

# Converting Colors

XYZ(40.1803, 37.9919, 5.2154)

Have a look what the booklet for  
XYZ(40.1803, 37.9919, 5.2154)  
contains.

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# Color

**XYZ(40.3366, 38.1944,  
5.2463)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D99B00
RGB	217, 155, 0
RGB Percent	85%, 61%, 0%
CMY	0.1490, 0.3921, 0.9999
CMYK	0.00, 0.29, 1.00, 0.15
HSL	43°, 100%, 43%
HSV	43°, 100%, 85%
XYZ	40.3366, 38.1944, 5.2463
YIQ	155.8680, 86.7070, -35.0610

# Conversions

## Conversions Part 2

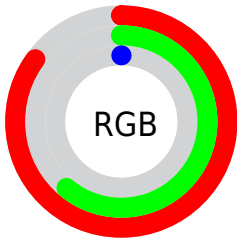
Format	Color
<a href="#">RYB</a>	<a href="#">87, 217, 0</a>
Decimal	<a href="#">14260992</a>
CIELab	<a href="#">68.16, 12.97, 72.33</a>
CIELCh	<a href="#">68, 73.486, 79.836</a>
Yxy	<a href="#">38.1944, 0.4815, 0.4559</a>
Android (android.graphics.Color)	<a href="#">4292451072</a> ( <a href="#">0xFFD99B00</a> )
YUV	<a href="#">155.8680, -76.8429, 53.6128</a>
Hunter-Lab	<a href="#">61.8016, 8.3503, 38.2280</a>

# Details

The XYZ color **40.3366, 38.1944, 5.2463** 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 **14.2475, 8.4558, 66.5263**, and the grayscale version is **31.8476, 33.5061, 36.4882**.

A 20% lighter version of the original color is **65.3450, 67.3827, 16.3996**, and **18.6606, 16.9685, 2.2917** is the 20% darker color. If you saturate the color by 10%, you get **40.3367, 38.1950, 5.2464**, and if you desaturate by 10%, it is **41.5380, 40.3701, 6.3476**.

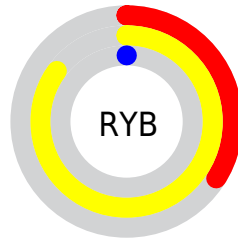
# Distribution



Red (85%)

Green (61%)

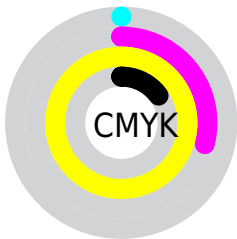
Blue (0%)



Red (34%)

Yellow (85%)

Blue (0%)

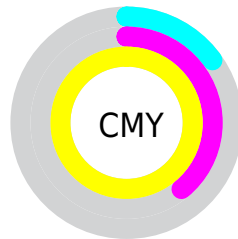


Cyan (0%)

Magenta (29%)

Yellow (100%)

Black (15%)



Cyan (15%)

Magenta (39%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.3366, 38.1944, 5.2463 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 40.3366, 38.1944, 5.2463 by changing the saturation by 10% instead.





 40.3366, 38.1944,  
5.2463

 40.3366, 38.1944,  
5.2463


338.6504,  
338.4532, 161.2077


 27.9865, 26.1336,  
2.3312


 74.9569, 72.4060,  
16.7950


 18.4559, 16.9236,  
0.7486


 97.9578, 95.3256,  
26.2658


 11.3794, 10.1800,  
0.0000


 125.2396,  
122.6336, 38.7588

 6.3918, 5.5185,  
0.0000

 157.1677,  
154.7144, 54.6928

 3.1277, 2.5546,  
0.0000

 194.1075,  
191.9523, 74.4860


 1.2216, 0.9039,  
0.0000

 236.4243,


 0.1233, 0.0000,


234.7318, 98.5573


0.0000


 284.4835,  
283.4373, 127.3250


 0.0000, 0.0000,  
0.0000


 40.3366, 38.1944,  
5.2463


 40.3366, 38.1944,  
5.2463


 40.3367, 38.1950,  
5.2464

 41.5380, 40.3701,  
6.3476

 42.9518, 42.7153,  
8.3066

 44.6323, 45.2543,  
11.4009

 46.6096, 48.0005,  
15.7854

 48.9091, 50.9650,  
21.5906

■ 51.5532, 54.1581,  
28.9308

■ 54.5620, 57.5889,  
37.9087

■ 57.9540, 61.2658,  
48.6181

■ 61.7463, 65.1968,  
61.1456

# Harmonies

## Analogous

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



52.4716, 38.1944, 9.5793



40.3366, 38.1944, 5.2463



29.3195, 38.1944, 5.9708

# Triad

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



40.3366, 38.1944, 5.2463



19.2536, 38.1944, 66.9213



55.9062, 38.1944, 97.0976

# Complementary

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



40.3366, 38.1944, 5.2463



14.2475, 8.4558, 66.5263

# 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.



44.3149, 38.1944, 133.8277



40.3366, 38.1944, 5.2463



23.8517, 38.1944, 110.9665

# Square

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



40.3366, 38.1944, 5.2463



18.6297, 38.1944, 31.4043



32.5470, 38.1944, 139.9275



62.6350, 38.1944, 53.7630



# Rectangle

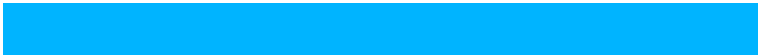
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



40.3366, 38.1944, 5.2463



23.9250, 38.1944, 9.4921



32.5470, 38.1944, 139.9275



52.3479, 38.1944, 111.4151

# Sweetspot

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



40.3374, 38.1963, 5.2470



78.5058, 82.8538, 54.2378



29.5725, 15.1348, 6.3804



16.3958, 17.2756, 10.3734



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.



40.3374, 38.1963, 5.2470



57.9979, 54.7757, 7.5160



42.1798, 58.5783, 9.0840



13.8315, 14.6024, 13.8151



24.5122, 23.3100, 3.2073



1.6602, 1.6544, 0.2318



# Inverse Universe

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



14.2475, 8.4558, 66.5263



20.4230, 11.9659, 95.8410



13.5380, 5.5325, 65.9994



12.6402, 13.2201, 16.5377



8.7027, 5.2748, 40.2979



0.6366, 0.4872, 2.6349



# Previews

## White Background



This preview shows how the XYZ color 40.3366, 38.1944, 5.2463 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

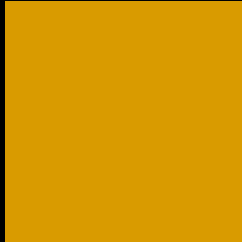
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.3366, 38.1944, 5.2463 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 40.3366, 38.1944, 5.2463**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.3366, 38.1944, 5.2463.



This preview shows how white text looks on a background with the XYZ color 40.3366, 38.1944,



# 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

40.3366, 38.1944, 5.2463

### Protanopia

34.6304, 38.3579, 5.9594

### Deuteranopia

39.0908, 38.3026, 5.3328



## Tritanopia

46.6301, 38.1604, 35.9184

# Trichromacy



## Original Color

40.3366, 38.1944, 5.2463

## Protanomaly

36.6942, 38.3540, 5.6988

## Deuteranomaly

39.4975, 38.2601, 5.3032

## Tritanomaly

42.6608, 37.4528, 16.7850

# Monochromacy



## Original Color

40.3366, 38.1944, 5.2463

## Achromatopsia

31.5995, 33.2452, 36.2040

## Achromatomaly

32.5007, 34.1428, 16.6816

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.3366, 38.1944, 5.2463 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(217, 155, 0)` looks like.

```
.text, #text, p{  
    color:rgb(217, 155, 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(217, 155, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(217, 155, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 40.3366, 38.1944, 5.2463 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(217, 155, 0) }
```



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

```
.border{ border-color:rgb(217, 155, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(217, 155, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(217, 155, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(217, 155, 0);  
box-shadow:4px 4px 4px 4px rgb(217, 155,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.3366, 38.1944, 5.2463 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(217, 155, 0) }
```

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

```
.background{ background-color: rgb(217,  
155, 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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