

Achieving Black and White in digital photography

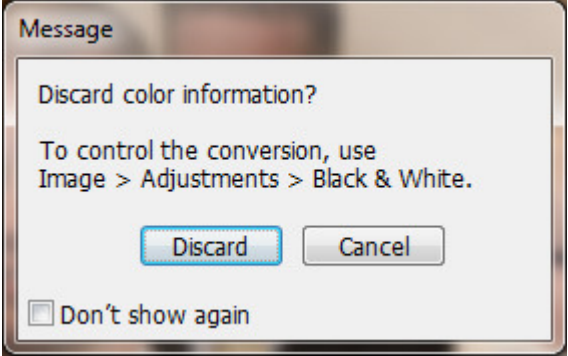
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This is an abstract of the various ways of achieving a BW result in Photoshop.

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	<p>Traditional black and white films all differ in the way they respond to the visual spectrum. This gives each emulsion its own particular characteristics. This conversion from a full colour spectrum to monochrome can be replicated in digital capture.</p> <p>Always capture in colour and preferably in RAW before converting to monochrome you can achieve more control.</p>	
Simplest	<p>Converting a colour image from RGB to Grayscale averages out the tonal values of the three channels to produce a continuous grayscale. For the technically minded the conversion in Photoshop consists of blending 60% of the Green Channel with 30% of the Red and 10% of the blue.</p> <p>The same is true in LAB mode or by the use of desaturation. It works but it limits the creative quality of the result.</p> <p>Summary:- Grayscale in Image mode</p> <p>Discards colour information.</p> 	<p>Only control of exposure or contrast with exposure, levels and curves. Try invert to see amount of detail in shadows.</p>

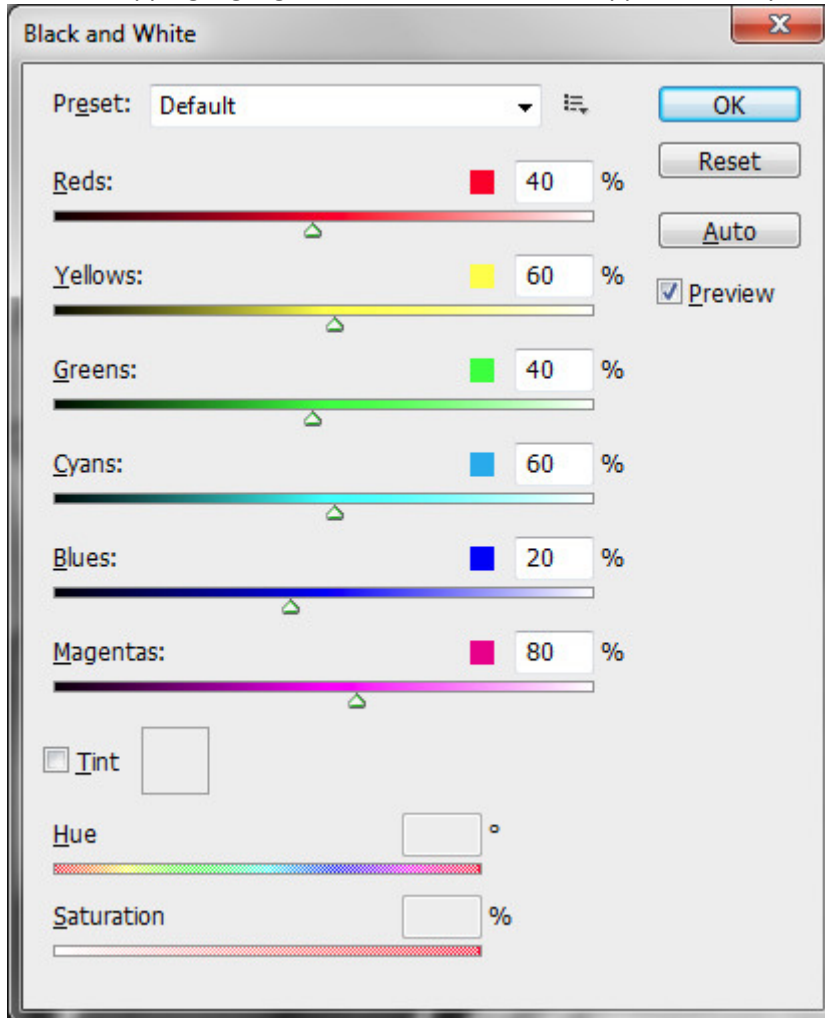


Black and White

BW Adjustment Layer

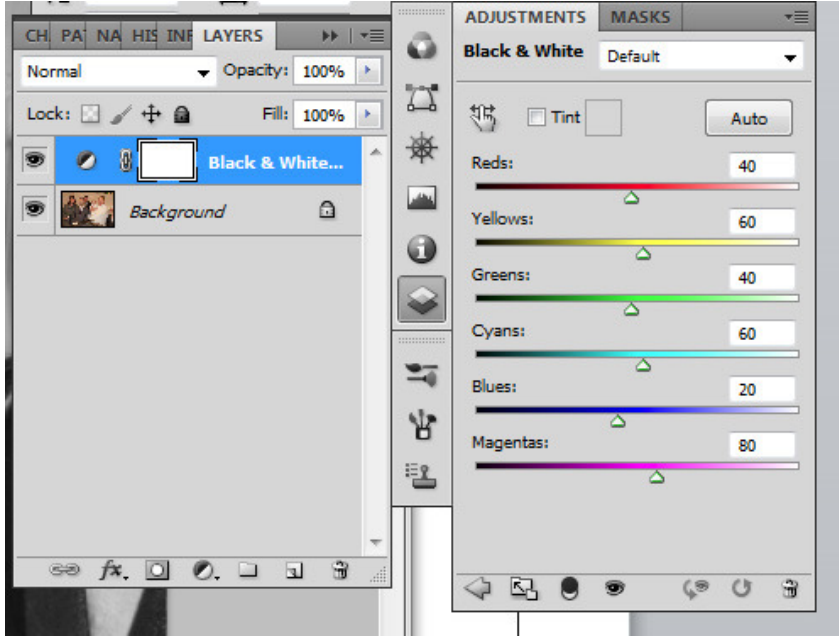
The RGB image contains three different grayscale versions which can be blended together in different ways. One of the best ways is with the BW adjustment layer. It manages to preserve image luminance without clipping highlights or shadows. It can be applied directly

Colour adjustment Tinting



or by an adjustment layer. I find more flexibility with an adjustment layer. This allows the use of blending modes to control image output.

There are many pre-sets to select from.

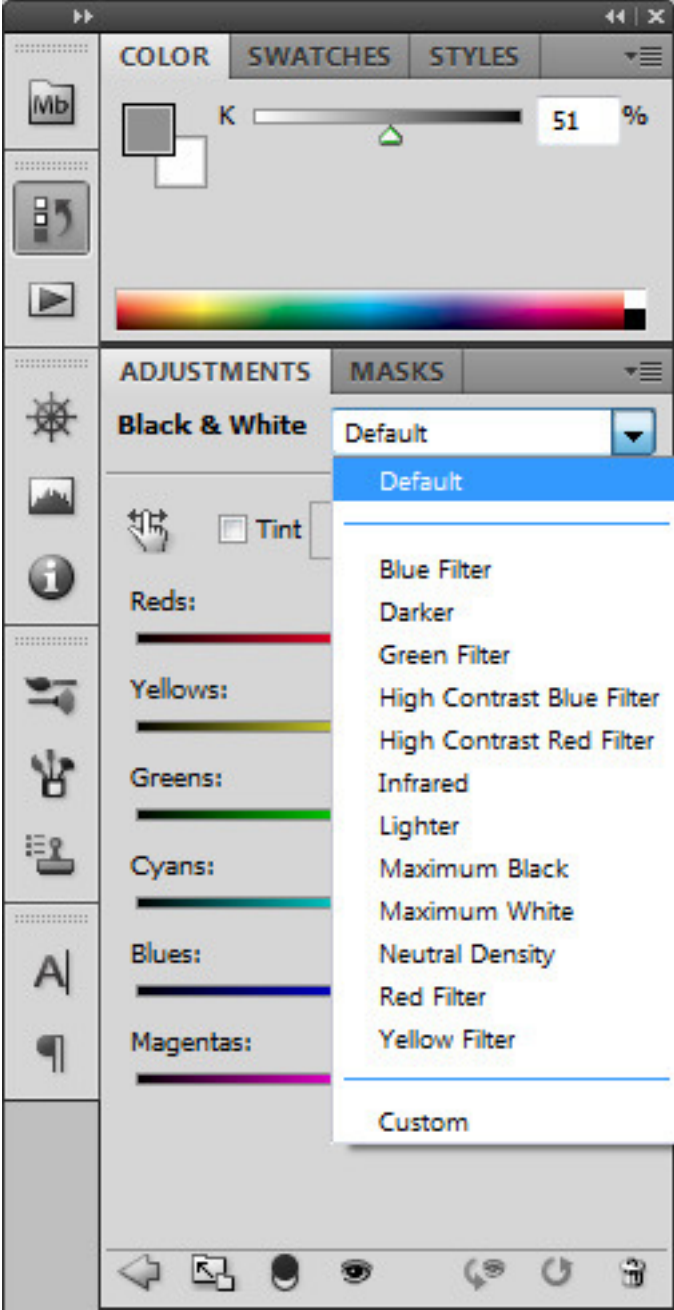


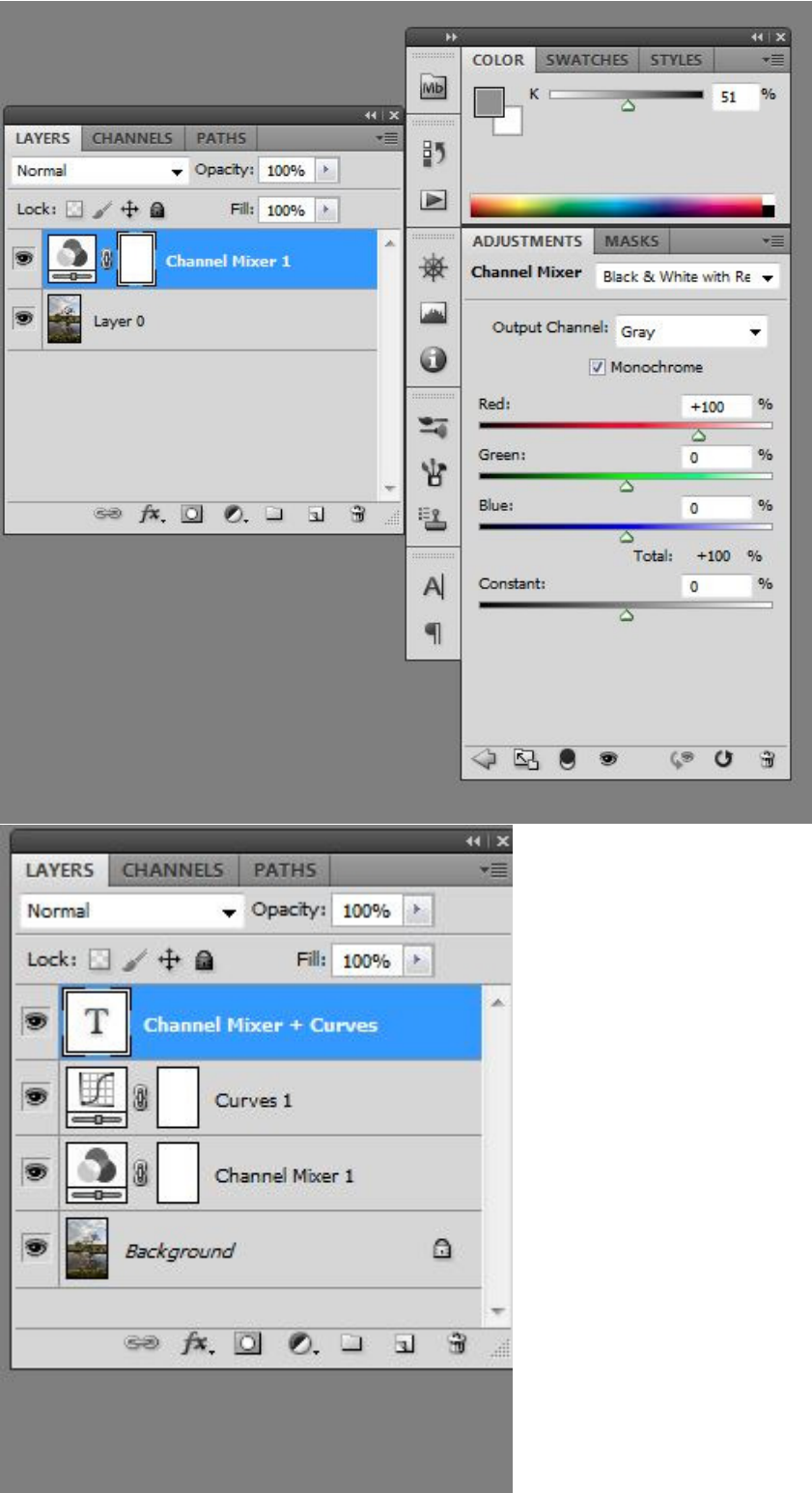
Try the auto setting. If not satisfied then manually adjust. Or use the target adjustment mode button.



Use the black and white adjustment presets or you can make own and save for future use.

Clicking on default resets to zero.

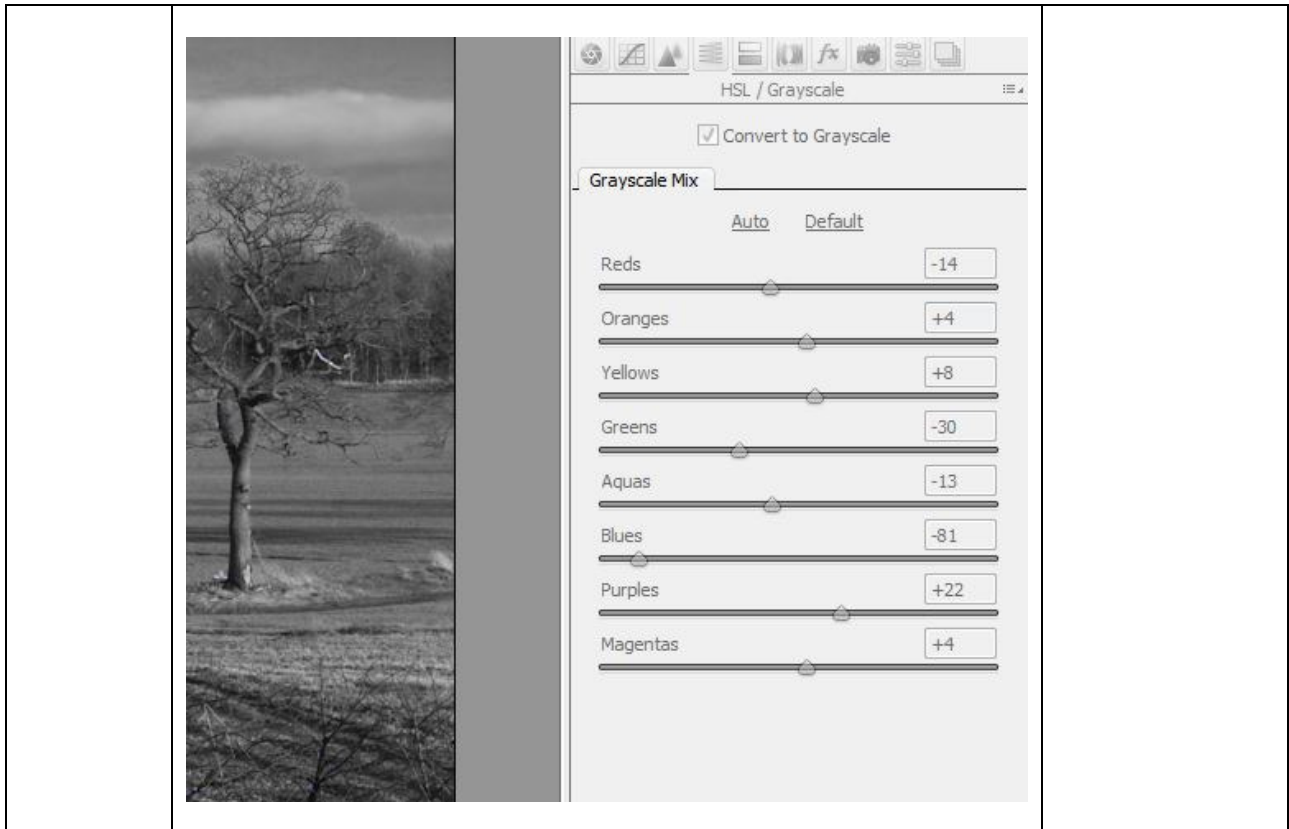
		
<p>Channel Mixer adjustment layer</p>	<p>Add channel mixer adjustment layer. Check monochrome box. Less control with sliders.</p> <p>Channel Mixer and an adjustment curve</p>	

		<p>Channel Mixer Control of colours</p> <p>More flexibility</p>
<p>RAW Convertor</p>	<p>HSL/Greyscale/Spilt tone</p> <p>A good method of conversion. Comes in as a Greyscale image. Can only convert RAW, JPEG or TIFF (flattened layers)</p>	<p>Use of colour sampler to keep in range of print material.</p>

Adjustment layers are restricted when you import into Photoshop.
Convert to RGB if you wish to tone

Camera RAW provides you with sliders to adjust in between colour ranges such as oranges, aquas and Purples. Orange useful for skin tones. Aquas useful for water tones.



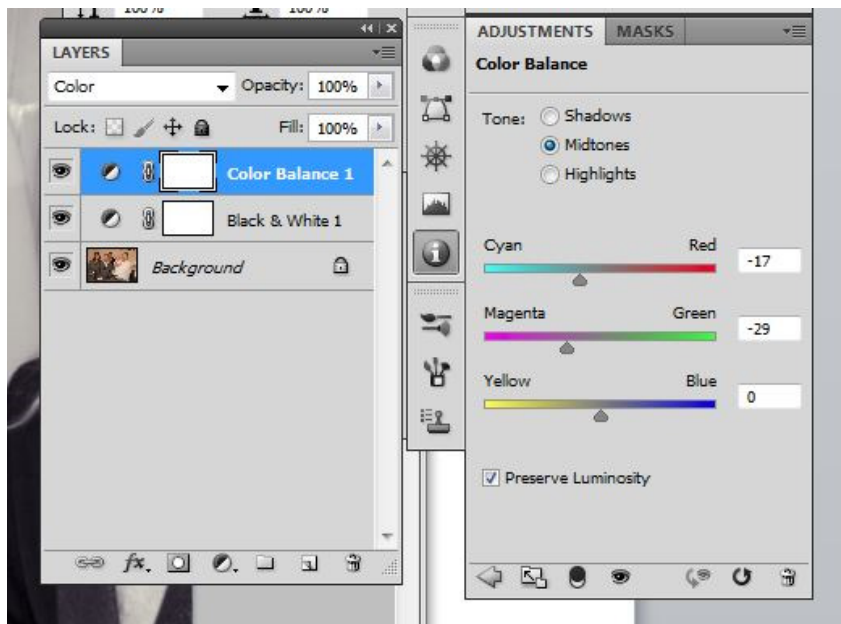


Split Toning

Tinting is available in BW conversion. Split toning is an enhanced way of tinting an object. Used for tinting when Black and White adjustment method has been used for BW conversion of a colour image.

Using this technique you can simulate warm or cold paper for example. (Purchase effects)

Note:-
Use Colour Blend mode – use when applying a colour adjustment layer. Luminosity is maintained in image.



Papers	Glossy or Matt – Setting up the printer – if toning image you will ,have to use normal cartridges. Lyson (distributed by Marrut) produce dedicated BW ink sets and profiles.	Achievable Dmax
	Silver Halide Traditional Process.	