



<http://wiki.fablab.is/Inkscape>

to change the page size  
(document properties menu)

menu to change line width  
(fill and stroke menu)

to change image to nodes  
(trace bitmap menu)

selecting & moving  
editing nodes

draw a square

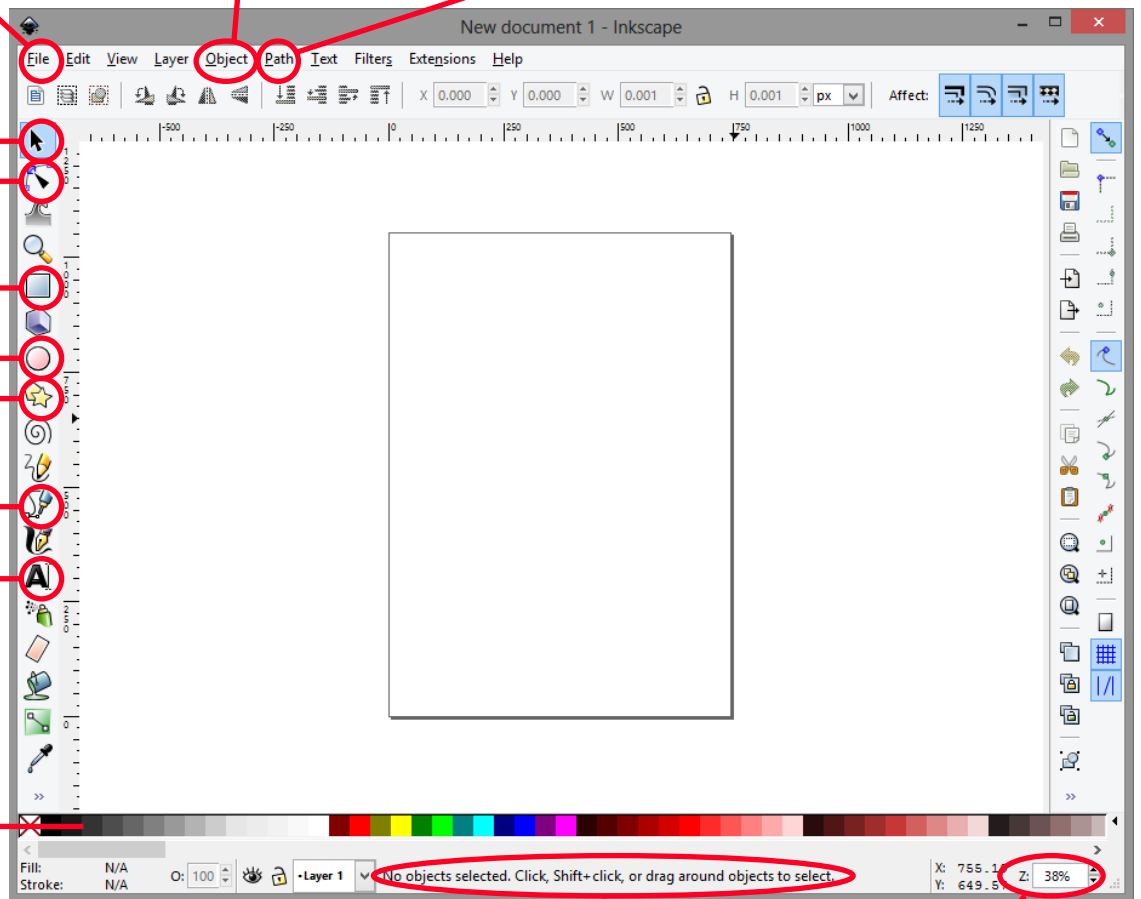
draw a circle

draw a star

draw by hand

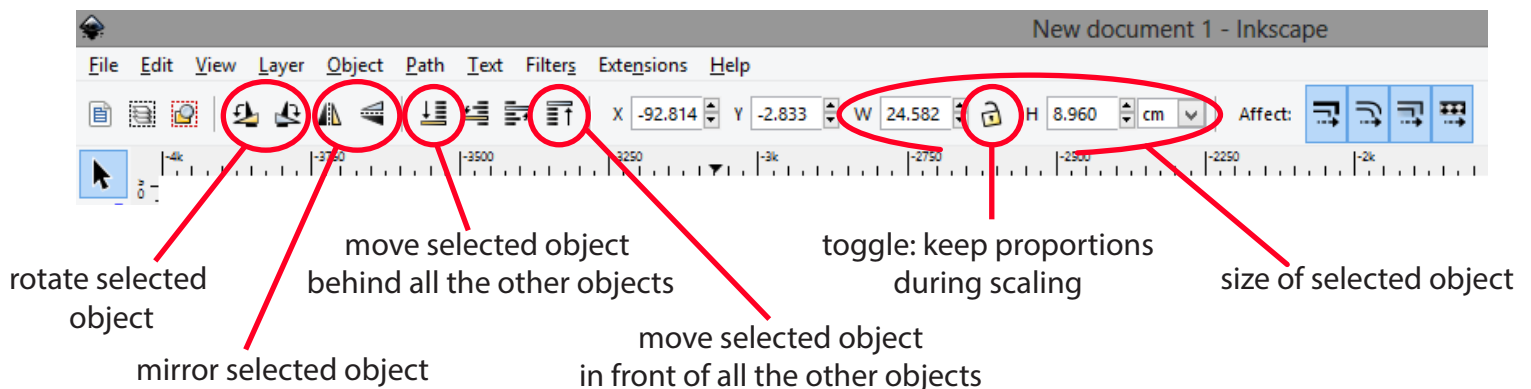
type text

color picker  
(right mouse button)



the program tells you what  
you have selected ...

zoom in and out



rotate selected  
object

mirror selected object

move selected object  
behind all the other objects

move selected object  
in front of all the other objects

toggle: keep proportions  
during scaling

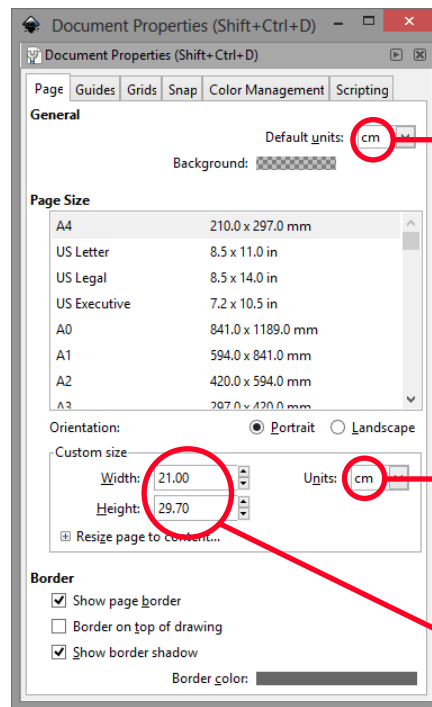
size of selected object

**set up the page size :** menu > file > document properties

[shift] + [ctrl] + [D]

laser cutter : 60 x 30 cm  
[http://wiki.fablab.is/Epilog\\_Mini\\_24](http://wiki.fablab.is/Epilog_Mini_24)

vynil cutter : 58 cm wide  
[http://wiki.fablab.is/Roland\\_GX-24\\_CAMM-1](http://wiki.fablab.is/Roland_GX-24_CAMM-1)



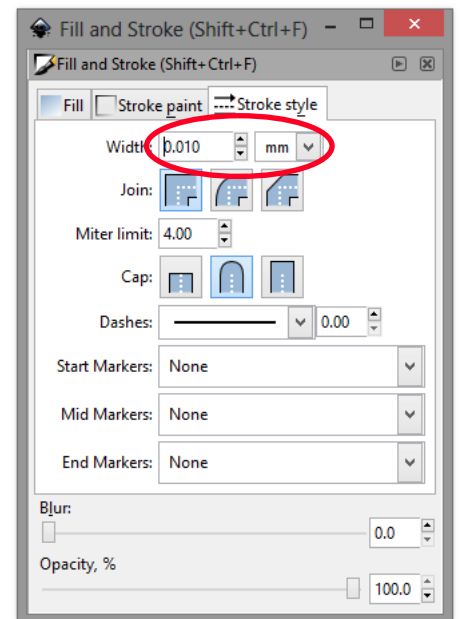
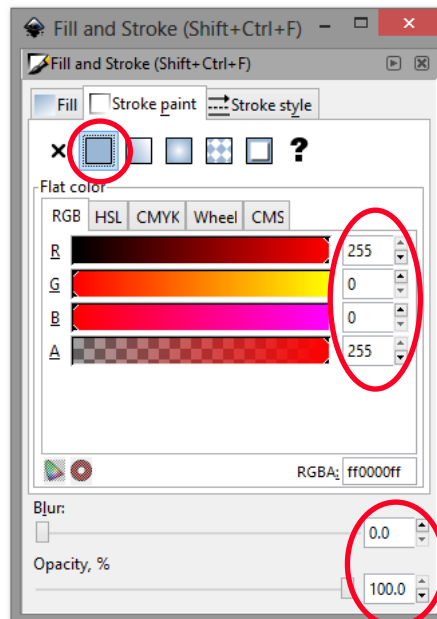
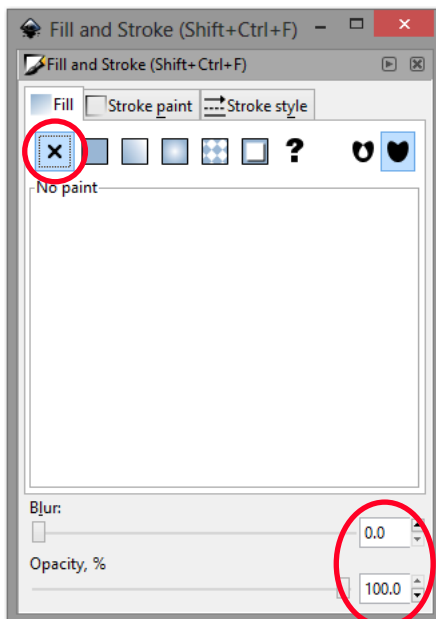
change default units of program

change default units of the page

change page size

**to change the fill or stroke of an object :** menu > object > fill and stroke

[shift] + [ctrl] + [F]

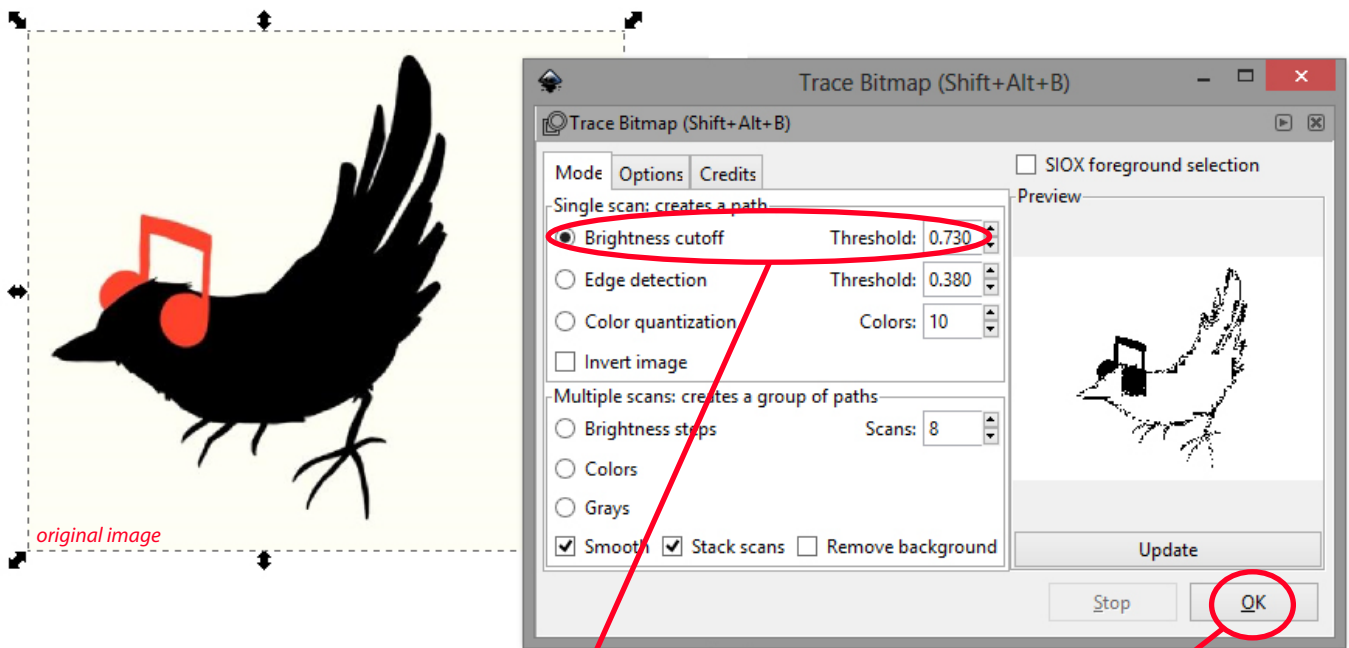


**Laser cutting / Vynil cutting :** no fill > set stroke in red with a linewidth of 0.01 mm.

**Laser engraving (raster) :** no stroke > set fill on black color.

to change image to vectors : menu > path > trace bitmap

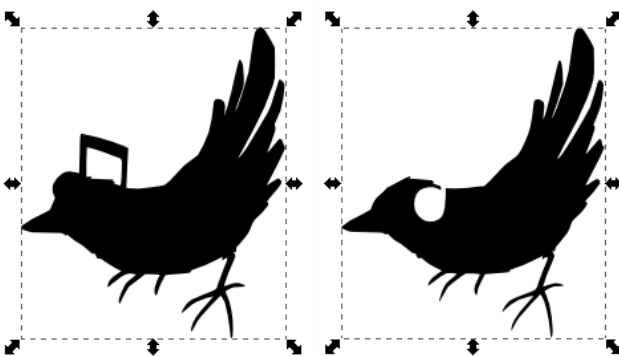
[shift] + [alt] + [B]



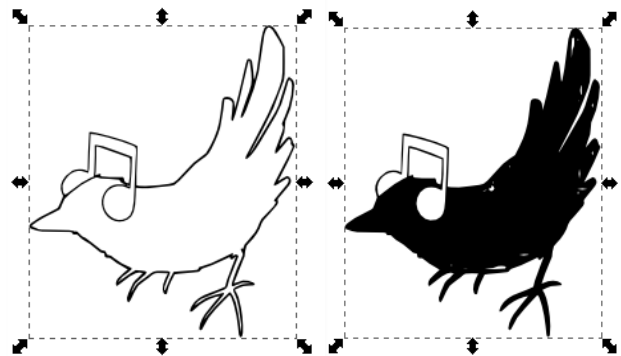
1. select image

2. choose setting and change threshold

3. apply settings to image



**brightness cutoff:** one path (silhouette)



**edge detection:** two path's (lined drawing)

to break an object into pieces : menu > path > break apart

[shift] + [ctrl] + [K]



1. select object and choose 'break apart'



2. deselect objects



3. clean up by using select and [delete]

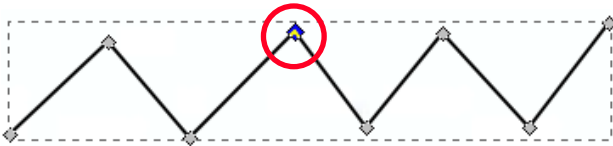
**drawing by hand :**



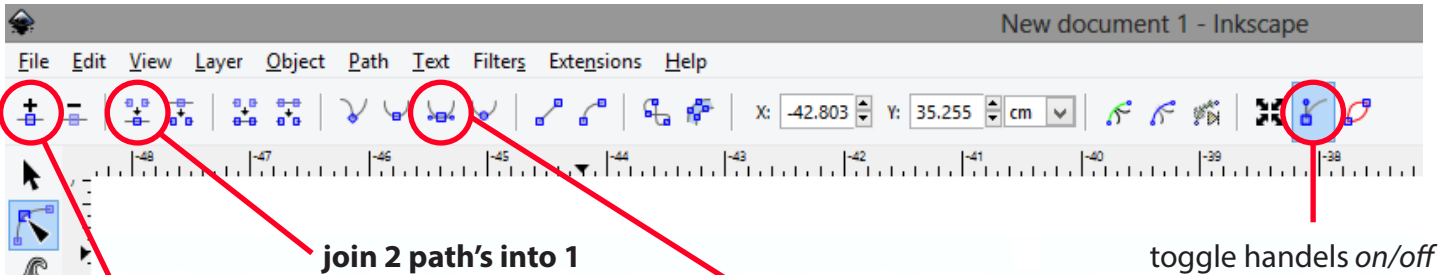
1. click on page to start
2. move your mouse
3. click again
4. continue to repeat step 2 & 3.

use [backspace] on the keyboard if you want to undo a step. use **dubbelclick** to apply drawing to path.

**editing nodes :**



First click on the path you want to edit, then select one or more nodes you want to change.



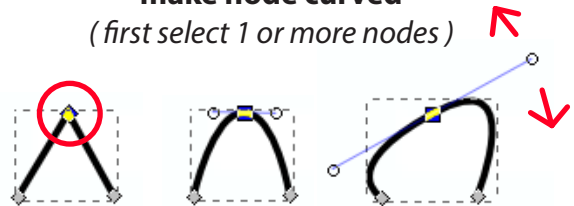
**join 2 path's into 1**  
( first use [shift] to first select the 2 path's then drag over the 2 nodes you want to join )

toggle handels on/off

**add extra node to path**  
( first select 2 or more nodes )



**make node curved**  
( first select 1 or more nodes )



**to get less nodes in the whole object :**

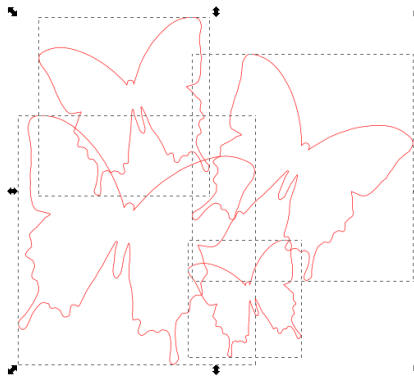
menu > path > simplify

[ctrl] + [L]

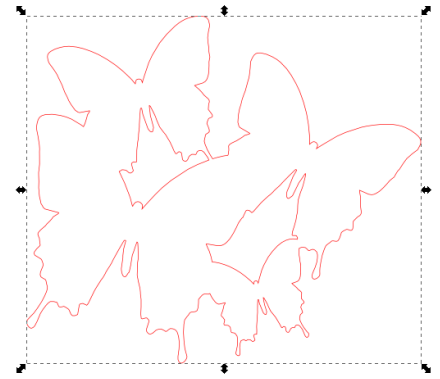
**to join to shapes together :** menu > path > union



1. draw multiple shapes



2. select two shapes or more

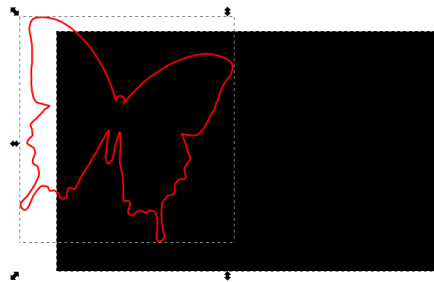


3. choose 'union' to join all the shapes

**to cut out one shape from the other :** menu > path > difference



1. draw multiple shapes



2. select two shapes or more



3. choose 'difference' to cut the shape

**saving as PDF :** menu > file > save as ...

[shift] + [ctrl] + [S]

