

Lasercut Jigsaw

An extension for Inkscape that creates jigsaw shaped pieces. Options for back, and single cut pieces. Creates a jigsaw puzzle for laser cutting.

- set dimensions in various units,
- number of pieces in X,Y,
- randomness and size of tabs,
- rounded corners, and a backing as an option.
- packed neatly for minimal cutting.
- uses minimal lines to optimise for laser cutting (e.g. when using packed backboard).

May one day be extended to do boolean cuts and create separate pieces. (Will require DBUS or some other way to call boolean ops from a plugin.) Currently there is an experimental checkbox which will create pieces suitable for laborious manual boolean operations. Useful if you want separate jigsaw pieces.

Source:

- <https://inkscape.org/de/~Neon22/%E2%98%85lasercut-jigsaw>
- <https://github.com/Neon22/inkscape-jigsaw>

option is enabled.

Border color



Jigsaw lines color



☐ Live preview

Close

Apply

Lasercut Jigsaw



Style

Dimensions

Notches

Usage

Define the Jigsaw size and grid size.

Width

350,00

−

+

Height

350,00

−

+

Corner radius

0,00

−

+

Units

mm ▼

☐ Outer Border

Border width

20,00

−

+

Border radius

5,00

−

+

Pack Location

Below ▼

How many pieces across

10

−

+

How many pieces down

10

−

+

☐ Live preview

Close

Apply

Lasercut Jigsaw



Style

Dimensions

Notches

Usage

The interlocking pieces can be shaped here. Also the random nature of the layout.

Notch relative size

0,50

–

+

Grid Randomisation

0,33

–

+

☒ Some edges can be smooth

percentage of smooth edges

10,00

–

+

☒ Random jigsaw

or Jigsaw pattern (seed)

12345

–

+

☒ Create separated pieces

Shifting for each piece

50,00

–

+

☐ Live preview

Close

Apply

Lasercut Jigsaw



Style

Dimensions

Notches

Usage

Jigsaw lines are single for minimal laser cutting.

(The pieces are not discrete shapes.)

The outer edge can be a rectangle or have rounded corners.

A Surrounding border can be added to frame the jigsaw.

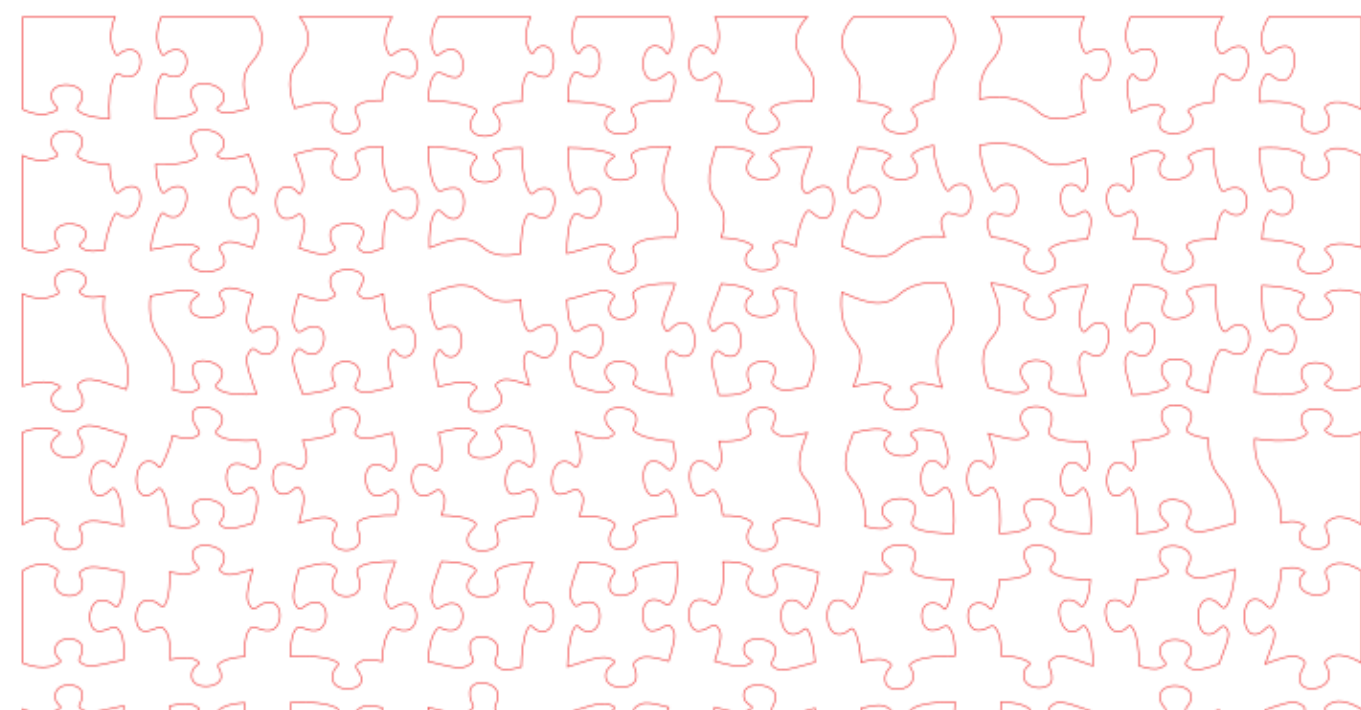
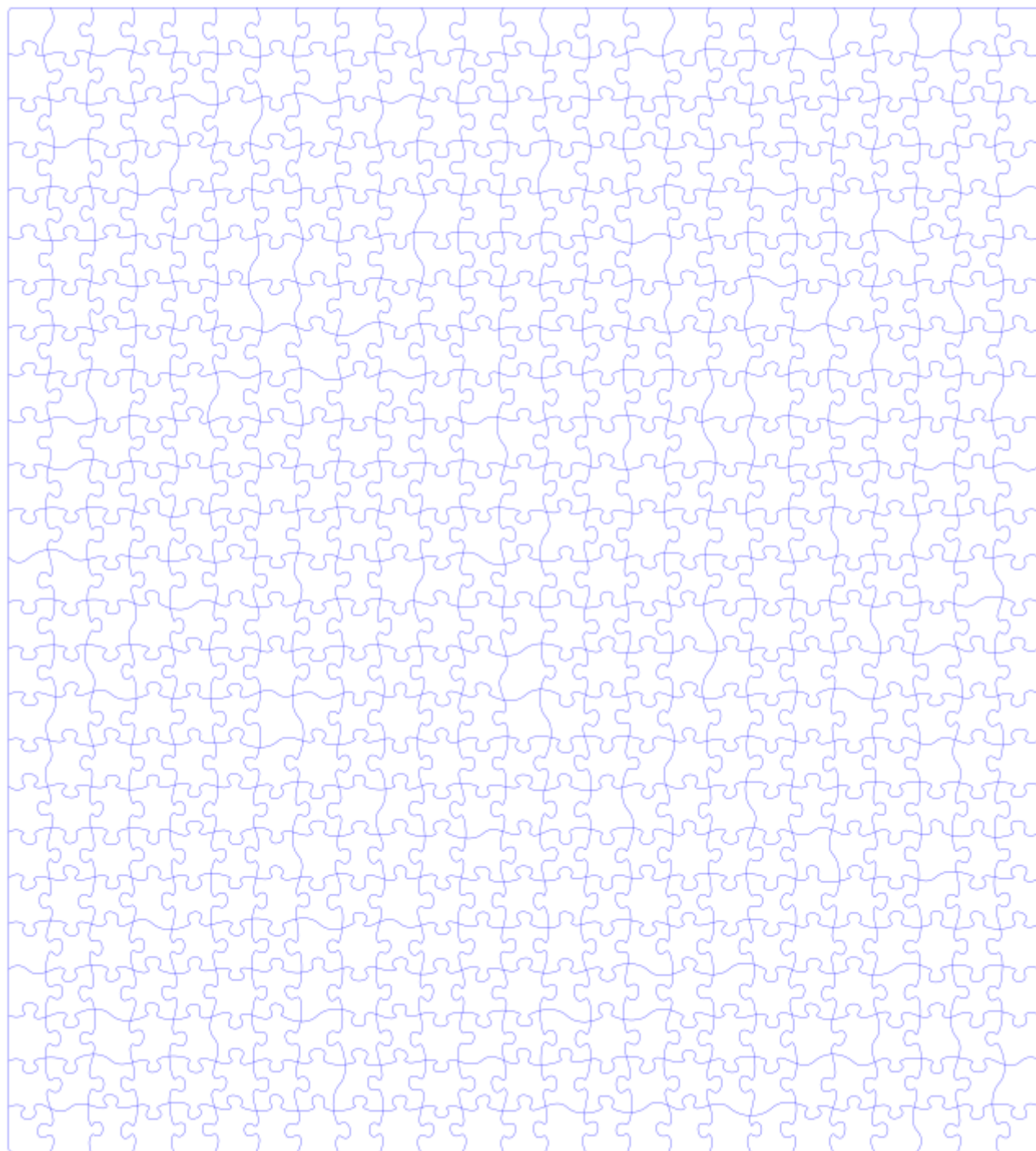
Notch size is related to the averaged Jigsaw piece size.

Randomization creates irregularity for unique pieces.

Adjust Notch size and Randomization to avoid overlapping lines:

- High values of randomization will cause overlapping lines on small notches.
- Highly unbalanced grids (E.g. 9x2 with 0.5 notches) will create overlapping lines.

Sample Output



Version #1

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