

# Converting Colors

XYZ(48.4991, 44.4194, 8.4115)

Have a look what the booklet for  
XYZ(48.4991, 44.4194, 8.4115)  
contains.

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# Color

**XYZ(48.4769, 44.3808,  
8.3942)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EDA32C
RGB	237, 163, 44
RGB Percent	93%, 64%, 17%
CMY	0.0706, 0.3608, 0.8274
CMYK	0.00, 0.31, 0.81, 0.07
HSL	37°, 84%, 55%
HSV	37°, 81%, 93%
XYZ	48.4769, 44.3808, 8.3942
YIQ	171.5600, 82.3030, -21.3210

# Conversions

## Conversions Part 2

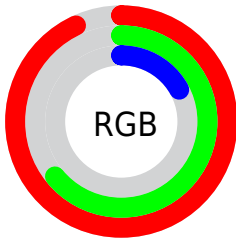
<b>Format</b>	<b>Color</b>
<b>RYB</b>	164, 237, 44
Decimal	15573804
CIELab	72.48, 18.10, 67.43
CIElCh	72, 69.821, 74.978
Yxy	44.3808, 0.4788, 0.4383
Android (android.graphics.Color)	4293763884 (0xFFEDA32C)
YUV	171.5600, -62.8871, 57.3909
Hunter-Lab	66.6189, 13.3068, 39.1625

# Details

The XYZ color **48.4769, 44.3808, 8.3942** is a dark color, and the websafe version is hex **CC9900**. The color can be described as middle washed orange. A complement of this color would be **22.8029, 19.6061, 82.7027**, and the grayscale version is **39.2700, 41.3151, 44.9921**.

A 20% lighter version of the original color is **68.6117, 72.3229, 22.4001**, and **23.5889, 20.5990, 2.7327** is the 20% darker color. If you saturate the color by 10%, you get **46.5963, 41.1409, 6.1612**, and if you desaturate by 10%, it is **50.7294, 47.9586, 12.0049**.

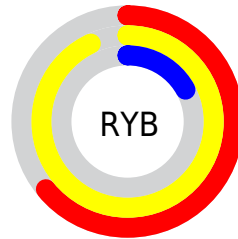
# Distribution



Red (93%)

Green (64%)

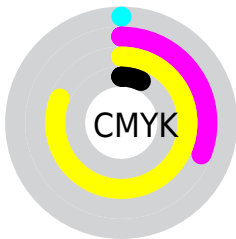
Blue (17%)



Red (64%)

Yellow (93%)

Blue (17%)

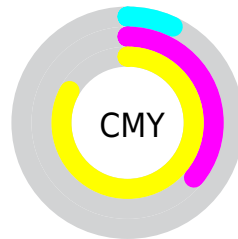


Cyan (0%)

Magenta (31%)

Yellow (81%)

Black (7%)



Cyan (7%)

Magenta (36%)


Yellow (83%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.4769, 44.3808, 8.3942 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 48.4769, 44.3808, 8.3942 by changing the saturation by 10% instead.





 48.4769, 44.3808,  
8.3942


 48.4769, 44.3808,  
8.3942


371.2305,  
364.2600, 188.8406

 34.4175, 30.9700,  
4.2568


 87.1194, 81.7904,  
23.2865

 23.3789, 20.5760,  
1.7673


 112.4333,  
106.5581, 34.8785


 14.9958, 12.8144,  
0.4062


 142.2294,  
135.8801, 49.7924

 8.9027, 7.3009,  
0.0000

 176.8731,  
170.1409, 68.4469

 4.7344, 3.6510,  
0.0000

 216.7297,  
209.7249, 91.2604

 2.1254, 1.4803,  
0.0000

 262.1645,

 0.7030, 0.2748,

255.0165, 118.6515

0.0000

313.5430,  
306.4000, 151.0387

■ 0.0000, 0.0000,  
0.0000

■ 48.4769, 44.3808,  
8.3942

■ 48.4769, 44.3808,  
8.3942

■ 46.5963, 41.1409,  
6.1612

■ 50.7294, 47.9586,  
12.0049

■ 45.2246, 38.6041,  
5.0677

■ 53.3910, 51.8875,  
17.1905

■ 56.4964, 56.1867,  
24.1186

■ 60.0752, 60.8718,  
32.9343

■ 64.1542, 65.9569,  
43.7675

■ 68.7578, 71.4549,  
56.7364

■ 73.9085, 77.3784,  
71.9502

■ 79.6277, 83.7390,  
89.5103

■ 85.5619, 90.3985,  
107.5468

# Harmonies

## Analogous

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



60.7845, 44.3808, 14.9610



48.4769, 44.3808, 8.3942



36.4741, 44.3808, 8.3900

# Triad

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



48.4769, 44.3808, 8.3942



23.5272, 44.3808, 67.5786



60.7682, 44.3808, 112.0920

# Complementary

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



48.4769, 44.3808, 8.3942



22.8029, 19.6061, 82.7027

# 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.



48.4577, 44.3808, 144.9323



48.4769, 44.3808, 8.3942



27.8252, 44.3808, 112.0277

# Square

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



48.4769, 44.3808, 8.3942



23.5303, 44.3808, 33.0852



36.4582, 44.3808, 144.9043



68.7474, 44.3808, 67.6413



# Rectangle

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



48.4769, 44.3808, 8.3942



30.2469, 44.3808, 11.7972



36.4582, 44.3808, 144.9043



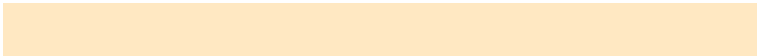
56.9058, 44.3808, 125.6235

# Sweetspot

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



48.4779, 44.3831, 8.3950



79.6814, 82.5987, 62.6647



39.2893, 21.1915, 20.1739



16.6363, 17.1804, 12.2298



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.



48.4779, 44.3831, 8.3950



53.6989, 46.1330, 6.2208



59.5624, 75.6090, 13.8380



15.8389, 16.6007, 15.8882



24.8220, 21.3382, 2.8104



2.0417, 1.8607, 0.2515



# Inverse Universe

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



22.8029, 19.6061, 82.7027



22.7587, 16.5427, 96.6013



18.2562, 8.9829, 80.8919



14.7046, 15.4957, 19.1382



10.4992, 7.6455, 44.6653



0.9150, 0.7814, 3.5375



# Previews

## White Background



This preview shows how the XYZ color 48.4769, 44.3808, 8.3942 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 48.4769, 44.3808, 8.3942 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 48.4769, 44.3808, 8.3942**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.4769, 44.3808, 8.3942.



This preview shows how white text looks on a background with the XYZ color 48.4769, 44.3808,



# 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

48.4769, 44.3808, 8.3942

### Protanopia

40.4730, 44.7330, 9.2975

### Deuteranopia

45.3287, 44.3833, 8.2756



## Tritanopia

55.1473, 44.3339, 40.3011

# Trichromacy



## Original Color

48.4769, 44.3808, 8.3942

## Protanomaly

42.8972, 44.2385, 8.9673

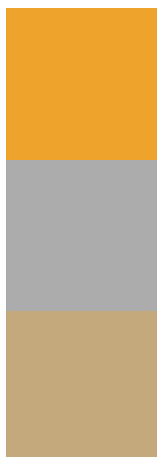
## Deuteranomaly

46.5497, 44.4626, 8.3192

## Tritanomaly

51.5543, 43.8338, 23.5129

# Monochromacy



## Original Color

48.4769, 44.3808, 8.3942

## Achromatopsia

39.2122, 41.2543, 44.9259

## Achromatomaly

40.6546, 41.5924, 25.2874

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.4769, 44.3808, 8.3942 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(237, 163, 44)` looks like.

```
.text, #text, p{  
    color:rgb(237, 163, 44)  
}
```

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(237, 163, 44) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 163, 44) }
```

## Border

The CSS property to change the border of an element to XYZ 48.4769, 44.3808, 8.3942 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(237, 163, 44) }
```



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

```
.border{ border-color:rgb(237, 163, 44) }
```

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

Here you see how a box with a 4 pixel `rgb(237, 163, 44)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 163, 44); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 163, 44);  
box-shadow:4px 4px 4px 4px rgb(237, 163,  
44) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.4769, 44.3808, 8.3942 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 163, 44) }
```

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

```
.background{ background-color: rgb(237,  
163, 44) }
```

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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