

# Converting Colors

XYZ(48.6215, 48.5597, 12.2857)

Have a look what the booklet for  
XYZ(48.6215, 48.5597, 12.2857)  
contains.

<b>XYZ(48.6423, 48.5890, 12.2837)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(48.6423, 48.5890,  
12.2837)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E3B244
RGB	227, 178, 68
RGB Percent	89%, 70%, 27%
CMY	0.1098, 0.3019, 0.7333
CMYK	0.00, 0.22, 0.70, 0.11
HSL	42°, 74%, 58%
HSV	42°, 70%, 89%
XYZ	48.6423, 48.5890, 12.2837
YIQ	180.1110, 64.5140, -23.8220

# Conversions

## Conversions Part 2

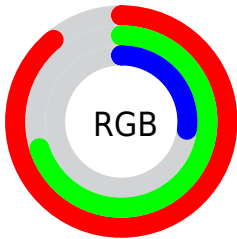
<b>Format</b>	<b>Color</b>
<b>RYB</b>	139, 227, 68
Decimal	14922308
CIELab	75.19, 6.86, 60.59
CIELCh	75, 60.980, 83.542
Yxy	48.5890, 0.4442, 0.4437
Android (android.graphics.Color)	4293112388 (0xFFE3B244)
YUV	180.1110, -55.2707, 41.1217
Hunter-Lab	69.7058, 2.5762, 38.3459

# Details

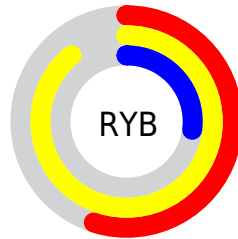
The XYZ color **48.6423, 48.5890, 12.2837** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **22.6100, 19.4968, 75.2441**, and the grayscale version is **43.7065, 45.9827, 50.0751**.

A 20% lighter version of the original color is **73.8918, 80.9430, 30.1414**, and **23.6203, 23.2509, 3.3004** is the 20% darker color. If you saturate the color by 10%, you get **46.7229, 45.6527, 8.8626**, and if you desaturate by 10%, it is **50.9030, 51.7793, 17.1420**.

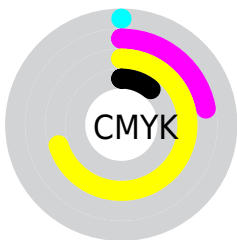
# Distribution



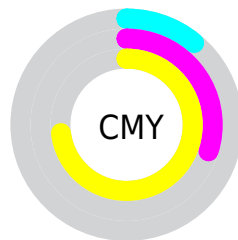
- Red (89%)
- Green (70%)
- Blue (27%)



- Red (55%)
- Yellow (89%)
- Blue (27%)



- Cyan (0%)
- Magenta (22%)
- Yellow (70%)
- Black (11%)



- Cyan (11%)
- Magenta (30%)
- Yellow (73%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.6423, 48.5890, 12.2837 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 48.6423, 48.5890, 12.2837 by changing the saturation by 10% instead.



■ 48.6423, 48.5890,  
12.2837

■ 48.6423, 48.5890,  
12.2837

371.8728,  
381.1221, 217.3187

■ 34.5492, 34.2936,  
6.8123

■ 87.3639, 88.0807,  
30.6829

■ 23.4807, 23.1192,  
3.2683

■ 112.7231,  
114.0458, 44.4477

■ 15.0715, 14.6816,  
1.2332

■ 142.5683,  
144.6695, 61.8141

■ 8.9562, 8.5962,  
0.0061

■ 177.2649,  
180.3363, 83.2006

■ 4.7695, 4.4788,  
0.0000

■ 217.1783,  
221.4306, 109.0258

■ 2.1460, 1.9448,  
0.0000

262.6739,

■ 0.7141, 0.5751,

268.3367, 139.7082

0.0000

314.1169,  
321.4391, 175.6663

■ 0.0000, 0.0000,  
0.0000

■ 48.6423, 48.5890,  
12.2837

■ 48.6423, 48.5890,  
12.2837

■ 46.7229, 45.6527,  
8.8626

■ 50.9030, 51.7793,  
17.1420

■ 45.1075, 42.9479,  
6.7023

■ 53.5304, 55.2295,  
23.5810

■ 43.7440, 40.4621,  
5.5044

■ 56.5508, 58.9537,  
31.7296

■ 59.9870, 62.9626,  
41.7027

■ 63.8597, 67.2661,  
53.6050

■ 68.1883, 71.8733,  
67.5334

■ 72.9908, 76.7930,  
83.5782

■ 78.2841, 82.0333,  
101.8242

■ 81.1715, 86.4372,  
107.0136

# Harmonies

## Analogous

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



60.1681, 48.5890, 17.2341



48.6423, 48.5890, 12.2837



38.1184, 48.5890, 14.1597

# Triad

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



48.6423, 48.5890, 12.2837



29.1475, 48.5890, 81.4971



65.7160, 48.5890, 98.5612

# Complementary

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



48.6423, 48.5890, 12.2837



22.6100, 19.4968, 75.2441

# 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.



55.3102, 48.5890, 131.7801



48.6423, 48.5890, 12.2837



34.5515, 48.5890, 119.4630

# Square

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



48.6423, 48.5890, 12.2837



27.9484, 48.5890, 46.2793



43.8068, 48.5890, 140.6695



71.0008, 48.5890, 60.1351



# Rectangle

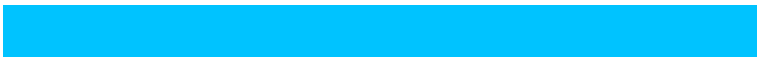
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.6423, 48.5890, 12.2837



32.9019, 48.5890, 19.6539



43.8068, 48.5890, 140.6695



62.6276, 48.5890, 111.2444

# Sweetspot

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



48.6434, 48.5914, 12.2846



82.5557, 86.9383, 67.9659



37.0366, 21.7818, 19.5017



17.3617, 18.2693, 13.5873



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.



48.6434, 48.5914, 12.2846



59.8335, 57.8122, 10.0849



51.7616, 67.3406, 15.7393



15.2072, 16.0284, 15.1967



25.6198, 23.8137, 3.2462



1.9747, 1.9227, 0.2670



# Inverse Universe

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



22.6100, 19.4968, 75.2441



24.1938, 18.1618, 96.8382



20.8784, 12.2304, 73.9328



13.9433, 14.6079, 18.2291



9.4525, 5.9672, 43.0367



0.7786, 0.6012, 3.2070



# Previews

## White Background



This preview shows how the XYZ color 48.6423, 48.5890, 12.2837 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

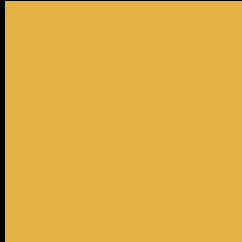
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.6423, 48.5890, 12.2837 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 48.6423, 48.5890, 12.2837**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.6423, 48.5890, 12.2837.



This preview shows how white text looks on a background with the XYZ color 48.6423, 48.5890,



# 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

48.6423, 48.5890, 12.2837

### Protanopia

44.3965, 48.8254, 12.8786

### Deuteranopia

49.5545, 48.4693, 12.3739



## Tritanopia

56.3179, 48.5949, 49.5915

# Trichromacy



## Original Color

48.6423, 48.5890, 12.2837

## Protanomaly

45.7392, 48.5928, 12.5989

## Deuteranomaly

49.4294, 48.6969, 12.4245

## Tritanomaly

52.5018, 48.1457, 30.9520

# Monochromacy



## Original Color

48.6423, 48.5890, 12.2837

## Achromatopsia

43.3819, 45.6411, 49.7032

## Achromatomaly

43.8063, 45.9746, 30.9912

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.6423, 48.5890, 12.2837 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(227, 178, 68)` looks like.

```
.text, #text, p{  
    color:rgb(227, 178, 68)  
}
```

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(227, 178, 68) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 178, 68) }
```

## Border

The CSS property to change the border of an element to XYZ 48.6423, 48.5890, 12.2837 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(227, 178, 68) }
```



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

```
.border{ border-color:rgb(227, 178, 68) }
```

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

Here you see how a box with a 4 pixel `rgb(227, 178, 68)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 178, 68); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 178, 68);  
box-shadow:4px 4px 4px 4px rgb(227, 178,  
68) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.6423, 48.5890, 12.2837 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 178, 68) }
```

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

```
.background{ background-color: rgb(227,  
178, 68) }
```

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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