

Hexadecimal Colors

We specify colors on the computer using 3 hexadecimal colors. Each color has two digits, which allows 256 different values (0 through 255). The three colors are red, green, and blue, in that order. An example color might be #4386C9. The # signifies that this is a hexadecimal color value. The three components are:

Red	43	26%
Green	86	52%
Blue	C9	79%

(This makes a nice medium blue color.) The highest hexadecimal number indicates the strongest color component. Which is the strongest color component in each of the colors below? Circle the strongest color component.

#4EC619	Red	Green	Blue
#316BAA	Red	Green	Blue
#E72349	Red	Green	Blue
#70F56D	Red	Green	Blue
#3EE0F1	Red	Green	Blue
#B1EC90	Red	Green	Blue
#7C48EA	Red	Green	Blue
#3DFC71	Red	Green	Blue
#3D0BE2	Red	Green	Blue
#991B57	Red	Green	Blue
#6AC162	Red	Green	Blue
#09094C	Red	Green	Blue
#811E50	Red	Green	Blue
#45C117	Red	Green	Blue
#2E0744	Red	Green	Blue
#C9A67C	Red	Green	Blue
#45BB2D	Red	Green	Blue
#B7B2F0	Red	Green	Blue
#C6020C	Red	Green	Blue
#96DD89	Red	Green	Blue

Hexadecimal Colors: Blended Colors

If two color components are both strong, the resulting color will be a blend of both colors. When colors blend on the computer, they blend in a different way that they might blend when using paints or ink. This is because the colors are created not by pigments, but by tiny lights (called *pixels*) in red, green and blue colors. If two different color pixels are on at the same time, the resulting color would be:

First Color	Second Color	Resulting Color
Red	Green	Yellow
Red	Blue	Violet / Purple / Magenta
Green	Blue	Cyan / Teal / Blue Green

Examples:

#36BDBB	Green + Blue	A teal color	
#A6E7C7	Green + Blue	A light green-blue	
#FCE69F	Red + Green	A very light yellow	
#793E63	Red + Blue	A dark purple	
#9A19BB	Red + Blue	A blue purple	
#DDC000	Red + Green	A mustard yellow	

Based on the two highest color components, what will be the resulting mixture of these colors?
Circle the mixture that comes closest.

#4D1A53	Yellow	Cyan	Magenta
#8547F9	Yellow	Cyan	Magenta
#E2F078	Yellow	Cyan	Magenta
#CF61E6	Yellow	Cyan	Magenta
#E6CC48	Yellow	Cyan	Magenta
#E4F3A3	Yellow	Cyan	Magenta
#F839BC	Yellow	Cyan	Magenta
#B1A7C8	Yellow	Cyan	Magenta
#C3DF09	Yellow	Cyan	Magenta
#38ADB0	Yellow	Cyan	Magenta