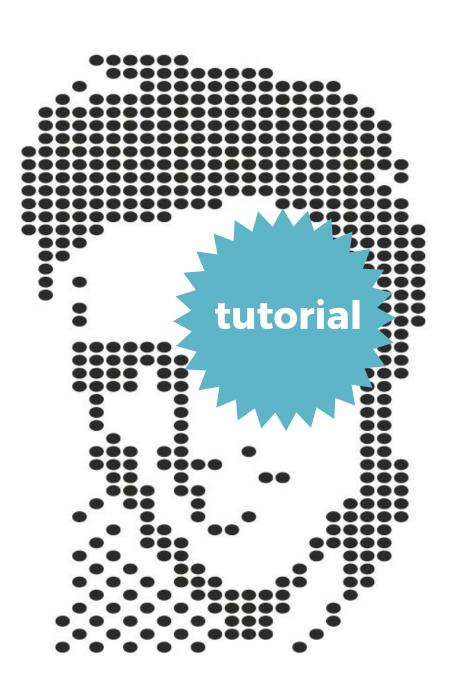
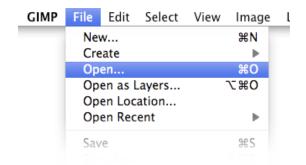
# How to edit a picture with Gimp for Oknitme software





## Open and crop

Open your image from the File menu > Open

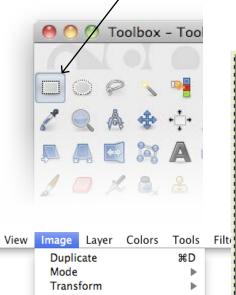


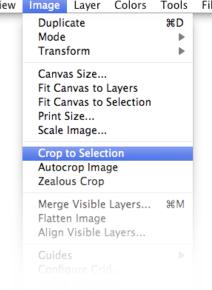


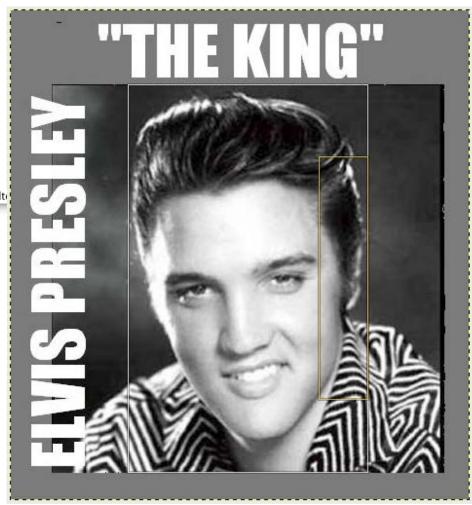
Crop the image excluding what you don't need with

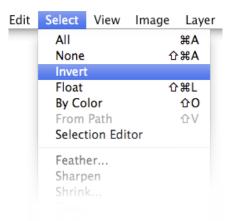
— Rectangular selection tool and the command in the

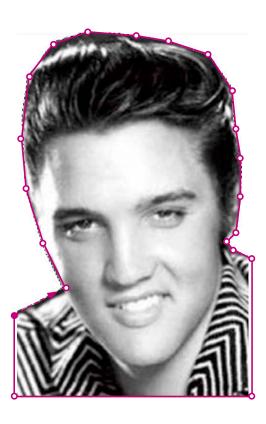
Image menu > Crop to selection







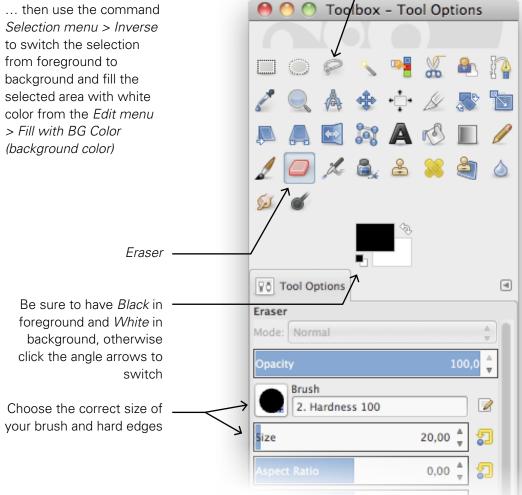




## Clipping

Use *Eraser* tool to delete directly what you don't need, without select. Or select the image quickly with the Lazo tool...

... then use the command Selection menu > Inverse to switch the selection from foreground to background and fill the selected area with white color from the Edit menu > Fill with BG Color (background color)



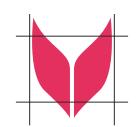
Lazo tool

How can you select and clip at the best? Follow this tutorial on Youtube click here



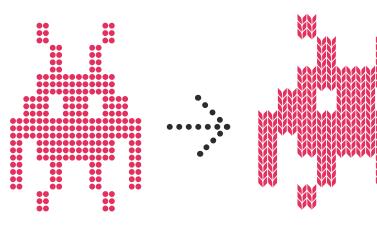
4 Grids





If you take a look at the shapes: the grid of the punchcard has a squared shape but the knitted fabric knit is rectangular.

In order to obtain a proportional illustration on the knitted fabric, we'll have to shrink the width of the drawing before feeding it to Oknitme software.



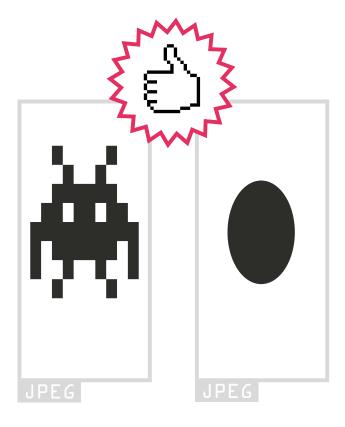




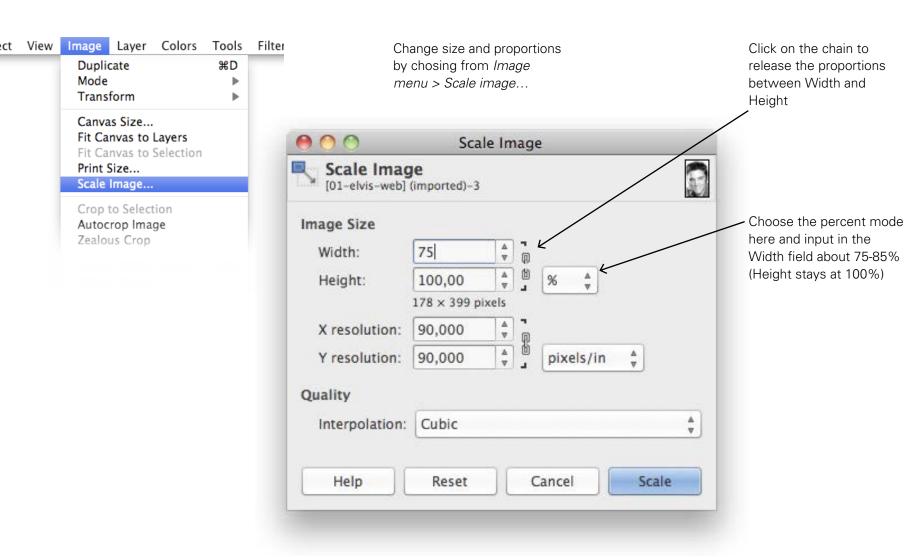


The correct image should be horizontally reduced by 75-85% circa (depending on the thickness of yarn and tension of machine).

Once you knit the jaquard image using the punchacard, the illustration will reach correct proportions.



## **Shrink imge by changing proportion**





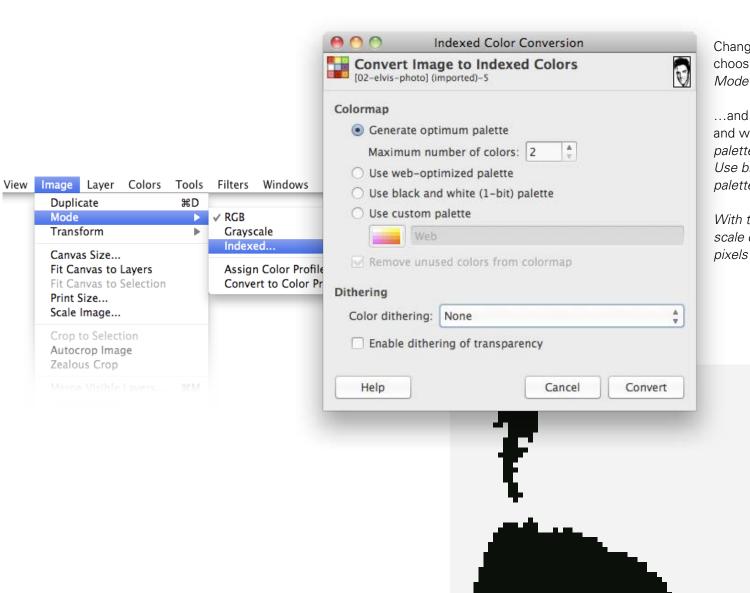
#### **Contrast**

Contrast the picture using the *Colors menu >* Brightness and Contrast





#### **Convert to Indexed**

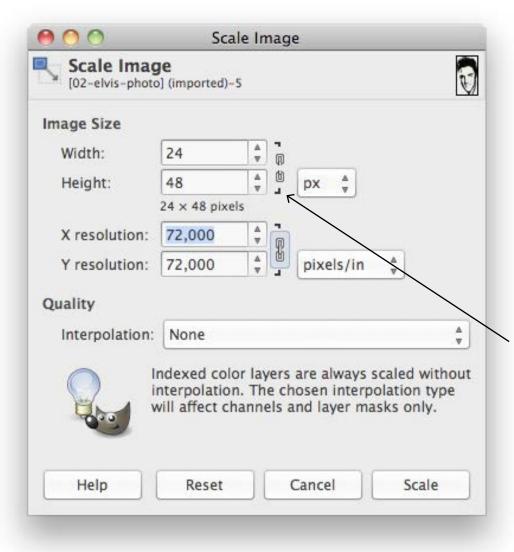


Change image mode by choosing *Image menu > Mode > Indexed...* 

...and input 2 colours (black and white) in the *Optimum* palette or choose Use black and white (1-bit) palette

With this command Grey scale or other RGB shade pixels will disappear

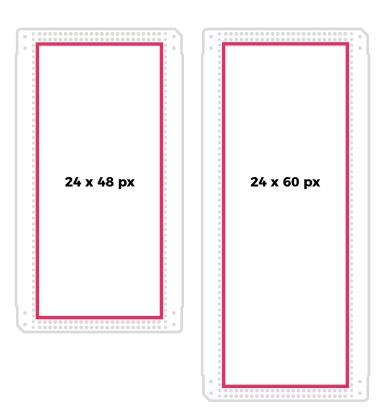
## **Scale image**



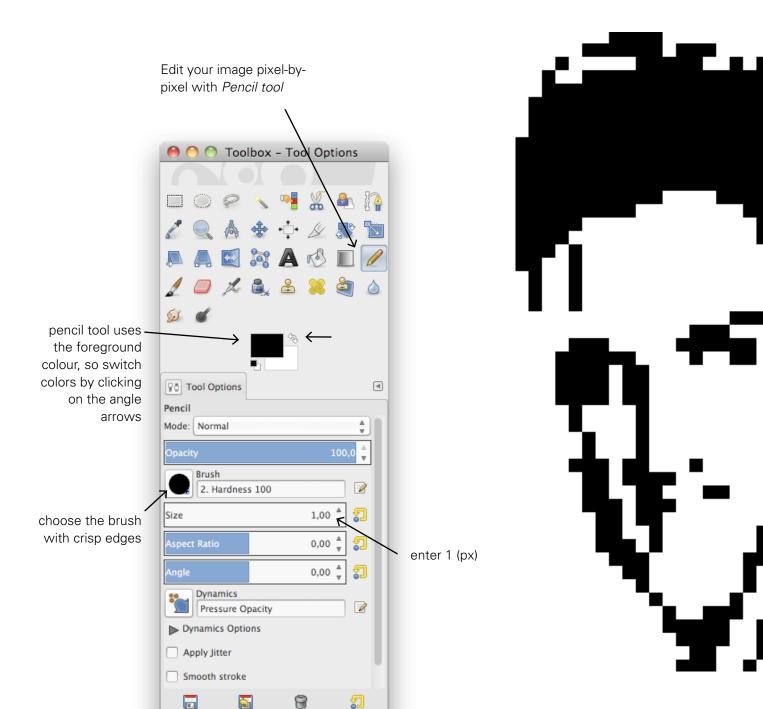
In the *Image menu* > Scale image

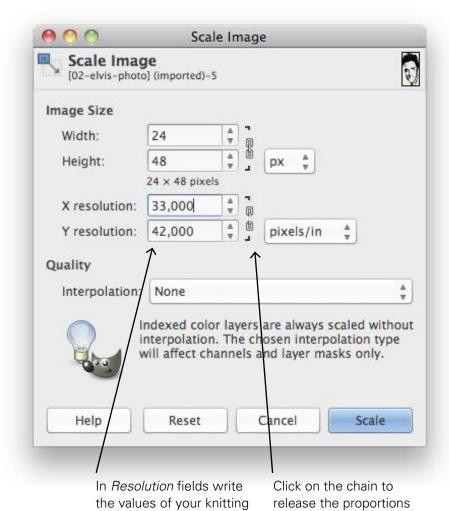
resize image to fit the size of the punch card: input 24 pixel (stitches) for width, and 48 or 60 px (rows) for height

Click on the chain to release the proportions between width and heigh



### **Pencil tool**





gauge sample: for eg here

I entered 33(X) and 42(Y) because I have 33 sts for 42 rs, in 10 cm (4 in)

between width and heigh

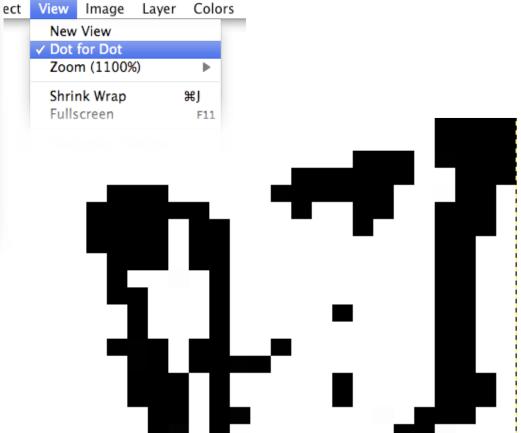
### **Rectangular pixels**

If you want verify your project, you can change pixels from squared shape to rectangular.

This step is just a mode to visualize your image, that you can activate or de-activate with the command *Dot for dot* in the *View menu*. Actually Gimp will export an image with squared pixels, correct to be processed with Oknitme software:

in the *Image menu > Scale image (Resolution fields)*, write the width and the heigh of your knitted swatch (or the proportion between width and heigh)

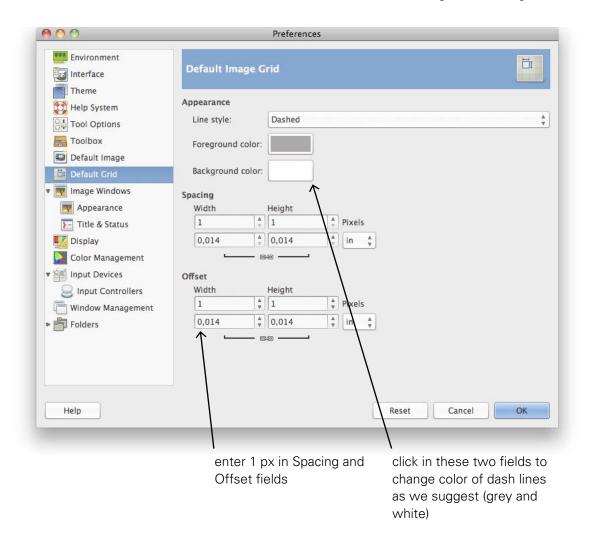
then in the *View menu*, uncheck the command *Dot for dot:* now pixels have a rectangular shape

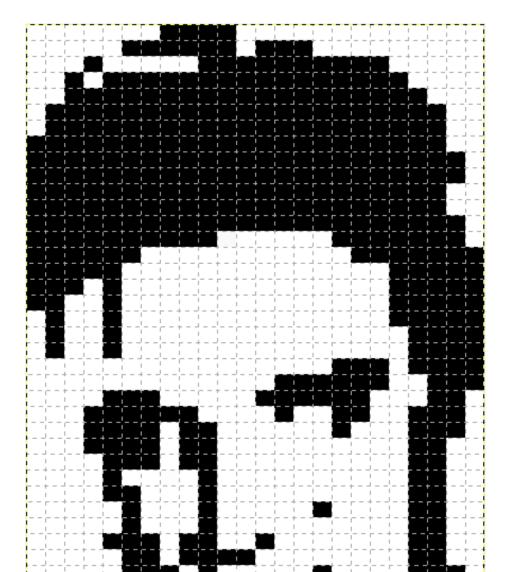


## **View grid**

You can better count pixels displaying the *Grid* in the *View menu*. You can also change the Grid viewing mode from *Gimp menu > Preferences*. In the left column click on *Default grid* and change the values as we suggest

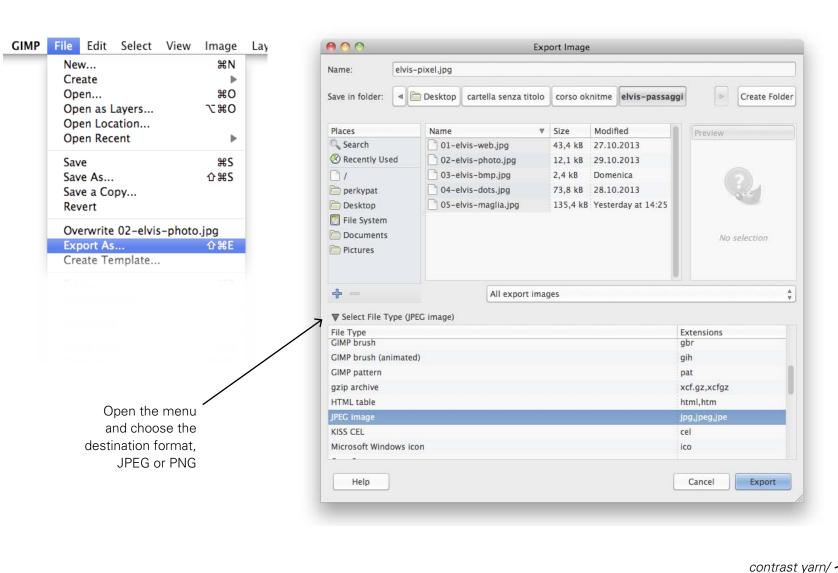
In some versions of Gimp, you need restart the software to view the changes of the Preferences panel





#### **Export as**

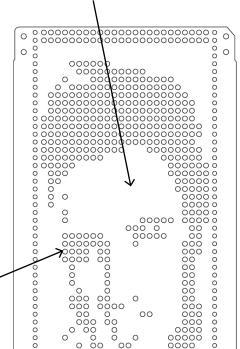
When you are happy of the results, you're ready to save the image in *File menu > Export as...* and choose JPEG o PNG format



Remember that white pixels correspond to full spaces in punch card, so white will be the main/background color in the knitted fabric. Black pixels (holes in punch card) will be the second/contrast color in the knitted fabric.

If you prefer, you can switch main-to-contrast color before Export and quickly obtain a negative image with the command: Colors menu > Invert

main yarn/white pixels



black pixels

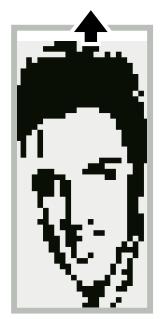
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## **Upload image**





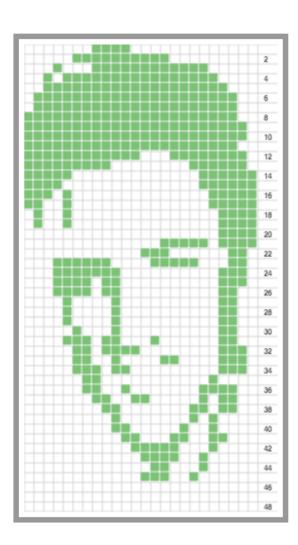
Upload your image from Oknitme home-page using *Browse here* (or drag and drop on the dotted box)



Push the *Do the magic* button to see the transformation.
The image becomes a squared grid

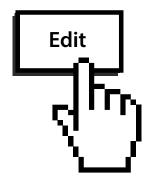
Do the magic

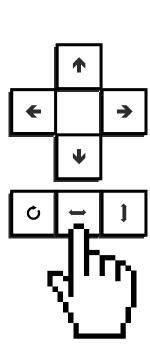




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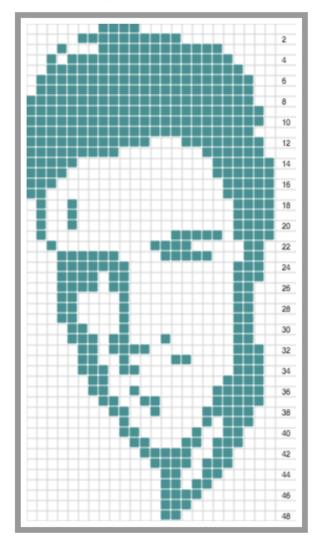


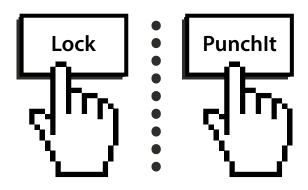




If you want to make some changes, you can edit the grid pressing on *Edit:* 

you can add or delete dots or move, rotate e reflect the whole image

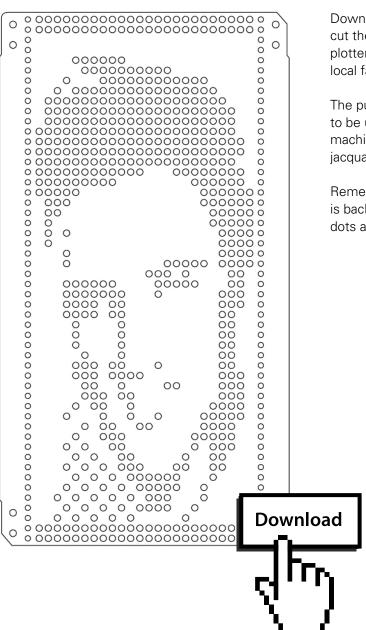




When you are happy with it, save it with the *Lock button* and click on *Punch-it* to create the digital punchcard

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#### Download, cut, knit



Download the SVG and cut the punchcard using a plotter or lasercut in your local fablab

The punchcard is ready to be used on the knitting machine to create a jacquard piece

Remember that the plain is background color and dots are contrast color



a workshop by Claudia Scarpa perkypics.tumblr.com ratatatata-milano.tumblr.com

at WeMake via Stefanardo da Vimercate 27/5 20128 Milano www.wemake.cc



