

# Maker's Guide: Lantern

- Step 1: Download box plans
- Step 2: Find your image
- Step 3: Open in illustrator
- Step 4: Cut it out!



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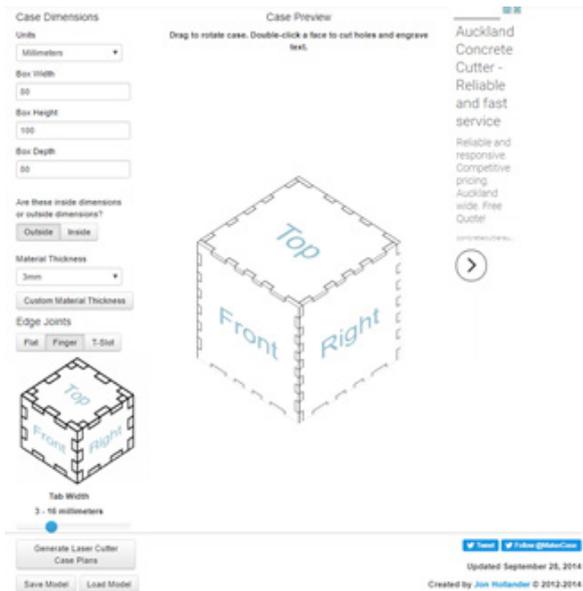
This is a step by step tutorial to use the CNC router to create a 100x100mm maze. A ball bearing is placed inside the maze and an acrylic square is bolted to the top to make the finished game.

## Step 1: Download box plans

Download the box plans from [www.MakerCase.com](http://www.MakerCase.com), using whichever dimensions you want

OR

Look on the Unleash Maker's Guide File for pre made plans of a 100x80x80mm box



### Note:

When using MakerCase: Specify

- Thickness of material
- Dimensions of box
- Number of Finger Joints (aim to have 5 or so on each side)

Then press Generate Laser Cutter Plans

- Specify colour as #FF0000 so it automatically comes out as red
- Specify Kerf Width as 0.08

## Step 2: Find your image

Find your Images on Google

- These can be patterns, or pictures
- They should be relatively large to give clear lines when vectorising
- Remember the dimensions and orientation of your box when picking these

## Step 3: Open in illustrator

- Open it up in Illustrator, and add your pictures and patterns!
- Change it up! Separate different lines and segments of your design and change them to cutting, etching and engraving to give unique effects!
- If you want to use your box as a pencil holder or candle stand, make sure to put a hole in the top so you can put them in!

### Turning an Image into a Vector in Adobe Illustrator

- Import or create image
  - Click Object > Rasterise
  - Click Object > Image Trace > make and expand
- This gives you vector lines, which can then have their infill and colour changed depending on if you want cutting, etching or engraving

## Step 4: Cut it out!

- Get one of the Creative Technologists to double check your work, and cut it out!

