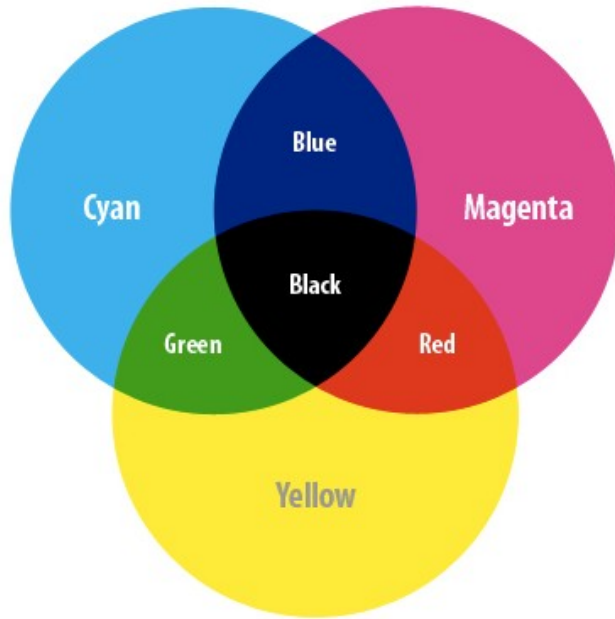


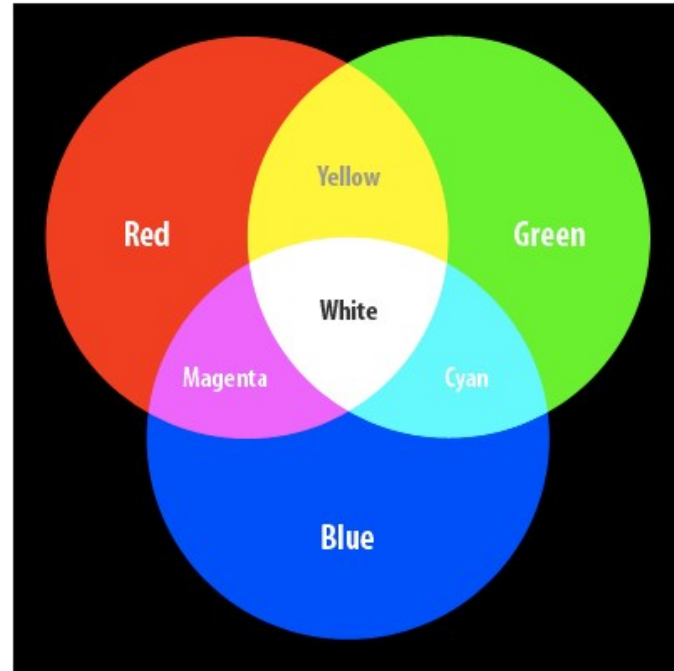
# Color Systems

## CMYK – The Subtractive System



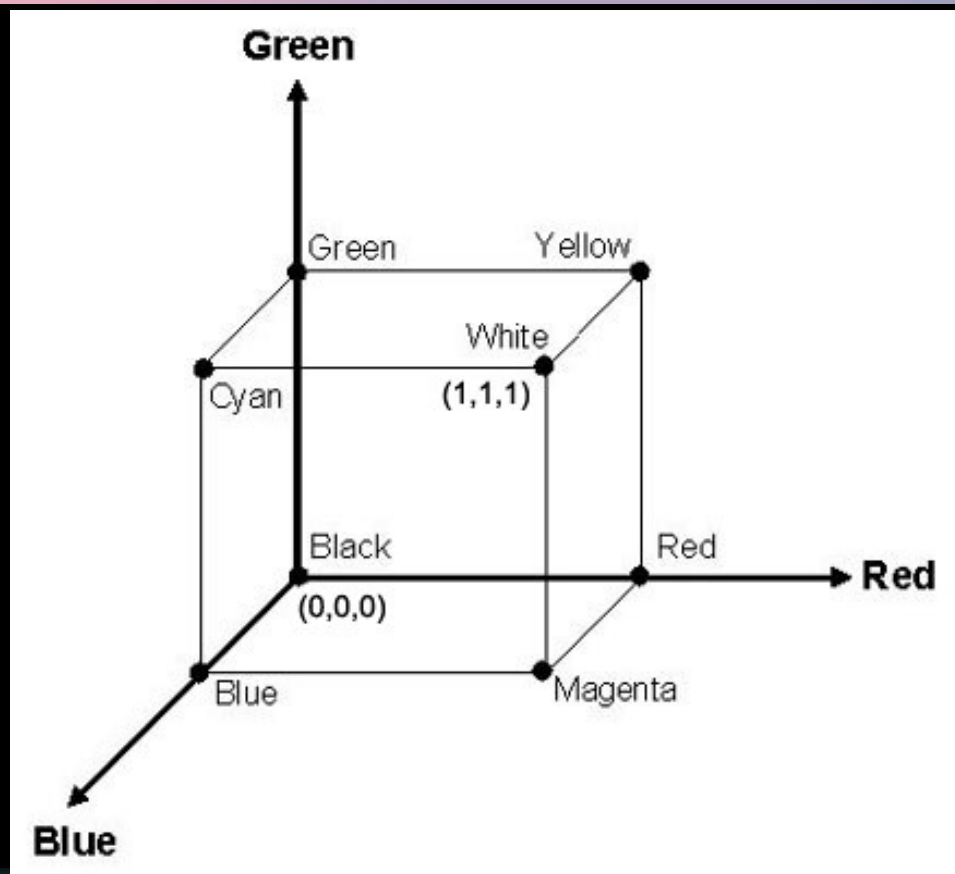
*CMYK Color Model*

## RGB – The Additive System

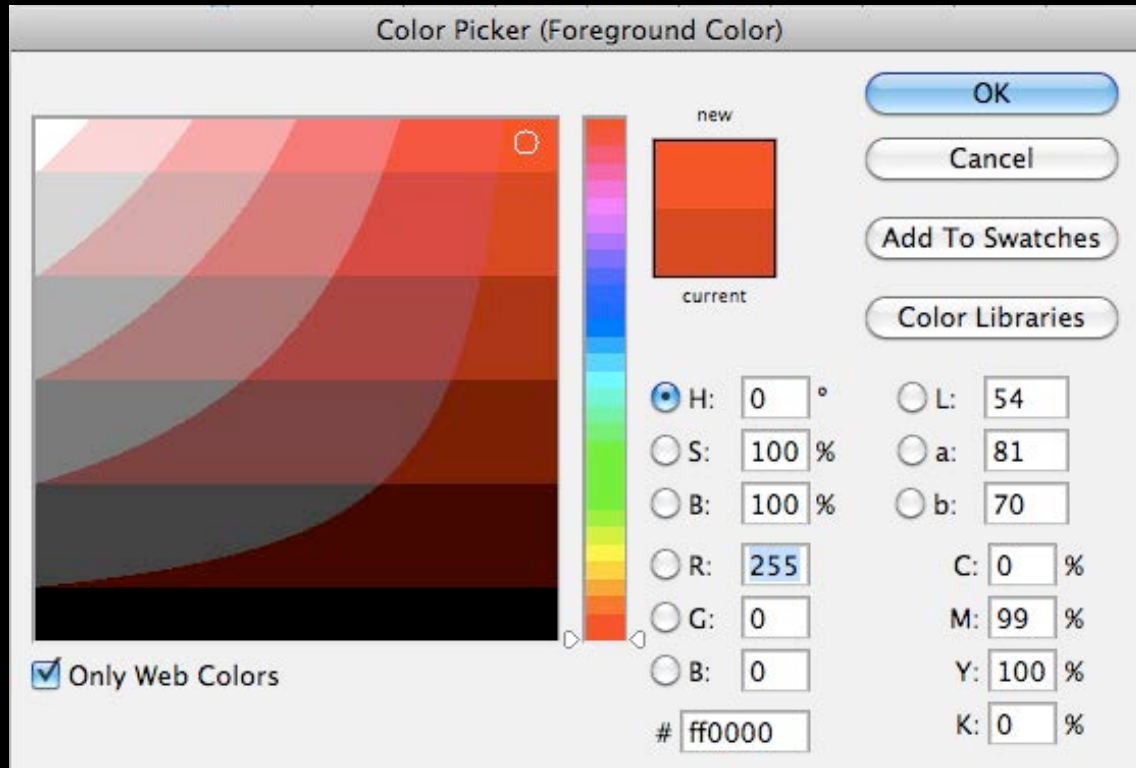


*RGB Color Model*

# Color Cube



# Color Picker (in Photoshop)



# RGB Color

Values for red, green, and blue are expressed as numbers between 0 and 255.

```
rgb(255,0,0)
```

This red color is made up of the following values:

255 red

0 green

0 blue

# Hexadecimal Color

In mathematics and computer science, **hexadecimal** (also base 16, or **hex**) is a positional numeral system with a radix, or base, of 16.

It uses sixteen distinct symbols, most often the symbols 0–9 to represent values zero to nine, and A, B, C, D, E, F (or alternatively a–f) to represent values ten to fifteen.

Hexadecimal numbers are used on web pages to specify colors.

<b>Decimal:</b>	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Hexadecimal:</b>	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

No intensity

Full intensity

# Hexadecimal Color

The color is defined by its mix of Red, Green and Blue intensities, each of which can be in the range:

- 0 to 255 (in decimal)
- 00 to FF (in hexadecimal)

HEX # rrggbb

BLACK #000000

WHITE #FFFFFF

# Hexadecimal Color

HEX # rrggbb

red #FF0000

green #00FF00

blue #0000FF

- The first two digits are the red color blend, from no intensity ( 00 ) to full intensity red ( FF )
- The second two digits are the green color blend, from no intensity ( 00 ) to full intensity red ( FF )
- The third two digits are the blue color blend, from no intensity ( 00 ) to full intensity red ( FF )

# Hexadecimal Color

HEX # rrggbb

magenta # ?

cyan # ?

pink # ?

[What the HEX?](#)

<b>Decimal:</b>	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Hexadecimal:</b>	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

No intensity

Full intensity