

# Converting Colors

XYZ(46.9662, 46.7552, 7.0435)

Have a look what the booklet for  
XYZ(46.9662, 46.7552, 7.0435)  
contains.

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# Color

**XYZ(46.9081, 46.6404,  
7.0204)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E3AE10
RGB	227, 174, 16
RGB Percent	89%, 68%, 6%
CMY	0.1098, 0.3176, 0.9372
CMYK	0.00, 0.23, 0.93, 0.11
HSL	45°, 87%, 48%
HSV	45°, 93%, 89%
XYZ	46.9081, 46.6404, 7.0204
YIQ	171.8350, 82.3060, -37.9020

# Conversions

## Conversions Part 2

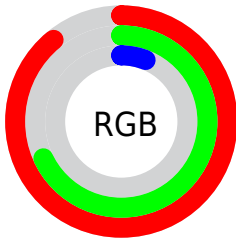
<b>Format</b>	<b>Color</b>
<b>RYB</b>	87, 227, 16
Decimal	14921232
CIELab	73.96, 7.37, 74.90
CIELCh	74, 75.266, 84.377
Yxy	46.6404, 0.4664, 0.4638
Android (android.graphics.Color)	4293111312 (0xFFE3AE10)
YUV	171.8350, -76.8267, 48.3797
Hunter-Lab	68.2938, 3.0900, 41.7108

# Details

The XYZ color **46.9081, 46.6404, 7.0204** 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 **16.2074, 9.9133, 73.7316**, and the grayscale version is **39.4782, 41.5342, 45.2307**.

A 20% lighter version of the original color is **70.8990, 77.9545, 19.9043**, and **22.6854, 22.0261, 3.0558** is the 20% darker color. If you saturate the color by 10%, you get **46.0500, 45.0743, 6.2731**, and if you desaturate by 10%, it is **48.3020, 49.0000, 8.8068**.

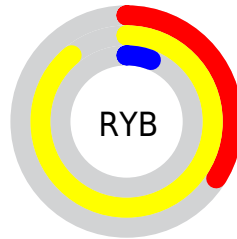
# Distribution



Red (89%)

Green (68%)

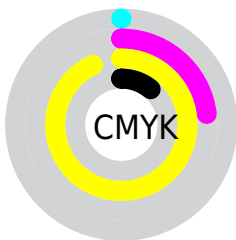
Blue (6%)



Red (34%)

Yellow (89%)

Blue (6%)

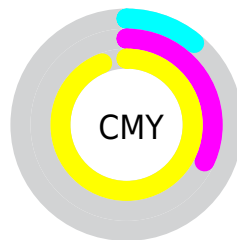


Cyan (0%)

Magenta (23%)

Yellow (93%)

Black (11%)



Cyan (11%)

Magenta (32%)


Yellow (94%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.9081, 46.6404, 7.0204 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 46.9081, 46.6404, 7.0204 by changing the saturation by 10% instead.





 46.9081, 46.6404,  
7.0204


 46.9081, 46.6404,  
7.0204


365.1026,  
373.3773, 177.4705

 33.1707, 32.7515,  
3.3962


 84.7960, 85.1766,  
20.5278

 22.4171, 21.9361,  
1.3003


 109.6772,  
110.5927, 31.2481

 14.2820, 13.8100,  
0.0621


 139.0036,  
140.6199, 45.1709

 8.4001, 7.9886,  
0.0000

 173.1407,  
175.6427, 62.7146

 4.4059, 4.0877,  
0.0000

 212.4538,  
216.0454, 84.2979

 1.9343, 1.7227,  
0.0000

 257.3083,

 0.5966, 0.4383,

262.2125, 110.3393

0.0000

308.0694,  
314.5283, 141.2573

■ 0.0000, 0.0000,  
0.0000

■ 46.9081, 46.6404,  
7.0204

■ 46.9081, 46.6404,  
7.0204

■ 46.0500, 45.0743,  
6.2731

■ 48.3020, 49.0000,  
8.8068

■ 49.9664, 51.5415,  
11.7884

■ 51.9379, 54.2825,  
16.1509

■ 54.2459, 57.2356,  
22.0469

■ 56.9161, 60.4119,  
29.6089

■ 59.9716, 63.8215,  
38.9551

■ 63.4330, 67.4734,  
50.1929

■ 67.3197, 71.3763,  
63.4209

■ 71.6497, 75.5380,  
78.7313

# Harmonies

## Analogous

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



61.1299, 46.6404, 11.2760



46.9081, 46.6404, 7.0204



34.5065, 46.6404, 8.8229

# Triad

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



46.9081, 46.6404, 7.0204



24.7293, 46.6404, 87.8172



68.7991, 46.6404, 107.1621

# Complementary

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



46.9081, 46.6404, 7.0204



16.2074, 9.9133, 73.7316

# 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.



55.8613, 46.6404, 152.2734



46.9081, 46.6404, 7.0204



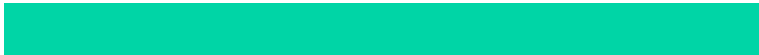
30.9305, 46.6404, 137.7016

# Square

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



46.9081, 46.6404, 7.0204



23.2831, 46.6404, 43.8785



41.8487, 46.6404, 165.6103



75.3028, 46.6404, 58.3773



# Rectangle

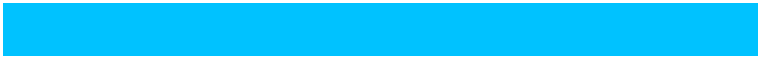
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



46.9081, 46.6404, 7.0204



28.6163, 46.6404, 14.1503



41.8487, 46.6404, 165.6103



64.9462, 46.6404, 124.0731

# Sweetspot

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



46.9091, 46.6427, 7.0213



80.1533, 85.3109, 57.3700



33.0425, 17.1732, 7.7515



16.7493, 17.8253, 10.9762



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.



46.9091, 46.6427, 7.0213



59.8604, 58.5008, 8.1368



45.8696, 64.4128, 10.5061



15.2790, 16.1719, 15.2207



26.9541, 26.4824, 3.6910



2.0645, 2.1022, 0.2970



# Inverse Universe

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



16.2074, 9.9133, 73.7316



19.8861, 10.8922, 95.6620



16.2466, 7.0491, 73.1767



13.8755, 14.4724, 18.2065



9.0182, 5.0986, 42.8920



0.7390, 0.5220, 3.1938



# Previews

## White Background



This preview shows how the XYZ color 46.9081, 46.6404, 7.0204 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 46.9081, 46.6404, 7.0204 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 46.9081, 46.6404, 7.0204

## Background



This preview shows how black text looks on a background with the XYZ color 46.9081, 46.6404, 7.0204.



This preview shows how white text looks on a background with the XYZ color 46.9081, 46.6404,



# 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

46.9081, 46.6404, 7.0204

### Protanopia

42.2366, 46.8966, 7.4877

### Deuteranopia

47.6859, 46.7538, 7.0833



## Tritanopia

55.1524, 46.7295, 46.1573

# Trichromacy



## Original Color

46.9081, 46.6404, 7.0204

## Protanomaly

43.8794, 46.8357, 7.3436

## Deuteranomaly

47.3578, 46.5856, 7.0262

## Tritanomaly

50.4514, 45.8804, 23.0264

# Monochromacy



## Original Color

46.9081, 46.6404, 7.0204

## Achromatopsia

39.2122, 41.2543, 44.9259

## Achromatomaly

39.7763, 42.3314, 22.2940

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.9081, 46.6404, 7.0204 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, 174, 16)` looks like.

```
.text, #text, p{  
    color:rgb(227, 174, 16)  
}
```

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, 174, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 174, 16) }
```

## Border

The CSS property to change the border of an element to XYZ 46.9081, 46.6404, 7.0204 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, 174, 16) }
```



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

```
.border{ border-color:rgb(227, 174, 16) }
```

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

Here you see how a box with a 4 pixel `rgb(227, 174, 16)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 174, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 174, 16);  
box-shadow:4px 4px 4px 4px rgb(227, 174,  
16) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.9081, 46.6404, 7.0204 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 174, 16) }
```

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

```
.background{ background-color: rgb(227,  
174, 16) }
```

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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