

# Converting Colors

XYZ(48.3289, 46.7729, 6.4809)

Have a look what the booklet for  
XYZ(48.3289, 46.7729, 6.4809)  
contains.

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# **Color**

**XYZ(48.3568, 46.8287,  
6.4902)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E9AC00
RGB	233, 172, 0
RGB Percent	91%, 67%, 0%
CMY	0.0863, 0.3255, 0.9999
CMYK	0.00, 0.26, 1.00, 0.09
HSL	44°, 100%, 46%
HSV	44°, 100%, 91%
XYZ	48.3568, 46.8287, 6.4902
YIQ	170.6310, 91.5680, -40.5600

# Conversions

## Conversions Part 2

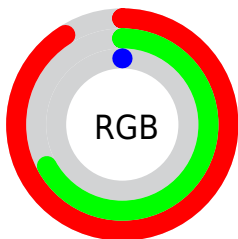
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	83, 233, 0
Decimal	15313920
CIE <sub>Lab</sub>	74.08, 10.88, 77.18
CIE <sub>LCh</sub>	74, 77.947, 81.976
Yxy	46.8287, 0.4756, 0.4606
Android (android.graphics.Color)	4293504000 (0xFFE9AC00)
YUV	170.6310, -84.1211, 54.6976
Hunter-Lab	68.4315, 6.3811, 42.2788

# Details

The XYZ color **48.3568, 46.8287, 6.4902** 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 **16.3774, 9.2219, 78.0070**, and the grayscale version is **38.9021, 40.9280, 44.5706**.

A 20% lighter version of the original color is **70.1571, 76.7774, 18.7113**, and **23.7297, 22.2036, 3.0350** is the 20% darker color. If you saturate the color by 10%, you get **48.3568, 46.8292, 6.4903**, and if you desaturate by 10%, it is **49.7034, 49.2697, 7.7178**.

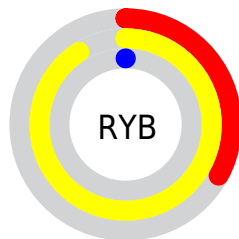
# Distribution



Red (91%)

Green (67%)

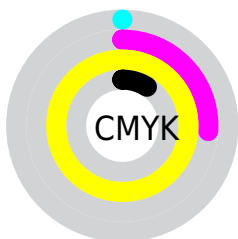
Blue (0%)



Red (33%)

Yellow (91%)

Blue (0%)

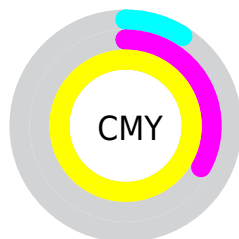


Cyan (0%)

Magenta (26%)

Yellow (100%)

Black (9%)



Cyan (9%)

Magenta (33%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.3568, 46.8287, 6.4902 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 48.3568, 46.8287, 6.4902 by changing the saturation by 10% instead.





 48.3568, 46.8287,  
6.4902


 48.3568, 46.8287,  
6.4902


370.7638,  
374.1304, 172.8247

 34.3220, 32.9003,  
3.0718


 86.9419, 85.4579,  
19.4351

 23.3051, 22.0500,  
1.1314


 112.2228,  
110.9274, 29.7988


 14.9409, 13.8937,  
0.0000


 141.9832,  
141.0127, 43.3145

 8.8640, 8.0468,  
0.0000

 176.5884,  
176.0982, 60.4010

 4.7089, 4.1249,  
0.0000

 216.4036,  
216.5684, 81.4767

 2.1105, 1.7437,  
0.0000

 261.7944,

 0.6949, 0.4517,

262.8075, 106.9602

0.0000

313.1260,  
315.2000, 137.2700

■ 0.0000, 0.0000,  
0.0000

■ 48.3568, 46.8287,  
6.4902

■ 48.3568, 46.8287,  
6.4902

■ 48.3568, 46.8292,  
6.4903

■ 49.7034, 49.2697,  
7.7178

■ 51.2927, 51.8923,  
9.9619

■ 53.1866, 54.7241,  
13.5404

■ 55.4210, 57.7807,  
18.6384

■ 58.0259, 61.0751,  
25.4118

■ 61.0278, 64.6189,  
33.9968

■ 64.4507, 68.4227,  
44.5157

■ 68.3162, 72.4962,  
57.0801

■ 72.6446, 76.8483,  
71.7929

# Harmonies

## Analogous

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



63.1476, 46.8287, 11.2710



48.3568, 46.8287, 6.4902



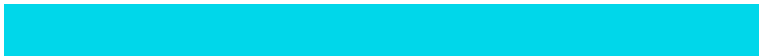
35.2126, 46.8287, 7.7898

# Triad

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



48.3568, 46.8287, 6.4902



23.9915, 46.8287, 85.4513



69.1414, 46.8287, 114.4046

# Complementary

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



48.3568, 46.8287, 6.4902



16.3774, 9.2219, 78.0070

# 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.



55.3132, 46.8287, 160.4552



48.3568, 46.8287, 6.4902



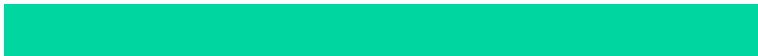
29.9548, 46.8287, 138.5259

# Square

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



48.3568, 46.8287, 6.4902



22.8925, 46.8287, 41.0057



40.8714, 46.8287, 171.0449



76.6791, 46.8287, 62.4727



# Rectangle

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



48.3568, 46.8287, 6.4902



28.8803, 46.8287, 12.5616



40.8714, 46.8287, 171.0449



64.9527, 46.8287, 132.0043

# Sweetspot

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



48.3578, 46.8310, 6.4911



79.0268, 83.8956, 54.4115



34.4777, 17.6733, 6.1727



16.5209, 17.5257, 10.4151



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.



48.3578, 46.8310, 6.4911



59.2751, 57.3303, 7.9417



47.6454, 67.8179, 10.5795



15.9989, 16.9208, 15.9415



27.5449, 26.7841, 3.7181



2.2404, 2.2580, 0.3178



# Inverse Universe

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



16.3774, 9.2219, 78.0070



20.0427, 11.2055, 95.7142



16.2499, 6.6784, 77.5227



14.5518, 15.1901, 19.0873



9.3781, 5.4032, 44.2916



0.8126, 0.5767, 3.5034



# Previews

## White Background



This preview shows how the XYZ color 48.3568, 46.8287, 6.4902 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 48.3568, 46.8287, 6.4902 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 48.3568, 46.8287, 6.4902**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.3568, 46.8287, 6.4902.



This preview shows how white text looks on a background with the XYZ color 48.3568, 46.8287,



# 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

48.3568, 46.8287, 6.4902

### Protanopia

42.4597, 47.0178, 7.2183

### Deuteranopia

47.8986, 46.8761, 6.5235



## Tritanopia

56.2928, 46.8209, 45.1001

# Trichromacy



## Original Color

48.3568, 46.8287, 6.4902

## Protanomaly

44.4828, 46.8567, 6.9295

## Deuteranomaly

48.2223, 47.0429, 6.5386

## Tritanomaly

51.2957, 45.8322, 20.6109

# Monochromacy



## Original Color

48.3568, 46.8287, 6.4902

## Achromatopsia

38.7082, 40.7240, 44.3485

## Achromatomaly

39.5714, 41.6993, 20.4311

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.3568, 46.8287, 6.4902 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(233, 172, 0)` looks like.

```
.text, #text, p{  
    color:rgb(233, 172, 0)  
}
```

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(233, 172, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 172, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 48.3568, 46.8287, 6.4902 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(233, 172, 0) }
```



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

```
.border{ border-color:rgb(233, 172, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 172, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 172, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 172, 0);  
box-shadow:4px 4px 4px 4px rgb(233, 172,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.3568, 46.8287, 6.4902 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 172, 0) }
```

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

```
.background{ background-color: rgb(233,  
172, 0) }
```

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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