

# Converting Colors

XYZ(38.9434, 40.9204, 5.8459)

Have a look what the booklet for  
XYZ(38.9434, 40.9204, 5.8459)  
contains.

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# Color

**XYZ(38.9045, 40.8426,  
5.8329)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CCA800
RGB	204, 168, 0
RGB Percent	80%, 66%, 0%
CMY	0.2000, 0.3412, 0.9999
CMYK	0.00, 0.18, 1.00, 0.20
HSL	49°, 100%, 40%
HSV	49°, 100%, 80%
XYZ	38.9045, 40.8426, 5.8329
YIQ	159.6120, 75.3840, -44.6160

# Conversions

## Conversions Part 2

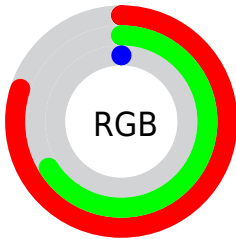
Format	Color
<a href="#">RYB</a>	<a href="#">44, 204, 0</a>
Decimal	<a href="#">13412352</a>
<a href="#">CIELab</a>	<a href="#">70.07, 0.27, 72.99</a>
<a href="#">CIElCh</a>	<a href="#">70, 72.995, 89.788</a>
<a href="#">Yxy</a>	<a href="#">40.8426, 0.4546, 0.4772</a>
<a href="#">Android (android.graphics.Color)</a>	<a href="#">4291602432 (0xFFCCA800)</a>
<a href="#">YUV</a>	<a href="#">159.6120, -78.6887, 38.9283</a>
<a href="#">Hunter-Lab</a>	<a href="#">63.9082, -3.1765, 39.3244</a>

# Details

The XYZ color **38.9045, 40.8426, 5.8329** is a dark color, and the websafe version is hex **CC9900**. The color can be described as dark washed orange. A complement of this color would be **11.5304, 5.6220, 57.6039**, and the grayscale version is **33.5630, 35.3109, 38.4536**.

A 20% lighter version of the original color is **69.0028, 74.5854, 17.9673**, and **18.0383, 18.7423, 2.6669** is the 20% darker color. If you saturate the color by 10%, you get **38.9048, 40.8436, 5.8331**, and if you desaturate by 10%, it is **39.7092, 42.2442, 6.7424**.

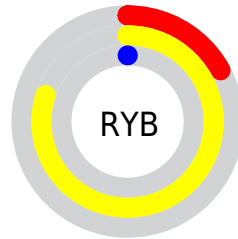
# Distribution



Red (80%)

Green (66%)

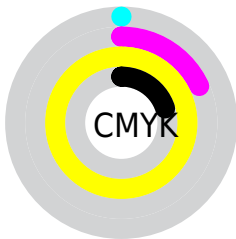
Blue (0%)



Red (17%)

Yellow (80%)

Blue (0%)

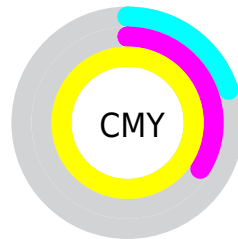


Cyan (0%)

Magenta (18%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (34%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.9045, 40.8426, 5.8329 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 38.9045, 40.8426, 5.8329 by changing the saturation by 10% instead.



38.9045, 40.8426,  
5.8329

38.9045, 40.8426,  
5.8329

332.6985,  
349.6623, 166.8244

26.8658, 28.1961,  
2.6766

72.7874, 76.4449,  
18.0547

17.6086, 18.4735,  
0.9316

95.3624, 100.1695,  
27.9573

10.7673, 11.2905,  
0.0000

122.1801,  
128.3556, 40.9457

5.9767, 6.2626,  
0.0000

153.6060,  
161.3876, 57.4385

2.8715, 3.0054,  
0.0000

190.0055,  
199.6499, 77.8543

1.0862, 1.1346,  
0.0000

231.7438,

0.0135, 0.0073,

243.5268, 102.6115

0.0000

279.1863,  
293.4028, 132.1287

0.0000, 0.0000,  
0.0000

38.9045, 40.8426,  
5.8329

38.9045, 40.8426,  
5.8329

38.9048, 40.8436,  
5.8331

39.7092, 42.2442,  
6.7424

40.6686, 43.7358,  
8.3793

41.8307, 45.3384,  
10.9918

43.2209, 47.0623,  
14.7120

44.8604, 48.9163,  
19.6517

■ 46.7680, 50.9081,  
25.9088

■ 48.9605, 53.0447,  
33.5713

■ 51.4533, 55.3324,  
42.7197

■ 54.2607, 57.7771,  
53.4283

# Harmonies

## Analogous

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



51.5301, 40.8426, 8.4499



38.9045, 40.8426, 5.8329



28.5121, 40.8426, 8.3699

# Triad

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



38.9045, 40.8426, 5.8329



22.1350, 40.8426, 85.6907



62.1805, 40.8426, 86.3435

# Complementary

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



38.9045, 40.8426, 5.8329



11.5304, 5.6220, 57.6039

# 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.



51.3529, 40.8426, 129.2030



38.9045, 40.8426, 5.8329



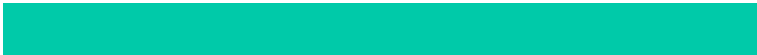
28.3927, 40.8426, 128.7093

# Square

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



38.9045, 40.8426, 5.8329



20.1177, 40.8426, 44.2283



38.7350, 40.8426, 147.6743



66.5394, 40.8426, 44.7139



# Rectangle

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



38.9045, 40.8426, 5.8329



23.8180, 40.8426, 14.1322



38.7350, 40.8426, 147.6743



59.0804, 40.8426, 101.7220

# Sweetspot

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



38.9054, 40.8446, 5.8337



80.9300, 87.7022, 55.0459



25.2423, 12.9738, 2.9582



16.9795, 18.4429, 10.5680



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.



38.9054, 40.8446, 5.8337



64.2876, 67.3551, 9.6125



32.3080, 48.7094, 7.6995



11.9789, 12.7468, 11.9085



24.5486, 25.8302, 3.6919



1.3117, 1.4232, 0.2056



# Inverse Universe

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



11.5304, 5.6220, 57.6039



18.9882, 9.0965, 95.3627



13.0535, 5.4705, 57.4943



10.7592, 11.1588, 14.1572



7.3055, 3.6349, 36.2728

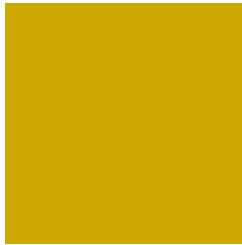


0.4272, 0.2881, 1.8880



# Previews

## White Background



This preview shows how the XYZ color 38.9045, 40.8426, 5.8329 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 38.9045, 40.8426, 5.8329 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 38.9045, 40.8426, 5.8329**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.9045, 40.8426, 5.8329.



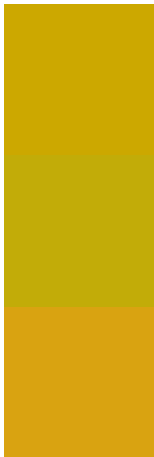
This preview shows how white text looks on a background with the XYZ color 38.9045, 40.8426,



# 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

38.9045, 40.8426, 5.8329

### Protanopia

37.0445, 40.9919, 6.1895

### Deuteranopia

41.8136, 40.9866, 6.2377



## Tritanopia

46.3969, 40.7502, 42.4660

# Trichromacy



## Original Color

38.9045, 40.8426, 5.8329

## Protanomaly

37.8790, 41.1425, 6.0884

## Deuteranomaly

40.6669, 40.9315, 6.0738

## Tritanomaly

41.8030, 39.9048, 19.4091

# Monochromacy



## Original Color

38.9045, 40.8426, 5.8329

## Achromatopsia

33.4132, 35.1533, 38.2819

## Achromatomaly

33.4000, 36.3838, 17.8328

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.9045, 40.8426, 5.8329 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(204, 168, 0)` looks like.

```
.text, #text, p{  
    color:rgb(204, 168, 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(204, 168, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 168, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 38.9045, 40.8426, 5.8329 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(204, 168, 0) }
```



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

```
.border{ border-color:rgb(204, 168, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 168, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 168, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 168, 0);  
box-shadow:4px 4px 4px 4px rgb(204, 168,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.9045, 40.8426, 5.8329 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 168, 0) }
```

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

```
.background{ background-color: rgb(204,  
168, 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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