

# Converting Colors

XYZ(36.4480, 38.2956, 3.1926)

Have a look what the booklet for  
XYZ(36.4480, 38.2956, 3.1926)  
contains.

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# Color

**XYZ(36.9166, 38.4737,  
5.4805)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C8A300
RGB	200, 163, 0
RGB Percent	78%, 64%, 0%
CMY	0.2157, 0.3608, 0.9999
CMYK	0.00, 0.18, 1.00, 0.22
HSL	49°, 100%, 39%
HSV	49°, 100%, 78%
XYZ	36.9166, 38.4737, 5.4805
YIQ	155.4810, 74.3750, -42.8490

# Conversions

## Conversions Part 2

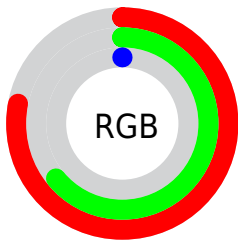
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	45, 200, 0
Decimal	13148928
CIELab	68.37, 1.15, 71.62
CIElCh	68, 71.628, 89.079
Yxy	38.4737, 0.4565, 0.4757
Android (android.graphics.Color)	4291339008 (0xFFC8A300)
YUV	155.4810, -76.6521, 39.0432
Hunter-Lab	62.0272, -2.3100, 38.1804

# Details

The XYZ color **36.9166, 38.4737, 5.4805** 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 **11.0874, 5.4940, 55.1192**, and the grayscale version is **31.6775, 33.3272, 36.2934**.

A 20% lighter version of the original color is **67.6159, 71.9246, 17.1566**, and **16.7787, 17.2511, 2.4455** is the 20% darker color. If you saturate the color by 10%, you get **36.9168, 38.4744, 5.4806**, and if you desaturate by 10%, it is **37.7104, 39.8593, 6.3687**.

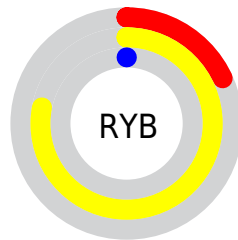
# Distribution



Red (78%)

Green (64%)

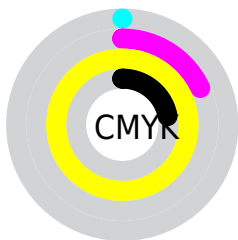
Blue (0%)



Red (18%)

Yellow (78%)

Blue (0%)

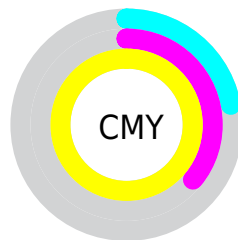


Cyan (0%)

Magenta (18%)

Yellow (100%)

Black (22%)



Cyan (22%)

Magenta (36%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.9166, 38.4737, 5.4805 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 36.9166, 38.4737, 5.4805 by changing the saturation by 10% instead.





 36.9166, 38.4737,  
5.4805


 36.9166, 38.4737,  
5.4805


324.3111,  
339.6477, 163.4825


 25.3163, 26.3505,  
2.4682


 69.7592, 72.8336,  
17.3014

 16.4429, 17.0861,  
0.8232


 91.7321, 95.8392,  
26.9470

 9.9309, 10.2959,  
0.0000


 117.8934,  
123.2410, 39.6409

 5.4151, 5.5956,  
0.0000

 148.6083,  
155.4234, 55.8016

 2.5300, 2.6008,  
0.0000

 184.2421,  
192.7709, 75.8475

 0.9104, 0.9270,  
0.0000

 225.1603,

 0.0000, 0.0000,

235.6679, 100.1973

0.0000

271.7282,  
284.4987, 129.2695

36.9166, 38.4737,  
5.4805

36.9166, 38.4737,  
5.4805

36.9168, 38.4744,  
5.4806

37.7104, 39.8593,  
6.3687

38.6532, 41.3340,  
7.9500

39.7915, 42.9182,  
10.4641

41.1493, 44.6216,  
14.0366

42.7468, 46.4527,  
18.7740

■ 44.6020, 48.4189,  
24.7695

■ 46.7308, 50.5268,  
32.1069

■ 49.1481, 52.7825,  
40.8628

■ 51.8674, 55.1918,  
51.1080

# Harmonies

## Analogous

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



48.8332, 38.4737, 8.0713



36.9166, 38.4737, 5.4805



27.0396, 38.4737, 7.7439

# Triad

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



36.9166, 38.4737, 5.4805



20.7480, 38.4737, 79.7393



58.4136, 38.4737, 82.4155

# Complementary

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



36.9166, 38.4737, 5.4805



11.0874, 5.4940, 55.1192

# 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.



48.1072, 38.4737, 122.5876



36.9166, 38.4737, 5.4805



26.5506, 38.4737, 120.5633

# Square

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



36.9166, 38.4737, 5.4805



18.9386, 38.4737, 40.9042



36.2218, 38.4737, 139.2307



62.7074, 38.4737, 42.8941



# Rectangle

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



36.9166, 38.4737, 5.4805



22.5503, 38.4737, 13.0249



36.2218, 38.4737, 139.2307



55.4458, 38.4737, 96.9060

# Sweetspot

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



36.9175, 38.4756, 5.4813



80.7367, 87.3155, 54.9815



24.2026, 12.4329, 3.1328



16.9328, 18.3495, 10.5524



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.



36.9175, 38.4756, 5.4813



63.7541, 66.2882, 9.4347



31.4702, 46.8841, 7.3914



11.3507, 12.0705, 11.2943



23.5342, 24.5855, 3.5051



1.1588, 1.2531, 0.1808



# Inverse Universe

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



11.0874, 5.4940, 55.1192



19.0734, 9.2668, 95.3911



12.2896, 5.1315, 54.9859



10.2128, 10.5996, 13.4252



7.0979, 3.5897, 35.0631

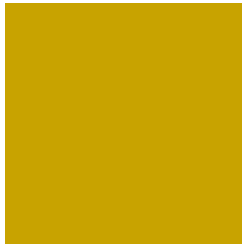


0.3856, 0.2689, 1.6767



# Previews

## White Background



This preview shows how the XYZ color 36.9166, 38.4737, 5.4805 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 36.9166, 38.4737, 5.4805 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 36.9166, 38.4737, 5.4805**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.9166, 38.4737, 5.4805.



This preview shows how white text looks on a background with the XYZ color 36.9166, 38.4737,



# 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

36.9166, 38.4737, 5.4805

### Protanopia

34.6016, 38.3463, 5.8076

### Deuteranopia

39.1771, 38.3371, 5.7869



## Tritanopia

43.9720, 38.3329, 39.7317

# Trichromacy



## Original Color

36.9166, 38.4737, 5.4805

## Protanomaly

35.4018, 38.4899, 5.7070

## Deuteranomaly

38.3577, 38.4289, 5.6830

## Tritanomaly

39.6736, 37.5640, 18.2562

# Monochromacy



## Original Color

36.9166, 38.4737, 5.4805

## Achromatopsia

31.1553, 32.7778, 35.6950

## Achromatomaly

31.2736, 34.0125, 16.7212

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.9166, 38.4737, 5.4805 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(200, 163, 0)` looks like.

```
.text, #text, p{  
    color:rgb(200, 163, 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(200, 163, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 163, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 36.9166, 38.4737, 5.4805 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(200, 163, 0) }
```



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

```
.border{ border-color:rgb(200, 163, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(200, 163, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(200, 163, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(200, 163, 0);  
box-shadow:4px 4px 4px 4px rgb(200, 163,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.9166, 38.4737, 5.4805 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 163, 0) }
```

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

```
.background{ background-color: rgb(200,  
163, 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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