

# Converting Colors

XYZ(30.1581, 28.1986, 2.2505)

Have a look what the booklet for  
XYZ(30.1581, 28.1986, 2.2505)  
contains.

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# Color

**XYZ(30.5174, 28.3877,  
3.8709)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C18600
RGB	193, 134, 0
RGB Percent	76%, 53%, 0%
CMY	0.2431, 0.4745, 1.0000
CMYK	0.00, 0.31, 1.00, 0.24
HSL	42°, 100%, 38%
HSV	42°, 100%, 76%
XYZ	30.5174, 28.3877, 3.8709
YIQ	136.3650, 78.1780, -29.1660

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	85, 193, 0
Decimal	12682752
CIE <sub>Lab</sub>	60.24, 13.77, 65.68
CIE <sub>LCh</sub>	60, 67.109, 78.160
Yxy	28.3877, 0.4861, 0.4522
Android (android.graphics.Color)	4290872832 (0xFFC18600)
YUV	136.3650, -67.2279, 49.6689
Hunter-Lab	53.2801, 8.9998, 32.9885

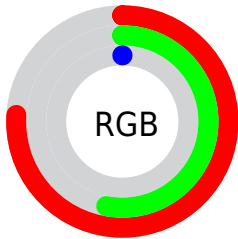
# Details

The XYZ color **30.5174, 28.3877, 3.8709** 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 **11.1897, 6.9784, 51.2088**, and the grayscale version is **23.7640, 25.0016, 27.2267**.

A 20% lighter version of the original color is **59.7489, 57.0537, 13.6577**, and **13.0800, 11.5653, 1.5429** is the 20% darker color. If you saturate the color by 10%, you get **30.5176, 28.3884, 3.8711**, and if you desaturate by 10%, it is **31.4765, 30.1139, 4.7836**.

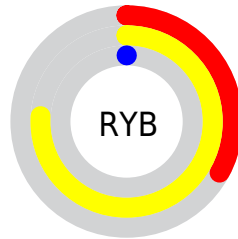
# Distribution



Red (76%)

Green (53%)

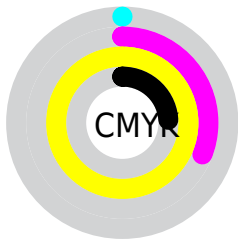
Blue (0%)



Red (33%)

Yellow (76%)

Blue (0%)

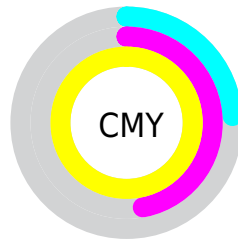


Cyan (0%)

Magenta (31%)

Yellow (100%)

Black (24%)



Cyan (24%)

Magenta (47%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.5174, 28.3877, 3.8709 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 30.5174, 28.3877, 3.8709 by changing the saturation by 10% instead.





 30.5174, 28.3877,  
3.8709


 30.5174, 28.3877,  
3.8709


296.1755,  
294.3149, 146.7794


 20.3817, 18.6181,  
1.5548


 59.8605, 57.1028,  
13.7109


 12.7827, 11.3947,  
0.2583


 79.7985, 76.8172,  
22.0719

 7.3550, 6.3330,  
0.0000


 103.7348,  
100.6152, 33.2849

 3.7334, 3.0486,  
0.0000

 132.0345,  
128.8814, 47.7685

 1.5524, 1.1571,  
0.0000

 165.0631,  
162.0000, 65.9412


 0.3611, 0.0263,  
0.0000


 203.1859,


 0.0000, 0.0000,


200.3555, 88.2216


0.0000

 246.7682,  
244.3324, 115.0281


 30.5174, 28.3877,  
3.8709


 30.5174, 28.3877,  
3.8709


 30.5176, 28.3884,  
3.8711

 31.4765, 30.1139,  
4.7836

 32.6007, 31.9789,  
6.3399

 33.9338, 34.0026,  
8.7655

 35.4985, 36.1950,  
12.1752

 37.3137, 38.5649,  
16.6666

■ 39.3965, 41.1201,  
22.3252

■ 41.7619, 43.8677,  
29.2279

■ 44.4240, 46.8143,  
37.4450

■ 47.3956, 49.9660,  
47.0417

# Harmonies

## Analogous

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



39.5787, 28.3877, 7.3535



30.5174, 28.3877, 3.8709



22.1504, 28.3877, 4.2190

# Triad

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



30.5174, 28.3877, 3.8709



14.1253, 28.3877, 48.1374



41.2660, 28.3877, 74.4648

# Complementary

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



30.5174, 28.3877, 3.8709



11.1897, 6.9784, 51.2088

# 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.



32.4688, 28.3877, 101.2450



30.5174, 28.3877, 3.8709



17.3889, 28.3877, 81.2969

# Square

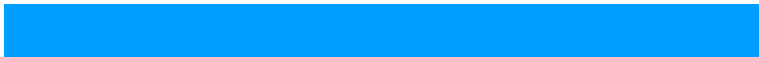
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



30.5174, 28.3877, 3.8709



13.8211, 28.3877, 22.1779



23.7301, 28.3877, 104.2542



46.6098, 28.3877, 41.6758



# Rectangle

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



30.5174, 28.3877, 3.8709



18.0026, 28.3877, 6.6285



23.7301, 28.3877, 104.2542



38.5383, 28.3877, 85.0769

# Sweetspot

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



30.5180, 28.3891, 3.8714



74.5840, 78.3269, 51.7090



22.8378, 11.6758, 5.4822



15.6032, 16.3475, 9.9162



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



30.5180, 28.3891, 3.8714



54.4302, 50.3888, 6.8572



33.0952, 45.3699, 7.0132



10.6452, 11.2218, 10.6668



20.3713, 19.0284, 2.5992



0.9387, 0.9393, 0.1318



# Inverse Universe

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



11.1897, 6.9784, 51.2088



19.8510, 12.1186, 91.6531



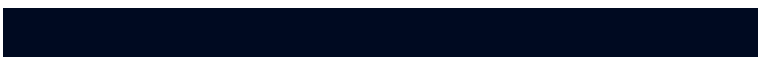
10.3321, 4.2146, 50.7205



9.7738, 10.2390, 12.7460



7.5050, 4.7665, 34.0811

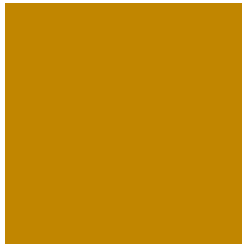


0.3866, 0.3306, 1.4933



# Previews

## White Background



This preview shows how the XYZ color 30.5174, 28.3877, 3.8709 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 30.5174, 28.3877, 3.8709 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 × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 30.5174, 28.3877, 3.8709**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.5174, 28.3877, 3.8709.



This preview shows how white text looks on a background with the XYZ color 30.5174, 28.3877,



# 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

30.5174, 28.3877, 3.8709

### Protanopia

25.6551, 28.4768, 4.4922

### Deuteranopia

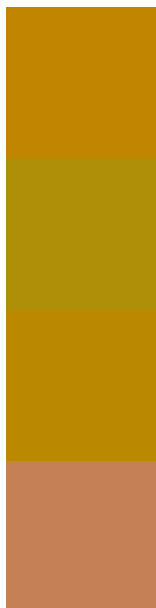
28.8556, 28.3673, 3.9546



## Tritanopia

35.1899, 28.5306, 26.2065

# Trichromacy



## Original Color

30.5174, 28.3877, 3.8709

## Protanomaly

27.3960, 28.4775, 4.2825

## Deuteranomaly

29.4392, 28.4561, 3.9410

## Tritanomaly

32.3848, 27.9645, 12.2852

# Monochromacy



## Original Color

30.5174, 28.3877, 3.8709

## Achromatopsia

23.4014, 24.6201, 26.8113

## Achromatomaly

24.2889, 25.1842, 12.5977

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.5174, 28.3877, 3.8709 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(193, 134, 0)` looks like.

```
.text, #text, p{  
    color:rgb(193, 134, 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(193, 134, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 134, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 30.5174, 28.3877, 3.8709 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(193, 134, 0) }
```



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

```
.border{ border-color:rgb(193, 134, 0) }
```

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

Here you see how a box with a 4 pixel rgb(193, 134, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 134, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 134, 0);  
box-shadow:4px 4px 4px 4px rgb(193, 134,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.5174, 28.3877, 3.8709 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 134, 0) }
```

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

```
.background{ background-color: rgb(193,  
134, 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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