

ART 223 _ INTRODUCTION TO DIGITAL PHOTO

CONVERTING COLOR IMAGES TO B/W and GRAYSCALE

STRAIGHT (BIT MAP / HIGH CONTRAST) B/W IMAGE

- A. Use threshold command
 - Can adjust threshold command with slider
 - Can threshold specific areas
 - Can adjust with levels (with selections) then threshold

GRAYSCALE TECHNIQUES

- A. CHANGING THE COLOR MODE
 - IMAGE > MODE** (from either RGB or CMYK > Grayscale)
 - 50% red, 30%Green, 11% blue channel for final color.
 - look at individual channels in channels window.
 - saves a lot of space the user has little control over outcome.

- B. USING the CHANNELS TAB
 - Choose the Channels Tab (often located next to the Layers Tab)
 - Select one channel from your image and make the other channels invisible. After choosing the desired channel you may delete other channels (use **Delete Channel** function under the tribar menu in the upper right of the Channels Tab header).
 - Alternatively, you can use the **Split Channels** function to a similar result. Simply choose Split Channels under the tribar menu.

- C. USE the HUE/SATURATION COMMAND
 - Choose the **IMAGE** menu option > Goto the **ADJUSTMENTS** command > then use the **Hue/Saturation** command. Move the slider for the **saturation function** to the “0” position. Note that this produces a result similar to changing the mode to grayscale (see A. above) but image is still in RGB mode. The image is still a full color file even though image is grayscale in appearance.

D. USE the CHANNEL MIXER

Choose the **IMAGE** menu option > Goto the **ADJUSTMENTS** command > then use the **Channel Mixer**. In the Channel Mixer window select/check the monochrome box in the lower left of the window. You can then adjust the qualities of your grayscale image using the color sliders in the window.

Note that as with other grayscaling techniques this approach generates a grayscale appearance but the final file is still a color based image (RGB, CMYK etc.)

E. USE the BLACK AND WHITE COMMAND

Choose the **IMAGE** menu option > Goto the **ADJUSTMENTS** command > then use the **Black and White** option. Your image switches to grayscale and may be adjusted by moving the various sliders in the window. Again, the resulting file is still a color and retains its original color mode status (check the mode menu to determine this).

E. USE the DESATURATE COMMAND

Choose the **IMAGE** menu option > Goto the **ADJUSTMENTS** command > then use the **Desaturate** option. As with many of the above translation to grayscale your file retains its inherent color structure.