## COLOR MODELS RGBVSCYMK

## COMPUTER COLOR



## RGB: red, green & blue

- \* It is based on the principles of the additive primaries.
- The additive color model of light (conventional or digital) and is used for all monitors & projection systems.
- # It consists of 256 levels each of red, green, and blue.
- 256 red x 256 green x 256 blue = 16.7 million colors
- It has a range from 0 255 } 0 = black / 255 = white
- 255 red + 255 green + 255 blue is the same as mixing the three primary colors in conventional photography - it makes white.
- % 0 red + 0 green + 0 blue would equal black } the absence of light.

## **COMPUTER COLOR**



- % CYMK: cyan, yellow, magenta & black
- CYMK is used in printing, and is best for color correction of images.
- **\*** It is based on the principles of the **subtractive primaries**.
- In nature, our eyes perceive pigments according to the subtraction color mode. When light strikes an object, it absorbs (subtracts) some of the light and reflects the rest. The reflected light is the color that you see.
- In theory, equal amounts of cyan, yellow, and magenta absorb all colors leaving black.
- In truth, it only leaves a dark muddy gray.
- The addition of a fourth color (K) black is used to increase the depth of the image.

