

# Converting Colors

XYZ(42.5653, 49.4646, 6.0668)

Have a look what the booklet for  
XYZ(42.5653, 49.4646, 6.0668)  
contains.

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# Color

**XYZ(42.9879, 49.8182,  
7.3502)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CABF00
RGB	202, 191, 0
RGB Percent	79%, 75%, 0%
CMY	0.2078, 0.2510, 0.9999
CMYK	0.00, 0.05, 1.00, 0.21
HSL	57°, 100%, 40%
HSV	57°, 100%, 79%
XYZ	42.9879, 49.8182, 7.3502
YIQ	172.5150, 67.8670, -57.0690

# Conversions

## Conversions Part 2

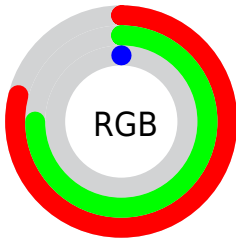
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	12, 202, 0
Decimal	13287168
CIE Lab	75.96, -12.57, 77.11
CIE LCh	76, 78.130, 99.257
Yxy	49.8182, 0.4292, 0.4974
Android (android.graphics.Color)	4291477248 (0xFFCABF00)
YUV	172.5150, -85.0499, 25.8583
Hunter-Lab	70.5820, -14.8033, 43.2331

# Details

The XYZ color **42.9879, 49.8182, 7.3502** is a dark color, and the websafe version is hex **CCCC00**. The color can be described as dark washed orange. A complement of this color would be **10.7807, 4.5041, 56.1777**, and the grayscale version is **39.8708, 41.9472, 45.6805**.

A 20% lighter version of the original color is **76.0238, 88.3907, 21.0369**, and **20.4162, 24.0166, 3.5596** is the 20% darker color. If you saturate the color by 10%, you get **42.9886, 49.8200, 7.3505**, and if you desaturate by 10%, it is **43.3578, 50.3532, 8.1062**.

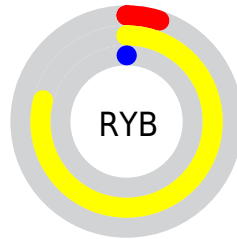
# Distribution



Red (79%)

Green (75%)

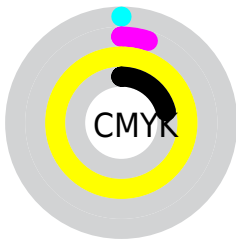
Blue (0%)



Red (5%)

Yellow (79%)

Blue (0%)

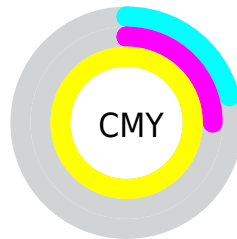


Cyan (0%)

Magenta (5%)

Yellow (100%)

Black (21%)



Cyan (21%)

Magenta (25%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.9879, 49.8182, 7.3502 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 42.9879, 49.8182, 7.3502 by changing the saturation by 10% instead.





 42.9879, 49.8182,  
7.3502


 42.9879, 49.8182,  
7.3502


349.4844,  
385.9546, 180.2825

 30.0701, 35.2690,  
3.6003


 78.9484, 89.9055,  
21.1991

 20.0401, 23.8701,  
1.4087


 102.7219,  
116.2123, 32.1352


 12.5327, 15.2373,  
0.1485


 130.8446,  
147.2071, 46.3037

 7.1823, 8.9861,  
0.0000

 163.6819,  
183.2742, 64.1233

 3.6237, 4.7321,  
0.0000

 201.5992,  
224.7982, 86.0124

 1.4915, 2.0910,  
0.0000

 244.9618,

 0.3201, 0.6595,

272.1633, 112.3896

0.0000

294.1350,  
325.7539, 143.6735

■ 0.0000, 0.0000,  
0.0000

■ 42.9879, 49.8182,  
7.3502

■ 42.9879, 49.8182,  
7.3502

■ 42.9886, 49.8200,  
7.3505

■ 43.3578, 50.3532,  
8.1062

■ 43.8623, 50.9430,  
9.5665

■ 44.5485, 51.6083,  
11.9751

■ 45.4410, 52.3591,  
15.4609

■ 46.5605, 53.2036,  
20.1328

■ 47.9250, 54.1490,  
26.0864

■ 49.5509, 55.2019,  
33.4075

■ 51.4531, 56.3682,  
42.1745

■ 53.6454, 57.6535,  
52.4600

# Harmonies

## Analogous

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



57.9765, 49.8182, 8.5015



42.9879, 49.8182, 7.3502



31.7503, 49.8182, 12.8295

# Triad

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



42.9879, 49.8182, 7.3502



28.8102, 49.8182, 122.4572



78.6598, 49.8182, 87.8916

# Complementary

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



42.9879, 49.8182, 7.3502



10.7807, 4.5041, 56.1777

# 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.



67.3714, 49.8182, 143.0445



42.9879, 49.8182, 7.3502



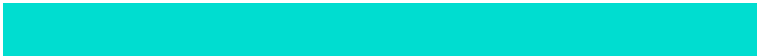
38.1097, 49.8182, 169.1059

# Square

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



42.9879, 49.8182, 7.3502



24.7426, 49.8182, 68.1925



51.9991, 49.8182, 178.1267



80.7118, 49.8182, 42.3396



# Rectangle

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



42.9879, 49.8182, 7.3502



27.1319, 49.8182, 22.7097



51.9991, 49.8182, 178.1267



75.7235, 49.8182, 106.4307

# Sweetspot

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



42.9890, 49.8206, 7.3512



83.7722, 93.3865, 55.9933



24.4329, 12.5872, 1.5393



17.6687, 19.8213, 10.7977



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.



42.9890, 49.8206, 7.3512



72.7310, 84.2421, 12.4270



28.1219, 45.8500, 7.3684



12.0995, 12.9880, 11.9487



27.6846, 32.1022, 4.7372



1.4446, 1.6888, 0.2498



# Inverse Universe

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



10.7807, 4.5041, 56.1777



18.2054, 7.5308, 95.1018



14.6424, 6.3173, 56.3241



10.6499, 10.9403, 14.1208



6.9579, 2.9398, 36.1570

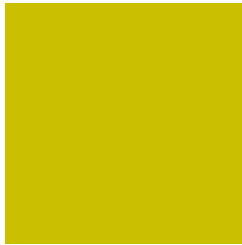


0.3765, 0.1868, 1.8711



# Previews

## White Background



This preview shows how the XYZ color 42.9879, 49.8182, 7.3502 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 42.9879, 49.8182, 7.3502 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 42.9879, 49.8182, 7.3502**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.9879, 49.8182, 7.3502.



This preview shows how white text looks on a background with the XYZ color 42.9879, 49.8182,



# 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

42.9879, 49.8182, 7.3502

### Protanopia

44.8472, 49.8153, 7.2516

### Deuteranopia

50.7103, 49.7528, 7.9674



## Tritanopia

53.0559, 49.8985, 56.1252

# Trichromacy



## Original Color

42.9879, 49.8182, 7.3502

## Protanomaly

44.2100, 49.8051, 7.2832

## Deuteranomaly

47.7751, 49.7547, 7.6159

## Tritanomaly

47.0247, 48.9738, 25.3868

# Monochromacy



## Original Color

42.9879, 49.8182, 7.3502

## Achromatopsia

39.7200, 41.7885, 45.5077

## Achromatomaly

38.9029, 43.9587, 21.1863

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.9879, 49.8182, 7.3502 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(202, 191, 0)` looks like.

```
.text, #text, p{  
    color:rgb(202, 191, 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(202, 191, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 191, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 42.9879, 49.8182, 7.3502 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(202, 191, 0) }
```



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

```
.border{ border-color:rgb(202, 191, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 191, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 191, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 191, 0);  
box-shadow:4px 4px 4px 4px rgb(202, 191,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.9879, 49.8182, 7.3502 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 191, 0) }
```

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

```
.background{ background-color: rgb(202,  
191, 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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