

# Converting Colors

XYZ(38.3240, 38.6433, 5.7806)

Have a look what the booklet for  
XYZ(38.3240, 38.6433, 5.7806)  
contains.

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# Color

**XYZ(38.2648, 38.6381,  
5.7890)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CEA10C
RGB	206, 161, 12
RGB Percent	81%, 63%, 5%
CMY	0.1922, 0.3686, 0.9529
CMYK	0.00, 0.22, 0.94, 0.19
HSL	46°, 89%, 43%
HSV	46°, 94%, 81%
XYZ	38.2648, 38.6381, 5.7890
YIQ	157.4690, 74.6490, -36.7990

# Conversions

## Conversions Part 2

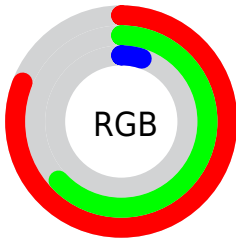
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	71, 206, 12
Decimal	13541644
CIE <sub>Lab</sub>	68.49, 5.02, 70.46
CIE <sub>LCh</sub>	68, 70.644, 85.923
Yxy	38.6381, 0.4627, 0.4673
Android (android.graphics.Color)	4291731724 (0xFFCEA10C)
YUV	157.4690, -71.7162, 42.5617
Hunter-Lab	62.1596, 1.1036, 37.9899

# Details

The XYZ color **38.2648, 38.6381, 5.7890** 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 **12.7558, 7.4615, 59.1598**, and the grayscale version is **32.5510, 34.2462, 37.2941**.

A 20% lighter version of the original color is **66.9884, 70.4401, 17.6550**, and **17.6086, 17.3549, 2.4218** is the 20% darker color. If you saturate the color by 10%, you get **37.7176, 37.6502, 5.2793**, and if you desaturate by 10%, it is **39.3194, 40.4232, 7.1408**.

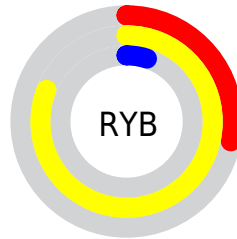
# Distribution



Red (81%)

Green (63%)

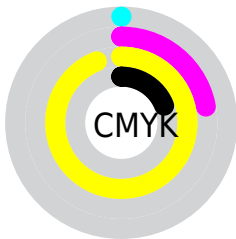
Blue (5%)



Red (28%)

Yellow (81%)

Blue (5%)

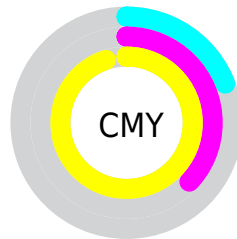


Cyan (0%)

Magenta (22%)

Yellow (94%)

Black (19%)



Cyan (19%)

Magenta (37%)

Yellow (95%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.2648, 38.6381, 5.7890 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 38.2648, 38.6381, 5.7890 by changing the saturation by 10% instead.



■ 38.2648, 38.6381,  
5.7890

■ 38.2648, 38.6381,  
5.7890

330.0158,  
340.3494, 166.4131

■ 26.3664, 26.4783,  
2.6505

■ 71.8151, 73.0851,  
17.9614

■ 17.2321, 17.1818,  
0.9184

■ 94.1978, 96.1412,  
27.8324

■ 10.4964, 10.3642,  
0.0000

■ 120.8059,  
123.5981, 40.7846

■ 5.7941, 5.6411,  
0.0000

■ 152.0048,  
155.8402, 57.2366

■ 2.7598, 2.6281,  
0.0000

■ 188.1599,  
193.2520, 77.6069

■ 1.0280, 0.9408,  
0.0000

■ 229.6365,

■ 0.0000, 0.0000,

236.2179, 102.3141

0.0000

276.8000,  
285.1222, 131.7766

■ 38.2648, 38.6381,  
5.7890

■ 38.2648, 38.6381,  
5.7890

■ 37.7176, 37.6502,  
5.2793

■ 39.3194, 40.4232,  
7.1408

■ 40.5812, 42.3412,  
9.4279

■ 42.0793, 44.4060,  
12.7992

■ 43.8374, 46.6274,  
17.3769

■ 45.8758, 49.0141,  
23.2667

■ 48.2128, 51.5740,  
30.5627

■ 50.8647, 54.3142,  
39.3504

■ 53.8470, 57.2413,  
49.7085

■ 57.1736, 60.3613,  
61.7098

# Harmonies

## Analogous

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



50.0477, 38.6381, 9.0109



38.2648, 38.6381, 5.7890



28.1513, 38.6381, 7.5412

# Triad

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



38.2648, 38.6381, 5.7890



20.6615, 38.6381, 74.9017



57.4229, 38.6381, 86.5275

# Complementary

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



38.2648, 38.6381, 5.7890



12.7558, 7.4615, 59.1598

# 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.



46.8821, 38.6381, 124.6196



38.2648, 38.6381, 5.7890



26.0041, 38.6381, 115.8582

# Square

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



38.2648, 38.6381, 5.7890



19.2655, 38.6381, 37.8672



35.2258, 38.6381, 137.4173



62.4329, 38.6381, 46.5735



# Rectangle

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



38.2648, 38.6381, 5.7890



23.4110, 38.6381, 12.2415



35.2258, 38.6381, 137.4173



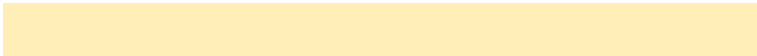
54.3170, 38.6381, 100.6257

# Sweetspot

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



38.2657, 38.6400, 5.7897



80.5524, 86.1091, 57.5030



26.3305, 13.6832, 5.1607



16.8465, 18.0196, 11.0086



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.



38.2657, 38.6400, 5.7897



60.9471, 60.6743, 8.4990



35.5154, 51.0653, 8.3330



11.9247, 12.6383, 11.8904



23.3024, 23.3378, 3.2765



1.2573, 1.3142, 0.1874



# Inverse Universe

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



12.7558, 7.4615, 59.1598



19.6215, 10.3629, 95.5738



13.3698, 5.8009, 58.8069



10.8094, 11.2593, 14.1739



7.5674, 4.1588, 36.3602



0.4502, 0.3342, 1.8957



# Previews

## White Background



This preview shows how the XYZ color 38.2648, 38.6381, 5.7890 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 38.2648, 38.6381, 5.7890 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 38.2648, 38.6381, 5.7890**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.2648, 38.6381, 5.7890.



This preview shows how white text looks on a background with the XYZ color 38.2648, 38.6381,



# 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

38.2648, 38.6381, 5.7890

### Protanopia

35.0751, 38.8586, 6.1037

### Deuteranopia

39.3556, 38.6826, 5.8824



## Tritanopia

45.0709, 38.6820, 38.8091

# Trichromacy



## Original Color

38.2648, 38.6381, 5.7890

## Protanomaly

36.0401, 38.5441, 5.9557

## Deuteranomaly

38.9515, 38.7314, 5.8749

## Tritanomaly

41.0734, 38.0216, 19.0840

# Monochromacy



## Original Color

38.2648, 38.6381, 5.7890

## Achromatopsia

32.0474, 33.7164, 36.7171

## Achromatomaly

32.4047, 34.5672, 18.0609

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.2648, 38.6381, 5.7890 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, 161, 12)` looks like.

```
.text, #text, p{  
    color:rgb(206, 161, 12)  
}
```

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, 161, 12) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(206, 161, 12) }
```

## Border

The CSS property to change the border of an element to XYZ 38.2648, 38.6381, 5.7890 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, 161, 12) }
```



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

```
.border{ border-color:rgb(206, 161, 12) }
```

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

Here you see how a box with a 4 pixel `rgb(206, 161, 12)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(206, 161, 12); -webkit-box-  
shadow:4px 4px 4px 4px rgb(206, 161, 12);  
box-shadow:4px 4px 4px 4px rgb(206, 161,  
12) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.2648, 38.6381, 5.7890 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(206, 161, 12) }
```

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

```
.background{ background-color: rgb(206,  
161, 12) }
```

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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