**UNIT 11 wk3**

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| **File type and settings** | **File size** | **Comments on quality etc.** | **image** |
| PSD (no changes) | 5.43 MB | High quality image. |  |
| JPG (100% Quality) | 687 KB / 704.162 bytes | File size drops, image uses less colors which makes it looked smudged. |  |
| JPG (50% Quality) | 119 KB / 122.826 bytes | File size drops, not much difference from 100% and very hard to spot changed |  |
| JPG (20% Quality) | 64.1KB / 65.708 bytes | Smaller file size, image looks similar but very blocky when you zoom in |  |
| PNG (24 bit) | 1.47 MB / 1,543.335 bytes | File size increased, photo looks in-between jpg 100% and 50%. There is no big pixels appearing(blocky). There is not much smudge of color |  |
| GIF | 497 KB / 509.180 bytes | Areas of the photo look like they have been compressed. As you zoom in you can see loss of quality, lots of pixels (blocks) appearing Aswell as multiple shaded of color. |  |

**Using the original image again.**

Resize the image in a number of ways, and make notes in a copy of the table below.

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| **Size and Filetype** | **File size** | **Comments on Quality etc.** | **image** |
| PSD (500 x 500) |  |  |  |
| PNG (500 x 500) | 495 KB / 507.247 bytes | File size is compress by 1mb just by adjusting the size of the image. Photo looks similar as before, once zoomed in you can start to see pixels and different shaded of color. |  |
| GIF (500 x 500) | 143 KB / 146.754 bytes | Due to compressing the image size, the file size has also decreased. You can tell right away it has been compressed, a lot less use of color which results in more smudges. Photo is still clear but very much difference from original. When zoomed, image appears very pixelated and smudged. |  |
| JPG 100% (500 x 500) | 100% 252 KB / 258.419 bytes  Lowest quality % drops to 17KB | Better quality than GIF and this jpg has a less smudge compared to Png.  Image looks quality isn't decreased much from 1000x1000 jpg 50%. |  |

Using the original Image, make some changes as follows and discuss the results on the final image. Make a copy of the table below.

***Photoshop – Image - Adjustments***

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| **Changes made** | **Effects** |
| Adjusting brightness and contrast | Low brightness low contrast, photo is very dark, still noticeably clear when zoomed in, not pixelated, or smudged. The bit depth remains the same. File size = 1.21 MB, origin was 5.43 MB, reducing brightness and contrast has a big decrease on file size.  High brightness, sharp contrast. This makes the image look very vibrant and make u think they have used less but brighter colors. The areas of the photo look more smudged with less use of color shaded. although Image does not look pixelated it looks very smudged. File size= 1.27 KB,higher than poor brightness and contrast but much less than original I think due to color depth |
| Adjusting Hue/Saturation settings | Low hue and saturation makes the image a monochrome of only 2 colors (black and white.) quality of the image looks the same, no pixelated / smudged areas. File size, which was originally 5.43 MB drops drastically to 773 KB  High hue and saturation contrast to low which gives our image an extremely high rgb overall color with a few other shades. The main colors displayed are red and blue alongside other shades. file size has decreased from 5.43 MB to 1.31MB. |
| Adjusting Color Balance settings | You can use this color balance scale to make your image have an overall shade. If you try to increase all values to poor or high like this example below:    This will make your image go back to the original. Which will allow the image to keep the same file size and resolution. |
| Inverting the image | To the left is the image I received when I inverted the image. The effect taking place in the invert tool is: photoshop is flipping your colors from RGB to CMY. This links with the color balance settings. If my image was on red 50 green 25 and I invert the image with this tool, I will result in cyan -50 and green –25. Using this effect dropped out file size from 5.43 down to 1.46 MB |

***Photoshop – Image – Mode***

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| **Changes made** | **Effects** |
| Greyscale | Applying greyscale to your image gives you the same result as low hue and saturation. Once again, the image uses a very low color bit depth which gives a monochrome image. Applying this effect has dropped the image file size down by 4.6 KB |
| CMYK |  |