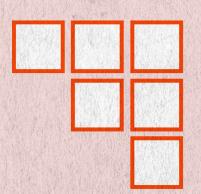
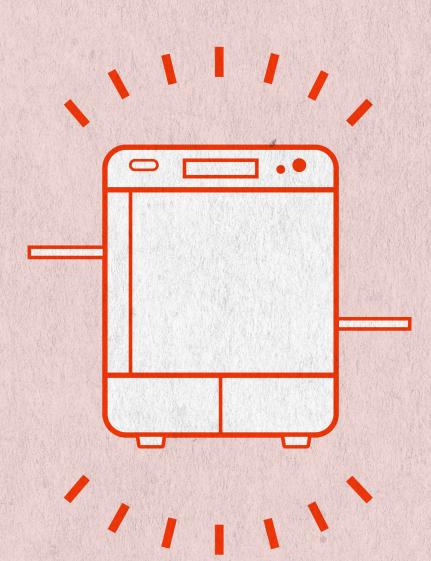
About RISO!



The RISO is a digital duplicator created by Noboru Hayama and manufactured by the Japanese Riso Kagaku Corporation - "RISO" meaning ideal, & "Kagaku" meaning science! The first risograph stencil machine was released to the public in 1980.

eislearn a little about the machine,

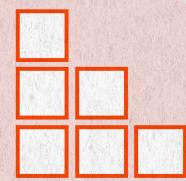


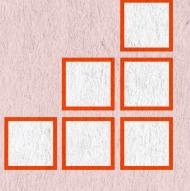
A digital duplicator
is a type of printing technology
designed for both high-volume and
cost efficient print jobs. It works
like a cross between inkjet
and screen printing!

The riso scans your b&w originals, then burns them into a master template. The master is wrapped around a cylinder, which rotates across paper. Ink is then drawn through perforations in the master, creating the print.

The machine reads contrast, not color. The saturation of black in an original corresponds with the color saturation in your resulting print.

It can only
print one ink color
at a time (the ink is housed
in large drums which are
switched out to change
the print color of each
layer)!





WHY RISO?

RISO printing can be confusing but we are here to help!

RISO PRINTING VS. TRADITIONAL PRINTING

- RISO printing requires multiple passes through the printer, one color at a time so you gotta be patient
- Separate process to prepare for printing that includes master making (more on that later)
- Ink is available in florescent shades, unique layering of ink
- High volume, high-speed, and low cost:)

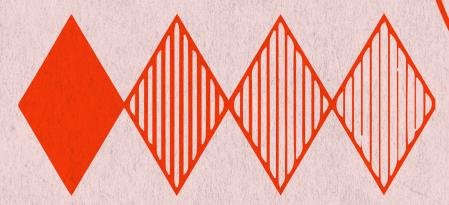
PROS:

Has vibrant colors that cannot be achieved with traditional printing, unique overlapping and offsets.

Soy-based inks make the RISO more sustainable than traditional printing. Meant for creating multiples, cost-effective when printing large quantities. Unique printed texture.

CONS:

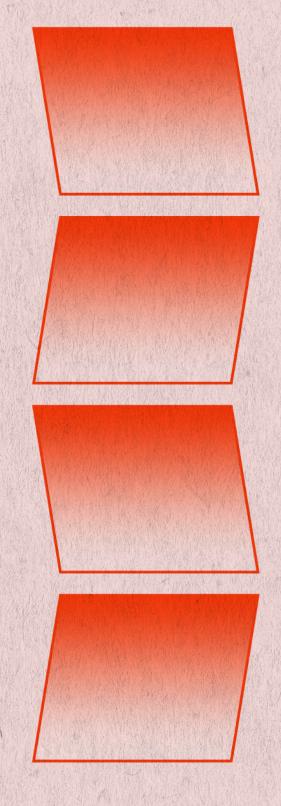
Paper constraints, not friendly for larger than 11 x 17. Limited color selection available, varies at different print shops. Unique inconsistencies may not be desired. Ory time between color layers ranges from 15 minutes to 2 hours (less dry time risks colors bleeding). Ink never fully dries and can lead to finger smudges (tip: to avoid this, spray with hairspray to seal)



How to make a master:

You can create a master digitally using practically any drawing/design software! (Illustrator and Photoshop are recommended for the purpose of this workshop, but other programs such as Procreate, Fresco, Sketchbook, etc. can be used, as long as you're able to create multiple layers.)

- 1. Create your design, making sure to separate each color into its own layer
- 2. When you're ready, export layers individually as black & white/grayscale PDFs at the size you intend to print





collage, cut paper, or use analog drawing tools to create a master by hand!

Colors available:

Studio Two Three:

RZ390 -

Black, Teal, Cornflower, Sunflower, Fluor Pink, Fluor Orange, Light Lime EZ220/1 -

Red, Flat Gold, Light Grey, Aqua, Blue

GOlab:

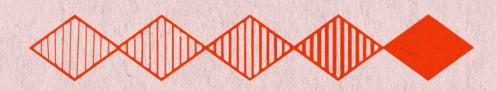
Blue, Black, Bright Red, Hunter Green, Fluor Orange, Fluor Pink, Yellow, Purple, Green, Flat Gold, Brown gemember.

Each layer will only be ONE color when printed

Where colors overlap, new colors will be made (ex: pink and blue overlapping will create purple)

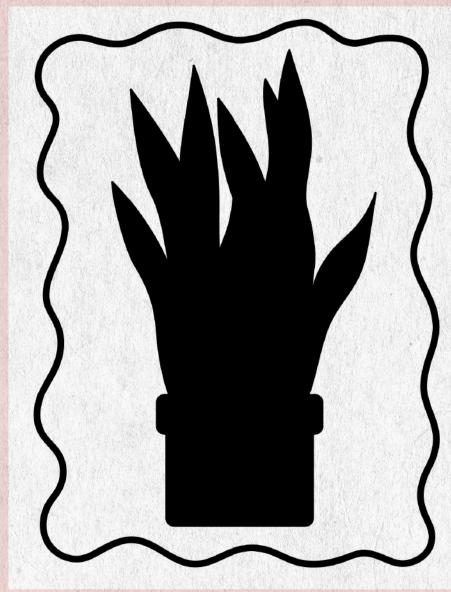
To Print:

See our Resources page for an instructional video from the GOlab!

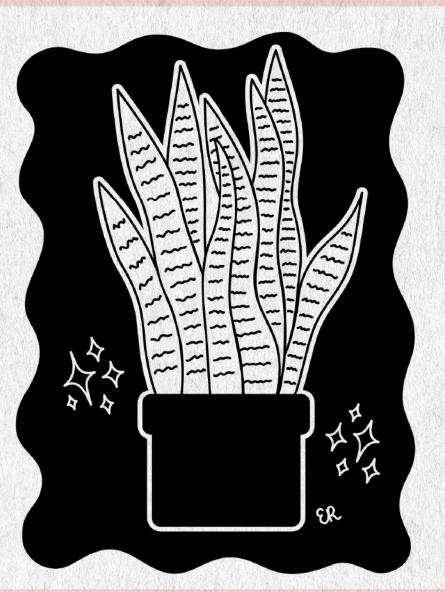


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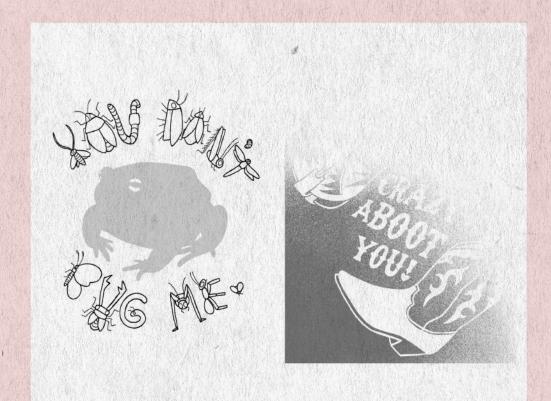


fluo pink

RESIGMENT INSTROM



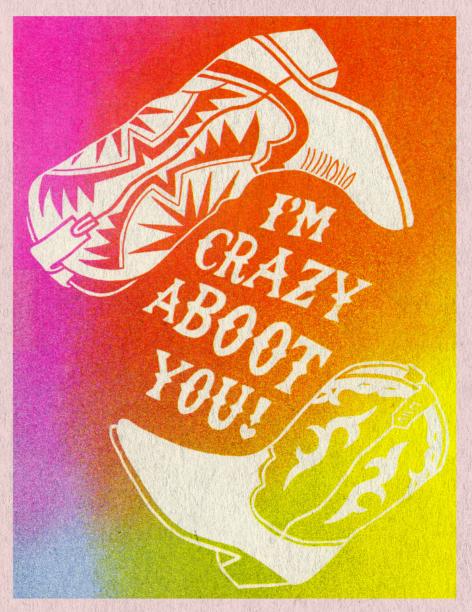
yellow



blue

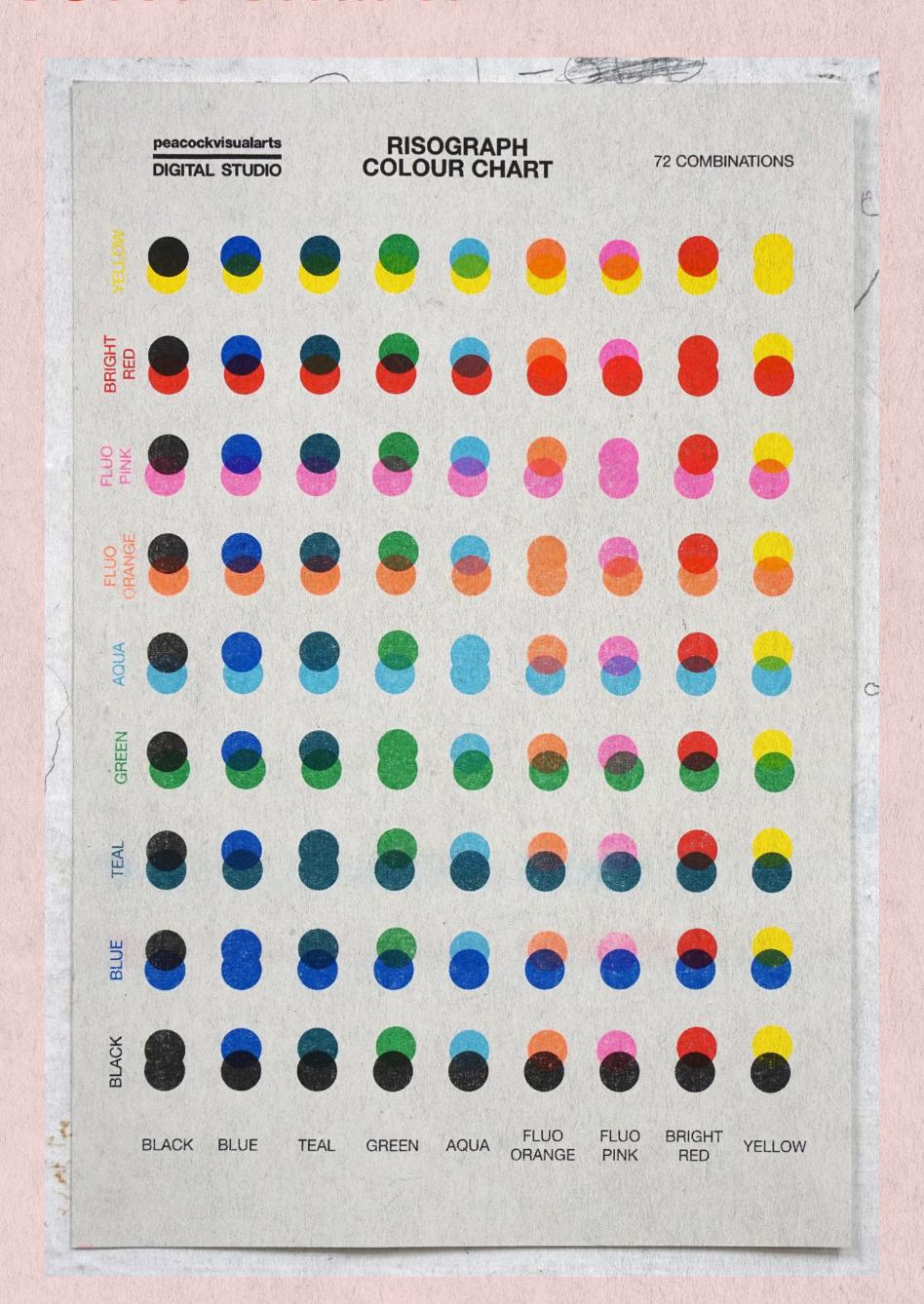


fluo pink

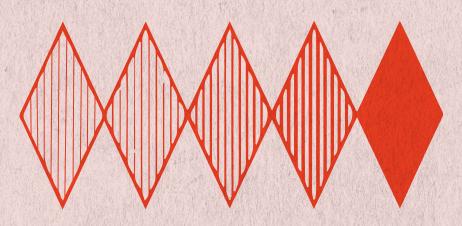




Color Chart:



MOCKUP MAKING!





Preview your layers before printing, or create a digital faux RISO print!

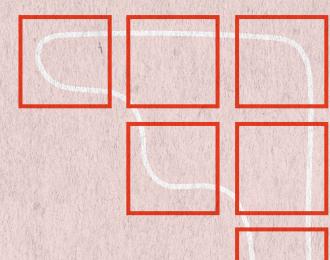
FOR ILLUSTRATOR:

(Works for vector designs only—if using any raster imagery, export master layers as .jpg files and open in Photoshop.)

- 1. Merge all objects on each layer using pathfinder, and change color to your desired RISO ink color (see "Resources" page for a link to RISO color hex codes).
- 2. Change layer transparencies to "Multiply" to simulate overprinting (in the dropdown menu next to "Opacity" in the "Layers" tab).

FOR PHOTOSHOP:

- 1. Apply gradient map (with desired hex code for color on one end and white on the other) to black & white layers to simulate color: "Image" > "Adjustments" > "Gradient Map."
- 2. An alternative way to change colors: preserve opacity > paint bucket
- 3. Change layer transparencies to "Multiply" to simulate overprinting (in the dropdown menu next to "Opacity" in the "Layers" tab).



syndrys Tof agif

add texture and irregularities to your objects (give them a hand drawn feel): in Photoshop, select layer with desired shape, "Filter" > "Distort" > "Ripple," adjust preview menu until you have the desired texture. add no

add noise
to the edges of
an object: in Photoshop, select object layer,
"Filter" > "Stylize" > "Diffuse," play around with
modes in preview menu.

To add noise/grain: in Photoshop, select "Filter" > "Noise" > add noise and adjust to your liking.

add print
texture/noise:
find a high resolution image of the
noise or texture you
want to apply, put it on a
layer above your shape and
adjust contrast and coloring as
needed, create a clipping mask,
and play around with layer
modes ("Dissolve," "Multiply," "Lighten," etc.)

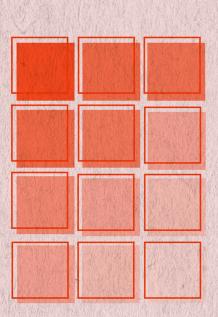
To

- Are.na for inspiration
- Riso Ink Colors (for hex code colors)
- CMYK separation tutorial (by Brooke Inman)
- <u>Texture Fabrik</u> (for paper textures)
- Print Simulator Ink Shift RISOTTO (RISO simulator)
- Go Lab RISO Tutorial
- Go Lab RISO Prices

Assignment! Assignment! Assignment! Assignment!

Our RISO assignment for the class (should you like to participate) is to collaborate on a multi-studio class picture day poster!

Your homework is to create a self-portrait using what we've learned in this workshop to be combined into a foldable poster of all your classmates' work! The assignment of a self-portrait is open to interpretation, you can do anything from a selfie to drawings of your pets or anything you feel represents you.



- The colors chosen for you to work within are Fluorescent Pink, Sunflower Yellow & Cornflower Blue.
- You must use all 3 colors, & be sure to work in separate color layers!
- The dimensions of your artwork should be 2 x 2 inches, 300 dpi
- Export both the three separate grayscale files of each color layer, along with the original color version of your artwork (all as JPEGs)
- Title your work as the following: LASTNAME_RISO_B/W(1-3) and LAST NAME_RISO_COLOR
- Should you participate in our class picture day, have all 4 files uploaded to our google forms questionnaire by midnight of April 5th!

Blue: 62A8E5

Yellow: FFB511

Pink: FF48B0

Then, the posters with everyone's work will be risograph printed at Studio Two Three, and mailed to all of you. Contact us if you have any questions in the design process.

