

START: 10.01.24

END: 10.01.24

[COURSE WEBSITE](#)

WS4 / DATA ENGRAVING + EMBOSsing

PROJECT DESCRIPTION

For this workshop, we will some basic data visualization, in combination with alternative digital fabrication methods, in order to produce a self-representative data card.

Specs:

Adobe Illustrator - 3.5" x 2" artboard / CMYK / 300ppi

Step 01:

Identify the numeric values of your birthday in the format of DD.MM.YY. Example: 10.04.95

Step 02:

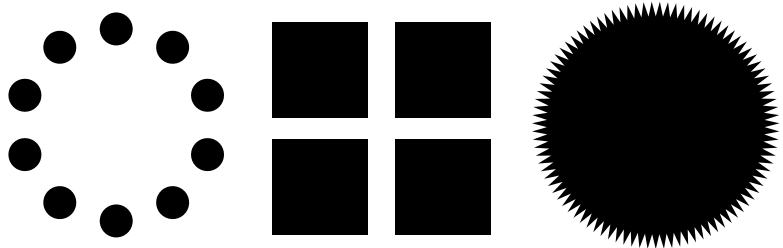
Using only basic shapes, create a new shape for each of your birthday numbers by using the blend, radial, or transform tool in Illustrator.

For example:

10. - a radial form made of 10 circles

04. - a grid of 4 squares

95. - a star with 95 points



Step 03:

Keeping this objects as filled vector shapes, without any strokes, arrange them into a composition on your 3.5 x 2" artboard. Export (use artboards) this file as an .SVG (make sure that "responsive" is NOT checked in the export settings) *make sure to reflect your design for embossing

DATA ENGRAVE/EMBOSS

ART 4990 AMFD

F_24

START: 10.01.24

END: 10.01.24

[COURSE WEBSITE](#)

Step 04:

Upload this composition into the Glowforge (laser cutter) Software, and engrave your design out of acrylic. The deeper the engrave the better.

*there are more steps to the engraving processes, but as they differ from machine to machine and involve lots of trail and error, we will demonstrate these methods in person.

Step 05:

After cleaning your engraved acrylic plate, take a paper of your choice, place it on top of your plate, and run it through a press at high pressure (different material needs different pressure, caution and trial and error is the best method).

Acrylic plate on press bed facing up.

Paper on top of engraved plate.

Print beds on top of paper.

Run through press twice (slow and steady).

Viola! You have now created a data-informed, digitally fabricated embossed paper composition. Consider how this tool process, or a version of such, can be used in your own research and experiments.

DELIVERABLES

- As many embossed data cards as you can produce!

TIMELINE

10.01.24 - 10.01.24