

# Converting Colors

XYZ(30.8396, 28.9705, 3.9664)

Have a look what the booklet for  
XYZ(30.8396, 28.9705, 3.9664)  
contains.

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# Color

**XYZ(30.7965, 28.9458,  
3.9639)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C18800
RGB	193, 136, 0
RGB Percent	76%, 53%, 0%
CMY	0.2431, 0.4666, 1.0000
CMYK	0.00, 0.30, 1.00, 0.24
HSL	42°, 100%, 38%
HSV	42°, 100%, 76%
XYZ	30.7965, 28.9458, 3.9639
YIQ	137.5390, 77.6280, -30.2120

# Conversions

## Conversions Part 2

Format	Color
<b>RYB</b>	81, 193, 0
Decimal	12683264
CIELab	60.73, 12.67, 66.01
CIELCh	61, 67.219, 79.135
Yxy	28.9458, 0.4834, 0.4544
Android (android.graphics.Color)	4290873344 (0xFFC18800)
YUV	137.5390, -67.8067, 48.6393
Hunter-Lab	53.8013, 8.0232, 33.2926

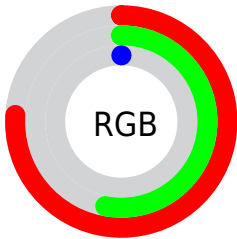
# Details

The XYZ color **30.7965, 28.9458, 3.9639** 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 **11.0889, 6.7768, 51.1753**, and the grayscale version is **24.2121, 25.4730, 27.7401**.

A 20% lighter version of the original color is **60.2080, 57.9210, 13.9678**, and **13.2397, 11.8847, 1.5962** is the 20% darker color. If you saturate the color by 10%, you get **30.7967, 28.9465, 3.9641**, and if you desaturate by 10%, it is **31.7415, 30.6438, 4.8719**.

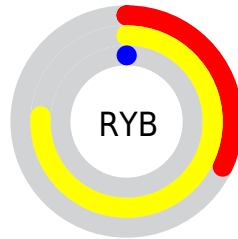
# Distribution



Red (76%)

Green (53%)

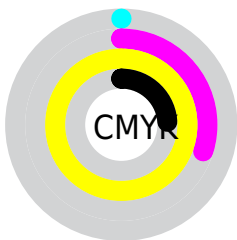
Blue (0%)



Red (32%)

Yellow (76%)

Blue (0%)

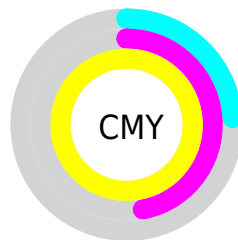


Cyan (0%)

Magenta (30%)

Yellow (100%)

Black (24%)



Cyan (24%)

Magenta (47%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.7965, 28.9458, 3.9639 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 30.7965, 28.9458, 3.9639 by changing the saturation by 10% instead.





 30.7965, 28.9458,  
3.9639


 30.7965, 28.9458,  
3.9639


297.4433,  
296.9591, 147.8233


 20.5950, 19.0398,  
1.6056


 60.2976, 57.9910,  
13.9264

 12.9391, 11.6991,  
0.2948


 80.3278, 77.8989,  
22.3677


 7.4633, 6.5391,  
0.0000


 104.3651,  
101.9097, 33.6737

 3.8024, 3.1756,  
0.0000

 132.7747,  
130.4076, 48.2629

 1.5910, 1.2241,  
0.0000

 165.9219,  
163.7772, 66.5539


 0.3865, 0.0812,  
0.0000


 204.1722,


 0.0000, 0.0000,


202.4027, 88.9653


0.0000


 247.8909,  
246.6685, 115.9156


 30.7965, 28.9458,  
3.9639


 30.7965, 28.9458,  
3.9639


 30.7967, 28.9465,  
3.9641

 31.7415, 30.6438,  
4.8719

 32.8487, 32.4748,  
6.4226

 34.1619, 34.4586,  
8.8414

 35.7036, 36.6051,  
12.2435

 37.4928, 38.9229,  
16.7262

■ 39.5463, 41.4196,  
22.3751

■ 41.8793, 44.1023,  
29.2670

■ 44.5056, 46.9775,  
37.4723

■ 47.4382, 50.0510,  
47.0559

# Harmonies

## Analogous

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



40.0110, 28.9458, 7.3583



30.7965, 28.9458, 3.9639



22.3717, 28.9458, 4.4313

# Triad

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



30.7965, 28.9458, 3.9639



14.5128, 28.9458, 50.0330



42.2473, 28.9458, 74.5545

# Complementary

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



30.7965, 28.9458, 3.9639



11.0889, 6.7768, 51.1753

# 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.



33.3852, 28.9458, 102.1736



30.7965, 28.9458, 3.9639



17.9319, 28.9458, 83.5952

# Square

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



30.7965, 28.9458, 3.9639



14.1079, 28.9458, 23.3016



24.4700, 28.9458, 106.1522



47.4922, 28.9458, 41.4668



# Rectangle

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



30.7965, 28.9458, 3.9639



18.2250, 28.9458, 7.0106



24.4700, 28.9458, 106.1522



39.5153, 28.9458, 85.3935

# Sweetspot

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



30.7971, 28.9473, 3.9644



74.7969, 78.7527, 51.7800



22.7536, 11.6421, 5.0383



15.6543, 16.4497, 9.9333



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.



30.7971, 28.9473, 3.9644



54.9334, 51.3953, 7.0250



32.4728, 45.0491, 6.9841



10.6541, 11.2397, 10.6698



20.5557, 19.3972, 2.6606



0.9456, 0.9530, 0.1341



# Inverse Universe

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



11.0889, 6.7768, 51.1753



19.6751, 11.7668, 91.5945



10.4476, 4.2741, 50.7260



9.7653, 10.2220, 12.7432



7.4365, 4.6295, 34.0583



0.3829, 0.3232, 1.4921



# Previews

## White Background



This preview shows how the XYZ color 30.7965, 28.9458, 3.9639 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 30.7965, 28.9458, 3.9639 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 30.7965, 28.9458, 3.9639**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.7965, 28.9458, 3.9639.



This preview shows how white text looks on a background with the XYZ color 30.7965, 28.9458,



# 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

30.7965, 28.9458, 3.9639

### Protanopia

26.2260, 29.0010, 4.5633

### Deuteranopia

29.4823, 28.9043, 4.0252



## Tritanopia

35.4580, 28.8414, 26.9907

# Trichromacy



## Original Color

30.7965, 28.9458, 3.9639

## Protanomaly

27.7708, 28.8926, 4.3429

## Deuteranomaly

30.0747, 28.9958, 4.0116

## Tritanomaly

32.7289, 28.5237, 12.7974

# Monochromacy



## Original Color

30.7965, 28.9458, 3.9639

## Achromatopsia

24.1572, 25.4152, 27.6772

## Achromatomaly

24.8077, 25.8650, 12.9175

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.7965, 28.9458, 3.9639 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, 136, 0)` looks like.

```
.text, #text, p{  
    color:rgb(193, 136, 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, 136, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 136, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 30.7965, 28.9458, 3.9639 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, 136, 0) }
```



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

```
.border{ border-color:rgb(193, 136, 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, 136, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 136, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 136, 0);  
box-shadow:4px 4px 4px 4px rgb(193, 136,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.7965, 28.9458, 3.9639 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 136, 0) }
```

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

```
.background{ background-color: rgb(193,  
136, 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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