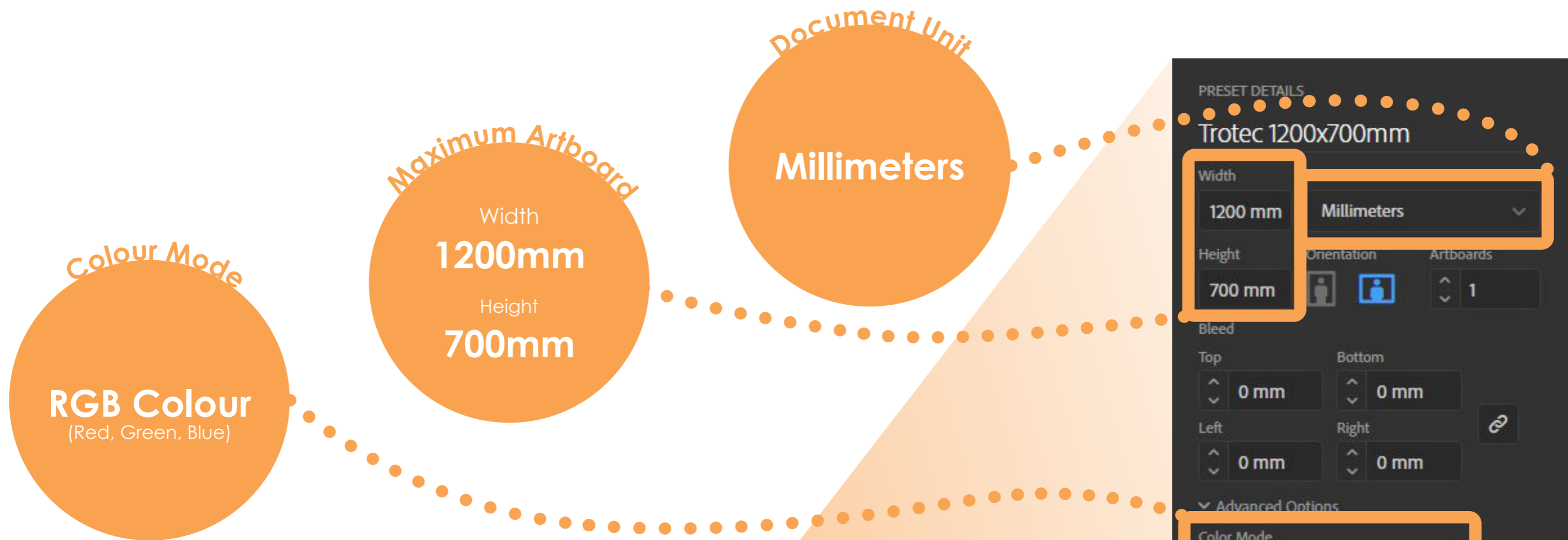


# LASER CUTTING

**Ai** ILLUSTRATOR SETUP CHECKLIST



PRESET DETAILS  
Trotec 1200x700mm

Width: 1200 mm | Unit: Millimeters

Height: 700 mm

Orientation: Portrait | Artboards: 1

Bleed: Top 0 mm, Bottom 0 mm, Left 0 mm, Right 0 mm

Advanced Options  
Color Mode: RGB Color

Raster Effects: High (300 ppi)

Preview Mode: Default

More Settings

Create Close

AI File Edit Object Type Select Effect View Window Help

New Document

Recent Saved Mobile Web Print Film & Video Art & Illustration

Let's start something new.  
Start with your own document settings, pre-formatted document presets or explore some of our helpful templates and starter files.

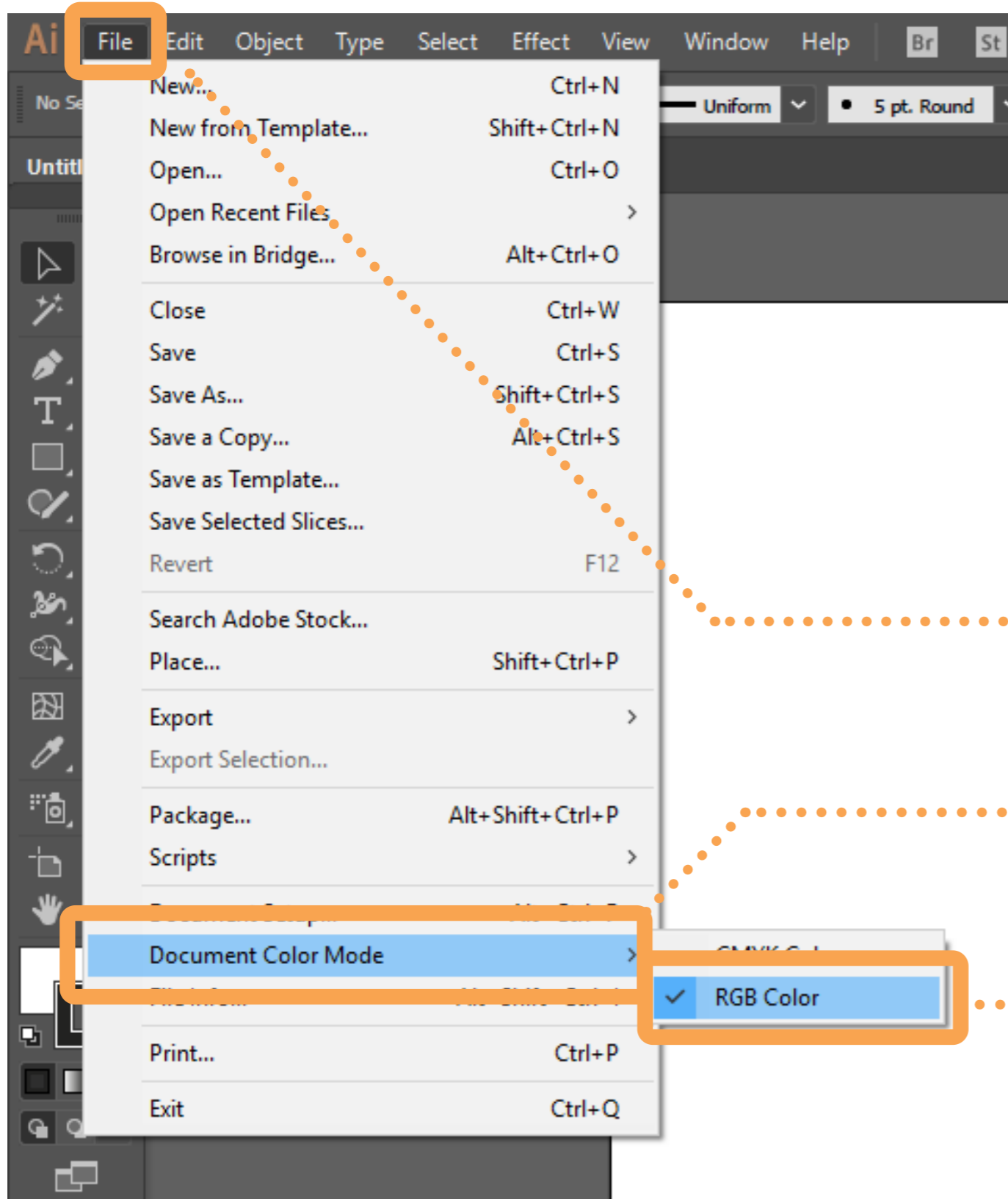
YOUR RECENT ITEMS (20)

- [Custom] 1200 x 700 mm
- [Custom] 1200 x 900 mm
- A3 297 x 420 mm
- A3 297 x 420 mm
- [Custom] 4000 x 4000 mm
- [Custom] 1000 x 700 mm
- A3 420 x 297 mm
- [Custom] 740 x 90 mm

Find more templates on Adobe Stock

Create Close

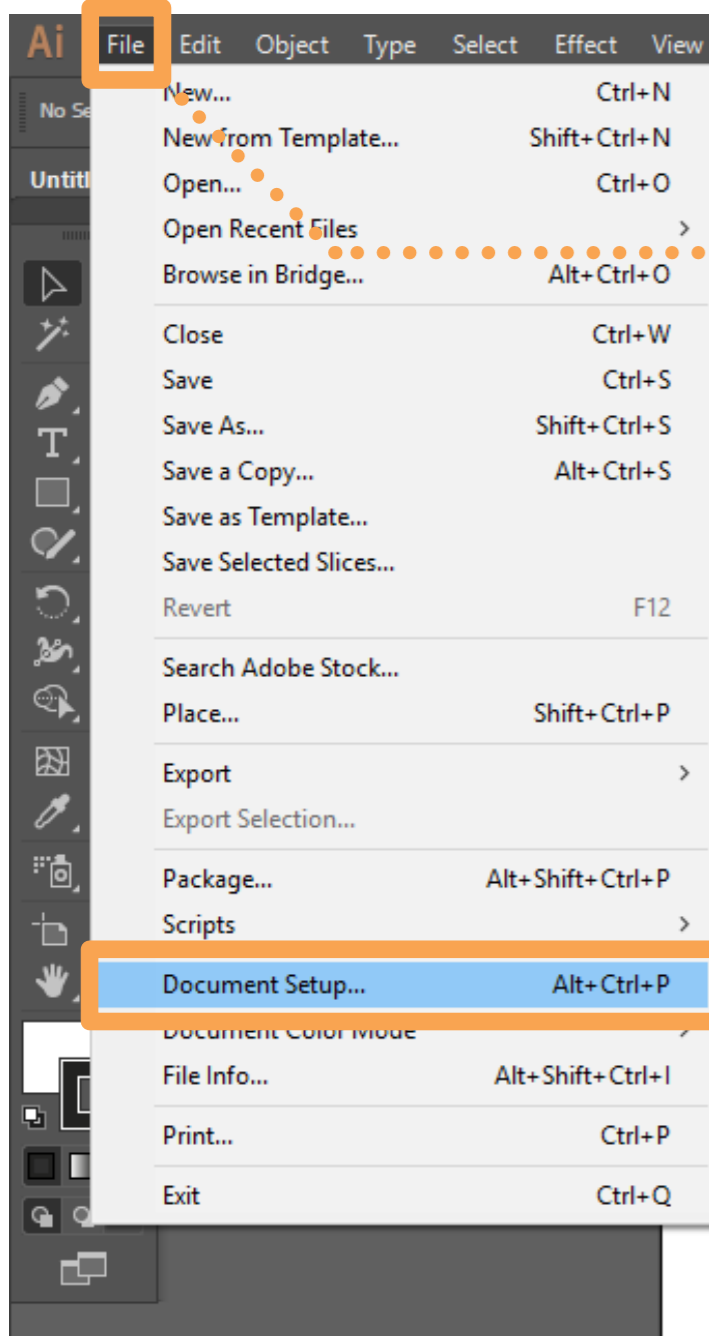
**NEW DOCUMENT SETUP**



A SELECT FILE

B SELECT DOCUMENT COLOR MODE

C TICK RGB COLOR



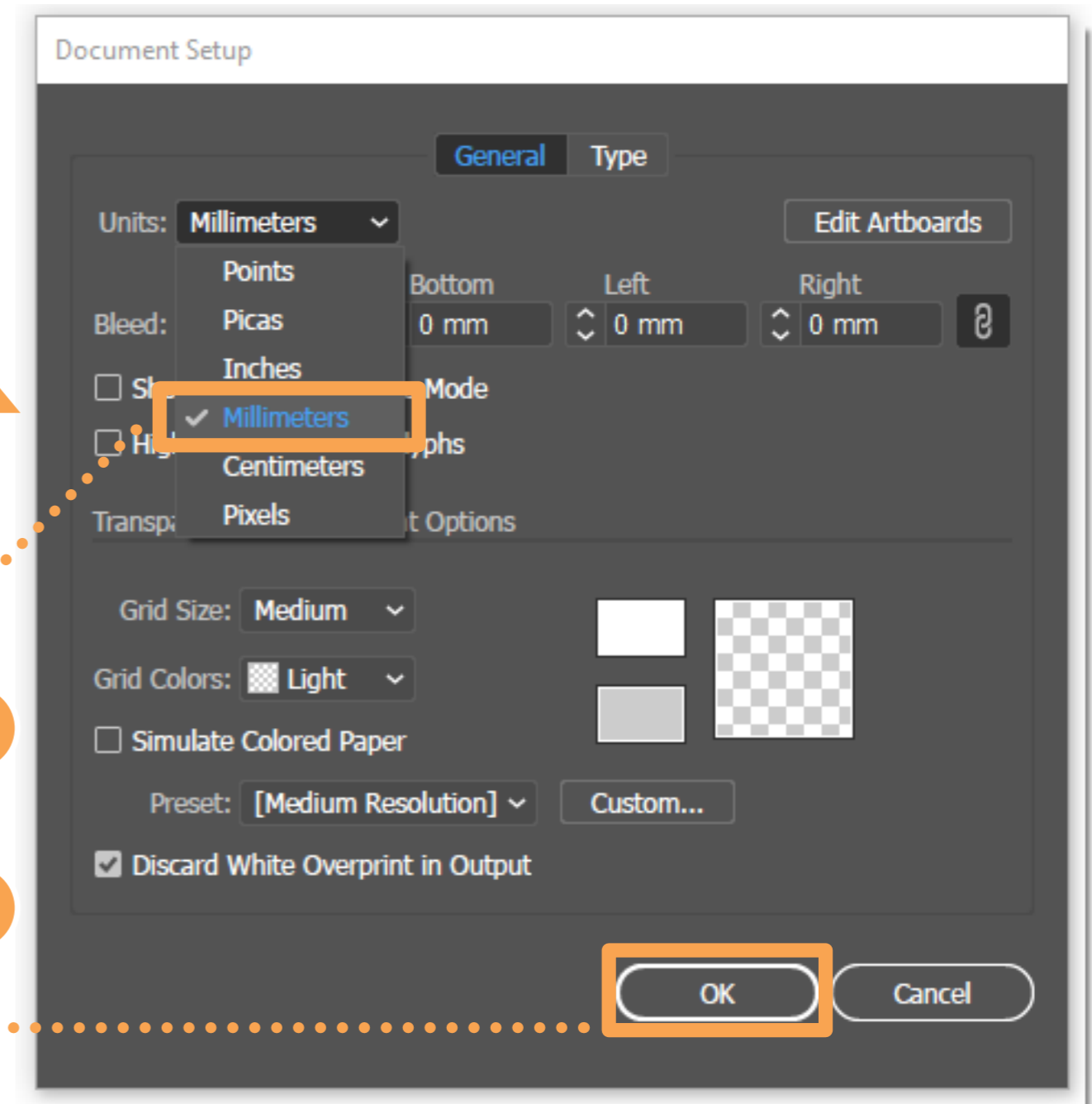
**A** SELECT FILE

**B** SELECT DOCUMENT SETUP..

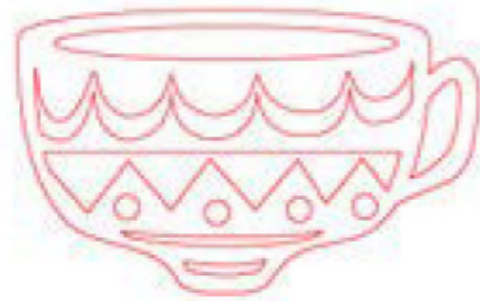


SELECT MILLIMETERS **C**

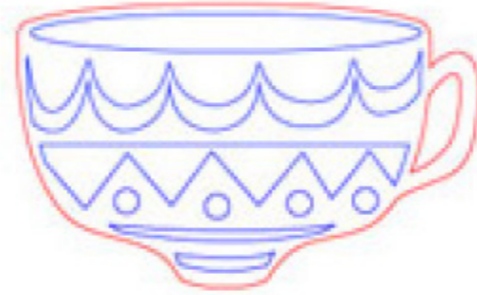
SELECT OK **D**



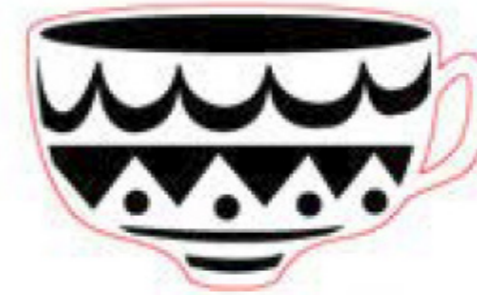
ILLUSTRATOR STROKE & FILL COLOUR SETUP



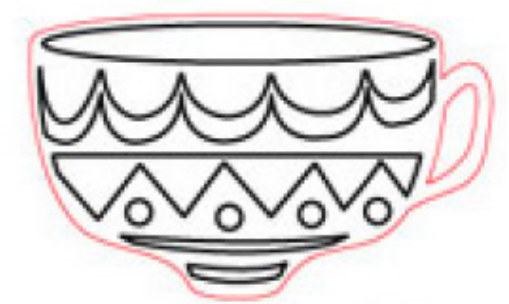
CUT LINES



CUT LINES  
ETCH LINES



CUT LINES  
ETCH FILL



CUT LINES  
ETCH FILL  
STROKE LINES > 0.01mm



FASTEST TO PROCESS

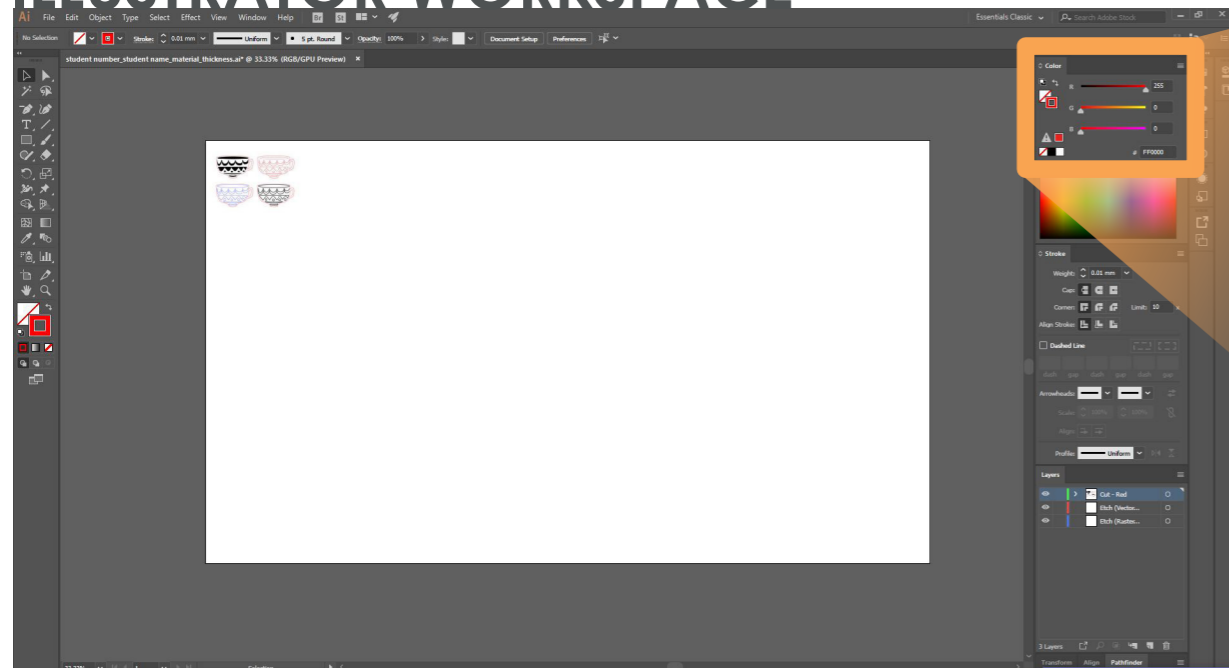


SLOWEST TO PROCESS



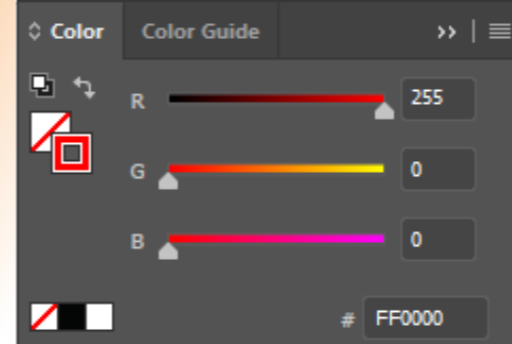
LASER CUT OUTCOME

ILLUSTRATOR WORKSPACE



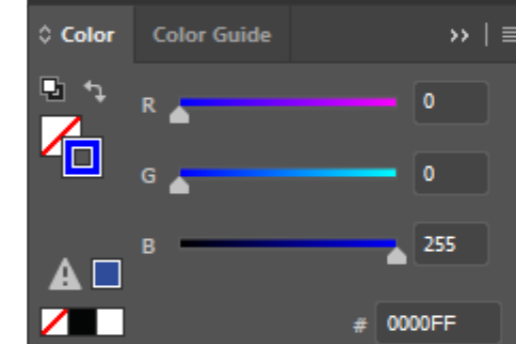
CUT LINES

RED (R: 255, G: 0, B: 0)



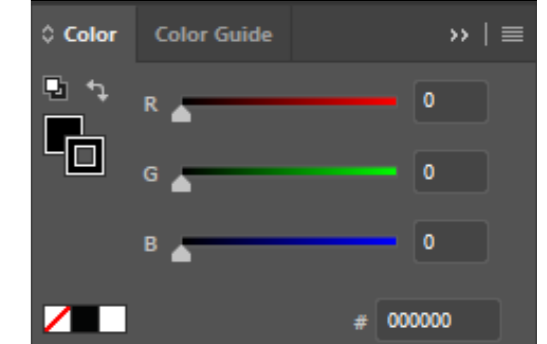
ETCH LINES VECTOR

BLUE (R: 0, G: 0, B: 255)

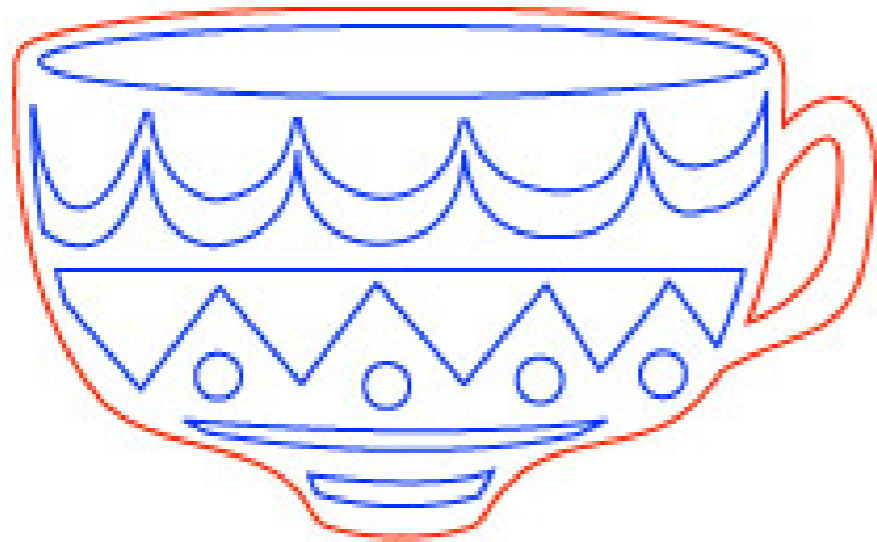


ETCH FILL RASTER

BLACK (R: 0, G: 0, B: 0)

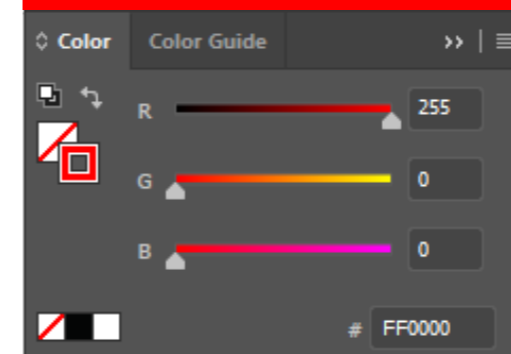


SELECT ALL CUT LINES & ETCH LINES



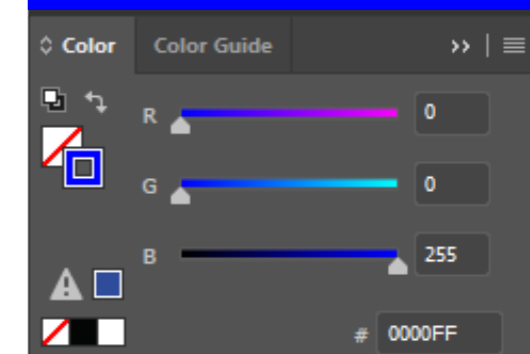
**CUT LINES**

RED (R: 255, G: 0, B: 0)



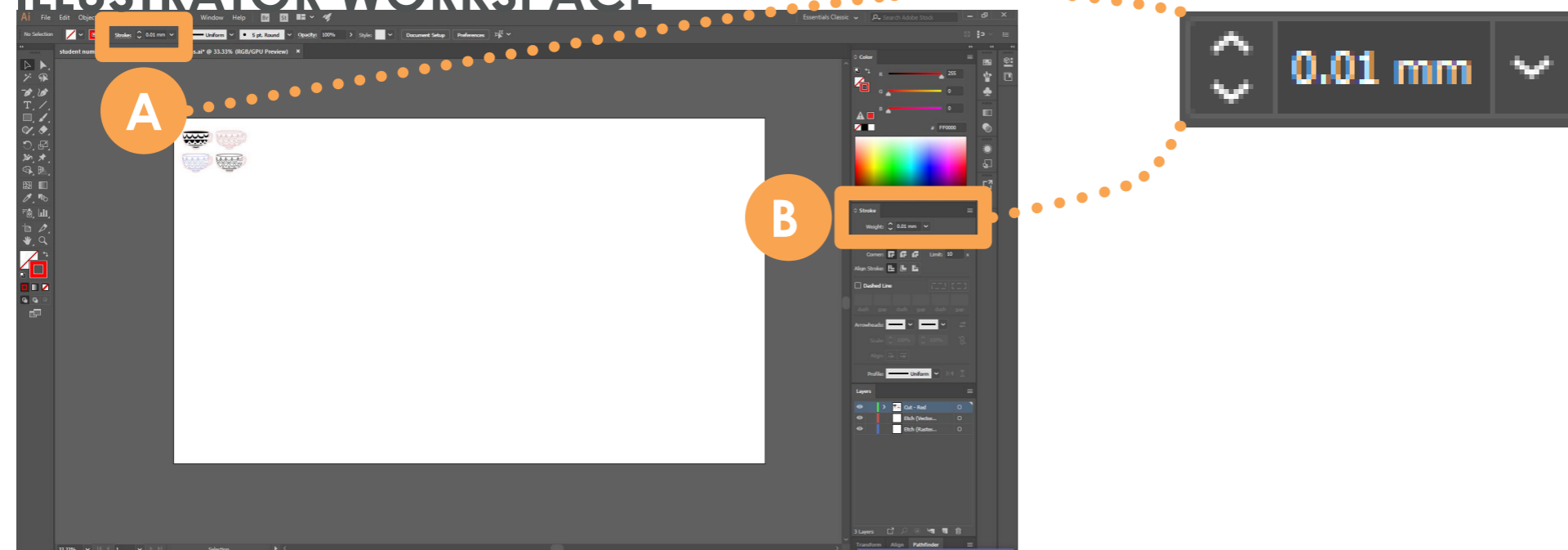
**ETCH LINES** VECTOR

BLUE (R: 0, G: 0, B: 255)



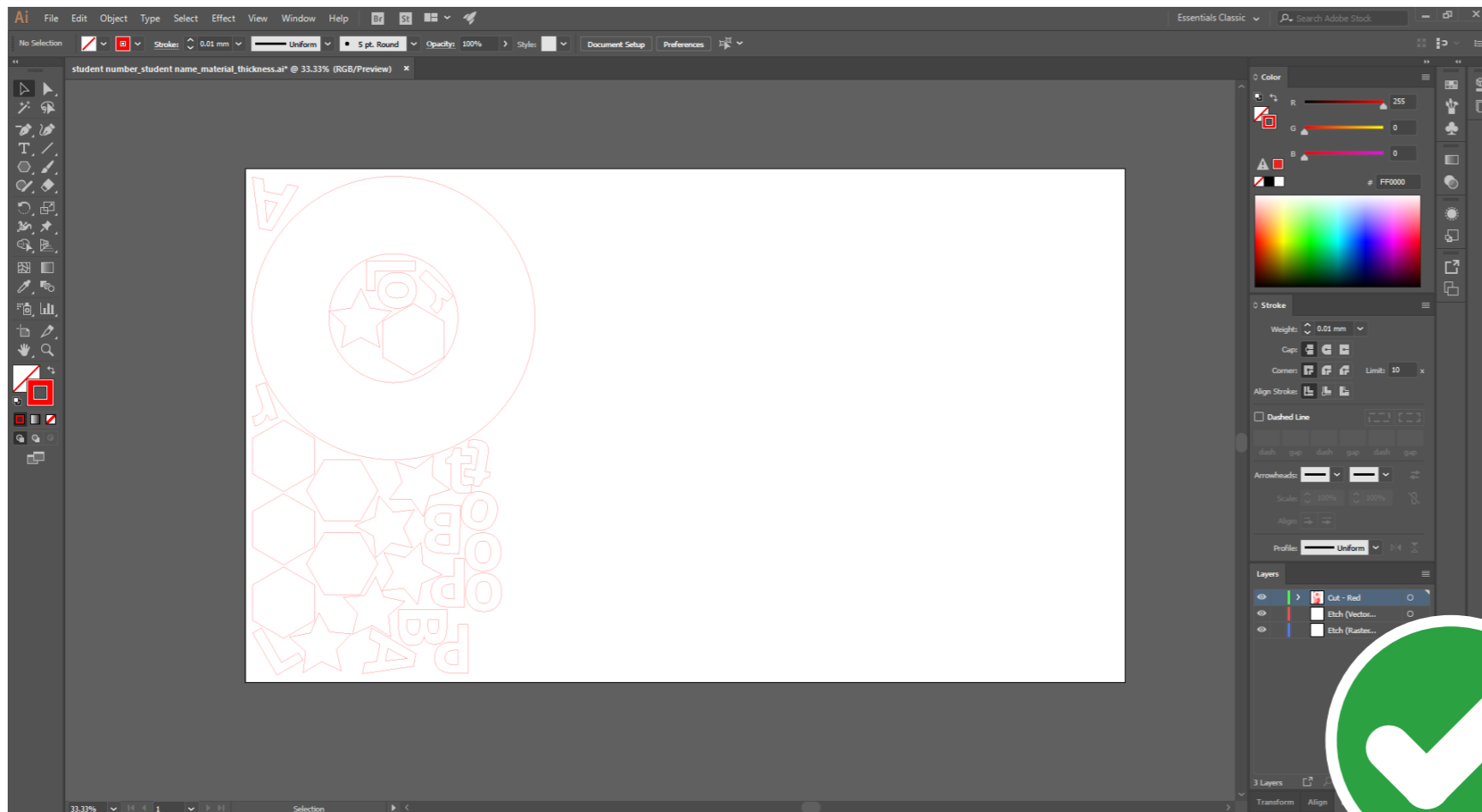
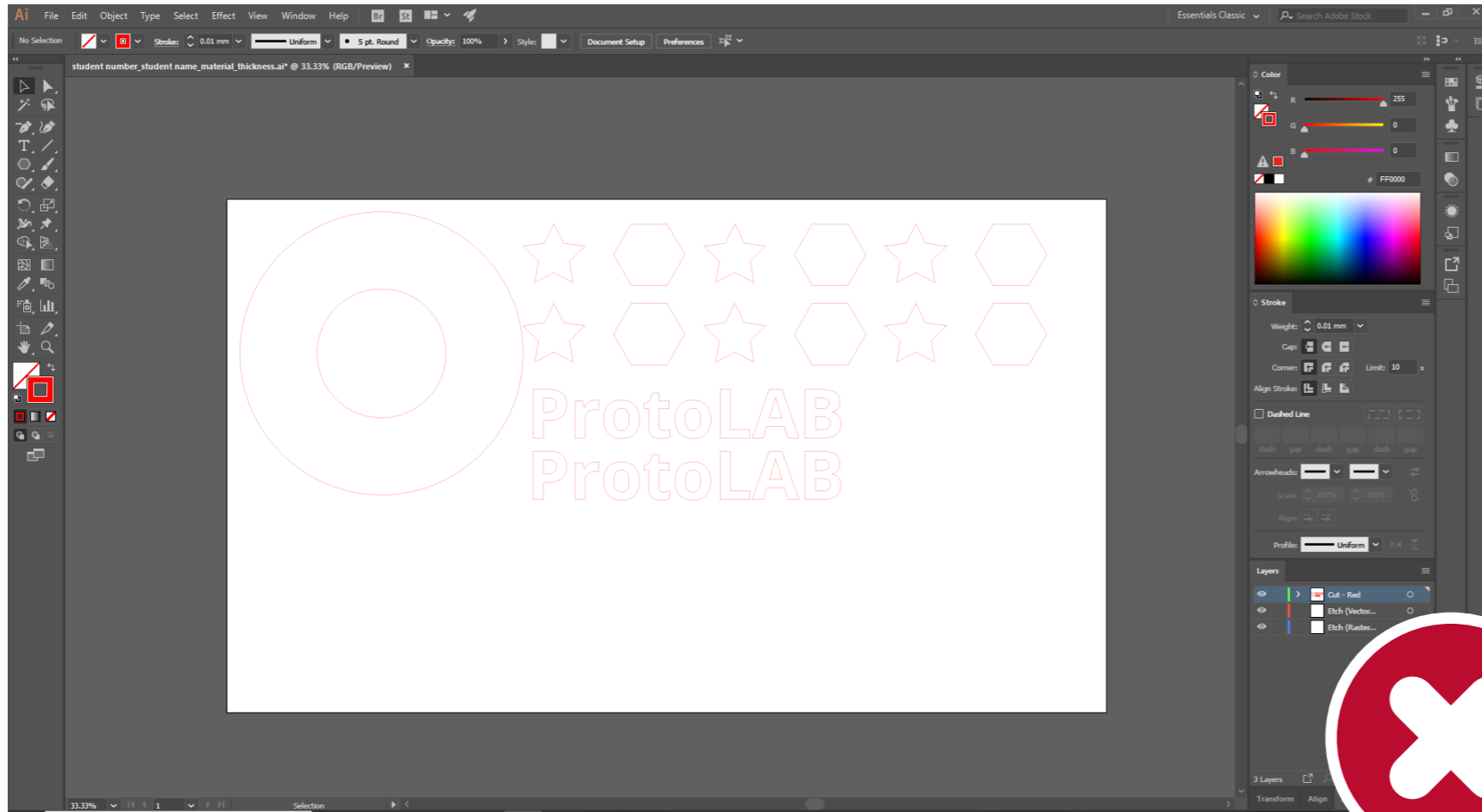
TYPE STROKE WEIGHT (A or B) to 0.01mm

ILLUSTRATOR WORKSPACE



STROKE WEIGHT

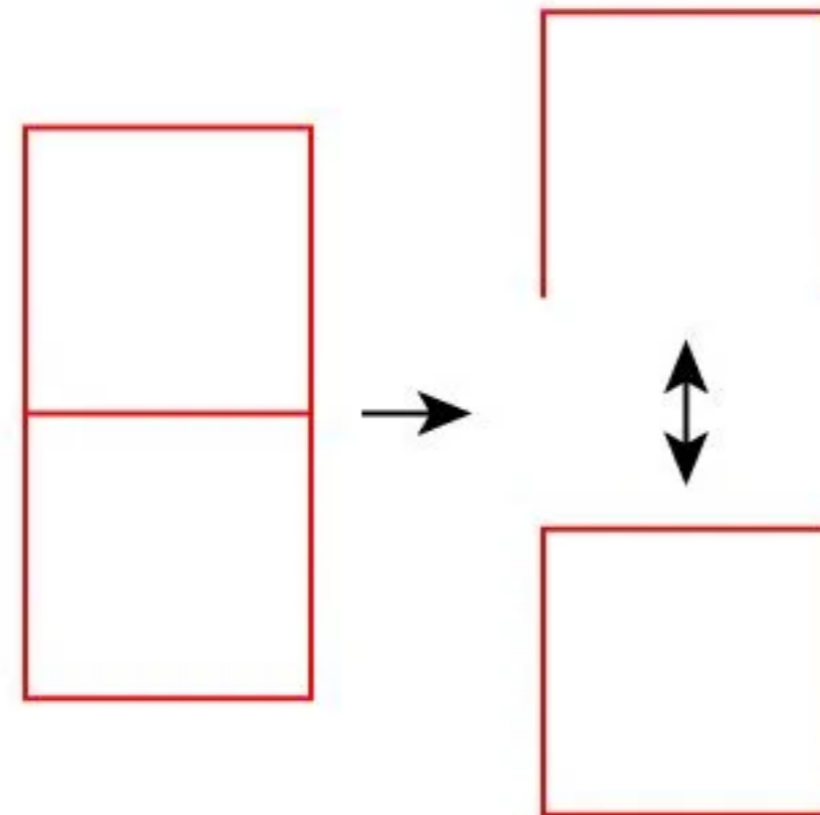
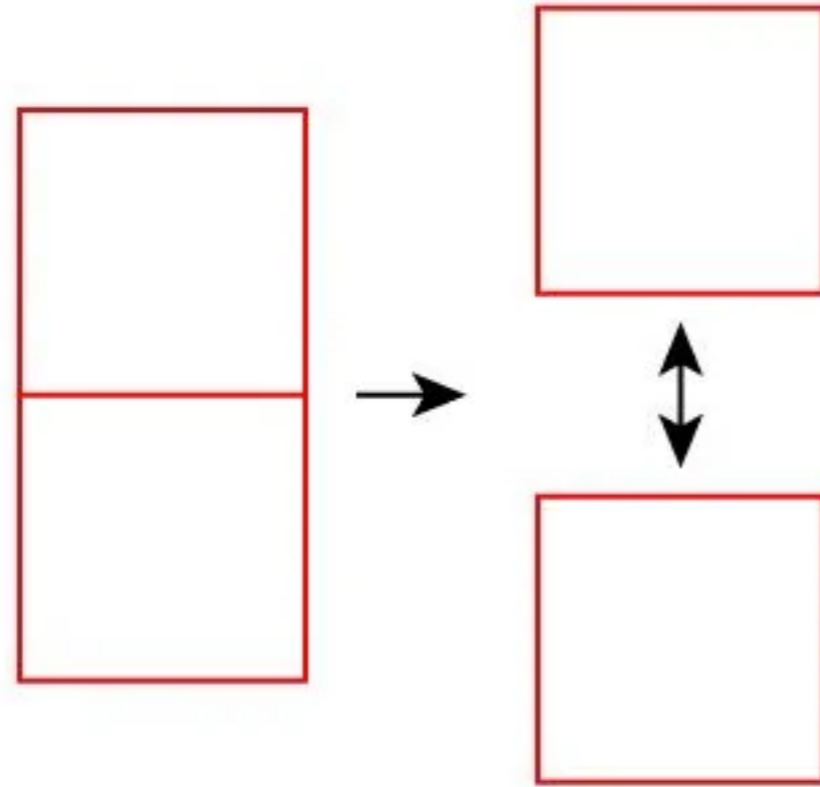
4



Nesting is the process of laying out your artwork by closely placing your design elements together.

When laser cutting this process will allow you to save money and reduce material waste.

# NESTING



Often when cutting out multiple parts at once, the temptation is but them up against each other so similar lines overlap. This is a good idea, but there is a good way to do this and a bad way.

Let's say for example you have a bunch of squares to cut out. If you draw 2 squares (4 sides each) and then but them up against each other it will look like there is only one line between them. The trouble with this is that although it looks like there is only one line on the overlapping side, the computer still sees 2. The end result is that lines will get cut one on top of the other. **This can lead to that edge getting burnt, rather than a clean cut. It also waste time on a unnecessary cut.**

The way to fix this is to eliminate one of the doubled up lines. Draw one of the squares with 3 sides and but it up against the one with 4 sides.

Tips from <https://www.instructables.com/id/10-Tips-and-Tricks-for-Laser-Engraving-and-Cutting/>

## OVERLAPPING LINES