RAPID RESIZER HANDBOOK

Patrick Roberts



Rapid Resizer Handbook

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Let's go!

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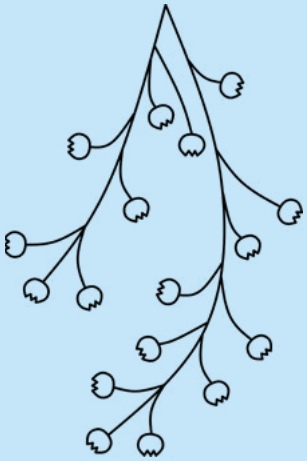
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BOOK LEGEND



Razee Tips

Quick tips and information to remember!

QR Codes

Links to different pages on the website, use your phone's camera to access these links.



Designs

Any doodle with a hyperlink is available in our Design Library for free!



Wizard Razee

New amazing features on the app.

PREFACE

This book is regularly updated as Rapid Resizer continues to evolve. You can find the latest version in PDF and print at https://www.rapidresizer.com/book.

If there are sections of the book that you would like us to elaborate on, or if there are additional subjects you think we should cover, let us know at help@rapidresizer.com.

For brevity, I use the terms "click" and "double-click" but on a touch screen you can substitute "tap" and "double-tap".



INTRODUCTION

My mother was struggling to enlarge a stained glass pattern. This was in 1998 when awkwardly using the library's photocopier was one of the better solutions.

At the time, I hoped to become self-employed and was looking for a useful idea. A program could take a design from your scanner, scale it to any size and print it across pages on your home printer. (Of course, artists usually now get their designs from the Internet rather than scanning a book.)



Donna Roberts

Being inexperienced, I over-complicated / procrastinated the process but eventually released version 1.0. After a few months, the first artist bought the program!



Customers soon informed me that it was useful for mediums well beyond stained glass: woodworking, fabric arts, calligraphy, neon signs, and countless more. And then of uses beyond art: maps, model airplanes, motorcycle accessories—and users keep surprising me with new applications. (While mainly geared toward producing black & white patterns, Rapid Resizer can also handle photos and produce color designs.)

In 2011, I updated Rapid Resizer for the Web so artists could use it not only from Windows PCs but a growing range of devices: Macs, tablets, and phones.

Artists worldwide continued to discover Rapid Resizer and as of 2024 it's reached:

* Over a million visitors per year.
* Hundreds of thousands of designs exported from the Letter and Picture Stencil makers each year.
* Well over a hundred thousand resized designs outputted per year.
* A growing library of 500+ quality free vector designs.
* A growing collection of 200+ built-in fonts.

And we're working harder than ever to make the Rapid Resizer system even more helpful with more features, designs and lessons to help you get the most from it.

Through this handbook, you'll become a Rapid Resizer expert who can easily:

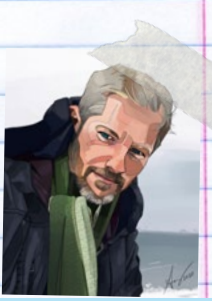
* Resize designs accurately.
* Make your own designs from text or photos.
* Customize designs: add & remove lines, change the shape, mirror, repeat, ...
* Draw full-size designs from scratch.
* Find, combine, and customize designs from our growing library.
* Preview your finished project, coloring it in with photos of real material. Then see it in augmented reality.

I can't wait to see your next masterpiece.

Patrick Roberts

Patrick Roberts

Creator of Rapid Resizer



Applications

Rapid Resizer is used in a **HUGE** and growing range of arts and practical fields including:

Stained glass and mosaics

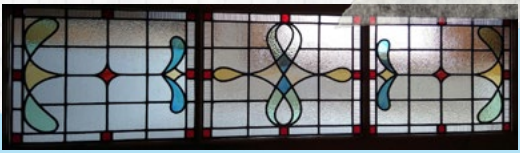


Charlotte Aaberg



@sunbearglasscraft

By Gonny



Along with printing, you can export your designs for use in CNC machines or other programs!

Rapid Resizer also has simple support for 3D design by extruding 2D designs.

Woodworking



laurenmollica.com



whitepinewhimsy.com

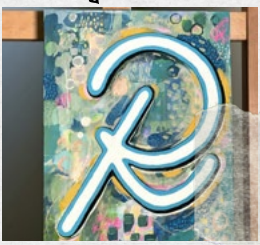


Valkyrie Customs

3D Printed Jewelry



Painting



Other Mediums

* Woodworking: scroll saw, wood carving, intarsia, wood burning, marquetry and pyrography
* Painting: tole, decorative and mural
* Fabric: sewing, appliqué, cross-stitch, rug hooking, felting and creating doll patterns
* Calligraphy
* Signs and posters
* Plus many more such as chalk art, silhouettes, printables, vinyl cutting and metal engraving

Practical Appplications

Endless possibilities such as maps, model airplane plans, motorcycle accessories, neon signs, scrapbooking and Christmas ornaments.

ACCESS



As Rapid Resizer is a web app, there's nothing to install or update. You can simply log in at https://www.rapidresizer.com. The log-in link is in the upper right.

Log In

To create a shortcut on Chrome

1. Go to the New Project page.
2. Click the triple dot button near the top right.
3. Click Save and Share.
4. Click Create Shortcut (if you're on a Mac, Chrome will place the icon in a folder, drag the icon from there to your desktop).

In a browser other than Chrome.



1. Go to the New Project page.
2. In the Bookmark menu, click Add Bookmark.
3. Save it to your Favorites or Bookmarks bar.

Compatibility

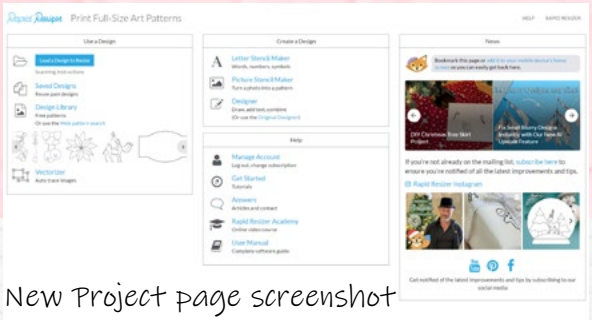
Rapid Resizer should run on just about any device with a recently updated web browser.

Almost all features can be used on small phone screens. The more complex tools, especially the Designer and Swatch Coloring, are only practical on a larger tablet or computer screen. While larger devices are generally preferable, the augmented reality view requires a phone or tablet with rear-facing camera.

Navigation

The main screen is the New Project. There you can:

* Load designs from your device
* Access the designs saved to your account
* Create a new design using the Picture Stencil Maker, the Letter Stencil Maker or the Designer
* Read the latest updates on the blog or social media accounts
* Manage your account settings
* Access the FAQ and contact support



New Project page screenshot

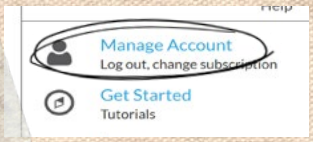
Undo

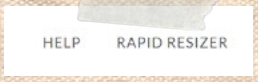
You can undo major changes to your design using your web browser's back button. The Designer, Letter Stencil Maker and Coloring tools have their own undo buttons.

ACCOUNT MANAGEMENT

How to Find Manage Account

If you're logged in, you can find Account Management on the New Project page here under the Help section or in the top right corner of the screen (which will have your name) or three lines on mobile.







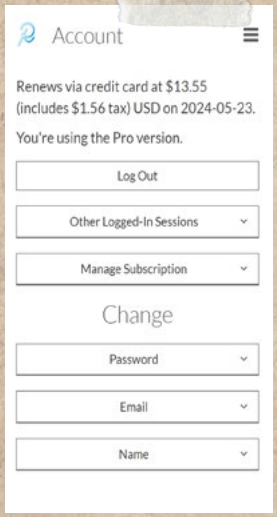
Once open, this is where you can manage everything from updating your email and password to changing your subscription.

Emails

Rapid Resizer emails can end up in your spam, so just be sure to check your spam folder if you don't see the email. If you use gmail, once you remove one Rapid Resizer email from your spam folder, it will remember to send future emails from to your primary email folder. You can also add Rapid Resizer as an email contact to ensure the emails end up in a primary folder.

Plans and Payments

In the top left over the Log Out button, you will see your current Rapid Resizer plan. Above this, you can see when your plan will next renew or expire. If you're a non-PayPal user you will also receive an emailed renewal notice one week prior to the renewal. Once the payment goes through, you will receive an emailed receipt for the transaction.



Please note depending on the bank, the payment reflected on your bank statement might appear as either Rapid Resizer or Roberts Studios Inc. (Rapid Resizer's parent company). If you have any inquiries, don't hesitate to contact us through the Help button near the top right of every page.

Changing Your Plan

To upgrade or downgrade your plan, you can re-subscribe to the plan of your choosing under the Manage Subscription tab. If there's any paid time remaining on your last subscription, it will be automatically refunded prorated.

If you ever want to cancel your subscription, you can cancel from this page.This will stop your account from automatically renewing and charging your payment method. Your account will remain and you will still be able to access the paid features for the remaining paid time. Cancelling simply stops the auto-renewal.

Otherwise, if your order's within the 30-day money-back guarantee, you can request a refund in the Manage Subscription section of the Account Management page. If you don't see the refund option there, you can email help@rapidresizer.com for a refund.

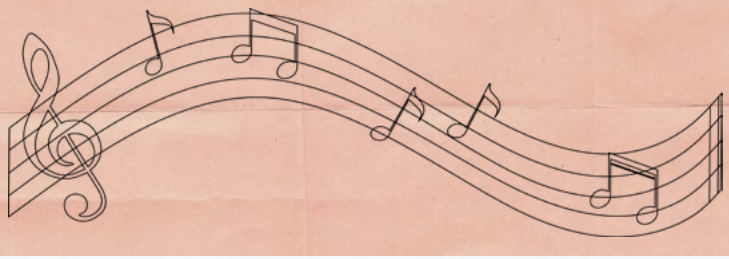
IMPORTING DESIGNS

Load a Design

You can load an image from your device when in the New Project, the Picture Stencil Maker, the Designer and the Vectorizer.



Load a Design on the New Project page screenshot

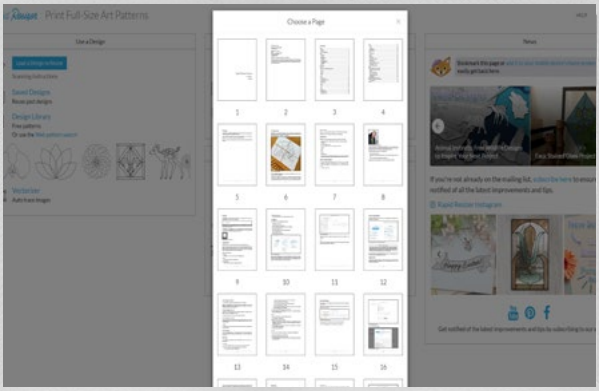


If the file is a PDF, Rapid Resizer will use its page size to set the initial size of the design. Other formats may specify their DPI (dots per inch) and Rapid Resizer will try to use that, though it may be inaccurate.

Importing Documents

If you load a PDF, you'll be asked which page to import and it will be rasterized.

Document files beside PDFs such as Word or PowerPoint, aren't accepted. If you only want an image that's inside the document, you may be able to export it to an image file. You can also export a page or slide as an image or PDF.



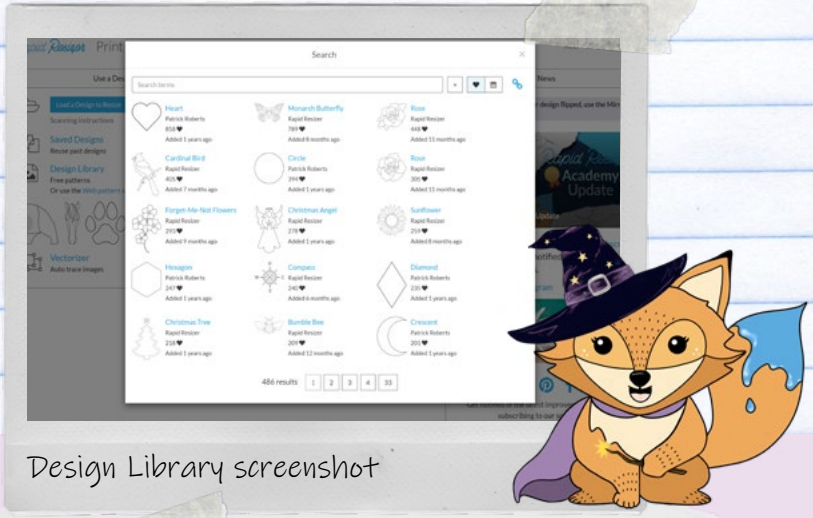
Loading a PDF screenshot

Licensing

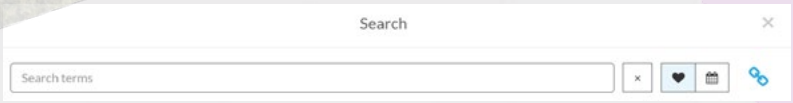
If an image isn't your own and isn't only used for personal use, ensure that the owner's license permits how you plan to use it.

Design Library

Our design library has a growing range of free designs. You can choose to use the design as-is or add your own artistic flare by customizing it in the Designer.



Design Library screenshot

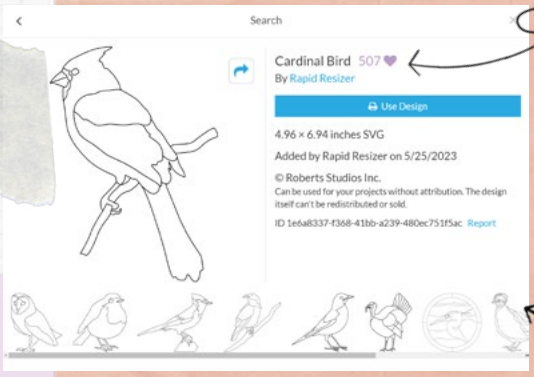


There are three ways to browse designs: by searching for the title, browsing by popularity or by date. Use the date option to see what's new.

Designs by Rapid Resizer are all high quality vectors, perfect for larger professional projects.

Click on the design you want to use then click the Use Design button. It takes you directly to the Customize & Resize step.

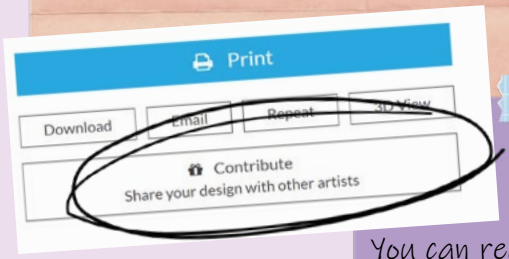
Check the number beside the heart to see which design are popular. It counts how many times the design has been used.



Find related patterns underneath the current design.

Contributing Designs

We encourage Rapid Resizer users to share their work with others through the Design Library! Ensure that any design you share is a vector or high quality raster image.



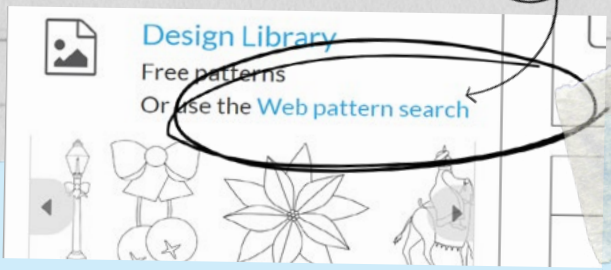
You can request a design if you don't see it in the Design Library. Simply email us your amazing ideas and we may create the designs for you!



Finding Designs Online

Rapid Resizer has the Web Pattern Search that uses Google to image search with settings to filter for patterns to help you find free designs from the internet.

The Letter Stencil Maker's symbol fonts include hundreds of different shapes as well!



Make sure to download the most detailed copy of the design to get the best printout. Try to click through to get the largest (in pixels) version of the image. Avoid trying to use the small thumbnail of an image.

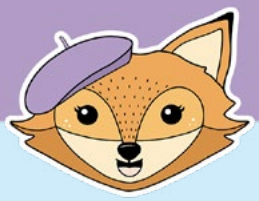


Image Quality

It's important to load the highest quality image of a design to ensure you get the best possible resizing. A low-detail image will enlarge poorly. While this can be mitigated somewhat, it's worth the time to get the best possible input. Vectors are better for large resizings.

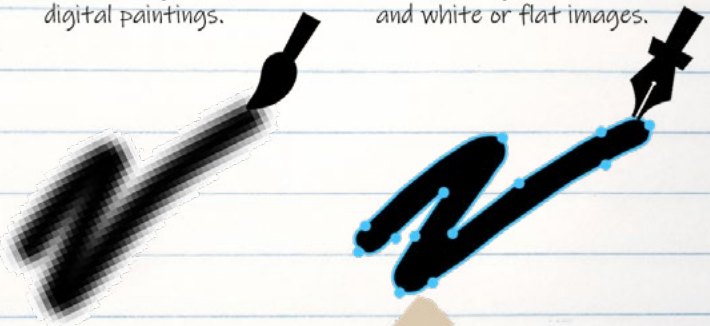
Raster vs. Vector Images

Raster Image

Ideal for photography and digital paintings.

Vector Image

Ideal for typography and black and white or flat images.



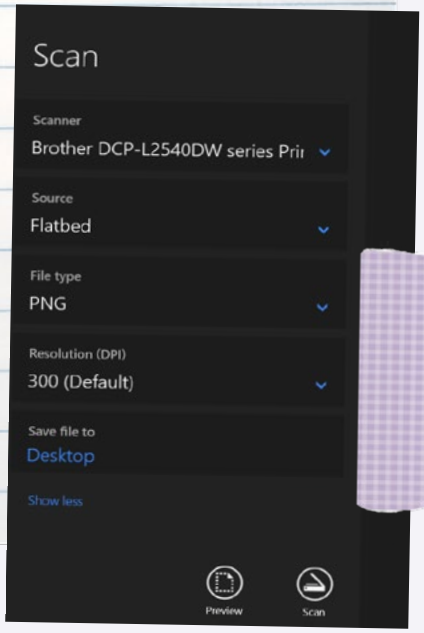
Raster images are defined by a grid of colored dots. Vector images are composed of geometry: there's a line from here to there and there's a circle of this radius over there. Vector images are ideal because you can easily alter their shapes and they can be resized without a loss of quality. With rasterized images try to get the version with the most pixels.

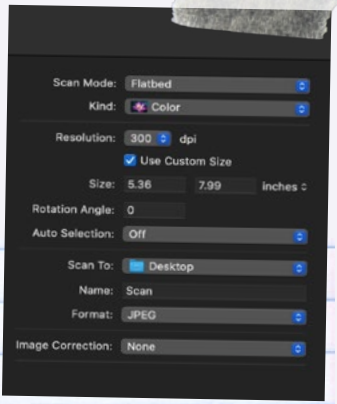
Most raster image formats are accepted by Rapid Resizer: JPG, PNG, GIF, etc.

The only supported vector format is SVG. For details see Appendix B.

Scanning on Windows 10/11

1. Click on the Windows Start Button on the dock or your keyboard.
2. Type "Scan" to search for the Scan app. Click on it to open the app.
3. Once connected to your computer, you can customize the image before the scanning. Depending on the Source, different options will appear. It may default to Auto-Configured, but when choosing a specific source, more options will appear. Choose the File Type and Resolution (200 is recommended although 300 is ideal) and depending on your scanner, you can choose to scan in color or black and white.
4. Feel free to preview this scan if you're scanning through the flatbed.
5. Choose the scan location by changing the Save file to, saving it to your Desktop or Pictures folder will make it easier to find in the future!
6. Click the round scan icon in the bottom left to start the scan.
7. Upload your design to Rapid Resizer.



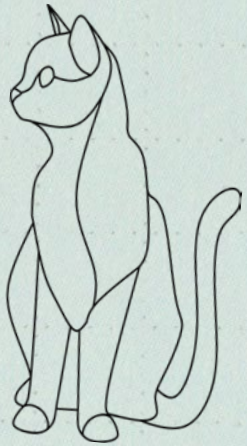


Scanning on Mac

1. Hold down ⌘ and press the space bar.
2. Type "Image Capture" and press enter.
3. Select your scanner from the list on the left.
4. An option near the bottom left (or on the right, midway down, if you have details shown) of the Image Capture window shows where the scan will be saved.
5. Choosing Pictures or Desktop will make it easier to find your file.
6. Setting the DPI to 200 is recommended, 300 is ideal. Click the Scan button. It's near the lower right corner of the Image Capture window.
7. Highlight the area you would like to scan when prompted by left clicking and dragging the dotted box.
8. Click scan once more after the area is selected.
9. Upload your design at Rapid Resizer.

Assuming your scanner software stored accurate DPI information in the file, Rapid Resizer will use that to have the initial width & height be real-world accurate to the original.





Load an Image on Mobile

You can use your phone or tablet's camera to capture an image directly into Rapid Resizer.

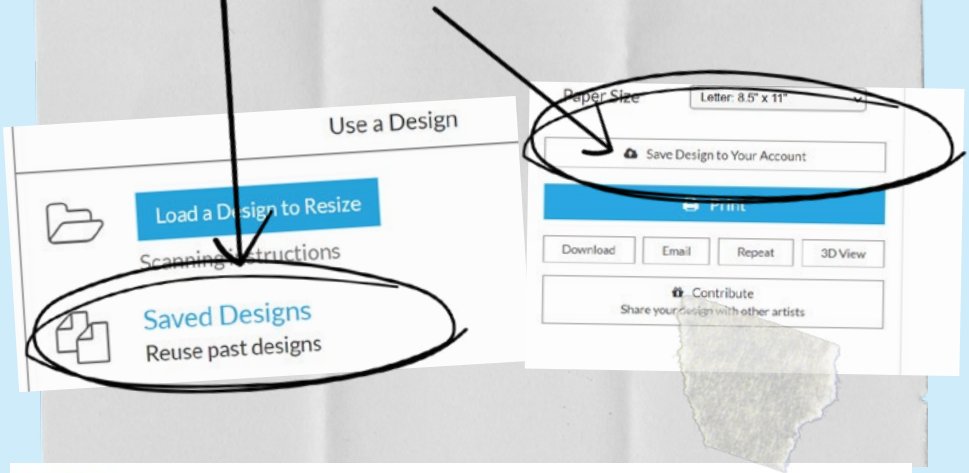
1. From the New Project page click on the Load a Design button.
2. Choose the option to get an image from your camera.
3. Try to avoid tilting the camera or the image will be skewed.

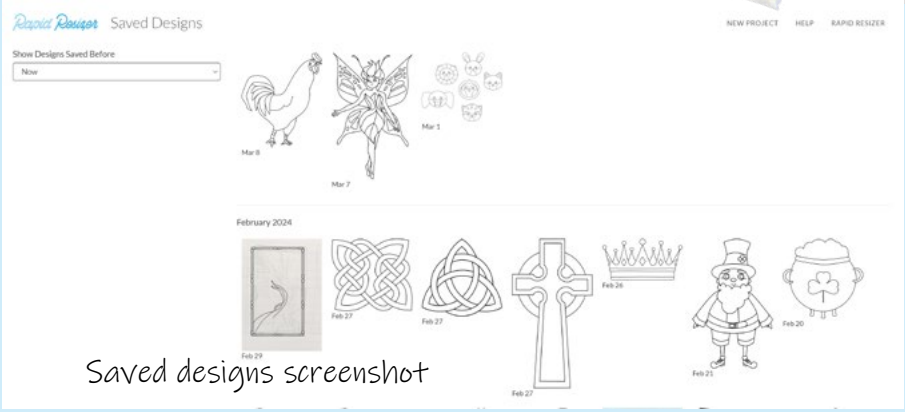
Saving Designs

You can save designs online to your account. Then you can easily access them from any device. You can save from the resizing step, but you can also save directly from the Designer and Swatch Coloring.

Your design's saved with its resized size, unit of measurement and an optional title.

You can access your saved designs through the New Project page and the Designer.

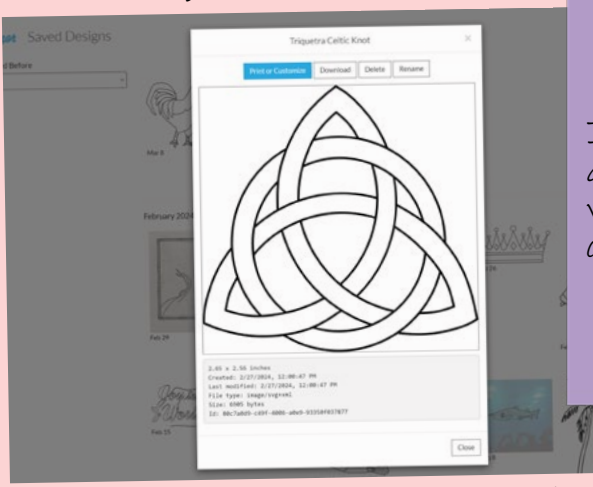




Saved designs screenshot

IMPORTING DESIGNS

Saved designs details screenshot



Backups

It's a good idea to also backup your favorite designs to your computer.



Click on a thumbnail to see its details

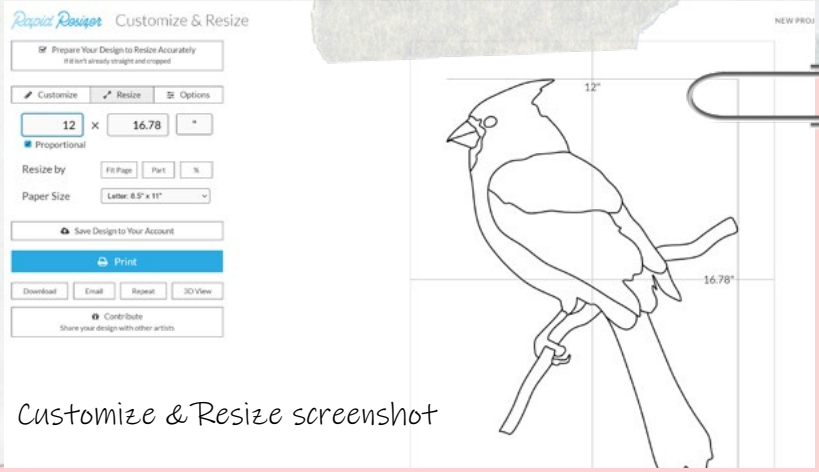
The "Print or Customize" button loads your design into the resizing step with the saved size. There you can reprint or customize it. If the design was made in the Letter Stencil Maker (and it wasn't modified with other tools) you can choose to load it back into the stencil maker to alter the text.

You can also download your design from here. If you need to download the resized version, click the Print button and download the resizing from there.

When you save a modified version of the design, you have the choice to replace the original. Best to err on the side of saving multiple versions of a design in case you need to go back to a previous version.

In your account, vector designs are stored as SVGs as that's the Web's standard vector format. Raster designs are stored as PNGs because that's the most popular lossless raster format.

RESIZING



Customize & Resize screenshot

After you load a design, you'll arrive at the resizing step. This is the hub for working on a design. You can click the Customize button to access the tools for altering your design. In most of those tools, click Apply Changes to return to the resizing step with your altered design. Click Don't Apply to return to the resizing step with your design unchanged.

When you want to start a new design or load a different one, click the New Project link in the upper right.

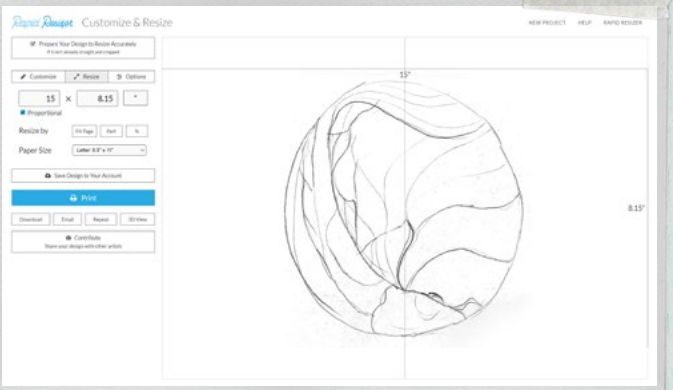


Image needing to be cropped

Before Resizing

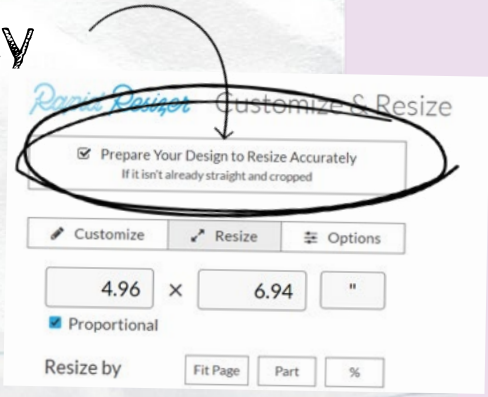
To resize accurately, your design must be straight and cropped because any space at the outside of the design will get resized too and your design will print smaller than expected.

Designs made in the Letter Stencil Maker or Designer are usually already cropped.



Prepare Your Design to Resize Accurately

This button takes you through the three usual steps of producing an accurate ink-efficient resizing: Straighten, Crop and Save Ink.



Sizing

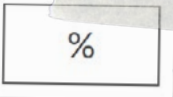
Enter the size of your whole design in the width x Height fields. (Fractions are allowed.) You can enlarge or reduce the size.

Reproportioning



If you enter only a width or height (not both) the other dimension will be automatically updated to preserve your design's proportions. If you want to change the proportions, you can uncheck the Proportional box.

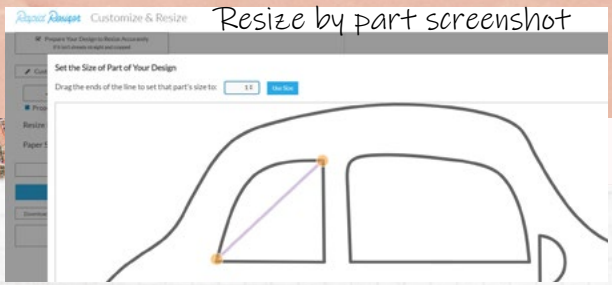
Sizing by %



You can change the size to a percentage of the original. E.g. 200% will double the original width. It automatically takes into consideration the required page margin explained in the Options section below. If you're trying to print the exact full size of one or more pages, that will use more pages because (unless your printer is setup for borderless printing) there has to be some blank space around the edge of each page.

Sizing by Part

When resizing, you can use the 'By Part' option to give the size of a part of your design. It automatically calculates the overall size. E.g. if you need a hole in your design to be 1" in diameter.



Resize by part screenshot

Margins



By default, printers usually won't print to the edge of the page so Rapid Resizer has to add a margin. You can check your printer's settings and see if there's a borderless option.

If you've set your printer to borderless, then in the resizing step's Options, set the margin to 0. Even without your printer set to borderless, you can experiment with the margin to find the smallest value that works with your printer.

Unless your printer has been set up for borderless, it requires a margin at the edges of each printed page. The safe default is 0.5".

Download

You can download your design to your device in different formats:

PDF

You can download your resizing as a multiple-page PDF. You can post or share this file with others and they can print it on multiple pages without Rapid Resizer.

SVG

If your design is a vector image, you can download it as an SVG to use in programs that accept that common format.

PNG

You can also download designs as a PNG file.



If you want to print the same resizing repeatedly, it's a good idea to keep the PDF file on your device. Then you can get the exact same result without having to check if a resizing setting changed.

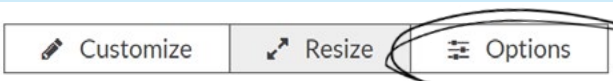


Repeat

You can duplicate your design within a printout. Click the Repeat button and set the number of repeats and the spacing. This is helpful if you need multiple copies of a small design and you can fit them on a single page. Size your design before repeating it, otherwise the spacing will change.



Repeat design screenshot



Paper Size

It will save some assembly time to use the largest paper your printer supports. Probably, Legal size paper. Make sure the settings in Rapid Resizer and the paper size in your printer's settings are the same.

Don't use the "Fit: Size of design" paper size option unless you're using a large format printer.

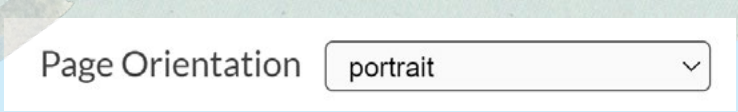
Page Numbers

The numbering is in "column, row" format to help you layout the grid of pages. They're hidden when there's only one page.



Page Orientation

By default, Rapid Resizer uses the orientation (portrait vs. landscape) that will use the fewest pages. If you need a specific orientation, you can override this in Options.



RESIZING

Lines

If it's a vector image, the lines will enlarge smoothly. A raster image, by default, will become increasingly pixelated as you enlarge. This is why it's important to use high-resolution images. By default, lines are scaled in thickness with the rest of the resizing. The options below let you change how the lines will be resized.

Unchanged

Lines will thicken proportionately with the resizing. Lines in raster images may become jagged or blurry.

Custom Width

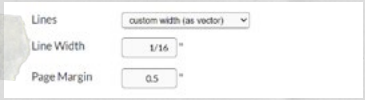
Lets you set a specific line width without vectorizing.

Custom Width (as vector)

Vectorizes the drawing and lets you set the width of the traced lines.

Smooth (as vector)

Leaves the line width unchanged but vectorizes the lines so they have smooth sides at any size

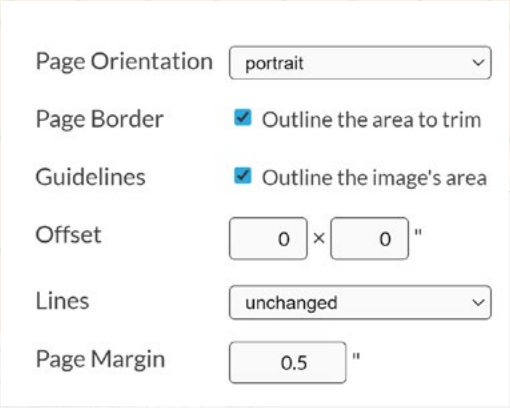


If the design's already a vector image, you'll only have the "custom width" (as vector) option. In which case, it will override the thickness of all the lines in the design.

Any of the methods when used on lines in a raster drawing can distort their shape.

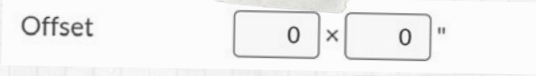


The Line settings work much better with a clear black & white line drawing. If your design isn't already like that, run it through the Picture Stencil Maker or Save Ink tool first.



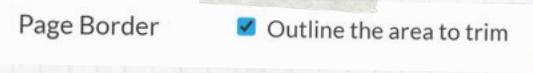
Options screenshot

Offset



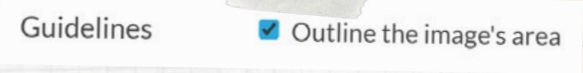
By default, your design is centered in the printout. You might want to offset the design from the center to avoid a section falling across a page edge.

Page Border



This outlines the printable area of each page. That's the area minus the page margin. When assembling a multiple page resizing, you'll cut off the paper outside this border. When printing on one page, the border is omitted.

Guidelines

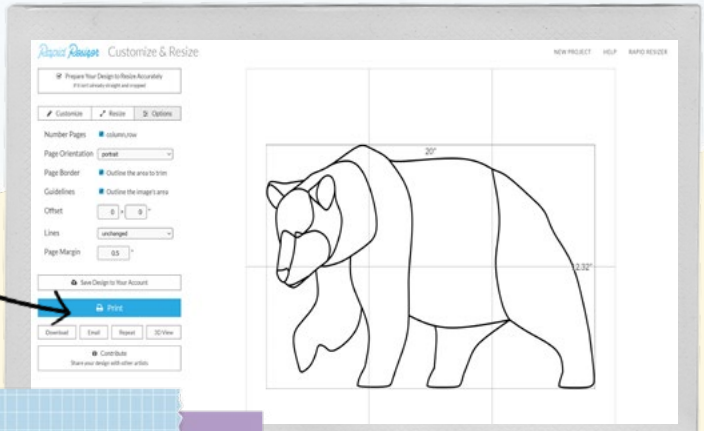


This prints a border around the area in the resizing of the image. This box will be the width and height you entered when resizing.

Preview

On the right, you get a live preview of your resizing. The solid boxes outline each page. The dotted box shows the area of the image within the resizing. If there's space or other elements of the design you don't want in the resizing, you can see it there.

When you go to print your design, you'll get a second preview provided by your device.



Preview screenshot

Save

Remember to save your design to your account!



Don't try printing the resizing step web page itself. Click the large blue Print button below the width and height fields. That makes the file that you can send to your printer.

Common Issues

If your resizing is printing smaller than expected, the most likely cause is empty space at the sides of the image. Crop it so there's no space around the design. Go to the page where you enter your design's size and click Prepare our Design to Resize Accurately. That will take you through the steps to straighten and crop your design.

If your design is the wrong size, check your device's print settings. These are the settings that appear after you click Proceed in Rapid Resizer. Ensure no option is set to shrink, fit or scale your design. You want it to print at the actual (resized) size with 100% scale. For example, Actual size should be on and Fit to page off. (In Chrome's PDF printer, you have to click More settings to reveal these.)

Also, check the Page Margin in Rapid Resizer's resizing options. It should be at the default value of 0.5" (unless you've set up your printer for borderless printing).

If your printer isn't receiving anything, try printing from another program to see if the issue is outside of Rapid Resizer.

There's a distinction between Rapid Resizer's print settings for paper size & orientation and those in your device's print settings later. Ensure they match!



AI Upscale

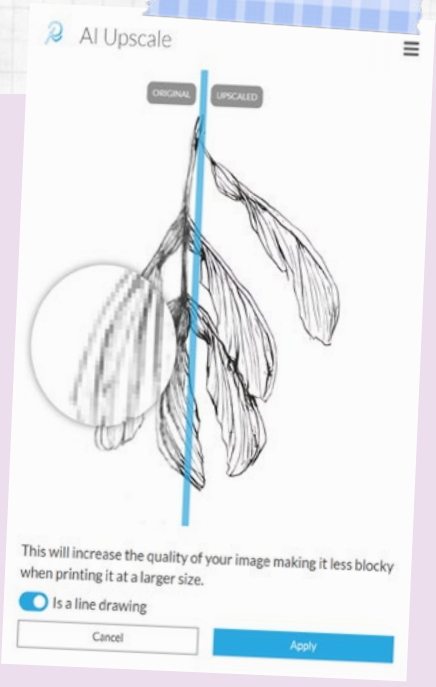
If you have a smaller design you want to resize but find the quality drops when the size increases, look no further! We released the brand new AI Upscale.

This works best on images that aren't completely black and white, so use it before putting it through the Ink Saver or Picture Stencil Maker.

When you're at the Customize & Resize step and enter a size much larger than your loaded image, the AI Upscale button will appear.

You can also access the AI Upscale through the Customize tab.

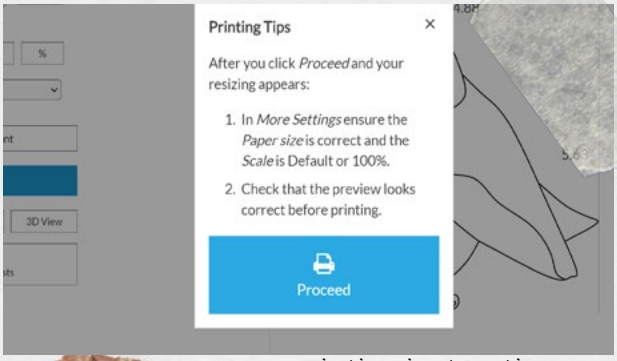




AI Upscale on mobile: before and after

PRINTING

When you click on the Print button in the resizing step, it reveals device-specific instructions for ensuring the resizing is printed correctly. When you click Proceed, the printable resizing is loaded and you can actually send it to your printer.



Printing instructions screenshot

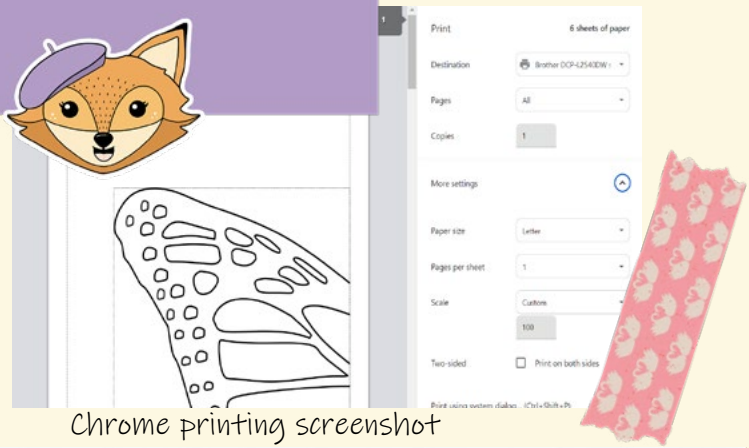
Resizing produces a PDF file. Typically the PDF loads in your web browser and you print as usual from there. Depending on your device's settings, it might be saved to the device's Downloads folder or loaded into a PDF viewer from which you can print.

The PDF format is used because it can hold documents with multiple pages and an accurate real world size (assuming it's not scaled or otherwise altered when printed).

It will automatically skip printing blank pages in in the PDF.

PRINTING

Make sure to thoroughly review the final print preview before printing so you don't waste ink and paper. Check that the pages are laid out correctly and that the overall size looks correct.

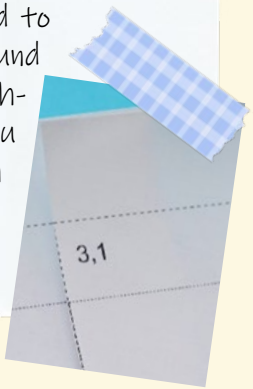


Chrome printing screenshot

The above is a screenshot from printing in the Chrome web browser but the details may vary with new versions and different web browsers and devices.

Assembling Your Printout

If your resizing is larger than a page, you'll need to assemble your printout. Cut off the margin around each page. Once printed, tape or stick them together. The pages are numbered by "column, row" so you can easily lay them out. The printable area of each page is, by default, outlined.

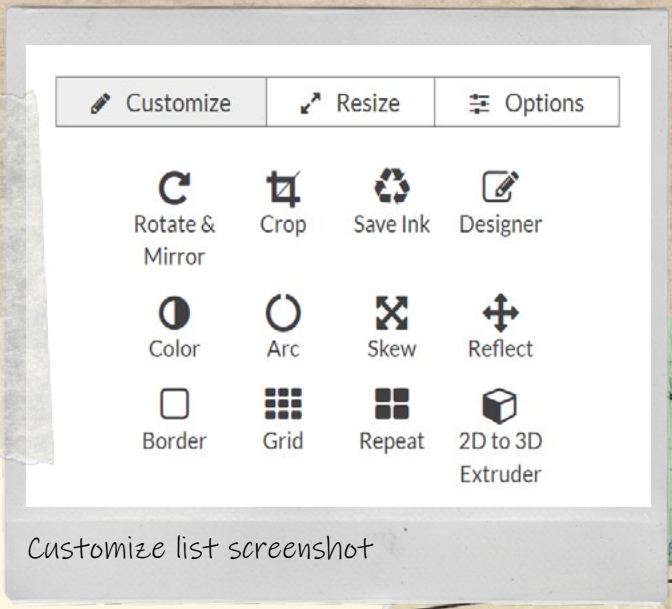


CUSTOMIZING DESIGNS

While you can immediately resize and print a design after loading it into Rapid Resizer, you'll typically want to customize the design a bit further. Either to ensure an accurate, clear resizing or to alter the design itself.

From the resizing step, click the Customize button to reveal the changes you can apply.

When you're done with one tool, you can cancel it or apply the change. You'll return to the resizing step where you can apply other changes or proceed to print or export your design.



Customize list screenshot

Irreversible Changes

Depending on the design, some tools make changes that limit what you can do with the design later.

* Save Ink, Color and Arc will rasterize a vector design. If you drew a pattern in the Designer and then applied any of those tools, you won't be able to alter its lines further in the Designer.

* Applying any tool to a colored design will lose the coloring information, so you won't be able to change its coloring or get the materials list.

* Applying any tool to a design from the Letter Stencil Maker will prevent editing the text later.

To work around these, remember to save a backup of the design before editing!



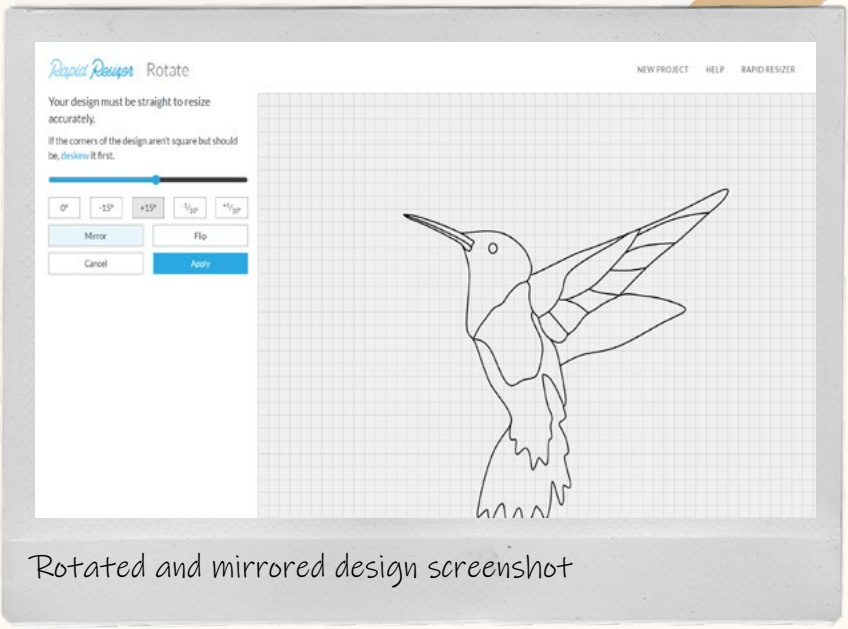
Arc screenshot

Rotate and Mirror

In addition to turning your designs, this tool can mirror them horizontally or flip them vertically.

You can use the sliding control to set the approximate angle, then use the buttons to fine-tune the rotation.

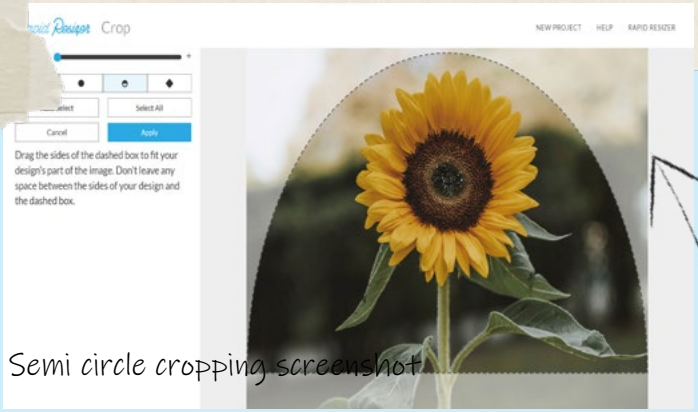
You can also rotate by dragging the sides of your design.



Rotated and mirrored design screenshot

Crop

The crop tool removes unneeded parts of the image, while also saving on ink and paper! Cropping is important to ensure an accurate resizing. This ensures no white space will be accidentally resized with the design. You can also rotate by dragging the sides of your design.



Semi circle cropping screenshot

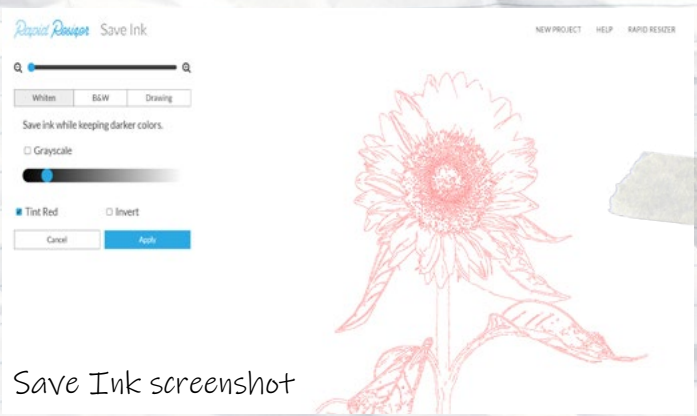


Rapid Resizer tries to guess where to crop to. If it's not correct you can click and drag the sides of the dashed box.

In addition to cropping to a rectangle, you can crop to a shape like this semicircle. If you need to crop an irregular shape, you can use the Designer to erase parts of the image. In that case, you could still first crop partly here to spare you some erasing work.

Save Ink

Save Ink has options to reduce the ink needed to print your design. It's similar to the Picture Stencil Maker though it has a few different options.



Save Ink screenshot

Whiten

This makes the lighter areas white, while leaving the rest untouched. This is helpful with scanned pages. You can get the background of the image perfectly white. There's also an option to make your design gray instead of color.

Black & White

This is the same as the Threshold and Adaptive Threshold options in the Picture Stencil Maker.

Drawing

This turns your image into a rough line drawing. Experiment with the options to find which gets the best result with a particular image.

Tint Red

This option is mainly for woodworkers.

Arc

Bend any design into an arc or circle using the Arc tool. To arch into a complete circle, set the curve to 360 degrees. You can also separately adjust the inner curvature of the bottom of your design.

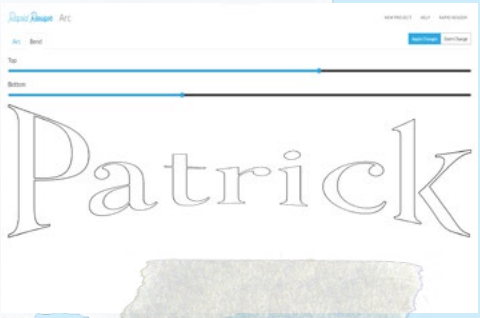


Arched design screenshot

Bend

The Arc tool has an alternative Bend mode that squeezes or stretches your design vertically.

Bend screenshot

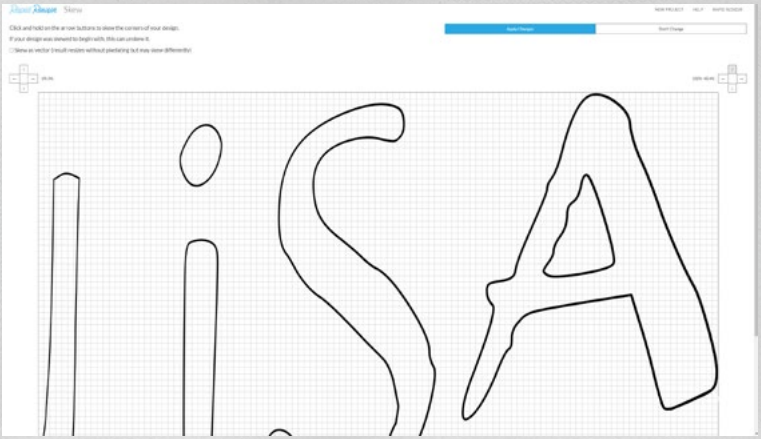


Skew

If your design is skewed, (e.g., from being photographed tilted) you can fix it using the Skew tool. You can also skew a straight design into a different shape.

The buttons in each corner move that corner of the design. Click and hold on a button to skew more than a small amount.

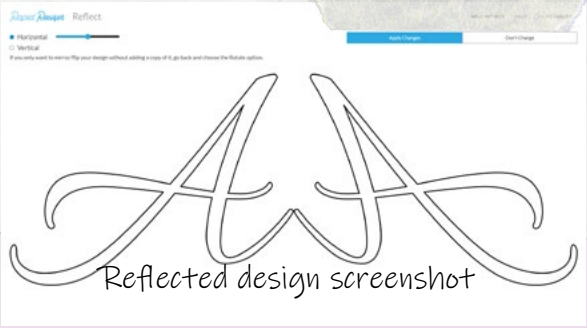
If your design is a vector, you have the option to skew as a vector instead of rasterizing it. This gives slightly different results but is handy if you need the result to still be a vector.



Skewed design screenshot

Reflect

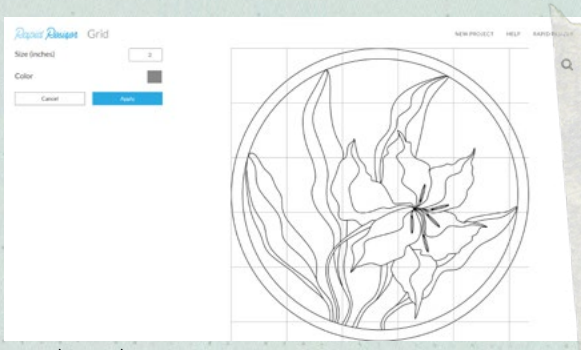
Use the Reflect tool to mirror a 1/2 or 1/4 design. You can reflect horizontally, vertically or both. The spacing between reflections is adjustable.



Reflected design screenshot

Grid

This tool adds an adjustable grid onto your design. You can customize the size and color to match your project. Remember to resize before adding a grid otherwise the grid will be resized along with the design.



Grid on design screenshot

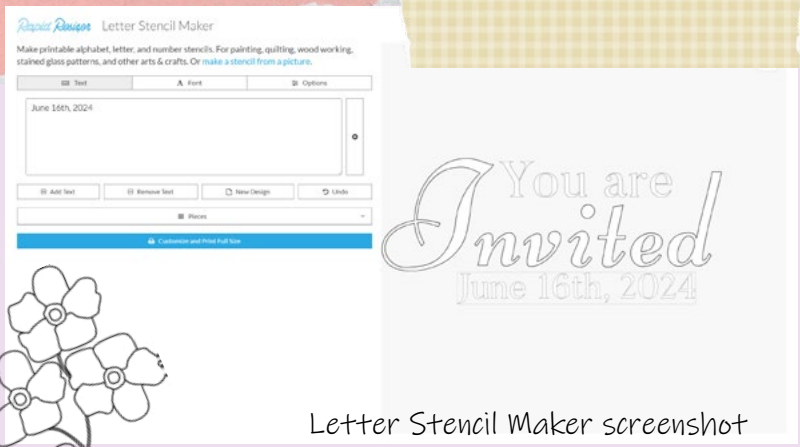
SIMPLE DESIGN TOOLS

Rapid Resizer offers two different tools for easily generating your own designs.

Letter Stencil Maker

With the Letter Stencil Maker, you can create text designs for art templates. It defaults to black outlined text, but in the Options you can change the line and fill colors. Start a new design by clicking the New Design button to clear it.

Letter Stencil Maker



Letter Stencil Maker screenshot



Fonts

Hundreds of fonts are built-in. You can search by type or name.

The license of a font is shown under your design. Most fonts are OFL licensed (Open Font License) so you can use them in projects you sell.



Pieces

You can use the Add Text button to add blocks of text (Pieces) that can be positioned and styled separately. The new piece will be a duplicate of the current piece. Use the Remove Text button to delete the current piece.

You can position them relative to each other by left-clicking and dragging them around. Scale a piece by left clicking and dragging on it's corners/edges.

You can bring a piece in front or behind another by moving it higher in the Pieces tab.



Letter Overlap



This controls the horizontal space between letters.

Outline Width



This controls the line thickness of your letters.

Line Spacing



This controls the vertical space between lines of text.

Text Orientation



Sets the letters in line to the left, centered or right.

Text Color



This controls the color of the letter outline and fill.



Shadowed Text

1. Select the piece of text you want to add a shadow to.
2. Click the Add Text button to duplicate it.
3. In Options set the line and fill colors to the shadow color you want.
4. Drag the shadow piece into place.
5. In the Pieces tab, move the shadow piece in behind by moving it lower in the list.



LETTER STENCIL MAKER

Shapes & Symbols

The symbol font set includes more than a thousand simple patterns. Some of the regular fonts also have useful shapes and you can see them by clicking "Add a Symbol" from the selected font at the bottom of the font list.

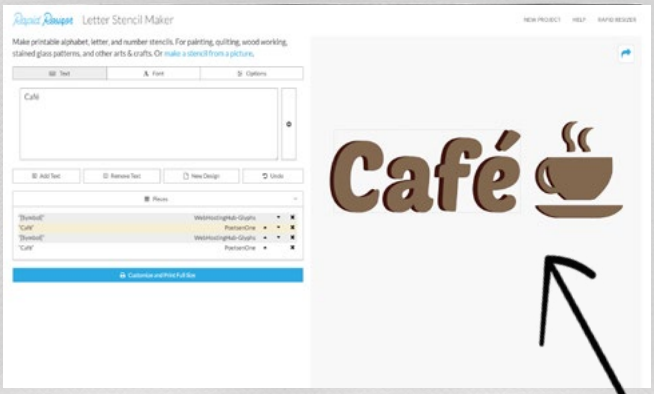


Symbols selector screenshot



If you want your letters vertically stacked, just hit the return or enter key between each letter!





Symbols and non-English letters screenshots

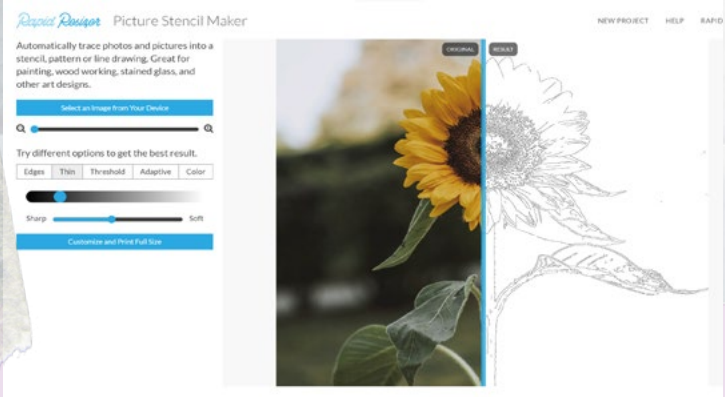
Entering Non-English Letters, Math Symbols & Other Non-Keyboard Characters

Some of the fonts (e.g. Open Sans) have Greek letters and you can access them by clicking the + button beside the text box. You can also scroll through all the available symbols through the Symbols button in the Font tab.

You can copy & paste foreign letters from a website into the Letter Stencil Maker. On Mac and iOS, you can enter foreign letters by pressing and holding on a letter. On Windows, you can use the built-in Character Map program. You can also switch your keyboard to a foreign language. These assume that the font has letters in that language. The Tinos font covers many alphabets.

Picture Stencil Maker

This automatically converts a photo into a black & white design. You can use the result as-is or erase parts and add lines using the Designer.

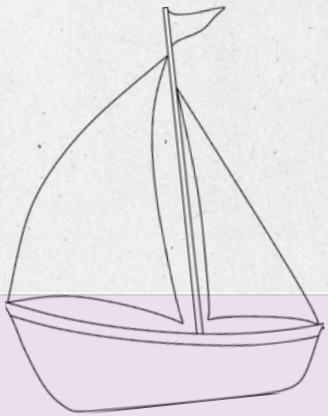


Picture Stencil Maker example screenshot

Begin by clicking the "Select an Image from your Device" button to choose an image.

You have five different modes. Which is best depends on the image and the kind of pattern you're trying to make.

Picture Stencil Maker



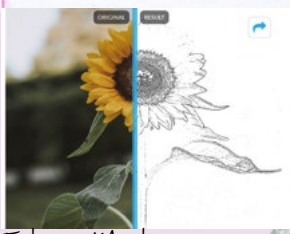
Edges
Makes the higher contrast areas black and everything else white.

Thin
This will give you thin lines, perfect for stencils.

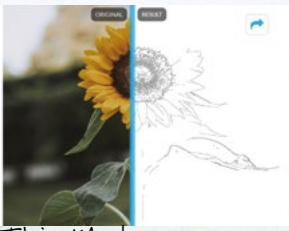
Threshold
This makes the light areas of your image white and the dark areas black.

Adaptive
Similar to Threshold, but uses a rolling average for the threshold, making it more effective for images with a gradient or shaded areas.

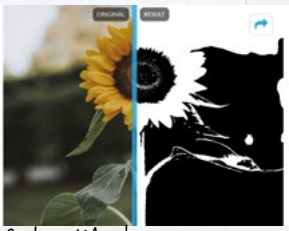
Color
Areas of the chosen color become black, and everything else white.



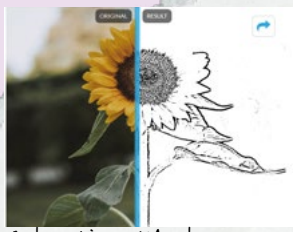
Edges Mode



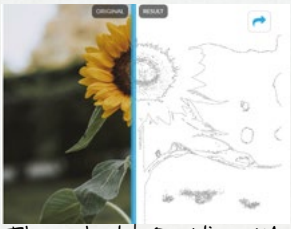
Thin Mode



Color Mode



Adaptive Mode



Threshold Outline Mode

PICTURE STENCIL MAKER



Dark-White Range

This controls the bright threshold for how much of the image is converted to black vs. white. If the result is all white, slide the range closer to the dark end.



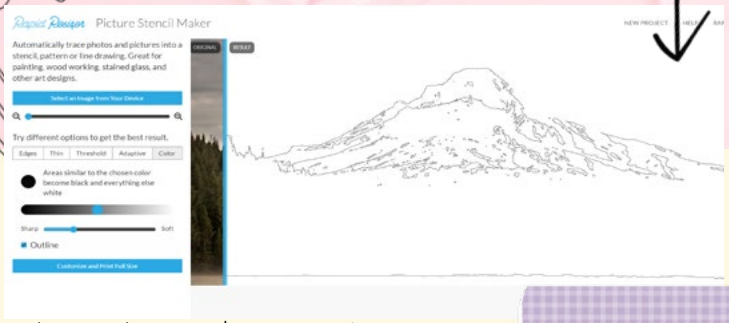
Sharp-Soft Range

This blurs the image before it's converted. Helpful when there are small specks in the original image that you don't want to appear in the final result.



Outline

This option appears in the Threshold, Adaptive and Color modes. It outlines the black areas of the thresholded image.

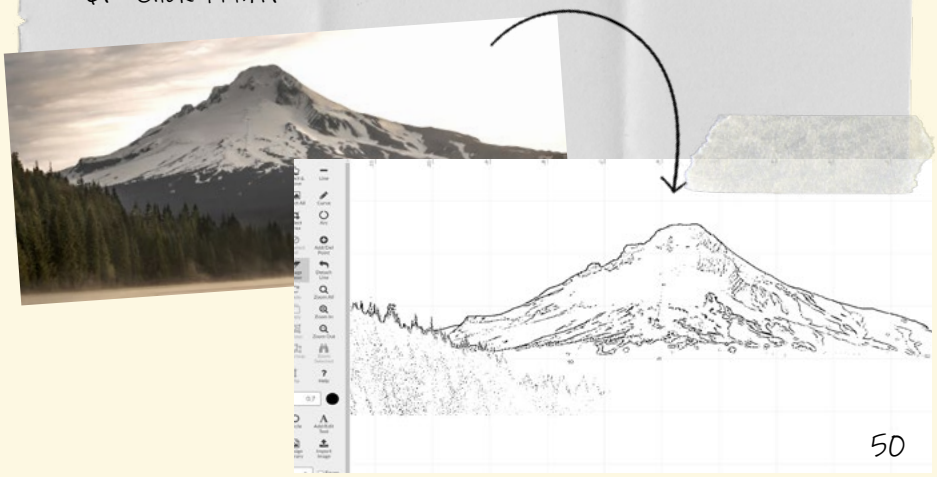


Color outline mode screenshot

TURNING A PHOTO INTO A PATTERN

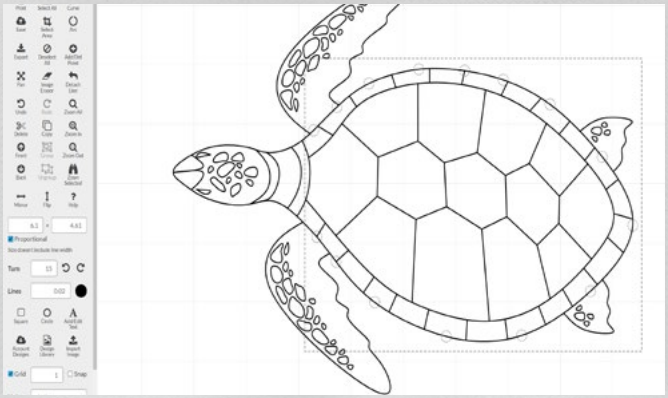
You can use our Picture Stencil Maker as a quick starting point. After that, you can customize your design further with the other tools, especially the Designer where you can erase and add lines or you can use the Designer to trace over the image and then remove the original image. Once you're in the Designer:

1. If your starting image isn't already loaded, use the Import Image or Account Designs buttons (near the bottom left) to load it.
2. Use the width & height fields to resize the image.
3. Use the Image Eraser if needed.
4. Use the drawing tools (line, curve square, etc.) to draw over the image.
5. When done drawing, if you don't need the original image, select it and then click the Delete button or the backspace key.
6. Click Print.



DESIGNER

This is Rapid Resizer's vector drawing feature where you can completely customize designs, or draw them from scratch! It's the most elaborate feature of Rapid Resizer.



Designer screenshot



Layout

Controls

All the controls are in the vertical panel on the left.

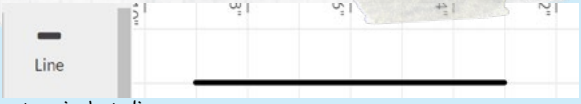
If you're using the Designer on a device with a keyboard, see Appendix C.

Drawing Area

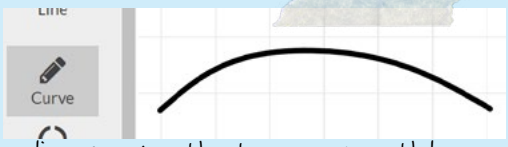
You have an unlimited drawing area that you can pan and zoom around in. It doesn't matter where along the rulers you place your design.

Drawing

Designs are composed of:



straight lines



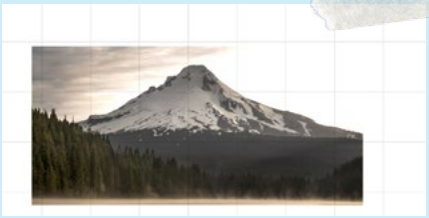
spline curves that pass smoothly through a series of control points



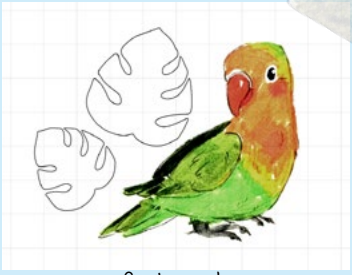
circles and squares



circular arcs



raster images



groups of the above

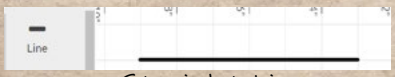
Tools



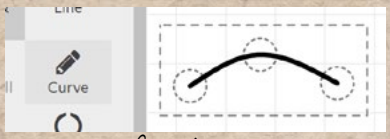
Select & Move



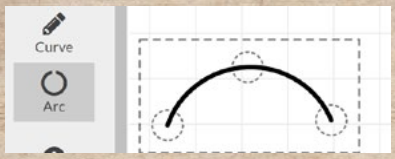
Select Area



Straight Lines



Curve



Arc



Add/Delete Points



Detach Lines



Image Eraser



Pan (mainly mobile devices)

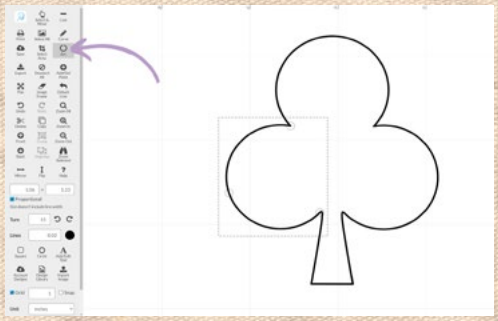
Connecting Lines

To help with designing patterns where the pieces have to fit together, the lines and curves form a web where the points along lines and curves snap together. Then if you move a point shared by multiple lines and curves, they all move with the point.

This is helpful for mediums where the pieces of the design fit together.

Drawing Lines

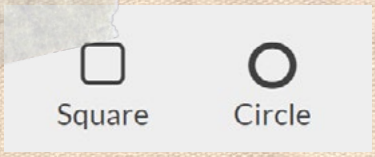
When using the line or arc tools, you can draw by left- clicking and dragging. For the curve tool, you can end a line by right-clicking.



Arc tool screenshot

Shapes

New ellipses, rectangles, images and embedded designs are placed in the center of the view and scaled to fit the current zoom. You can size them by selecting and then dragging the edges or using the width and height fields.

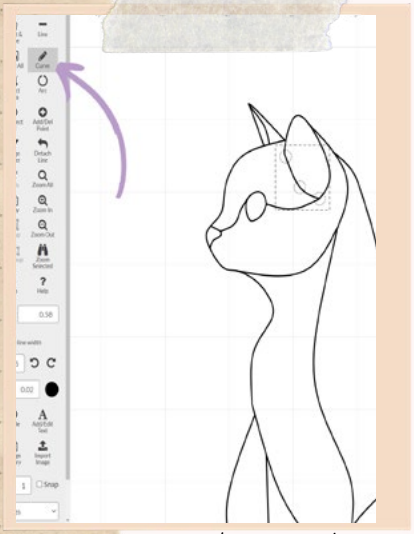


Curves

When drawing curves, instead of dragging you can click for each control point and then double-click or right-click to end the curve.

The curve tool will use enough points to draw a smooth curve through the path you dragged.

If you need more points in the curve to more precisely control its shape, or if it has too many points and you want it smoother, you can use the Add/Delete Point tool.

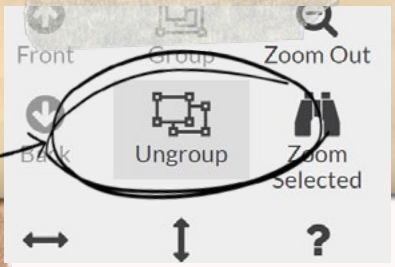


Curve tool screenshot

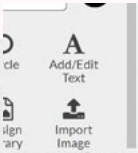
Importing Images

You can add an image from your device, the Design Library or a design from your account.

If it was a vector design (typically from the Designer or Design Library) it will be in a group so you can easily move it as a whole. If you need to alter the parts, Ungroup it.



Text

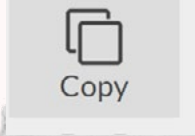




You can also insert text. Select a piece of text and Ungroup it a couple of times to get access to its lines and curves to customize the lettering in the Designer. To arch the text, though this will rasterize the text so you won't be able to change the lines later, except by erasing and redrawing them as a raster image.

Change a piece of text by selecting it and clicking on the Add Text button.

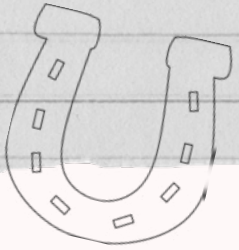
If you're making a text stencil but you're not using a stencil font, the inner parts of the letters (e.g, the circle in an "O") will fall out when cut, You can use the Designer to add bridges so the inner shape is connected to the outside.





Copy

This copies every element in the selection and places them in the center of the screen. The copy is the new selection so you easily drag it into place. You can also press the "c" key on your keyboard!



ALTERING DESIGNER ELEMENTS

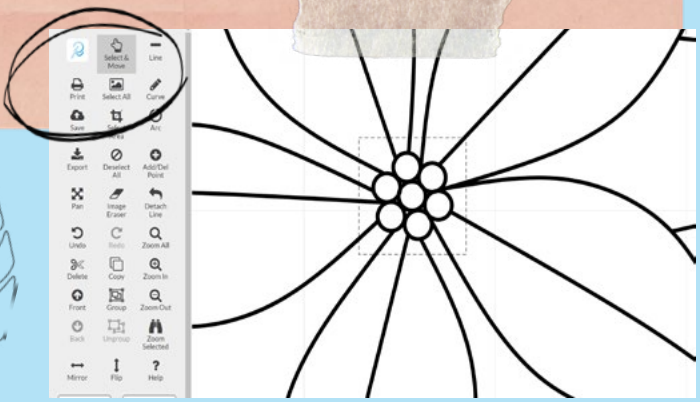
Selecting

Use the select tools to highlight the elements in your design that you want to change.

The dashed box outlines the whole selection. You can click and drag on it to scale the selected elements as a whole. Dragging on the corners will scale proportionally. Dragging on the sides lets you stretch and squeeze it. Click inside the dashed box to move the selected elements.

The small dashed circles indicate points in the selection. They only appear when a single line, curve or arc is selected.

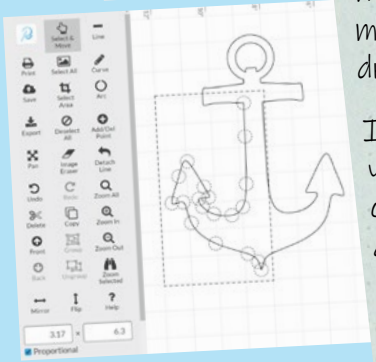
You can deselect everything by clicking the Deselect All button or by clicking in an empty area with the Select and Move tool.



Select & Move tool screenshot



Moving Elements and Points



When using the Select & Move tool, you can move elements and points by clicking and dragging.

If you click and drag directly on an element you can move in one step. With lines, that only works on the endpoints. To move points along a curve or an arc, you have to first select, typically by clicking along its length (not the end points) with the Select tool.

Erasing Images

When using the Image Eraser tool, you can click and drag to make parts of the image transparent. This only works on raster images, not geometry you've drawn in the Designer or imported. The Image Eraser uses the same line width settings as drawing, so you may want to increase the width back so you can erase more quickly. Just remember to set the width if you'll be drawing more.

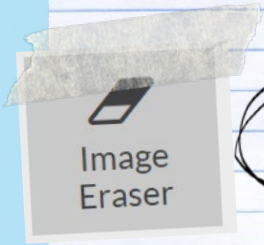
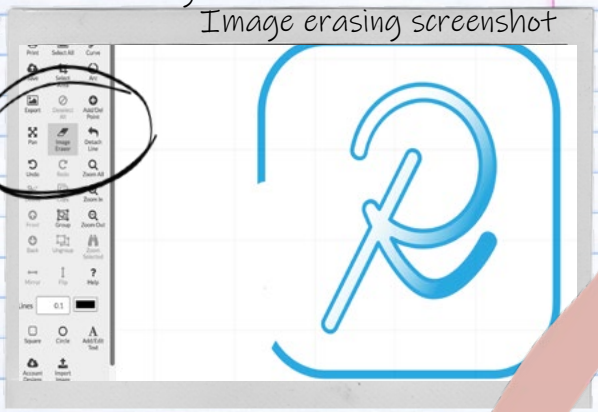
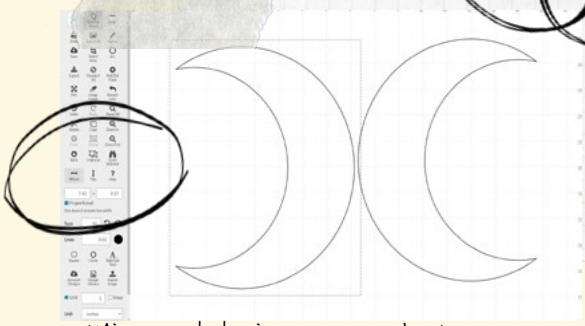


Image erasing screenshot



Mirror & Flip

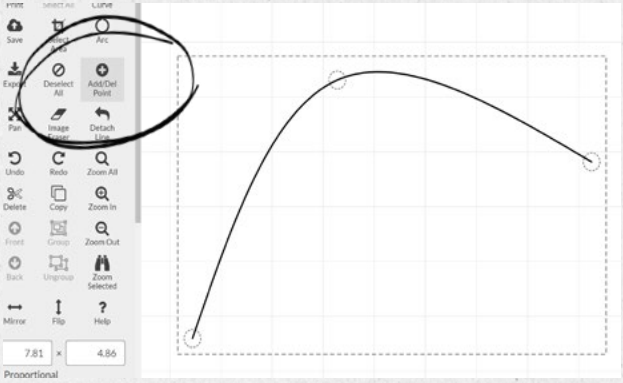
These buttons horizontally and vertically reverse the selection.



Mirrored design screenshot

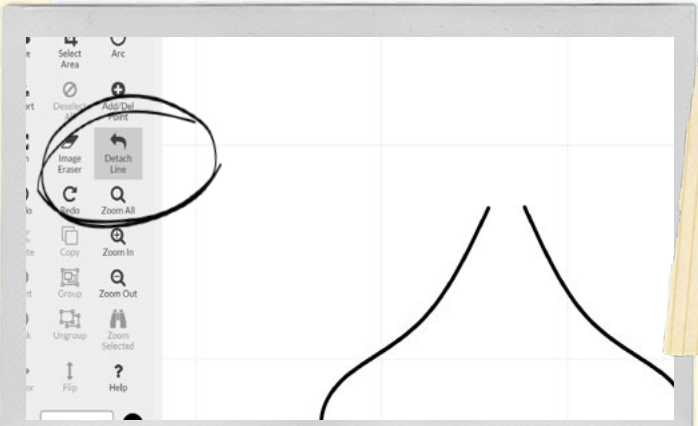
Add/Delete Point

This tool lets you add and remove points from curves. If you need more control over a curve's shape, click on the part of the curve where there isn't already a point. If you want to smoothen a curve, click on existing points to delete them.

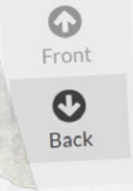


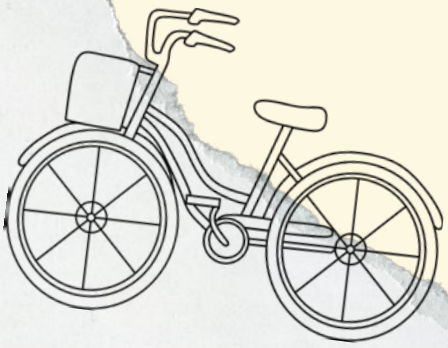
Detach Lines

Because points in lines and curves can be snapped together, the detach tool is needed when you want to separate them. Click on a line or curve near one of its snapped points and drag it away.



Detached lines screenshot





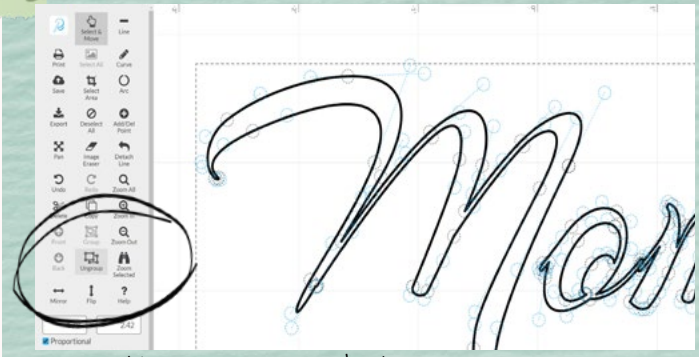
Front & Back

These send the selection to the top or bottom of a stack of elements like layers. This is great when adding or removing raster images, to add them in front or behind other elements.

Group & Ungroup

This combines the selection into a single element. Put elements into a group if you want to easily manipulate them as a whole.

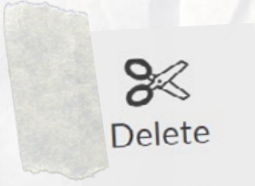
Text (if unarched) and imported vector designs are automatically put in groups. Click Ungroup if you need to alter the elements inside.



Ungroup screenshot

Delete

This removes all the selected elements, you can also press the back space key.

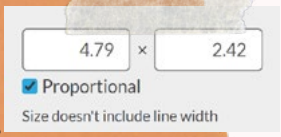


To start a new design, click Select All and then click Delete or the backspace key!



Width × Height

This lets you precisely set the width or height of the selection. It doesn't include the width of any lines or curves at the sides of your selection.



Line Width

Line width controls the thickness of your linework. This doesn't apply to lines in raster images embedded in your design.

Rotate

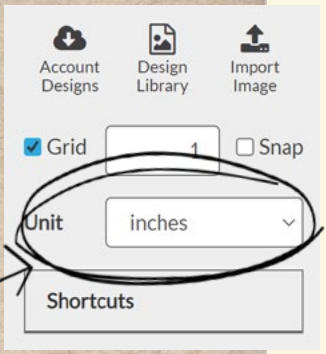
Click either button to rotate your selection by the given number of degrees. This only works on images and groups.



Rotating elements screenshot

Unit

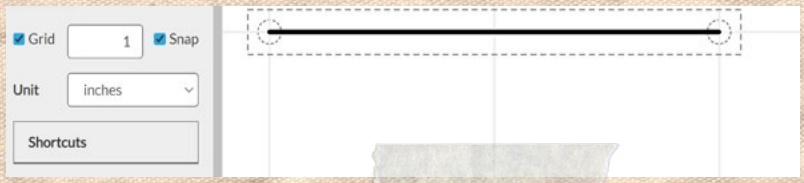
There's a unit selector near the lower-left. The rulers, width and height fields will be in the chosen unit.



Grid & Snap

You can also size and enable a grid that's overlaid on your design to aid alignment. It won't appear in your printout.

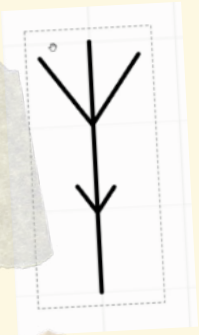
Enabling snap forces points to be on the grid corners when moved. This is helpful for ensuring straight lines and right angles

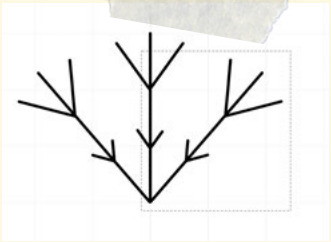


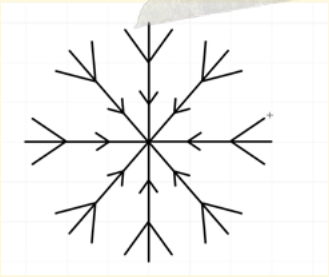
Aligning Design Elements

To create perfectly horizontal or straight lines, use the line tool with snap enabled so that the line is perfectly straight before you resize.

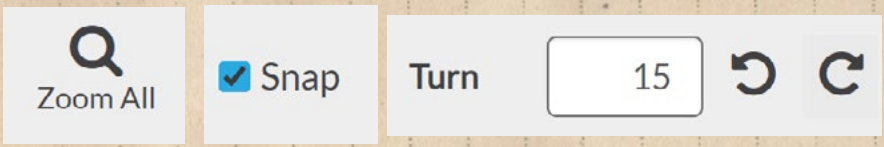
Use the mirror, rotate and copy buttons to create a symmetrical design like this snowflake. Creating a small piece with the line tool then duplicating by pressing Copy or the "C" key and flipping it any number of degrees with Turn.







Take a moment to use the zoom tools to get close to your design and make sure all the lines are properly connected. You can use the I, J, K and L key shortcuts to make small adjustments if any lines need to be moved into place.

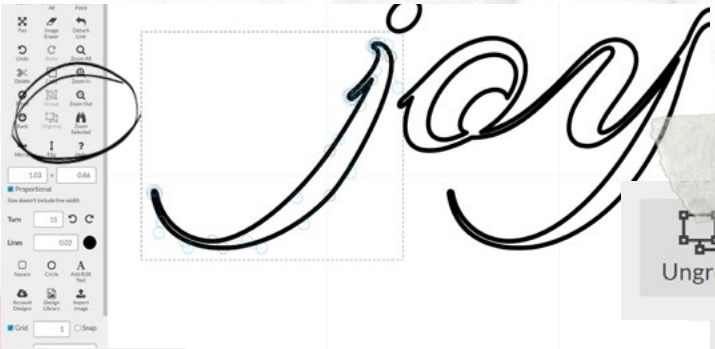


How to Customize Letters

In this example, let's create a name place card together!

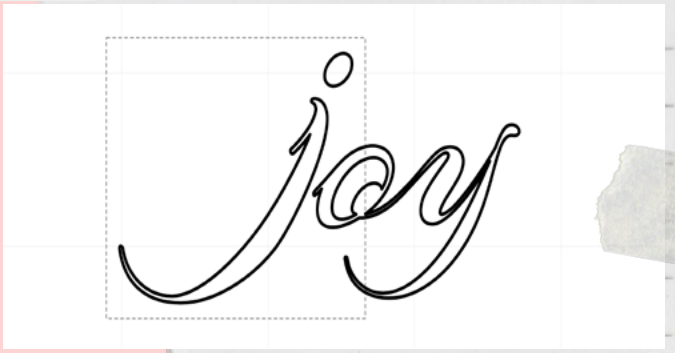
Import text made in the Letter Stencil Maker directly from the Customize & Resize step. You can find the Designer in the Customize tab.

Before editing any text, you need to Ungroup it. Ungrouping separates the letters from each other, allowing us to freely modify the shape and size of each letter.





Using the Select & Move tool , you can select text pieces and resize them to create some visual interest. To resize, you just need to drag the corner of a piece in or out.





To smooth the lettering, we can use the Add/Del Point tool to add or remove points. Make subtler adjustments with the Select and Move tool, finely shifting the remaining points.

To add some flourishes to your design, use the Curve tool. You can freehand some curves onto the letters, then use the Add/Del Point and Select & Move tools to refine the curves.



Once the design is complete, you can print out your card to wow guests at any dinner party!

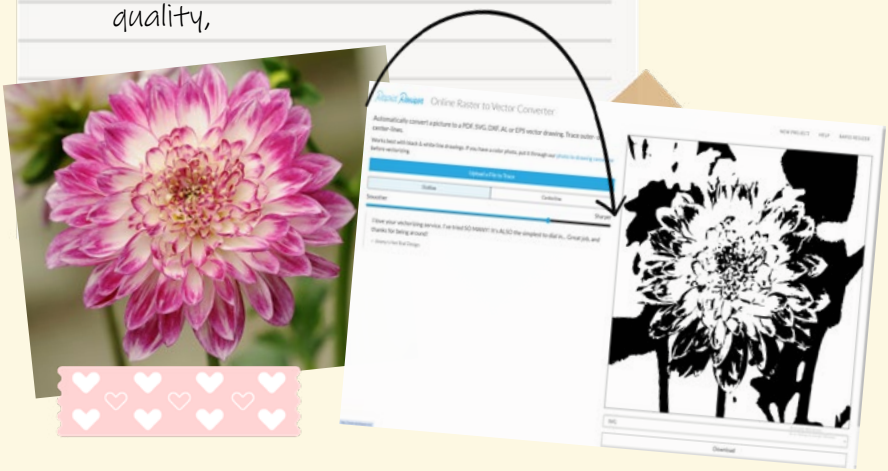


VECTORIZER



The Vectorizer traces the lines in a raster design into a vector image.

Vectorized images can be resized to any scale without loss in image quality,



The Vectorizer works on black & white images. If your image is in color, it will convert it, but you'll get better results by manually converting it using the Picture Stencil Maker first.





Tracing Mode

You can trace the outlines (the sides of the lines) or along the centers of the lines.



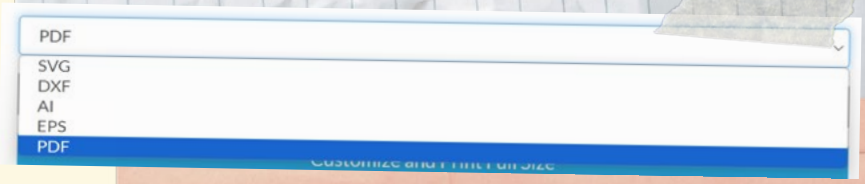
Smoother-Sharper Range

This controls the angle threshold for starting a new line in the tracing.



Output Format

You can download your design in a variety of vector formats: PDF, SVG, AI, EPS and DXF. You can also load it into the resizer to print or customize it further.

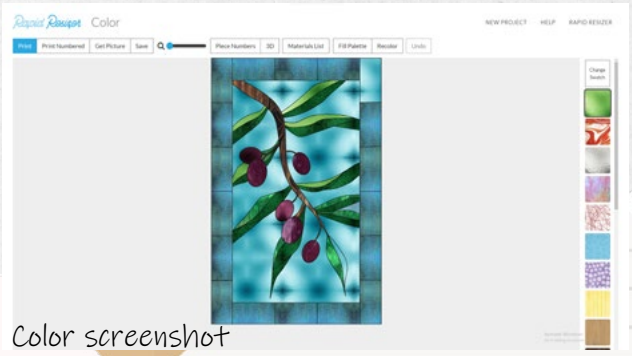


PREVIEW

Rapid Resizer has a of couple tools to help you and your clients see how a design will look when it's finished. You can color in the pieces of your design with solid colors and images of real materials. You can then visualize your design in 3D.

Swatch Coloring

The Coloring tool lets you fill in the pieces of your patterns with any hundreds of photographs of real material swatches: stained glass, wood and fabric.



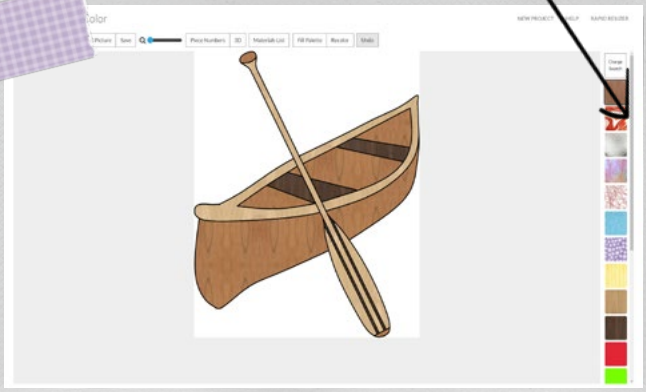
Color screenshot

To color reliably, your drawing should be a black & white line drawing with completely closed shapes. Otherwise, the coloring won't stay inside the intended pieces. You can make your design black & white using the Picture Stencil Maker or the Save Ink tool. You can close gaps by adding lines in the Designer.

Palette

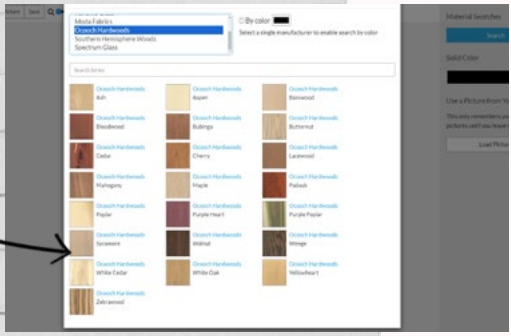
This is the column of material swatches and colors. The selected one will be used when you click inside a piece to color it. You can double-click on a swatch in the palette to change it.

You can scroll vertically through the palette as it fills up.



Swatch color screenshot

You can easily search by material manufacturer, hue or swatch name. Check what material a piece is filled with by hovering your mouse over it or by looking up its piece number in the materials list.

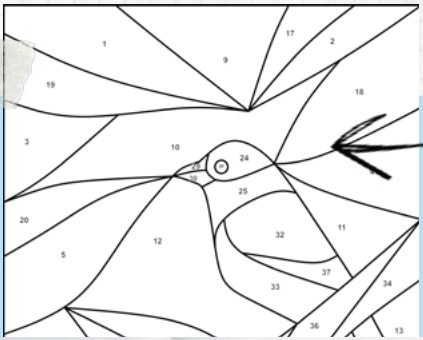


Numbering

Your design is automatically numbered as you color. Pieces with the same material will be in the same range.

The numbering is positioned where you clicked in the piece to fill it. If you want to move the number, click on it again with the same material.

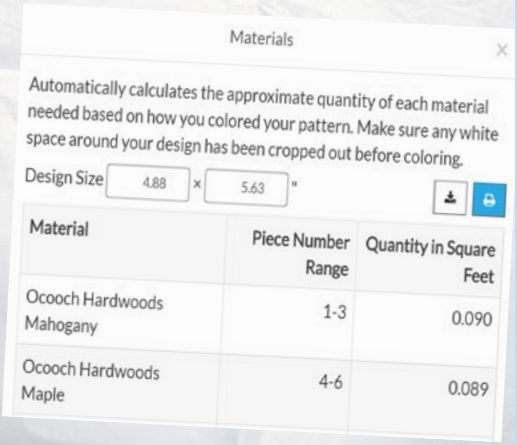
You can toggle whether numbers are shown using the Piece Numbers button. This also affects whether the numbers will appear when printed or exported.



Piece numbering screenshot

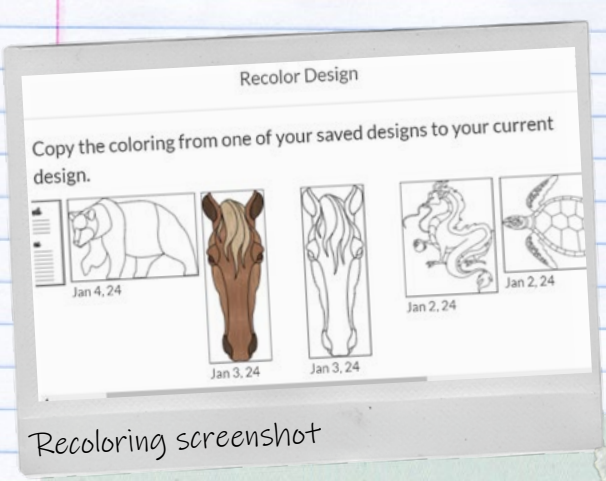
Materials Estimator

Based on the swatches you colored your pattern with, a materials list is automatically generated. It errs on the high side, adding up the rectangular area of each piece.



Recoloring

This colors your current design using the coloring from a design saved in your account. This is mainly for when you have to change the original uncolored version of a design.



Recoloring screenshot

Fill Palette

Fill Palette

Fills the palette with the swatches from the current design. For when you've loaded an already colored design and want to get its swatches into the palette.

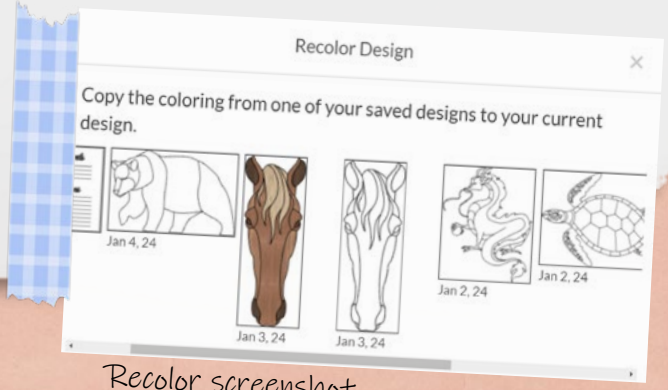
Get Picture

Get Picture

This button lets you easily export an image file of your colored design so you can share it.

PREVIEW

If you alter your design with other tools after coloring, you won't be able to easily recolor it. If you have to alter the original, you can use the Recolor button to color the new version with the same pattern of coloring as the old version.



Recolor screenshot

It's recommended to save a copy of your design before coloring it, since coloring rasterizes it making it hard to alter or resize the original line drawing.



CNC MACHINES

Rapid Resizer can export design files for use with computer controlled tools such as cutters, engravers and 3D printers.

Cutting and Engraving Machines

Rapid Resizer can output SVG and PNG files that machines like the Cricut™ can read, from the resizing step, click the Download button.

3D Design and Printing

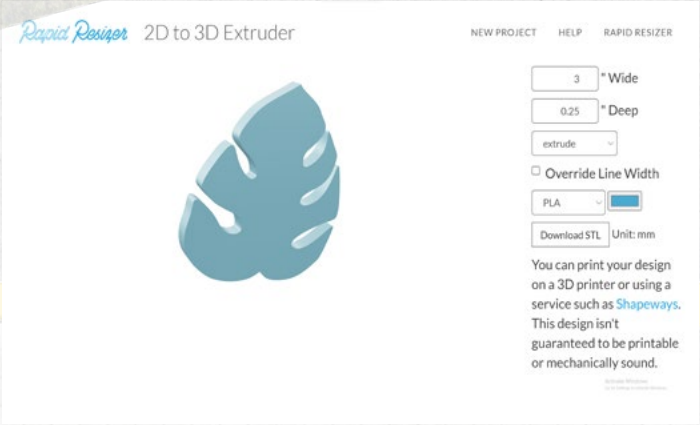
3D Printing is great for producing art such as jewelery and small sculptures. You can also use it to produce art tools like stencils and stamps.



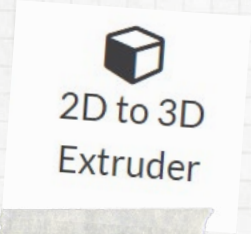
Various 3D prints

Convert 2D Designs to 3D

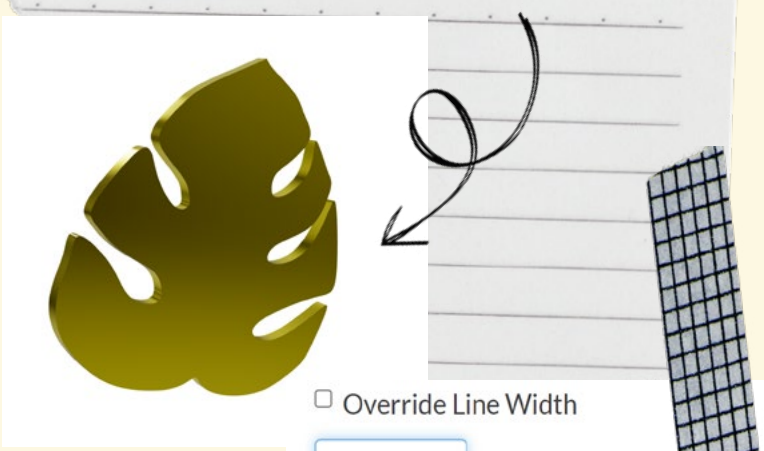
Rapid Resizer can extrude 2D Vector designs (usually from the Letter Stencil Maker or Designer) into 3D. Once your 2D design is complete, choose the Customize tab then 2D to 3D Extruder.



It extends your design into 3D by the given depths. You can have the option to intersect it with shapes such as spheres or cylinders. The padding option controls how tightly the design is intersected. The sphere setting gave the pendant a pleasant rounded shape instead of the default square extrusion.



You can preview your design in different materials.



Just because a 3D file can be generated doesn't mean it will be printable by a particular kind of 3D printer or that it will be mechanically sound. Avoid disconnected parts and thin connections.

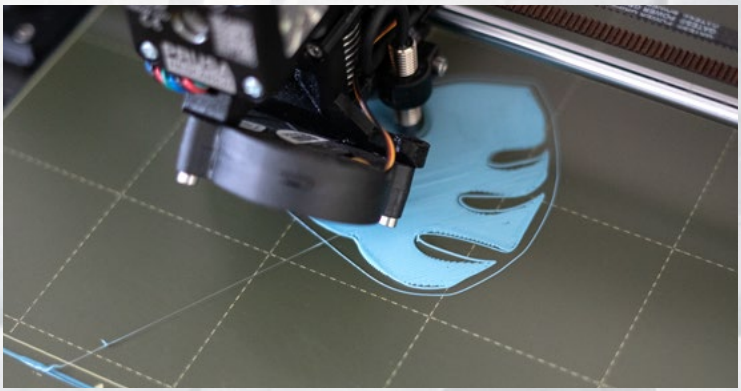


Getting it Made

This exports a standard STL file which is the most common format for 3D printing.

If you have access to a 3D printer, you can print your STL file in plastic. It's a good idea to prototype and test locally before ordering an expensive print from a service bureau.

If you don't have a printer or want your design in another material, you can upload your design to services like Shapeways. They can produce your design in a variety of metals, plastics and other materials.



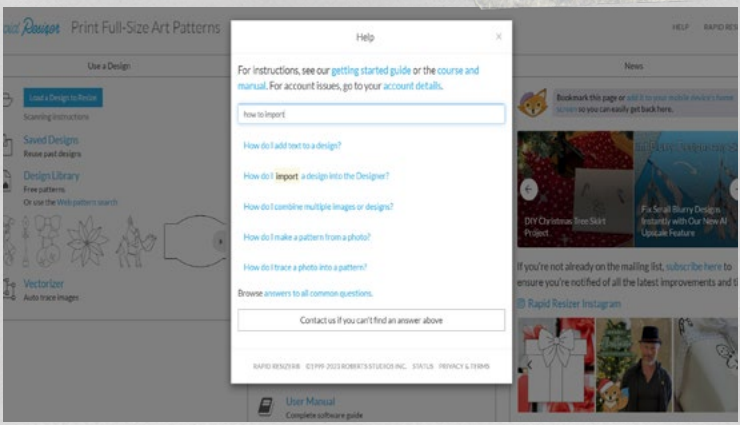
3D printing



Silver pendant made in a 3D printed mold

GETTING HELP

You can search the FAQ and email questions at https://rapidresizer.com/help.



Help system screenshot

Help

If you're having an issue with the app, contact support from the step where the problem occurs. The Help button is usually located near the upper right of any page. That makes it much easier to solve the issue because the system automatically includes information about your computer, your settings and (optionally) your design.

The in-app help system may have a tutorial video for the feature you're using at the time. It also allows you to search the FAQ without leaving your work.

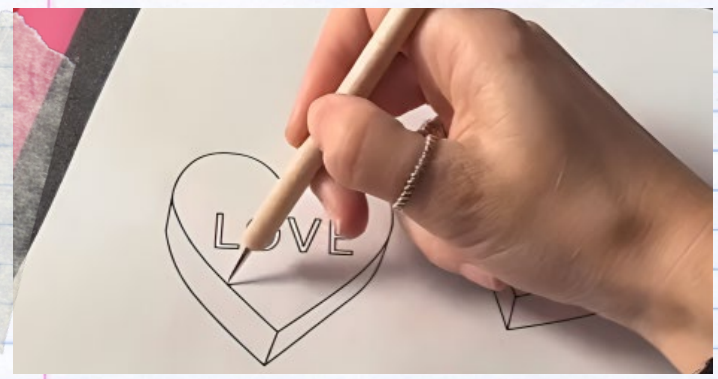


APPENDIX A: DESIGN TRANSFER METHODS

After you print your full-size pattern with Rapid Resizer you can use this list of techniques to transfer the design onto your material. These transfer techniques work with painting, drawing, stained glass, quilting, woodworking, sign making, wood burning and other mediums.

Carbon or Graphite Transfer Paper

Tape down the carbon paper between your design and the medium you are transferring your image to with the black side facing down. Then trace the lines of your design with a pen, stylus or pencil. This works on wood, fabric, paper, canvas, clay and more

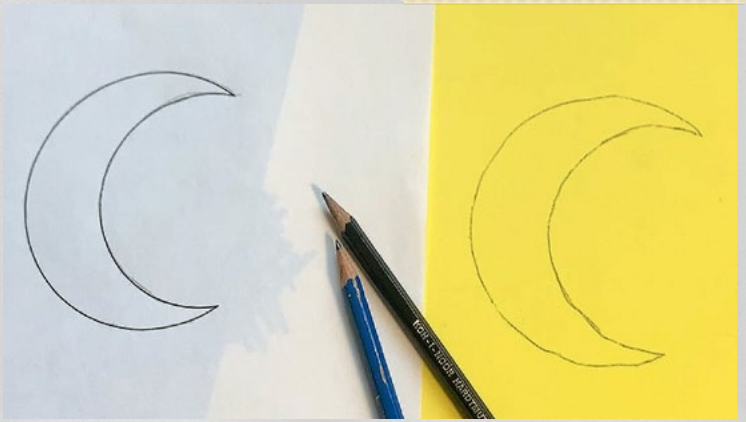


Graphite paper transfer

Graphite Pencil/Chalk Transfer

To start, flip your printed design over. Color the entire back of your design with a pencil or piece of chalk. Place your printout, graphite/chalk side down onto the paper or object you would like to transfer onto. Tape the printout down so that it doesn't shift during the transfer.

Sharpen your pencil and then trace the lines of your design. Once you're confident you've traced all the lines of your design, lift a corner to double-check. If the design is fully traced, you can remove the paper and tape. You can use this method to transfer onto all kinds of mediums, from paper to furniture and dried pottery!

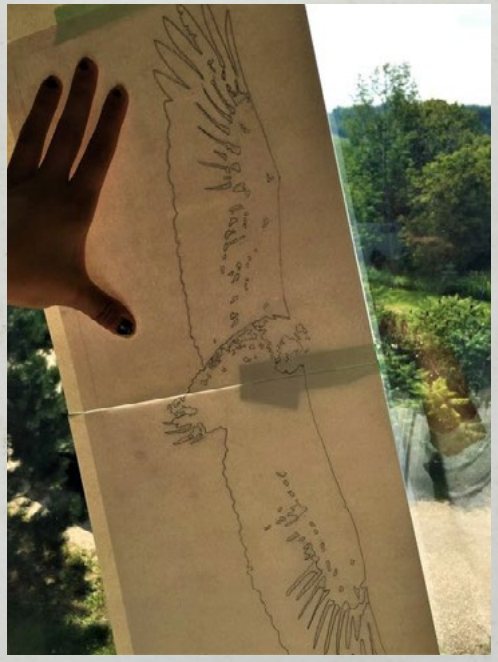


Graphite pencil transfer

Light Box Transfer

If your medium is transparent, you can place your design under it.

If you don't have a light box and your medium is light, you can tape them to your window. Use low tack tape (like painters tape) so the tape won't rip your art paper.



Window/lightbox transfer

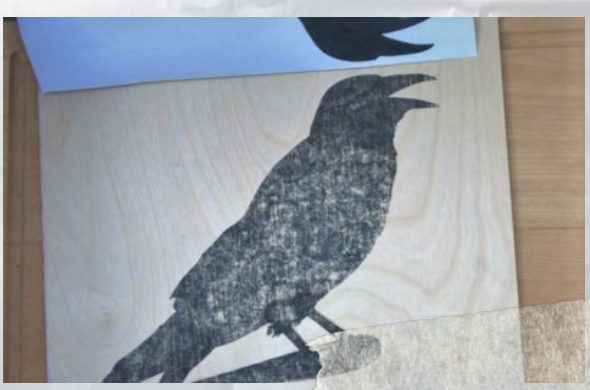
Laser Jet Iron onto Wood

Before beginning, make sure that your design is flipped horizontally as it will be backwards when transferred.

1. Print out the mirrored design with a Laser Jet printer (Inkjet printouts will not work). Ensure the wood is sanded smooth and tape the paper printout along the top.

2. Use a clothing iron on its hottest setting and rub the tip along the design. If you check the wood and have missed some spots, simply go over those parts again with the iron. (You can use a wood burning tool instead with the round flat attachment for a faster and more precise tool.)

3. Once the iron or tool heats up, test it on some scrap wood a few times to remove some of the heat so it won't burn the paper. Place the paper ink side down on the wood and tape it along the top edge. Be sure that any words have been printed backwards so that they transfer forwards onto the wood. Then rub the back of the paper printout in a quick circular motion with the heating tool until the image is transferred. If the tool stops transferring well it needs to heat up again, so let it rest a moment.



Iron transfer

Mod Podge Photo Transfer

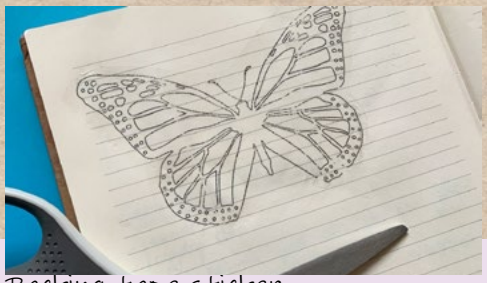
This technique requires using a laser jet printout or a photo-copy of a photo. Some people seem to have success with ink jet as well, so you could experiment with it. Cover the wood with Mod Podge and place the image ink side down on top then smooth out any air pockets or wrinkles. Let it dry for 24 hours and then use a wet paper towel or sponge to rub the paper away.



Mod Podge transfer

Packing Tape Stickers

Please note this technique only works with packing tape. Place the design flat onto your table, it will make the taping easier. Take the packing tape and a cut strip large enough the cover the length of the pattern. Stick the tape down onto the design. Repeat this process until the design is fully covered in the tape. Once covered with the tape, you can cut out around your design. Now take the design and soak it in the water for at least 30 seconds. Now you can remove the wet paper and see the design on the packing tape.



Packing tape sticker

Video tutorial

Acrylic Paint Transfer

Before beginning, make sure that your design is flipped horizontally as it will be backwards when transferred.

1. Paint your surface with acrylic paint. If you're painting onto wood like I am, do a couple of coats of the wet paint since the wood will soak up a lot of the moisture.

2. Put your design directly face down onto this wet paint. Wait until the paint is completely dry, try not to touch it during this drying process, as the wet paper is likely to shift. Next take a damp cloth and leave it on the design for a minute or two letting the paper soak up some water.

3. You have two removal options, I chose the first more distressed option, where I simply peeled away the paper as I was going for a more shabby chic look. If you want a cleaner peel rather than this more distressed look, softly rub away the paper with a damp cloth, rather than the peel. The gentler mode of removal will leave behind more of the print.



Acrylic paint transfer

APPENDIX A: DESIGN TRANSFER METHODS



Alcohol maker transfer

Alcohol Marker Transfer

There are many different brands of these markers, they'll all be called something like "colorless blender", but they're all similar alcohol markers. The colorless blender is made of an acetone-based solution, so just be sure you're working in a well-ventilated room when using it.

Begin by taping the design to your project so it doesn't move around while you work on it. Now take the marker and go over a section, then take a smooth scrapper (you can even use a popsicle stick) to rub over this damp section.

Repeat this process until the transfer is complete. You may need to go over sections a couple of times until the design has soaked up enough of the marker. Lift a corner to double-check the transfer is complete before completely removing the tape.

Mylar or Acetate Sheets

Print or trace your design onto paper and tape it to your work surface. Then place a pane of glass over it. Tape the plastic sheet to the glass (thick mylar works the best but even a plastic divider from a binder will work) then follow the lines of the design below the glass and cut it out with a utility knife.

You can also use an electric stencil cutter or wood burning tool as long as you have good ventilation as the melted plastic will give off fumes. These tools will cut the stencil much more quickly but less accurately than a knife will.

You can stencil designs on walls, floors, wood, canvas, paper, plastic, glass and fabric. You could even sprinkle icing sugar into a cake or cinnamon onto a late.



Acetate stencil

APPENDIX A: DESIGN TRANSFER METHODS



Paint and bristol board stencil

Cardboard or Bristol Board

Transfer your design using the graphite paper method then cut the design out of cardboard or bristol board with a utility knife.

APPENDIX B: COMPATIBILITY

Supported Browsers

	Chrome	Edge	Brave	Safari
Windows	✓	✓	✓	
Mac	✓		✓	✓
iPhone/iPad				✓
Android/Tablet	✓			

Accepted File Types

Type	Import	Export	Vector	Content
.png	✓	✓		image
.jpg, .jpeg	✓			image
.gif	✓			image
.bmp[1]	✓			image
.tif, .tiff [2]	✓			image
.svg	✓	✓	mixed[3]	image
.pdf	✓	✓	mixed[3][4]	document
.stl		✓	✓	3D model

(1) Windows only.

(2) Safari web browsers only.

(3) PDF and SVG files may not be entirely vectors because they support embedded raster images.

(4) Rapid Resizer rasterizes imported PDFs.

APPENDIX C: DESIGNER KEYBOARD SHORTCUTS & GESTURES

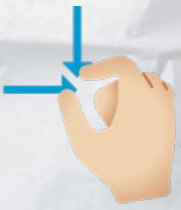
Key	Function
1	draw lines
2	draw curves
3	draw arcs
S	select & move
T	add or remove points
E	add or edit text
Backspace/Delete	image eraser
Arrows	delete
A	pan
Escape	select all
Space Bar	deselect all
=	zoom all
-	zoom in
Z	undo
X	redo
I,J,K,L	move selection
C	duplicate

Trackpad Gestures

Pan



Zoom



Mouse Gesture

Zoom



GLOSSARY

3D Printer
A kind of CNC machine that produces a 3D object. Typically by depositing thin layers of plastic.

AR
Augmented reality, where virtual objects are incorporated into a real world scene.

CNC
Computer Numerical Control. Computers controlled machining tools such as 3D printers, engravers, cutters, etc.

DPI
Dots (or pixels) Per Inch.

Lossless
A file format that doesn't sacrifice any quality when compressing to save space.

OFL
Open Format License.

Raster Image
An image defined by a grid of colored pixels.

Rasterize
Convert a vector image to a raster image.

Resolution
How detailed a raster image is, typically in pixels.

Spline
A curve that smoothly passes through a series of control points.

Vector Image
An image defined by geometry.

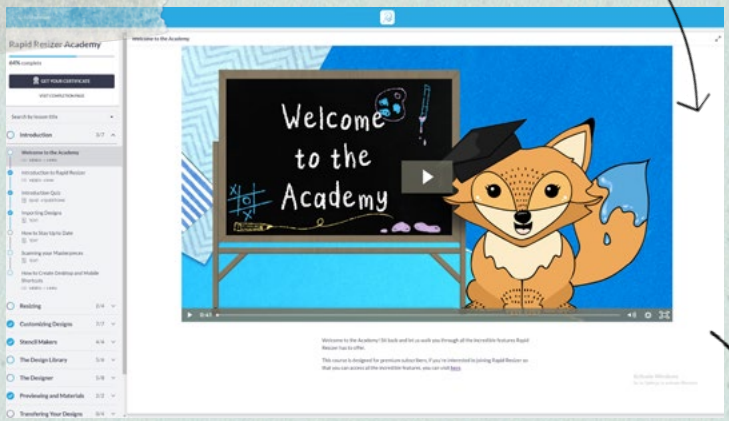
Vectorize
Convert raster image to a vector image.

Web App
A web application is a computer program that's accessed as a website instead of being installed on your device.

RAPID RESIZER ACADEMY

Sign up for our free online course!

The Academy is the free ultimate resource to master every tool Rapid Resizer has to help you with your art projects. With 44 lessons to explore and 1.5 hours of video lessons, you will find out, in depth about each tool and how to get started.



Rapid Resizer Academy screenshot

Enroll



laurenmollica.com



Valkyrie Customs

Email Us

ARTIST SPOTLIGHT

We love to see our user's incredible creations.

Message us your artwork for a chance to be featured on our social media, newsletter and blog.

Email us your artwork at help@rapidresizer.com. Be sure to include your name (or how you would like to be identified), your website or social media handles and any info on the artwork!



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RAPID RESIZER HANDBOOK!



YOUR THOUGHTS

Let us know how to improve the book:

https://www.rapidresizer.com/booksurvey

Feedback