

# Converting Colors

XYZ(51.0144, 48.5222, 24.0243)

Have a look what the booklet for  
XYZ(51.0144, 48.5222, 24.0243)  
contains.

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# Color

**XYZ(51.0990, 48.4270,  
24.1069)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E6AE77
RGB	230, 174, 119
RGB Percent	90%, 68%, 47%
CMY	0.0980, 0.3176, 0.5333
CMYK	0.00, 0.24, 0.48, 0.10
HSL	30°, 69%, 68%
HSV	30°, 48%, 90%
XYZ	51.0990, 48.4270, 24.1069
YIQ	184.4740, 51.0310, -5.2330

# Conversions

## Conversions Part 2

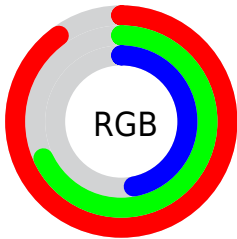
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	230, 228, 119
Decimal	15117943
CIE Lab	75.09, 13.92, 36.07
CIE LCh	75, 38.658, 68.897
Yxy	48.4270, 0.4133, 0.3917
Android (android.graphics.Color)	4293308023 (0xFFE6AE77)
YUV	184.4740, -32.2787, 39.9263
Hunter-Lab	69.5895, 9.2894, 28.1737

# Details

The XYZ color **51.0990, 48.4270, 24.1069** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **37.2201, 40.2935, 80.6786**, and the grayscale version is **45.9767, 48.3710, 52.6760**.

A 20% lighter version of the original color is **76.7057, 80.2772, 50.4819**, and **25.0470, 23.1194, 8.7726** is the 20% darker color. If you saturate the color by 10%, you get **47.7360, 43.6506, 16.9762**, and if you desaturate by 10%, it is **54.9923, 53.7291, 33.0642**.

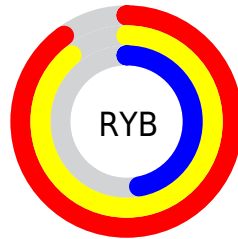
# Distribution



Red (90%)

Green (68%)

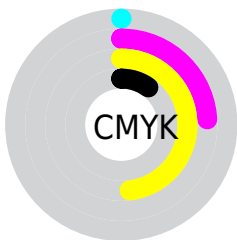
Blue (47%)



Red (90%)

Yellow (89%)

Blue (47%)

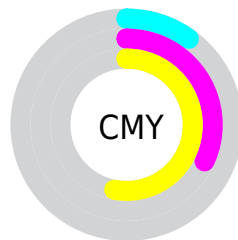


Cyan (0%)

Magenta (24%)

Yellow (48%)

Black (10%)



Cyan (10%)

Magenta (32%)

Yellow (53%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.0990, 48.4270, 24.1069 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 51.0990, 48.4270, 24.1069 by changing the saturation by 10% instead.



51.0990, 48.4270,  
24.1069

51.0990, 48.4270,  
24.1069

381.3296,  
380.4822, 286.6644

36.5088, 34.1652,  
15.2000

90.9832, 87.8398,  
51.1506

24.9993, 23.0205,  
8.8117

117.0079,  
113.7596, 70.1245

16.2053, 14.6087,  
4.5234

147.5748,  
144.3341, 93.2911

9.7613, 8.5452,  
1.9167

183.0492,  
179.9478, 121.0691

5.3020, 4.4457,  
0.5033

223.7966,  
220.9851, 153.8768

2.4621, 1.9259,  
0.0000

270.1822,

0.8762, 0.5639,

267.8303, 192.1329

0.0000

322.5714,  
320.8679, 236.2560

■ 0.0000, 0.0000,  
0.0000

■ 51.0990, 48.4270,  
24.1069

■ 51.0990, 48.4270,  
24.1069

■ 47.7360, 43.6506,  
16.9762

■ 54.9923, 53.7291,  
33.0642

■ 44.8703, 39.3732,  
11.5385

■ 59.4390, 59.5681,  
43.9632

■ 42.4702, 35.5760,  
7.6462


■ 64.4651, 65.9634,  
56.9125


■ 40.4975, 32.2352,  
5.1246

■ 70.0938, 72.9313,  
72.0120

■ 38.8996, 29.3210,  
3.7242

■ 76.3465, 80.4873,  
89.3550

 38.6475, 28.8518,  
3.5320

 82.9199, 88.5166,  
107.3228

 86.4431, 95.5630,  
108.4972

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



57.4409, 48.4270, 31.8641



51.0990, 48.4270, 24.1069



43.9577, 48.4270, 22.8574

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



51.0990, 48.4270, 24.1069



33.8608, 48.4270, 58.9825



55.1038, 48.4270, 89.2076

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



51.0990, 48.4270, 24.1069



37.2201, 40.2935, 80.6786

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



48.1632, 48.4270, 101.3092



51.0990, 48.4270, 24.1069



36.2375, 48.4270, 81.1508

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



51.0990, 48.4270, 24.1069



34.4742, 48.4270, 39.9155



41.3049, 48.4270, 98.0333



59.9127, 48.4270, 68.0268



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



51.0990, 48.4270, 24.1069



39.7663, 48.4270, 25.4587



41.3049, 48.4270, 98.0333



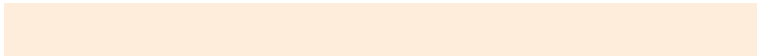
52.9156, 48.4270, 94.6905

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



51.1002, 48.4293, 24.1079



84.3473, 86.9533, 79.5632



47.1014, 33.1656, 45.1756



17.7303, 18.2091, 16.1682



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



51.1002, 48.4293, 24.1079



60.2993, 55.1241, 21.3994



63.7477, 73.7243, 28.3237



14.9639, 15.5417, 15.1156



22.0022, 16.5785, 2.0403



1.7187, 1.4108, 0.1817

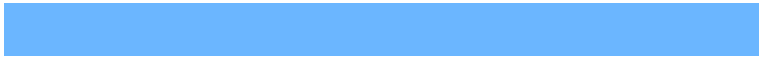


# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



37.2201, 40.2935, 80.6786



40.7939, 43.6890, 100.8905



28.7103, 23.2740, 77.8420



14.1807, 15.0828, 18.3082



11.7462, 10.5545, 43.8013



0.9609, 0.9658, 3.2677



# Previews

## White Background



This preview shows how the XYZ color 51.0990, 48.4270, 24.1069 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

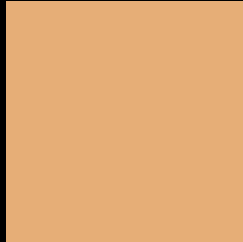
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 51.0990, 48.4270, 24.1069 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

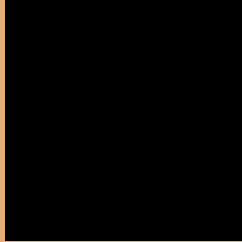
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 51.0990, 48.4270, 24.1069**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.0990, 48.4270, 24.1069.



This preview shows how white text looks on a background with the XYZ color 51.0990, 48.4270,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

51.0990, 48.4270, 24.1069

### Protanopia

45.0115, 48.5455, 25.7367

### Deuteranopia

49.4236, 48.4403, 23.8845



## Tritanopia

56.0339, 48.1893, 48.9960

# Trichromacy



## Original Color

51.0990, 48.4270, 24.1069

## Protanomaly

47.1881, 48.4499, 25.2770

## Deuteranomaly

50.1594, 48.5274, 23.8626

## Tritanomaly

53.8780, 48.1339, 38.3494

# Monochromacy



## Original Color

51.0990, 48.4270, 24.1069

## Achromatopsia

45.5594, 47.9320, 52.1980

## Achromatomaly

46.7538, 47.5981, 39.9809

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.0990, 48.4270, 24.1069 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(230, 174, 119)` looks like.

```
.text, #text, p{  
    color:rgb(230, 174, 119)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(230, 174, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 174, 119) }
```

## Border

The CSS property to change the border of an element to XYZ 51.0990, 48.4270, 24.1069 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(230, 174, 119) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(230, 174, 119) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(230, 174, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 174, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 174, 119);  
box-shadow:4px 4px 4px 4px rgb(230, 174,  
119) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.0990, 48.4270, 24.1069 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 174, 119) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(230,  
174, 119) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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