Resistor Color Codes

Most common resistors have four colored bands. The band at one end of the resistor will be a metallic color (gold, silver, or bronze). This indicates the accuracy of the resistor (+/- 5%, 10%, or 20%, respectively).

If you call this the "4th band", the other three bands tell you the resistance in ohms according to the following table:

	Band:		
Color:	**1st**	**2nd**	**3rd**
Black	0	0	$* 10^0$
Brown	1	1	$* 10^1$
Red	2	2	$* 10^2$
Orange	3	3	$* 10^3$
Yellow	4	4	$* 10^4$
Green	5	5	$* 10^5$
Blue	6	6	$* 10^6$
Purple	7	7	$* 10^7$
Grey	8	8	$* 10^8$
White	9	9	$* 10^9$

To illustrate, the common yellow-purple-orange-gold resistor is $47 * 10^3$ ohms = 47000 ohms (+/- 5%).

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