

# Converting Colors

XYZ(38.2721, 38.9334, 4.7671)

Have a look what the booklet for  
XYZ(38.2721, 38.9334, 4.7671)  
contains.

<b>XYZ(38.3739, 38.9625, 5.4980)</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(38.3739, 38.9625,  
5.4980)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CEA200
RGB	206, 162, 0
RGB Percent	81%, 64%, 0%
CMY	0.1922, 0.3647, 0.9999
CMYK	0.00, 0.21, 1.00, 0.19
HSL	47°, 100%, 40%
HSV	47°, 100%, 81%
XYZ	38.3739, 38.9625, 5.4980
YIQ	156.6880, 78.2260, -41.0540

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	56, 206, 0
Decimal	13541888
CIELab	68.72, 4.36, 72.15
CIELCh	69, 72.285, 86.545
Yxy	38.9625, 0.4633, 0.4704
Android (android.graphics.Color)	4291731968 (0xFFCEA200)
YUV	156.6880, -77.2472, 43.2466
Hunter-Lab	62.4199, 0.5015, 38.4717

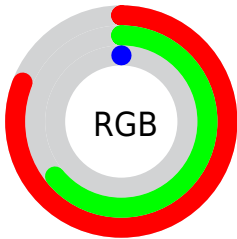
# Details

The XYZ color **38.3739, 38.9625, 5.4980** 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 **12.0416, 6.2583, 58.9652**, and the grayscale version is **32.2207, 33.8987, 36.9157**.

A 20% lighter version of the original color is **67.1354, 70.9076, 17.1693**, and **17.5385, 17.4799, 2.4496** is the 20% darker color. If you saturate the color by 10%, you get **38.3741, 38.9632, 5.4981**, and if you desaturate by 10%, it is **39.2952, 40.5945, 6.4553**.

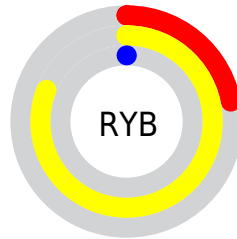
# Distribution



Red (81%)

Green (64%)

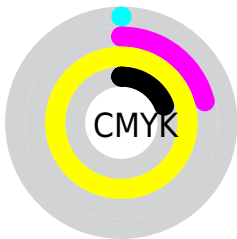
Blue (0%)



Red (22%)

Yellow (81%)

Blue (0%)

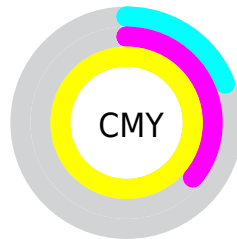


Cyan (0%)

Magenta (21%)

Yellow (100%)

Black (19%)



Cyan (19%)

Magenta (36%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.3739, 38.9625, 5.4980 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 38.3739, 38.9625, 5.4980 by changing the saturation by 10% instead.





 38.3739, 38.9625,  
5.4980


 38.3739, 38.9625,  
5.4980


330.4744,  
341.7310, 163.6507


 26.4515, 26.7306,  
2.4785


 71.9811, 73.5810,  
17.3390


 17.2962, 17.3710,  
0.8287


 94.3966, 96.7364,  
26.9976

 10.5425, 10.4993,  
0.0000


 121.0406,  
124.3017, 39.7063

 5.8251, 5.7313,  
0.0000

 152.2783,  
156.6613, 55.8837

 2.7787, 2.6824,  
0.0000

 188.4752,  
194.1997, 75.9483

 1.0378, 0.9682,  
0.0000

 229.9966,

 0.0000, 0.0000,

237.3012, 100.3187

0.0000

277.2079,  
286.3501, 129.4133

38.3739, 38.9625,  
5.4980

38.3739, 38.9625,  
5.4980

38.3741, 38.9632,  
5.4981

39.2952, 40.5945,  
6.4553

40.3835, 42.3355,  
8.1607

41.6876, 44.2072,  
10.8665

43.2337, 46.2202,  
14.7084

45.0436, 48.3839,  
19.8008

■ 47.1367, 50.7063,  
26.2442

■ 49.5303, 53.1949,  
34.1287

■ 52.2404, 55.8563,  
43.5368

■ 55.2815, 58.6968,  
54.5446

# Harmonies

## Analogous

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



50.5267, 38.9625, 8.5870



38.3739, 38.9625, 5.4980



28.0489, 38.9625, 7.3438

# Triad

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



38.3739, 38.9625, 5.4980



20.6382, 38.9625, 77.2515



58.5763, 38.9625, 87.4756

# Complementary

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



38.3739, 38.9625, 5.4980



12.0416, 6.2583, 58.9652

# 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.



47.7551, 38.9625, 127.3844



38.3739, 38.9625, 5.4980



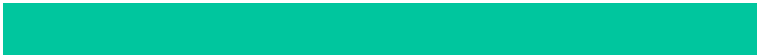
26.1844, 38.9625, 119.6465

# Square

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



38.3739, 38.9625, 5.4980



19.1335, 38.9625, 38.7399



35.7231, 38.9625, 141.4520



63.6057, 38.9625, 46.3335



# Rectangle

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



38.3739, 38.9625, 5.4980



23.2534, 38.9625, 12.1774



35.7231, 38.9625, 141.4520



55.3993, 38.9625, 102.1547

# Sweetspot

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



38.3748, 38.9644, 5.4988



80.0937, 86.0294, 54.7671



25.9203, 13.3087, 3.6496



16.7777, 18.0392, 10.5007



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.



38.3748, 38.9644, 5.4988



62.0191, 62.8183, 8.8564



34.2183, 50.4043, 7.9259



11.9426, 12.6741, 11.8963



23.7028, 24.1385, 3.4099



1.2749, 1.3495, 0.1933



# Inverse Universe

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



12.0416, 6.2583, 58.9652



19.3908, 9.9015, 95.4969



12.9076, 5.3674, 58.7476



10.7927, 11.2259, 14.1684



7.4729, 3.9698, 36.3286



0.4426, 0.3189, 1.8932



# Previews

## White Background



This preview shows how the XYZ color 38.3739, 38.9625, 5.4980 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 38.3739, 38.9625, 5.4980 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 38.3739, 38.9625, 5.4980**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.3739, 38.9625, 5.4980.



This preview shows how white text looks on a background with the XYZ color 38.3739, 38.9625,



# 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

38.3739, 38.9625, 5.4980

### Protanopia

35.2926, 38.9743, 5.9498

### Deuteranopia

39.6159, 38.8199, 5.7528



## Tritanopia

45.3198, 39.0380, 39.3289

# Trichromacy



## Original Color

38.3739, 38.9625, 5.4980

## Protanomaly

36.4340, 39.0213, 5.7839

## Deuteranomaly

39.1930, 38.8608, 5.6649

## Tritanomaly

41.0335, 38.2708, 18.0563

# Monochromacy



## Original Color

38.3739, 38.9625, 5.4980

## Achromatopsia

32.0474, 33.7164, 36.7171

## Achromatomaly

32.3776, 34.8303, 17.0730

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.3739, 38.9625, 5.4980 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(206, 162, 0)` looks like.

```
.text, #text, p{  
    color:rgb(206, 162, 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(206, 162, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(206, 162, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 38.3739, 38.9625, 5.4980 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(206, 162, 0) }
```



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

```
.border{ border-color:rgb(206, 162, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(206, 162, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(206, 162, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(206, 162, 0);  
box-shadow:4px 4px 4px 4px rgb(206, 162,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.3739, 38.9625, 5.4980 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(206, 162, 0) }
```

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

```
.background{ background-color: rgb(206,  
162, 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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