

What is your image resolution?

Description

In the digital scrapbooking world, there is often a question of resolution. You create papers or elements and if you are going through a quality check process, you are asked to have all the elements at 300 pixels per inch (ppi). But why?

Yes, the question is a legitimate one because sometimes, we think in terms of inches or centimeters and our programs are set in pixels. THAT is what makes a difference but that is where the difference stops.

Cross-stitching and resolution

Let's look at cross-stitching. If you purchase a pattern, you will have a drawing to indicate how many stitch you should do using a particular color, and how many of another color. Whether you print the pattern on a large paper or a small one, the pattern will not change, will it? If i want to work on a thick and heavy fabric, my individual stitches will be larger than if you want to work on a fine fabric, right? Yet, we are using the exact same pattern yet, i might end up with a much larger end result than you. The pattern only mentioned the absolute number of stitches and has no size in itself.

Resolution and pixels

Digital pixels are just like those patterns. If you are working on an button that is300 pixels wide, you can zoom in and see those 300 pixels take all your monitor space, or you can zoom out and it is barely visible. Yet, that is still 300 pixels and has nothing to do with the resolution. Having 300 pixels will not dictate whether that button is 1 inch or 4 inches. So if you are going to place your button on a 3600 pixels page, it will still take up only 1/12th of the width of the paper, whether it is set at 300 ppi or 72 ppi.

72 ppi or 300 ppi?

However, the resolution will tell you how large the element will be based on the output device you will

be using. Normally, printers will be able to print 300 pixels in one inch, so that 300 pixels button will be one inch if i print it on my regular printer. However, if my printer is set to print at 72 ppi, it means it will only print 72 pixels in that one inch, so my 300 pixels button will need almost 4 inches to display all those pixels. That is where it will make a difference.

Monitors vs printers

Why did i mention 72 ppi? That is the resolution of the monitors you are probably using. Although printers can fit 300 pixels in one inch, monitors can only display 72 in the same space. If you were to create a full page layout and use it as a wall paper, it will be much larger than you need, even if you have a large monitor. Taggers will create supplies to be used mainly on the computer to create signatures for example, so they don't need a large number of pixels for their elements. Their full size papers are usually around 1000 pixels, which, at 72 ppi resolution (on a monitor) will be plenty. On the other hand, if you are to use a tagger size kit and create a layout to print it, you will end up with a tiny page since i will end up just a bit more than 3 inches because overall, you have fewer pixels in those sizes (remember that printers will fit 300 pixels in each inch)!

Now, what if you have a 300 pixels button but notice that the resolution, in your program says it is set to 72 ppi? Can you still use it? Of course. Remember that in your program, a pixel is a pixel and has no physical size.

Look at the buttons below. They are both 300 pixels but with a different resolution. Don't they look the same? Of course they do.

🖬 Image1* @ 100% (Raster 1)	Current Image Information	
	Image Information Creator Information Wate Source file File name:	mark Information EXIF Information
	File type: Image	PaintShop Pro
	Dimensions:	294 x 300 Pixels 4.083 x 4.167 Inches
	Pixels Per Inch:	72.000
	Pixel depth/colors: Status Has been modified:	HGB - 8 bits/channel Yes
	Has a selection:	No
	Number of layers:	1
	Number of alpha channels:	0

● Image3* @ 100% (Raster 1)	Current Image Information		
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	Source file		
	File name:		
	File type: PaintShop Pro		
	Image		
	Dimensions: 294 x 300 Pixels		
	0.980 x 1.000 Inches		
	Pixels Per Inch: 300.000		
	Pixel depth/colons: RGB - 8 bts/channel		
	Status		
	Has been modified: Yes		
	Has a selection: No		
	Number of layers: 1		
	Number of alpha channels: 0		

The top one is set at 72 ppi, while the other one is 300 ppi, but they are both 300 pixels. Is one clearer than the other? Is one more blurred than the other? No, they are identical. Not just close to the same, they *are* identical. However, what difference do you see? The first one says that it will take 4 inches to print, while the second one will be just about 1 inch. That confirms that neither one is better quality than the other. A pixel is a pixel and these buttons are both 300 pixels.

What size should i use?

What does it mean in the end? Simply that if you plan on printing a paper or an element, calculate the number of pixels you will work on based on 300 ppi. If you are working for displaying on a monitor, calculate based on a 72ppi. You don't like calculations? Here is a little guide for you for different elements you might want to create.

	300 ppi	72ppi
12 inches full page	3600 pixels	864 pixels
1 inch button	300 pixels	72 pixels
4x6 inch frame	1200x1600 pixels	288x432 pixels
5x7 inch frame	1500x2100 pixels	360x504 pixels
2x3 inch journal cards	600x900 pixels	144x216 pixels

1/2 inch brad	150 pixels	36 pixels
12x1 inch ribbon	3600x300 pixels	864x72 pixels
1-2 inch alpha	300-600 pixels	72-144 pixels
3 inch flower	900 pixels	216 pixels
1.5 inch tag	450 pixels	108 pixels

Date Created May 15, 2014 Author myclone