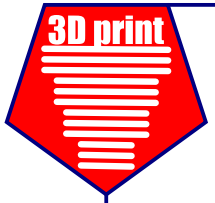
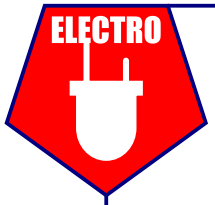
Find in the 4 locations where you'll have to solve the challenges and use the instructions below here to do the correct manipulations !
For each challenge you'll reveal 2 LETTERS, you'll have to use those 2 letters with the grid on the other side of this paper to find the right symbol. Once all 4 symbols are found, you can go back to where you started and attempt to open the box !
Make sure you note all the letters and symbols you find at each challenge, as shown in the example.
There is no specific order in which to solve the 4 missions.

The Lasercutter uses a focused lightbeam to burn materials, the same way you can burn something using a magnifier and the Sun ! This machine has 2 main settings : the **power** of the laser beam and the **speed** at which it will move. The more powerful, the more it burns and the slower it moves, the more it burns as well !
It's important for each material to use the right settings. We want to make an object made of **CORK**
Set the machine correctly to reveal two letters !

The CNC milling machine uses a drill to engrave and cut through materials. It also has another specificity compared to the Lasercutter : it has 3 axis ! What does it mean ? The Lasercut moves in 2 dimensions but the CNC moves in 3 dimensions, which means that it can also make volumes and depths !
X and Y are 2 dimensional coordinates. Z is the height/depth coordinate.
Look at the following coordinates and measure the **values of Z : (X=1;Y=7) and (X=9;Y=5)**



Nowadays, it's incredible to see the variety of things we can make with a 3D printer !
Did you know that the most commonly used material for printing named PLA it comes from corn ?
PETG is the same plastic as bottles, and some printers can even print chocolate and ceramic !
For our project, we want to 3D print some **Legos**, which material would we need ?
Chose the **right material** and the **right temperature** to reveal two letters !



For our electronics project, we would like to build a basic circuits to turn on a light !
For that, we need the right components, each of them playin a crucial role in the circuit :
The power source is made of **THREE 1,5v batteries** ; we want to light up a **Light Emmiting Diode (or LED)** ;
to protect the LED we need a **RESISTOR**, and we will use a **SWITCH** to activate our circuit !
Once they are all set, you'll see an interesting information !

WARNING ! Please after finishing a challenge, don't leave the answer visible so the next ones can also play it !

You can find the Instructable under the following name : *Fablab's Quest : an Open Field Escape Game About Fablab Machines*

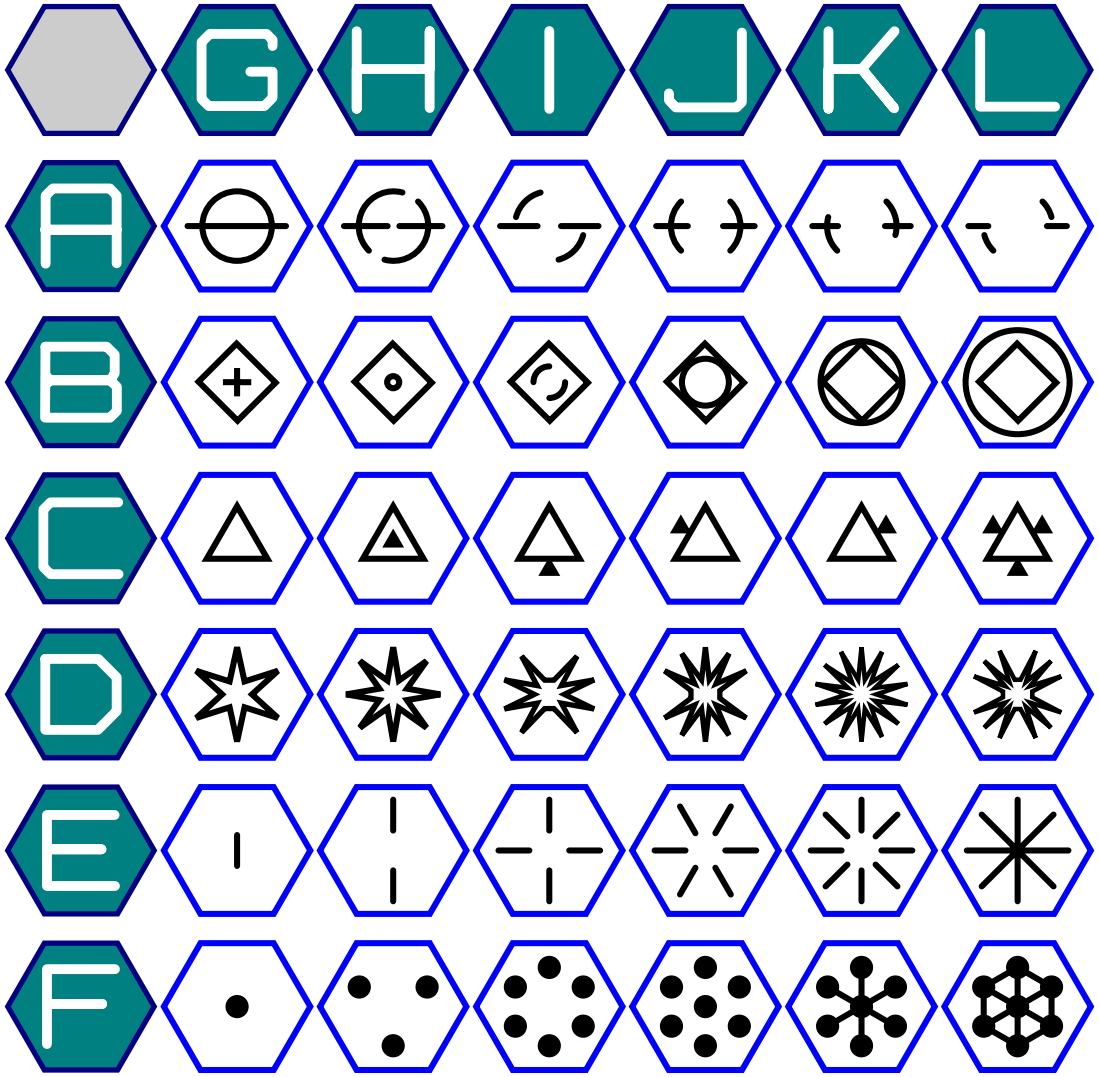
Makers of the world : UNITE !

An escape game by **Delphine Bawin** & **Navid O'Lari**
first created for the Makers United Festival - Chemnitz June '24

Fablabs are immensly usefull places where you can create by yourself (almost) whatever you can imagine, thanks to some machines, such as the Lasercutter, the 3D printer, the CNC milling machine and the electronics. However, Fablabs are more than just a place to use tools, they are also a place to learn from and with the community of Makers ! Thanks to the OpenSource ideology, we can share our knowledge and skills !

Today more than ever, we need to work together in order to build the world of tomorrow ! Go on an exciting quest to learn about the 4 machines by meeting other Makers and building your network and community !

Once you finished the 4 challenges, come back to the basecamp and open the locked box : in there you'll find the badge that will make you a Maker too !



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