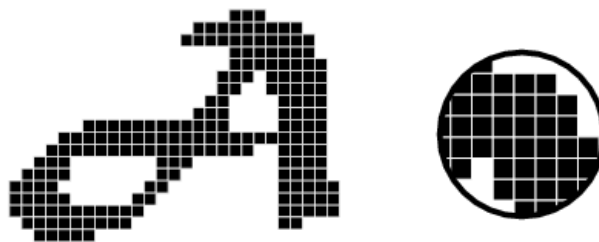


Lessons

BIT MAPS

BIT MAP

It is an image or representation consisting of ROWS and COLUMNS of DOTS.



The DENSITY of the DOTS is known as the RESOLUTION.

The RESOLUTION of an image determines how SHARPLY the image is represented.

The RESOLUTION is expressed in DPI (Dots Per Inch).



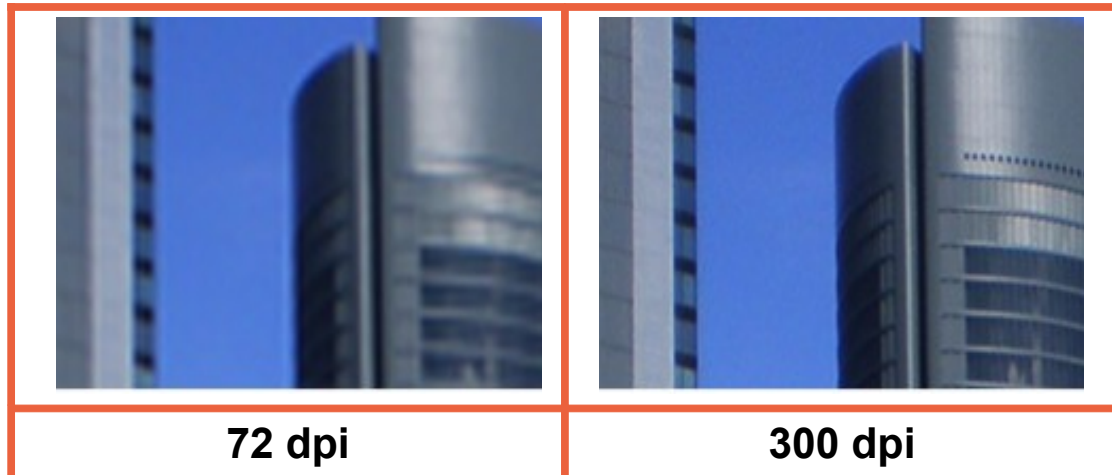
Usually, internet images have a 72 dpi resolution.

For PRINTING IMAGES you will work with a 150 dpi resolution.

For the PRINTING PRESS you will better work with a 300 dpi resolution.

Lessons

Take a look at the following pictures:



Both pictures have the same size

BUT

ONE of them is sharper than the other one

BECAUSE

THIS ONE has a RESOLUTION of 300 dpi instead of 72 dpi

PhotoShop, Corel Photo Paint, Paint, Gimp,... all of them are software to EDIT BIT MAPS.

We will work with **GIMP**



You can **DOWNLOAD** it for free at:

<http://www.gimp.org>

Lessons

Exercise 1

1st STEP

MODIFY 3 BIT MAPS with different size



These 3 BIT MAPS are the SAME picture

But they have different RESOLUTION

2nd STEP

CREATE a NEW text document with OpenOffice or similar

Insert your 3 modified BIT MAPS and MATCH them with their own RESOLUTION

Finally EXPLAIN 2 things:

- 1. Which tools do you have used and why?**
- 2. What differences did you find EDITING in each RESOLUTION?**




DO THIS

In a TABLE of 4 ROWS and 3 COLUMNS

YOU HAVE TO

CHECK the NAMES of the GIMP TOOLS

Lessons

		
<p style="text-align: center;">72 dpi</p>	<p style="text-align: center;">150 dpi</p>	<p style="text-align: center;">300 dpi</p>
<p>To modify this picture I have used:</p> <ul style="list-style-type: none"> - CLONE tool to paint over the building (columns) to make it disappear. I have put bushes instead of the building. 	<p>To modify this picture I have used:</p> <ul style="list-style-type: none"> - LASSO tool to select the car to the left. - BUCKET FILL to paint the car with an orange colour. I have applied the color with a transparency degree. 	
<p>This BIT MAP has the lowest resolution and it has a poor quality but I was able to modify it quickly.</p>	<p>This BIT MAP has a good resolution and the editing process can be more accurate.</p>	

3rd STEP

UPLOAD your TEXT document into the MOODLE to be checked by your teacher.