. Row 1 is the top row. Each color gets a code: A–Z, then a–z, then 0–9 (very large palettes go on with [62], [63] and so on).

- **Legend:** above the table, one entry per color: the code, the bead number and the bead name.
- **Key chips:** each code sits in a small chip filled with the bead's color, with black or white lettering, whichever is clearer. White, cream and yellow beads read as well as dark ones.
- **Runs:** "3×A" means three A beads in a row; a code on its own is one bead. Runs are separated by spaces.
- **Show bead colors behind the codes:** untick this for plain outlined codes, for example for printing in gray or if you prefer them. The converter remembers your choice in this browser.
- **Keyboard:** press Tab to reach the table (it shows a focus ring), then scroll it with the arrow keys and Page Down. Screen readers announce each row as "Row 1", "Row 2" and so on.
- **Printing:** printing Step 6 from the browser prints every row, not just the part shown in the box, and keeps the chip colors.

Recipe Code

The recipe code records the settings that made the pattern: brand, stitch, grid size, number of colors, dithering, the three adjustments, the preset slot and the date. Click **Copy** to copy it, or **Decode** to read it in plain words. It is a record of the settings, not of your edits.



The row-by-row table with its legend and key chips, the recipe code and the export buttons

Export as PDF

1. Click **Export as PDF**. A printable recipe opens in a new browser tab.
2. Click **Print / Save as PDF** at the bottom of that tab.
3. In your browser's print window, choose your printer, or choose **Save as PDF** as the destination.

The printable recipe shows the grid size, total beads, number of colors and stitch type; a picture of the pattern; the materials list with the equivalent column and its note; the row-by-row table with its legend (plain codes if you unticked Show bead colors); and the recipe code with a QR code. Chapter 16 shows an example.

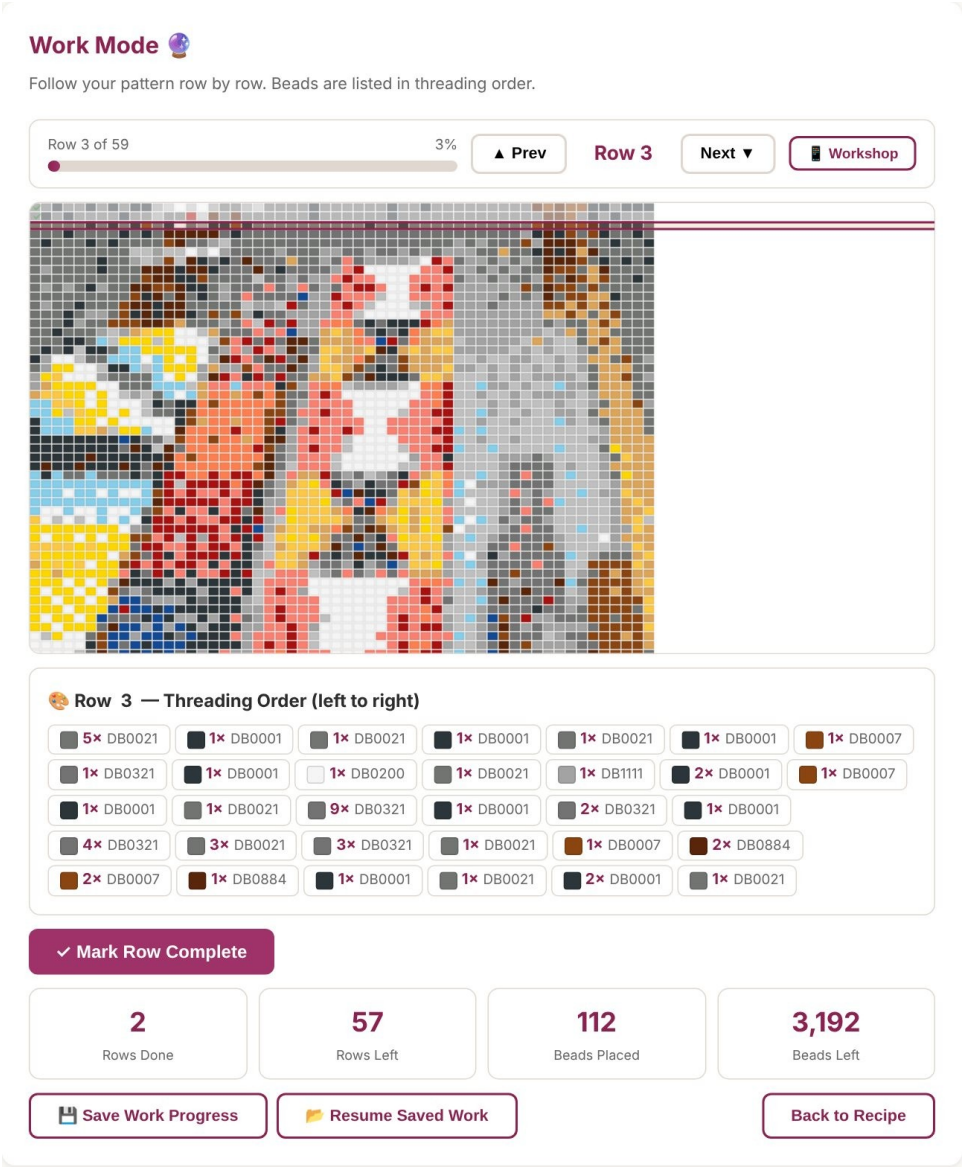
> **Note:** If nothing opens, your browser blocked the new tab as a pop-up. Allow pop-ups for krazystitcher.com and click Export as PDF again.

Save Pattern Image

Save Pattern Image downloads a PNG picture of the pattern, named like KrazyStitcher_Pattern_56x59.png. The recipe code is stored inside the file as hidden text. The PNG has no materials list.

Chapter 10: Work Mode (Step 7)

Work Mode helps you bead the pattern one row at a time and keeps count of your progress. Click **Start Working** on Step 6.



Work Mode on row 3, with rows 1 and 2 marked complete

Follow a Row

- The current row is outlined on the pattern. **Row 1** is the top row.
- **Threading Order** lists the row's beads from left to right. "4× DB0048" means four DB0048 beads in a row. Point at a bead to see its name.
- ▲ **Prev** and **Next** ▼ move between rows.

Mark Your Progress

1. Thread the row.

2. Click **Mark Row Complete**. The row is shaded on the pattern and Work Mode moves to the next unfinished row.
3. To undo a mark, go back to the row and click **Mark Row Complete** again.

The bar at the top shows the percentage done. The four boxes show Rows Done, Rows Left, Beads Placed and Beads Left. When every row is marked, the converter says the pattern is complete.

Workshop View

Workshop makes the row number, buttons and bead list larger, for working at a distance or on a tablet stand. Click **Normal** to go back.

Save and Resume

Save Work Progress keeps the current row and the finished rows in your browser. **Resume Saved Work** brings them back. There is one slot.

> **Watch out:** Work progress does not include the pattern itself. Save the pattern too (Step 5 Save, or the Studio Library), and open the same pattern before you click Resume Saved Work.

Chapter 11: Troubleshooting

Problem	What to do
The License Required screen will not go away.	Enter a Photo Converter key, or a Krazy Stitcher Pro or Studio key. An Essentials key does not open the converter.
"Could not reach the license server."	Check your internet connection and try again. Your key was not rejected.
The page will not open without internet.	The converter has no offline mode. Connect to the internet.
"Image too large. Maximum 10MB."	Save a smaller copy of the photo (for example, 2,000 pixels on the long side) and upload that.
"Please upload an image file."	Use a JPG, PNG or WebP file.
"Grid too large ... Maximum 100,000 beads."	Enter a smaller size in Step 3.
The pattern looks stretched or squashed.	Enter a size with the same shape as your photo, or crop the photo first (Chapter 6).
Far too many beads for fuse beads.	The size step uses a Delica bead. Set the bead count with the formula in Chapter 6.
The pattern looks blurry or loses detail.	Use more columns or more colors, or add a little contrast.
Lots of single stray beads.	Try Primary Dither: None, or use Confetti Cleanup in Step 5.
Colors do not match my beads.	Screens and beads differ. Compare real beads in daylight. Try +10 to +20 saturation.
Export as PDF does nothing, or says "Error generating PDF".	Allow pop-ups for krazystitcher.com. If you still see the error with Delica or DMC, reload the page to get version 2.7.
The tool changed while I typed in the palette search.	The tool keys react to typing. Click the tool you want again.
A pattern says "Made with the old TOHO list."	It was made before version 2.7. Its numbers are not TOHO's. Use Convert to real TOHO numbers (Appendix G).
An old save loads with the wrong brand.	A save made before 2.7 is read with the brand in its recipe code. If it has none, choose the brand in Step 4 and Load again, then Save to store the brand with it.
"No saved pattern found."	Nothing was saved in this browser, or the site data was cleared.
A Studio button opens the "Photo Converter Studio" dialog.	That feature needs a Studio key (Chapter 2).
"This browser blocked its storage."	The Library cannot work in a private window or when site storage is blocked. Use a normal window.
"That custom palette has fewer than 2 beads of this brand."	Add beads to the palette, or choose All colors.

PART II · ADVANCED GUIDE

Chapter 12: How Color Matching Works

You do not need this chapter to use the converter. It explains what happens when you click Convert to Bead Colors.

Lab Color

The converter compares colors in the CIE Lab color space. Lab describes a color by lightness (L), green to red (a) and blue to yellow (b), and distances in Lab follow what the eye sees much better than screen RGB values do.

Delta E

Delta E is the size of the difference between two colors. The converter uses the CIEDE2000 formula, the current standard. As a rough guide:

Delta E	What you see
0–1	No visible difference for most people
1–3	Visible to a trained eye side by side
3–5	Visible, but close
5–10	Clearly different side by side
over 10	Obviously different colors

These numbers describe color only. The ratings in the equivalent column (Chapter 13) are not Delta E bands: they come from our conversion charts, which also look at finish and at how reliable the color data is.

Choosing the Colors: K-means++

1. The photo is shrunk to the grid size, so each bead gets one color, and the adjustments are applied.
2. K-means++ groups the bead colors into as many groups as the Number of Colors you set, using CIEDE2000, in up to 15 rounds.
3. Each group is matched to the nearest real bead of the brand (or of your custom palette). No bead is used twice.
4. Every grid cell is given one of those beads, either directly (Dither: None) or with dithering.

The Dithering Methods

All five methods are "error diffusion": when a cell gets a bead that is a little too dark, the difference is passed on to cells that have not been done yet, so the average color comes out right.

- **Floyd-Steinberg:** the classic. Spreads the difference to four neighbors. A good default for photos.
- **Atkinson:** passes on only part of the difference. Crisper and higher in contrast, with fewer mixed beads.
- **Stucki**, **Sierra** and **Burkes:** spread the difference over a wider area for smoother shading.

Chapter 13: Equivalent Colors and Ratings

> **Note:** This chapter replaces the "Cross-Reference Column" section and the "Excellent / Good" ratings of the 2.1 manual. Those ratings had no recorded source and were removed.

When you convert with Miyuki Delica, TOHO, DMC Thread, Mill Hill, Perler, Hama or Artkal, the materials list adds a column with a matching color in another brand. Use it to plan a substitute, to turn a thread chart into a bead chart, or the other way round.

Matches from Our Conversion Charts

Four directions come from Krazy Stitcher's own conversion charts, the same charts sold on the Conversion Charts page. The converter shows the chart's first (best) pick and the chart's own rating word.

You converted with	Column	Colors with a match	Ratings in the table
TOHO 11/0 Round	Delica match	All 412 TOHO colors	Good, Fair or no close match
DMC Thread	Delica match	All 285 DMC colors in the converter	Fair, or no close match
Miyuki Delica	DMC match	389 of the 474 Delica colors	Fair, or no close match
Mill Hill	Delica match	111 of the 118 Mill Hill colors	Good, Fair or no close match

TOHO uses the TOHO-to-Delica chart (C08). Its TOHO list and the converter's are the same 412 beads, so every TOHO bead has a match.

What the Words Mean

Rating	Meaning (from the conversion charts)
Good	The difference is visible side by side, but usually acceptable.
Fair	Clearly different side by side, but works as a substitute.
Poor	Noticeably different.
no close match	Nothing in the other brand is close. The converter still shows the nearest color, so you have a starting point.

Why DMC matches are never better than Fair. The DMC floss colors come from community-measured values (craft-color-codes by MakeBead, makebead.com, used under the CC BY 4.0 license), and floss is a different material from glass. The charts therefore rate no floss match better than Fair. The note under the materials list says this and carries the credit.

Some Delica colors and seven Mill Hill colors are not in the charts. Their equivalent cell shows a dash (—).

Approximate Equivalents

The other three directions come from older tables that were never checked against our charts. Each match is labeled **approximate**, and the note under the table says: "These equivalents are approximate and have not been checked against our conversion charts. Compare the colors before buying."

You converted with	Column	Colors with a match
Perler Midi	Hama equivalent	57 of 117
Hama Midi	Perler equivalent	53 of 89
Artkal S-Series	Perler equivalent	104 of 176

NABBI and MARD have no equivalent column.

Using Equivalents Well

- Treat every equivalent as a suggestion. Look at the real beads or thread under your own lighting before you buy.
- A Fair or approximate match is fine for a few beads, but noticeable across a large area of one color.
- For the second and third choices, the full ratings and the reverse directions, use the Krazy Stitcher conversion charts.
- The equivalent is the same in the printable recipe (Export as PDF), with the same note.

Chapter 14: Choosing a Brand

Seed Beads, Thread and Fuse Beads

- **Seed beads** (Miyuki Delica, TOHO, Mill Hill) are small glass beads for loom work, peyote and other stitches with needle and thread. Fine detail, slower work.
- **Delica** beads are cylinders. They sit flat and even, which suits loom and peyote patterns.
- **TOHO 11/0 Round** beads are rounder, with a softer look.
- **DMC Thread** is embroidery floss for cross-stitch. With Square / Loom, each cell is one stitch.
- **Fuse beads** (Perler, Hama, Artkal, NABBI, MARD) are plastic beads placed on a pegboard and ironed. Quick, and good with children. Remember the size tip in Chapter 6.

Compare Brands

Convert the same photo with two or three brands and compare the previews. Each brand has different colors, so one may suit a particular photo better. The Studio Project Library makes it easy to keep each version side by side.

Moving a Design Between Brands

- Best: convert the photo again with the other brand. The converter then picks from that brand's real colors.
- For a quick shopping list: convert once and read the equivalent column. Check Fair, Poor and approximate matches against the real beads.
- To turn an existing DMC chart into Delica (or back), the Krazy Stitcher conversion charts list up to three picks for every color.

Chapter 15: Master the Editor

A Good Editing Order

1. Click **Fit**, then zoom in to check the pattern.
2. Click Confetti Cleanup once to clear lone beads. Undo if it removed detail you want.
3. Fix the outline of your subject where the background color bleeds in.
4. In portraits, check the eyes and mouth bead by bead.
5. Remove colors that appear only a few times (below).
6. Zoom out and look at the whole pattern again.

Reduce the Number of Colors

1. Generate the recipe and look for colors with very low counts.
2. In Step 5, choose a similar color with the Eyedropper or the palette.
3. Select **Replace** and click a bead of the rare color. Every bead of that color changes.
4. Repeat for each rare color, then generate the recipe again.

> **Tip:** A pattern with 12 to 18 colors is much easier to buy for and sort than one with 30 or more. You can also simply convert again with a lower Number of Colors.

Adjustments by Subject

- **Portraits:** contrast +10 to +15; keep saturation near 0 so skin stays natural.
- **Landscapes:** saturation +15 to +25 for livelier greens and blues.
- **Logos and text:** contrast +20 to +30, 3 to 6 colors, and Primary Dither: None for clean edges.
- **Animals:** a little contrast helps fur and feathers; try Atkinson dithering.

Chapter 16: Stitch Types and Printing

Square / Loom

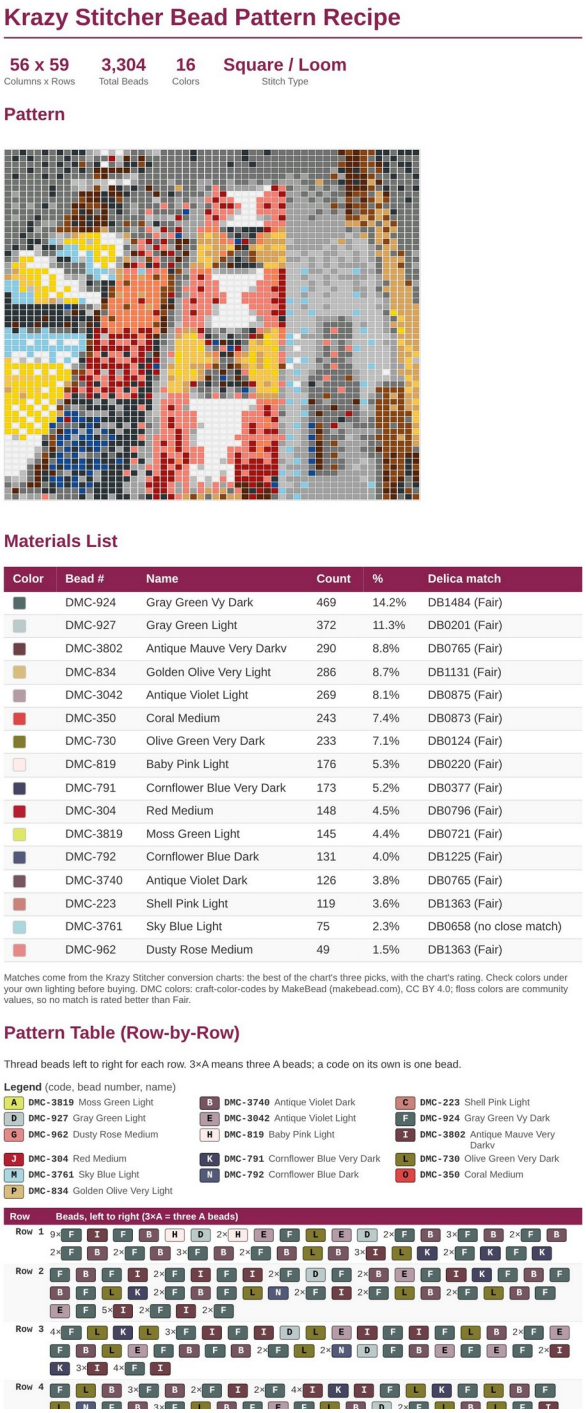
- Rows and columns line up.
- The size step allows 0.2 mm of warp thread between columns.
- Work Mode and the pattern table list each row left to right.

Peyote

- Every second row (rows 2, 4, 6 …) is drawn half a bead to the right.
- The pattern table and Work Mode still list each row's beads left to right.
- Bead counts are simply columns × rows; the materials list counts every cell.
- For flat even-count peyote, plan an even number of columns.

The Printable Recipe

Export as PDF (Chapter 9) gives a recipe like this one. Use your browser's print window to print it or save it as a PDF file.



Krazy Stitcher Bead Pattern Recipe

56 x 59	3,304	16	Square / Loom
Columns x Rows	Total Beads	Colors	Stitch Type

Pattern

Materials List

Color	Bead #	Name	Count	%	Delica match
	DMC-924	Gray Green Vy Dark	469	14.2%	DB1484 (Fair)
	DMC-927	Gray Green Light	372	11.3%	DB0201 (Fair)
	DMC-3802	Antique Mauve Very Darkv	290	8.8%	DB0765 (Fair)
	DMC-834	Golden Olive Very Light	286	8.7%	DB1131 (Fair)
	DMC-3042	Antique Violet Light	269	8.1%	DB0875 (Fair)
	DMC-350	Coral Medium	243	7.4%	DB0873 (Fair)
	DMC-730	Olive Green Very Dark	233	7.1%	DB0124 (Fair)
	DMC-819	Baby Pink Light	176	5.3%	DB0220 (Fair)
	DMC-791	Cornflower Blue Very Dark	173	5.2%	DB0377 (Fair)
	DMC-304	Red Medium	148	4.5%	DB0796 (Fair)
	DMC-3819	Moss Green Light	145	4.4%	DB0721 (Fair)
	DMC-792	Cornflower Blue Dark	131	4.0%	DB1225 (Fair)
	DMC-3740	Antique Violet Dark	126	3.8%	DB0765 (Fair)
	DMC-223	Shell Pink Light	119	3.6%	DB1363 (Fair)
	DMC-3761	Sky Blue Light	75	2.3%	DB0658 (no close match)
	DMC-962	Dusty Rose Medium	49	1.5%	DB1363 (Fair)

Matches come from the Krazy Stitcher conversion charts: the best of the chart's three picks, with the chart's rating. Check colors under your own lighting before buying. DMC colors: craft-color-codes by MakeBead (makebead.com), CC BY 4.0; floss colors are community values, so no match is rated better than Fair.

Pattern Table (Row-by-Row)

Thread beads left to right for each row. 3×A means three A beads; a code on its own is one bead.

Legend (code, bead number, name)

A DMC-3819 Moss Green Light · B DMC-3740 Antique Violet Dark · C DMC-223 Shell Pink Light
D DMC-927 Gray Green Light · E DMC-3042 Antique Violet Light · F DMC-924 Gray Green Vy Dark
G DMC-962 Dusty Rose Medium · H DMC-819 Baby Pink Light · I DMC-3802 Antique Mauve Very Darkv
J DMC-304 Red Medium · K DMC-791 Cornflower Blue Very Dark · L DMC-730 Olive Green Very Dark
M DMC-3761 Sky Blue Light · N DMC-792 Cornflower Blue Dark · O DMC-350 Coral Medium
P DMC-834 Golden Olive Very Light

Row	Beads, left to right (3×A = three A beads)
Row 1	9×F I F B H D 2×H E F L E D 2×F B 3×F B 2×F B 2×F B 2×F B 3×F B 2×F B L B 3×I L K 2×F K F K
Row 2	F B F I 2×F I F I 2×F D F 2×B E F I K F B F B F L K 2×F B F L N 2×F I 2×F L B 2×F L B F E F 5×I 2×F I 2×F
Row 3	4×F L K L 3×F I F I D L E I F I F L B 2×F E F B L E F B F B 2×F L 2×N D F B E F E F 2×I K 3×I 4×F I
Row 4	F L B 3×F B 2×F I 2×F 4×I K I F L K F L B F

The printable recipe for a DMC Thread pattern: the picture, the materials list and the start of the row-by-row table. The rest of the rows and the recipe code follow.

Printing Tips

- Print in color. The pattern picture uses the bead colors.
- For a large pattern, also save the pattern image (PNG) and zoom in on a tablet while you work.
- The printable recipe includes the row-by-row table. Untick Show bead colors in Step 6 first if you print in black and white.
- Use a highlighter to mark finished rows on paper.

PART III · PHOTO CONVERTER STUDIO

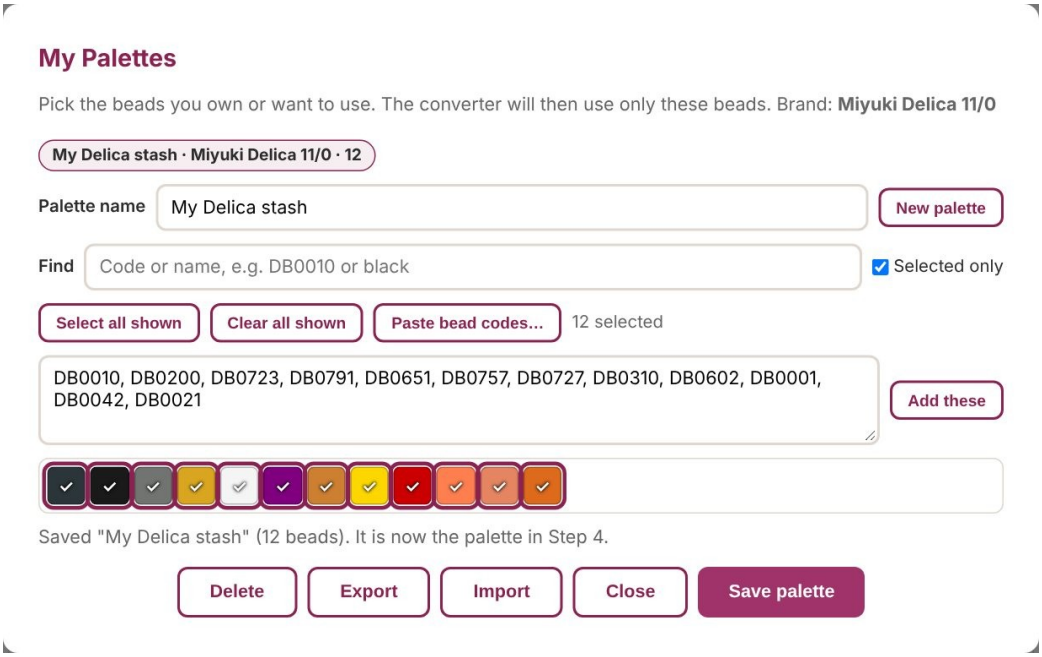
Chapter 17: Custom Palettes

> **Photo Converter Studio only:** The three chapters in this part need a Photo Converter Studio key or a Krazy Stitcher Studio key. Photo Converter Pro shows the buttons with a Studio tag and a dashed border, and pressing one opens the Photo Converter Studio dialog.

A custom palette is a list of the beads you own, or want to use, for one brand. When you choose it in Step 4, the converter uses only those beads.

Make a Palette STUDIO ONLY

1. In Step 4, choose the brand, then click **My Palettes...**.
2. Type a **Palette name**, for example "My Delica stash".
3. Click the bead swatches you want. A selected swatch has a check mark. Use **Find** to search by code or name, and **Selected only** to see just your choices.
4. Or click **Paste bead codes...**, paste a list (one per line, or separated by commas), and click **Add these**. Codes the brand does not have are listed so you can check them.
5. **Select all shown** and **Clear all shown** act on the beads the search is showing.
6. Click **Save palette**. It needs a name and at least two beads. The saved palette becomes the palette in Step 4.



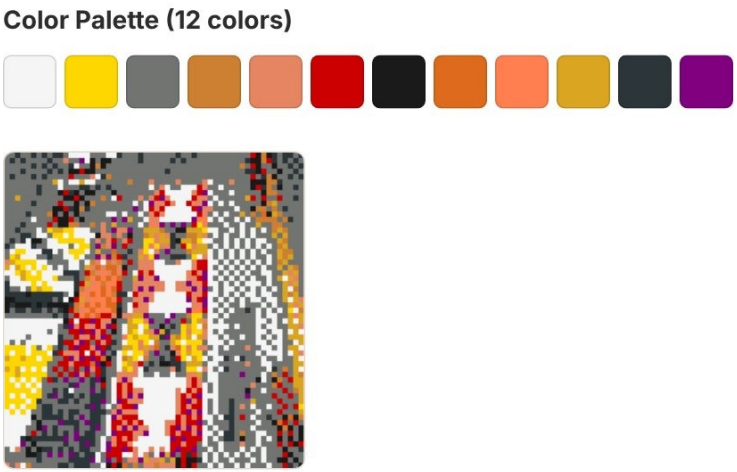
My Palettes with a 12-bead Delica palette, made by pasting codes

Use a Palette STUDIO ONLY

Choose it in the **Palette** list in Step 4. The list shows only palettes for the current brand. The Number of Colors slider cannot go above the number of beads in the palette. Choose **All ... colors** to go back to the whole brand.



The Palette list in Step 4 with a custom palette chosen



The same photo converted with only the 12 beads in the palette

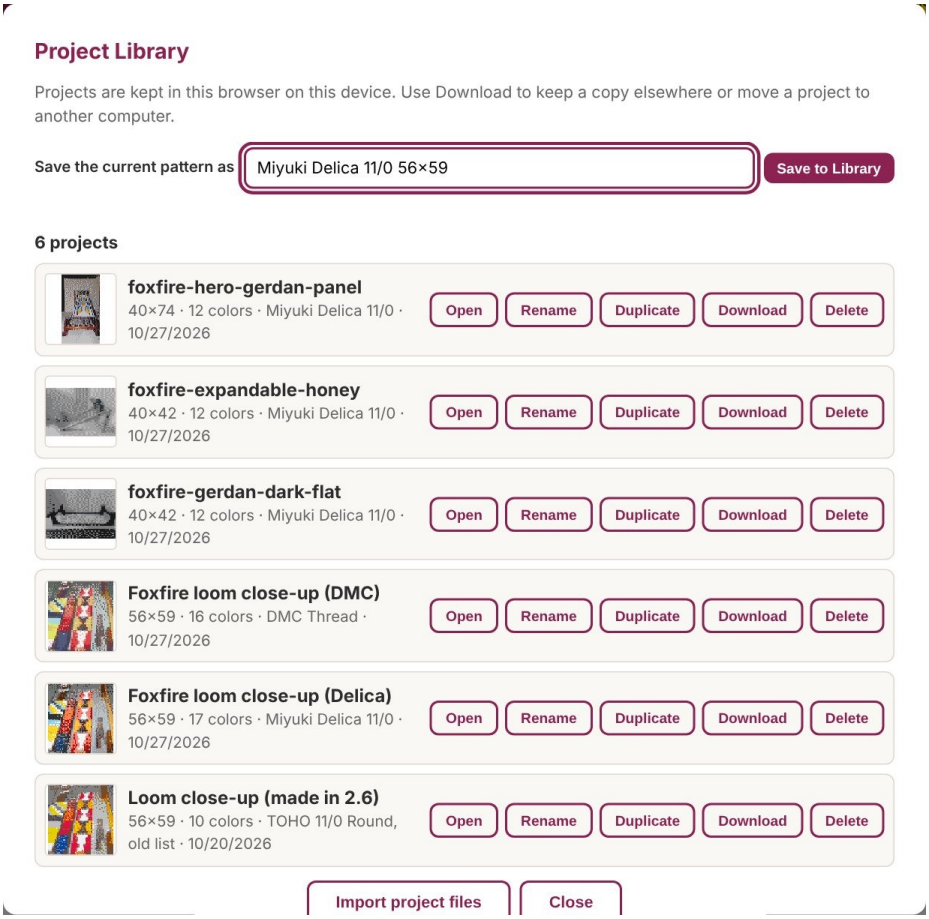
Change, Delete, Export and Import STUDIO ONLY

- Saved palettes appear as buttons at the top of My Palettes, with their brand and bead count. Click one to edit it (the brand switches if needed). **New palette** starts an empty one.
- **Delete** asks you to click **Confirm delete** within four seconds.
- **Export** saves the palette as a .kspalette file, to keep a copy or use it on another computer.
- **Import** reads a .kspalette file. Bead codes this converter does not have are left out, and the message says how many.
- A TOHO palette made before version 2.7 is marked **TOHO 11/0 Round, old list** and shows **Convert to real TOHO numbers...**, which saves a new TOHO palette next to it (Appendix G).

> **Note:** Palettes are kept in this browser on this computer. Export them to keep a copy.

Chapter 18: Project Library

The Project Library keeps as many patterns as you like, each with a name, a small picture, its brand and its size. Open it with **Project Library** at the top of the page or **Library** in the Step 5 toolbar.



The Project Library with six projects, one of them made with the old TOHO list

Save a Pattern STUDIO ONLY

1. Make or edit a pattern.
2. Open the Project Library. The box **Save the current pattern as** suggests a name such as "Miyuki Delica 11/0 56×59". Change it if you like.
3. Click **Save to Library**.

The library saves the edited pattern, its brand, stitch type, colors, recipe code and the name of the custom palette used. It does not keep the original photo.

Work with Saved Projects STUDIO ONLY

Button	What it does
Open	Loads the project into the Step 5 editor and switches to its brand. From there you can edit, make the recipe, export and use Work Mode.
Rename	Type a new name and press Enter (Esc cancels).
Duplicate	Makes a copy named "... (copy)", for trying changes safely.
Download	Saves the project as a .kspc file, to keep a copy or move it to another computer.
Delete	Click, then click Confirm delete within four seconds.
Import project files	Adds one or more .kspc files. Each file is checked; files that are not converter projects, or use bead codes the converter does not have, are skipped and counted. TOHO projects made before 2.7 are added on the old TOHO list (Appendix G).

> **Note:** Because the library keeps the pattern and not the photo, an opened project can be edited but not converted again with new settings. To try new settings, upload the photo again.

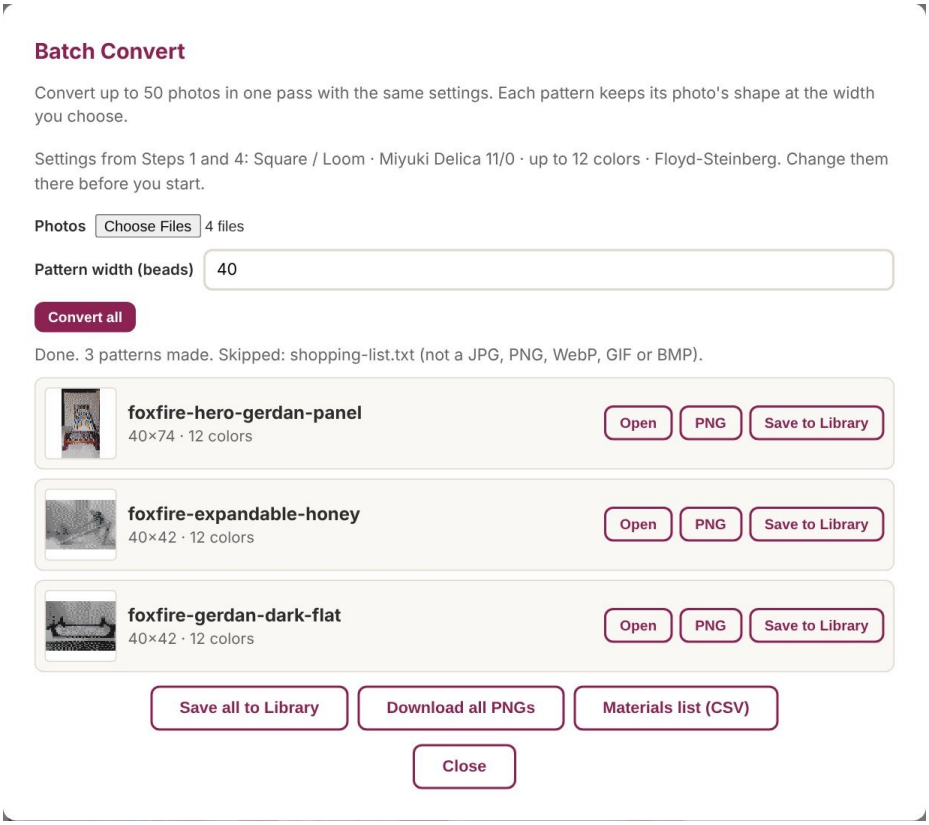
> **Watch out:** The library lives in this browser on this computer. Clearing site data, or using a private window, loses it. Download important projects as .kspc files.

Chapter 19: Batch Convert

Batch Convert turns up to 50 photos into patterns in one pass, all with the same settings. It is handy for a set of designs, a pattern book, or trying one look on many photos.

Run a Batch STUDIO ONLY

1. Set the stitch type in Step 1, and the brand, palette, number of colors, adjustments, Grayscale Mode and dithering in Step 4. The batch uses all of them.
2. In Step 2, click **Batch convert several photos**. The dialog lists the settings it will use.
3. Click **Choose Files** and pick your photos (JPG, PNG, WebP, GIF or BMP, 10 MB or less each).
4. Enter the **Pattern width (beads)**, from 5 to 500. Each pattern's rows are worked out from its photo's shape and the stitch, so nothing is stretched.
5. Click **Convert all**. The progress bar and message show which photo is being converted. **Cancel** stops after the current photo.



Three photos converted at 40 beads wide; a text file was skipped and named

Files that are not pictures, or are over 10 MB, are skipped and named in the message. If you choose more than 50 photos, only the first 50 are converted.

What to Do with the Results STUDIO ONLY

Button	What it does
Open	Opens that pattern in the Step 5 editor.
PNG	Downloads a picture of that pattern.
Save to Library	Saves that pattern to the Project Library.
Save all to Library	Saves every result.
Download all PNGs	Downloads a picture of every result. Your browser may ask to allow several downloads.
Materials list (CSV)	One spreadsheet file for the whole batch: pattern, width, height, brand, bead code, bead name and count.

> **Note:** Batch results have no PDF of their own. Open a result and use Export as PDF in Step 6. You cannot close the dialog while a batch is running; wait or click Cancel.

APPENDICES

Appendix A: Keyboard Shortcuts

These keys work on Step 5 (Your Bead Pattern).

Key	Action
P	Pen
I	Eyedropper
E	Eraser
F	Fill
R	Replace
Ctrl+Z	Undo
Ctrl+Y	Redo
Ctrl+S	Save the pattern in this browser
Esc	Hide the bead tooltip; close a Studio dialog (not while a batch is running)

On a Mac, the converter listens for the Ctrl key, not Command.

Appendix B: Supported Brands

Brand	Kind	Colors	Code example
Miyuki Delica 11/0	Seed bead, cylinder	474	DB0010
TOHO 11/0 Round	Seed bead, round	412	TR-11-81
DMC Thread	Embroidery floss	285	DMC-310
Mill Hill Seed Beads	Glass seed bead	118	MH-00020
Perler Midi	Fuse bead, 5 mm	117	P01
Hama Midi	Fuse bead, 5 mm	89	H01
Artkal S-Series	Fuse bead	176	S01
NABBI Midi	Fuse bead	30	N01
MARD	Fuse bead	221	A1
Total		1,922	

Colors on screen come from published color values for each brand. Real beads vary with finish, dye lot and lighting. The TOHO colors are the ones in Krazy Stitcher's TOHO master list, estimated from supplier photos.

Appendix C: Equivalent Tables at a Glance

Direction	Source	Rows in table	Ratings
DMC → Delica	Krazy Stitcher chart	489	452 Fair, 37 no close match
Delica → DMC	Krazy Stitcher chart	389	379 Fair, 10 no close match
Mill Hill → Delica	Krazy Stitcher chart	115	23 Good, 88 Fair, 4 no close match
TOHO → Delica	Krazy Stitcher chart	412	122 Good, 260 Fair, 30 no close match
Perler → Hama	Older table	57	approximate
Hama → Perler	Older table	53	approximate
Artkal → Perler	Older table	104	approximate

The DMC → Delica table covers more DMC colors (489) than the converter's DMC palette (285); every DMC color you can convert with has a match. The chart tables are generated from the conversion charts and checked against them whenever the converter is updated.

Appendix D: Files the Converter Makes

File	Made by	What is in it
Printable recipe	Export as PDF (print or save from the browser)	Pattern picture, materials list with equivalents, recipe code and QR code
KrazyStitcher_Pattern_COLSxROWS.png	Save Pattern Image	Picture of the pattern; recipe code stored inside as text
name.kspalette	My Palettes → Export (Studio)	Palette name, brand and bead codes
name.kspc	Project Library → Download (Studio)	The whole pattern: brand, stitch, size, colors, every bead, recipe code
name_COLSxROWS.png	Batch Convert → PNG (Studio)	Picture of one batch pattern
KrazyStitcher_Batch_Materials.csv	Batch Convert → Materials list (Studio)	Bead counts for every pattern in the batch

Appendix E: Where Your Work Is Kept

Everything below stays in your browser on this computer. Nothing is uploaded. A private window, clearing site data, or a different browser or computer starts empty.

What	Kept in	How many
Your license key and version	Browser storage	One
Saved pattern (Step 5 Save)	Browser storage	One slot
Work progress (Step 7)	Browser storage	One slot
Dithering presets	Browser storage	Three slots
Custom palettes (Studio)	Browser storage	As many as fit
Project Library (Studio)	Browser database (IndexedDB)	As many as fit
Copy of your palettes as they were before 2.7	Browser storage	One, made once
Copy of a save from before 2.7 (kept when you convert it or save over it)	Browser storage	One, made once
Palette text that could not be read, if that ever happens	Browser storage	One per time it happens

Appendix F: Glossary

Bead count — How many beads of one color the pattern uses.

CIE Lab — A color space that describes colors the way people see them: lightness, green–red and blue–yellow.

CIEDE2000 — The current standard formula for Delta E.

Confetti — Single beads of a color surrounded by other colors. They are slow to bead and look noisy.

Delta E — A number for how different two colors look.

Dithering — Mixing neighboring beads to suggest colors and shading.

Equivalent — A matching color in another brand, shown in the materials list with a rating.

Fuse bead — A plastic bead placed on a pegboard and ironed so neighbors melt together.

Grid — The columns and rows of the pattern; each cell is one bead or stitch.

K-means++ — The method that groups the photo's colors before matching them to beads.

Peyote stitch — A stitch in which every other row is offset by half a bead.

Recipe code — A short code that records the settings used to make a pattern.

Seed bead — A small glass bead, round or cylinder shaped.

Square stitch / loom — Beadwork in a straight grid of rows and columns.

TR-11- — How the converter writes TOHO Round 11/0 numbers: TR-11-81 is TOHO 81.

Work Mode — The step that guides you row by row and tracks progress.

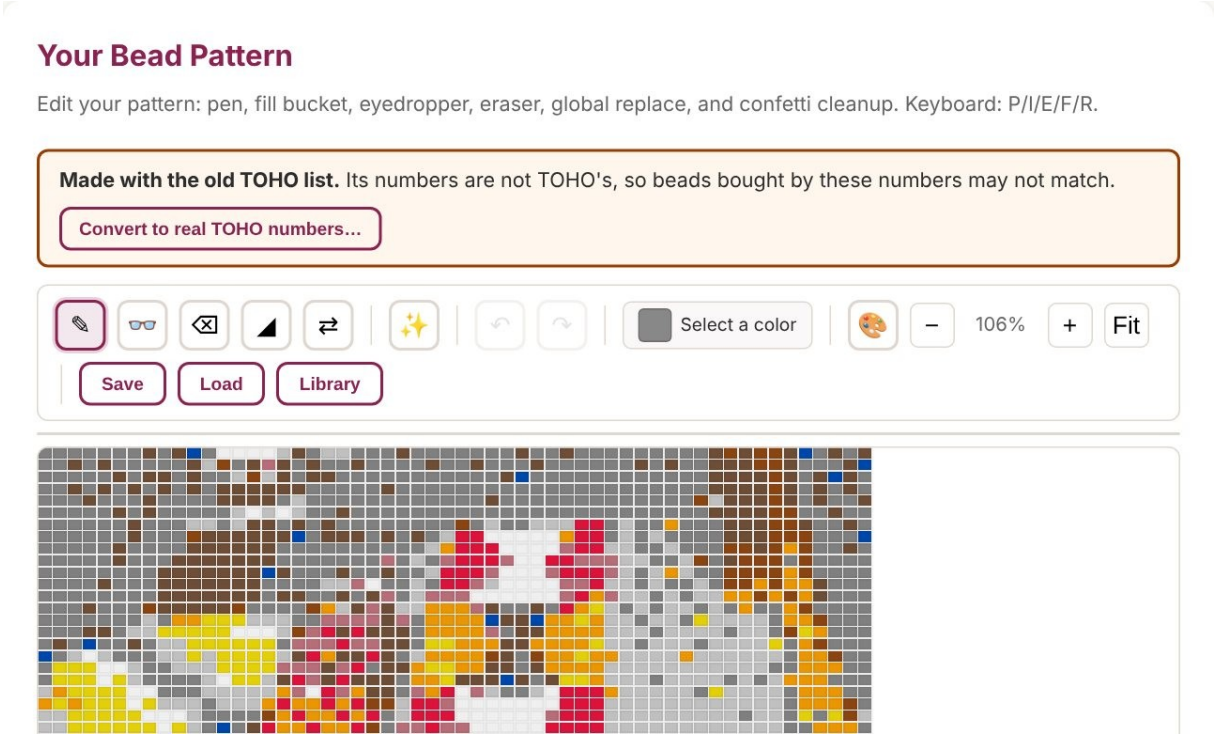
Appendix G: Patterns Made with the Old TOHO List

Before version 2.7 the converter's TOHO list had 304 colors. Its numbers were not TOHO's own: most of them belong to a different TOHO color, and some could not be found at TOHO at all. For example, its T-81 "Ceylon Lt. Peach" was a peach color, but TOHO 81 is Metallic Hematite, a near-black bead. Only about one in twelve of the old entries had the right TOHO number and name.

From 2.7 the TOHO list is Krazy Stitcher's TOHO master list: 412 colors with TOHO's own numbers, written TR-11-81 (TR-11 stands for TOHO Round 11/0). It is the same list our conversion charts use.

Your Old Work Still Opens

Work made with the old list keeps its old codes and opens with exactly the colors it was made with: Save & Resume saves, Project Library projects, .kspc files, custom palettes and .kspalette files. The brand menu shows **TOHO 11/0 Round, old list** while such work is open (the entry goes away when you choose another brand), and a note says **Made with the old TOHO list.** New conversions always use the real TOHO numbers.



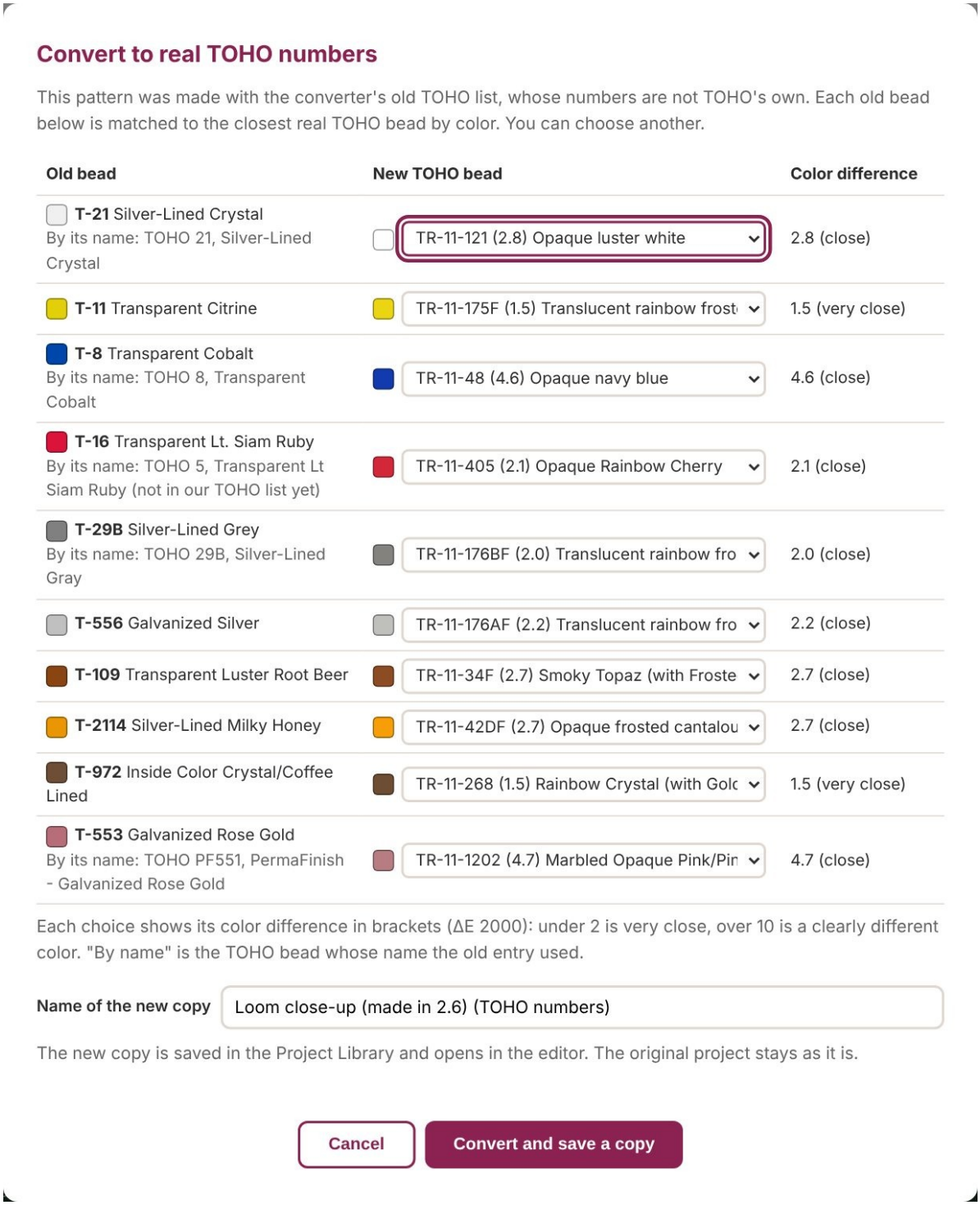
An old TOHO project, opened from the Project Library

> **Watch out:** Old codes are never turned into new ones by number. TOHO 81 is a different bead from the old T-81, and that is true for about half of the old codes. Do not buy beads by the numbers on a pattern made before 2.7: convert it first.

Convert to Real TOHO Numbers

1. Open the old pattern, then click **Convert to real TOHO numbers...** in the note (Step 5 or Step 6). For a palette, open it in My Palettes and click the same button there.
2. The dialog lists every old bead next to the real TOHO bead closest to it in color, with the color difference (Delta E 2000; under 2 is very close).

3. To choose another bead, open its list. It offers the three closest TOHO beads and, marked **by name**, the TOHO bead whose name the old entry used, if our list has it. Under the old bead, "By its name" names that TOHO bead even when our list does not have it yet.
4. For a library project or a palette, check the **Name of the new copy**.
5. Click **Convert and save a copy** (or **Convert**).



Each old bead with its closest real TOHO bead; the list offers other choices

You converted	What you get	What happens to the original
A Project Library project or imported .kspc file	A new library project named "... (TOHO numbers)", opened in the editor	Unchanged in the library
A pattern from Save & Resume	The converted pattern in the editor. Press Save to keep it.	The old save stays until you press Save, and a copy of it is kept in the browser
A custom palette or imported .kspalette file	A new TOHO palette named "... (TOHO numbers)", chosen in Step 4	Unchanged in My Palettes

The pattern keeps every bead in its place: each old color is replaced by the TOHO bead you chose. If you choose the same TOHO bead for two old colors, they become one color.

> **Tip:** Your old pattern's colors were never measured bead colors, so a "close" match is close to what you saw on screen. Compare the new TOHO beads with the tubes you own before you buy more.

Palettes from Before 2.7

The first time version 2.7 opens, it marks your TOHO palettes from before 2.7 as old-list palettes and keeps an untouched copy of your palette list in the browser. This happens once. Your Miyuki, DMC and other palettes are not changed.

To get that list back, open My Palettes and click **Restore my palettes from before the 2.7 update**. It adds the old palettes next to today's. Nothing is deleted or replaced: palettes you already have are left out, and an old palette that clashes with one of today's is added as "... (from before 2.7)".

> **Note:** If your saved palettes ever cannot be read (for example after a browser problem), the converter does not treat them as empty. It keeps the unreadable text in the browser under its own name and starts a new, empty list, and My Palettes tells you so.

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Krazy Stitcher Essentials, Pro and Studio: bead pattern design apps with many stitch types, print-ready PDFs and photo import.

Conversion Charts: DMC, Delica, TOHO, Mill Hill and more, with honest ratings and up to three picks per color.

Free guides for beginners and beyond, in the Documentation section.

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