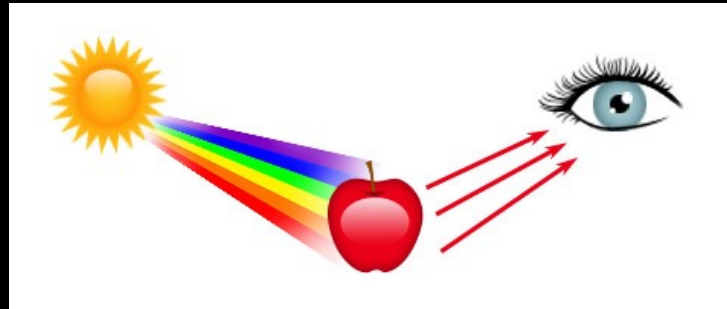


Color and Light

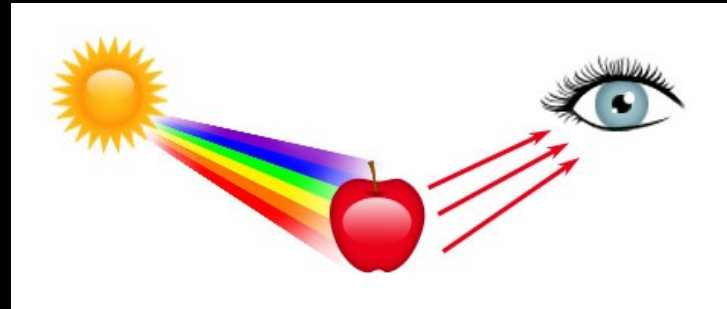


Wednesday, June 22, 2011

We can say that color is basically a matter of light. Without light there's no color. So, how does it work and how can we see colors? First, white light contains all the visible spectrum colors. It means that these colors together, with the same intensities, make the white. The light from the sun, for example, is a white light. We can see that it's made from all the colors in the rainbow, when the sunlight is decomposed.

- The white light from the sun reaches the object.
- All the colors are absorbed, except the red.
- The red is the color that we see.

Color and Light



Subtractive Color

Wednesday, June 22, 2011

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Subtractive Color: mixes pigments



All the colors mixed together make black; this is the process you use when you mix paint, or when you print out a picture.

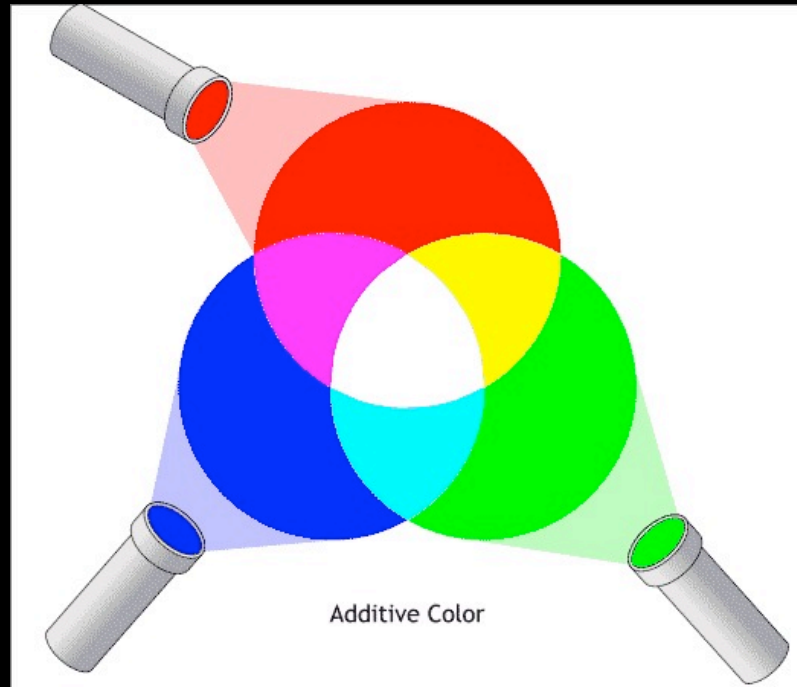
Subtractive Color: mixes pigments



Cyan, Magenta, Yellow, black

All the colors mixed together make black; this is the process you use when you mix paint, or when you print out a picture.

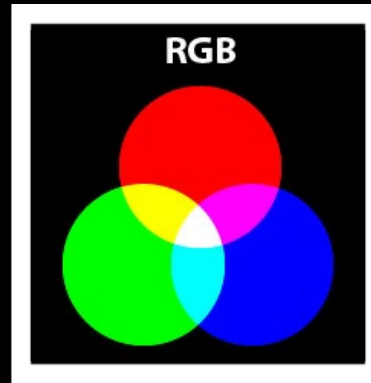
Additive Color: mixes light



Wednesday, June 22, 2011

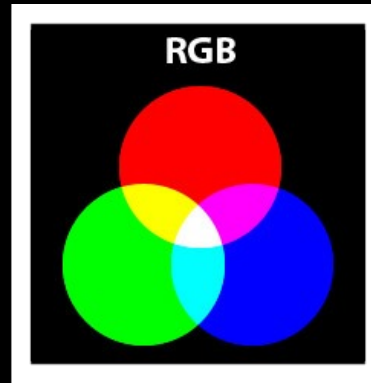
All the colors together make white; absence of color makes black. This is the process used to display color on any device that uses a light source, like TV, computer screen, phone screen, etc. Your monitor, for example, creates color by emitting light through red, green, and blue phosphors.

Additive Color: mixes light



All the colors together make white; absence of color makes black. This is the process used to display color on any device that uses a light source, like TV, computer screen, phone screen, etc.

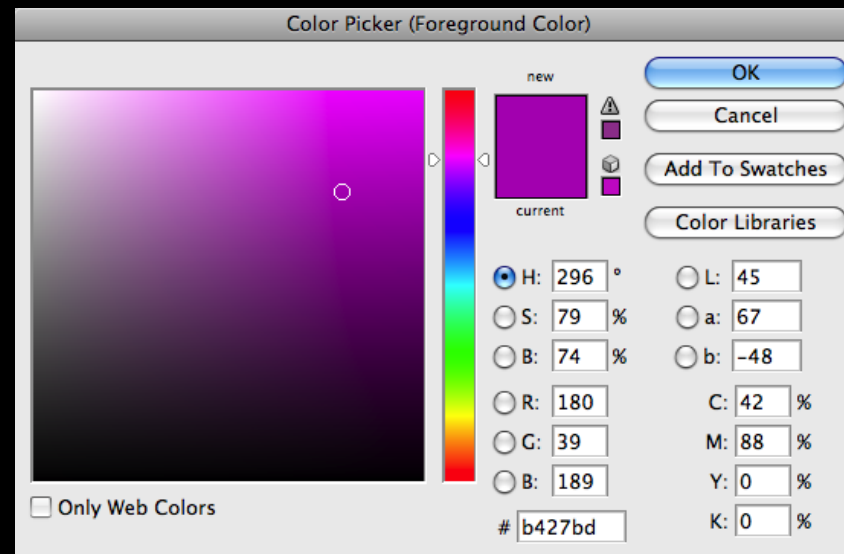
Additive Color: mixes light



Red, Green, Blue

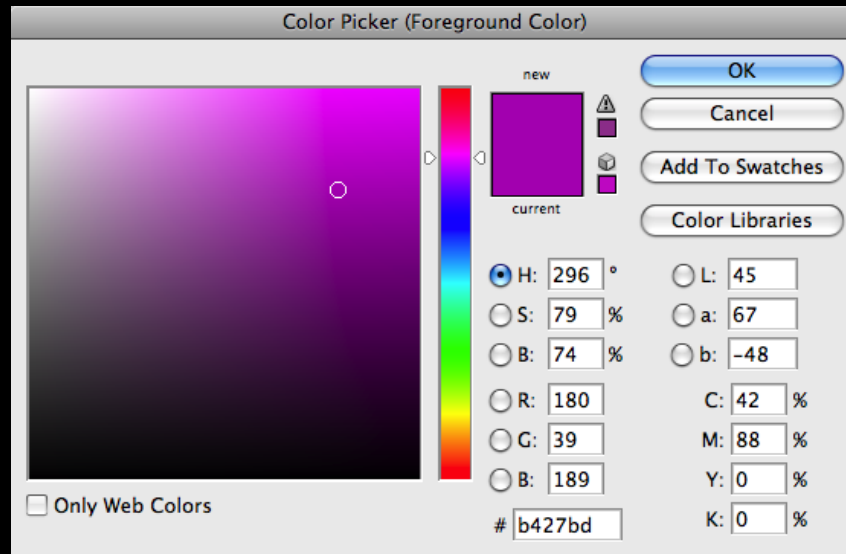
All the colors together make white; absence of color makes black. This is the process used to display color on any device that uses a light source, like TV, computer screen, phone screen, etc.

RGB Color Encoding



Each color is 3 bytes. A byte can be represented by a 2-digit hex number.

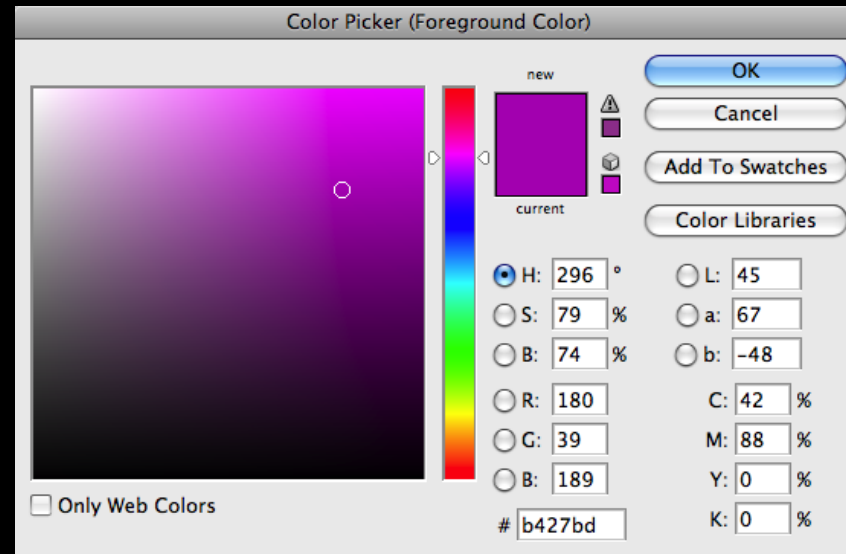
RGB Color Encoding



(180, 39, 189)

Each color is 3 bytes. A byte can be represented by a 2-digit hex number.

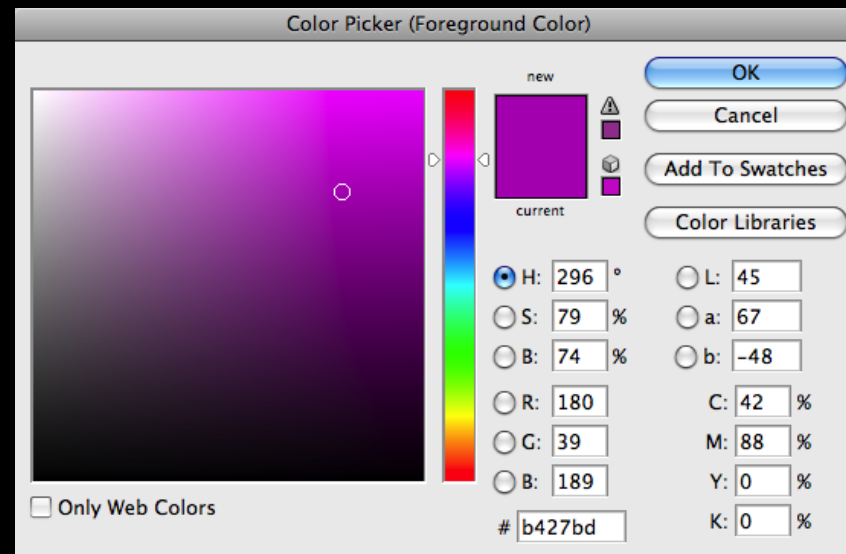
RGB Color Encoding



(180, 39, 189)

Each color is 3 bytes. A byte can be represented by a 2-digit hex number.

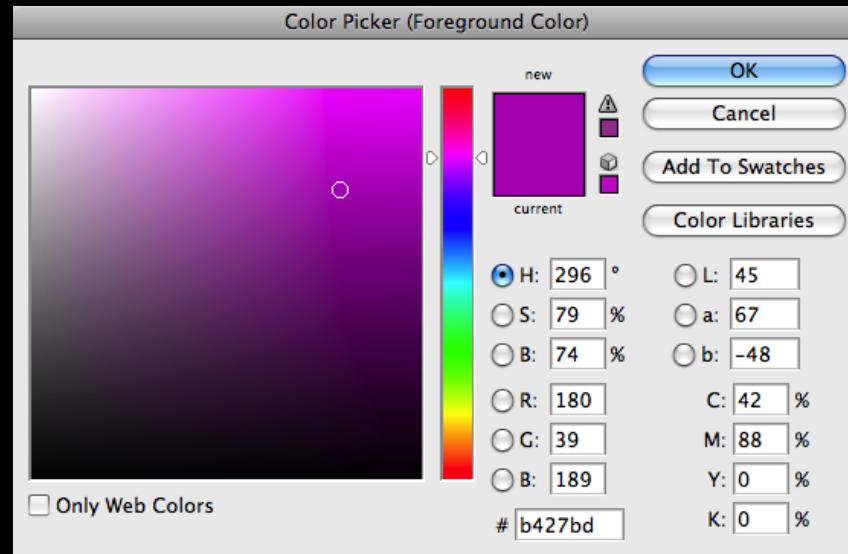
RGB Color Encoding



(180, 39, 189)

Each color is 3 bytes. A byte can be represented by a 2-digit hex number.

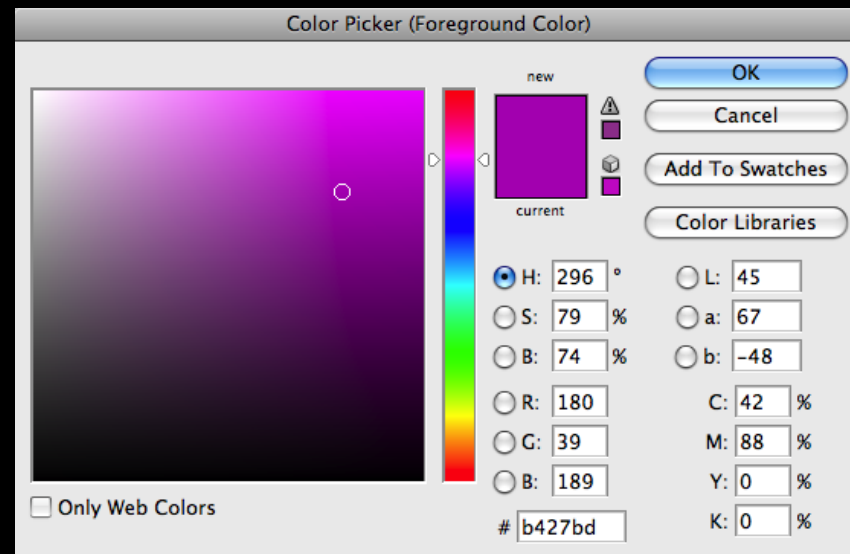
RGB Color Encoding



(180, 39, 189)

Each color is 3 bytes. A byte can be represented by a 2-digit hex number.

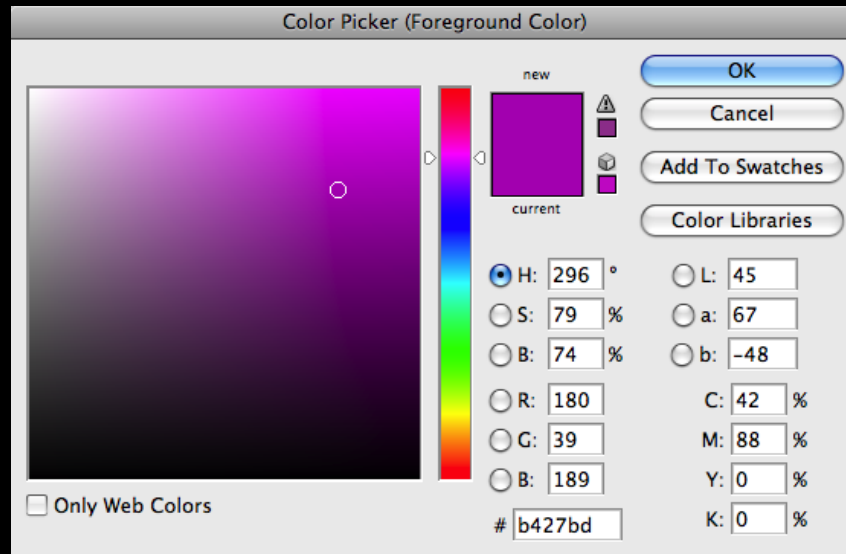
RGB Color Encoding



(180, 39, 189)

Each color is 3 bytes. A byte can be represented by a 2-digit hex number.

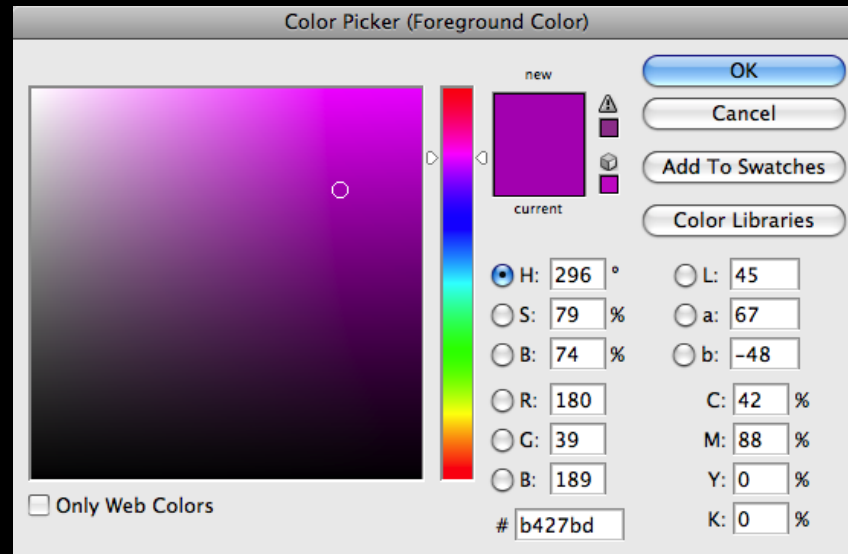
RGB Color Encoding



(180, 39, 189)
b4 27 bd

Each color is 3 bytes. A byte can be represented by a 2-digit hex number.

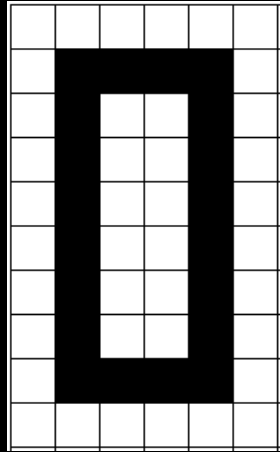
RGB Color Encoding



b427bd

Each color is 3 bytes. A byte can be represented by a 2-digit hex number.

Image Size



6 x 10

60 pixels