

# Converting Colors

XYZ(38.9974, 32.3612, 4.1910)

Have a look what the booklet for  
XYZ(38.9974, 32.3612, 4.1910)  
contains.

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# Color

**XYZ(38.9917, 32.3498,  
4.1891)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E08400
RGB	224, 132, 0
RGB Percent	88%, 52%, 0%
CMY	0.1216, 0.4823, 1.0000
CMYK	0.00, 0.41, 1.00, 0.12
HSL	35°, 100%, 44%
HSV	35°, 100%, 88%
XYZ	38.9917, 32.3498, 4.1891
YIQ	144.4600, 97.2040, -21.5480

# Conversions

## Conversions Part 2

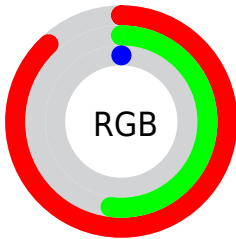
Format	Color
<b>RYB</b>	156, 224, 0
Decimal	14713856
CIELab	63.63, 28.28, 69.78
CIELCh	64, 75.291, 67.936
Yxy	32.3498, 0.5162, 0.4283
Android (android.graphics.Color)	4292903936 (0xFFE08400)
YUV	144.4600, -71.2188, 69.7566
Hunter-Lab	56.8769, 22.8353, 35.4470

# Details

The XYZ color **38.9917, 32.3498, 4.1891** is a dark color, and the websafe version is hex **FF9933**. The color can be described as dark washed orange. A complement of this color would be **17.2821, 13.0368, 72.1258**, and the grayscale version is **26.9478, 28.3512, 30.8744**.

A 20% lighter version of the original color is **59.7587, 56.4258, 13.8725**, and **17.9176, 13.7160, 1.7031** is the 20% darker color. If you saturate the color by 10%, you get **38.9917, 32.3502, 4.1891**, and if you desaturate by 10%, it is **40.4443, 35.0174, 5.4074**.

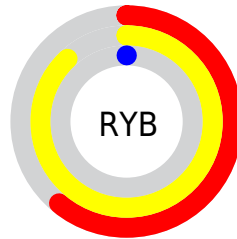
# Distribution



Red (88%)

Green (52%)

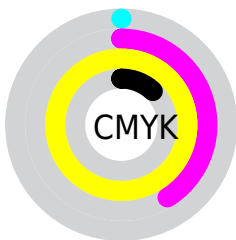
Blue (0%)



Red (61%)

Yellow (88%)

Blue (0%)

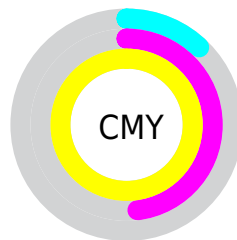


Cyan (0%)

Magenta (41%)

Yellow (100%)

Black (12%)



Cyan (12%)

Magenta (48%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.9917, 32.3498, 4.1891 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 38.9917, 32.3498, 4.1891 by changing the saturation by 10% instead.





 38.9917, 32.3498,  
4.1891


 38.9917, 32.3498,  
4.1891

333.0630,  
312.7096, 150.3046

 26.9340, 21.6288,  
1.7296

 72.9198, 63.3591,  
14.4436


 17.6600, 13.5844,  
0.3809


 95.5209, 84.4161,  
23.0757


 10.8043, 7.8322,  
0.0000


 122.3671,  
109.6874, 34.6024

 6.0017, 3.9878,  
0.0000

 153.8238,  
139.5571, 49.4424

 2.8868, 1.6667,  
0.0000

 190.2564,  
174.4099, 68.0140


 1.0942, 0.4020,  
0.0000

 232.0302,


 0.0203, 0.0000,


214.6299, 90.7359


0.0000


 279.5106,  
260.6017, 118.0266


 0.0000, 0.0000,  
0.0000


 38.9917, 32.3498,  
4.1891


 38.9917, 32.3498,  
4.1891


 38.9917, 32.3502,  
4.1891

 40.4443, 35.0174,  
5.4074

 42.1815, 37.9777,  
7.5709

 44.2622, 41.2601,  
10.9746

 46.7210, 44.8824,  
15.7871

 49.5869, 48.8601,  
22.1500

■ 52.8858, 53.2076,  
30.1876

■ 56.6412, 57.9377,  
40.0116

■ 60.8744, 63.0628,  
51.7237

■ 65.6054, 68.5942,  
65.4181

# Harmonies

## Analogous

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



49.6261, 32.3498, 10.2588



38.9917, 32.3498, 4.1891



28.0376, 32.3498, 3.3588

# Triad

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



38.9917, 32.3498, 4.1891



14.7459, 32.3498, 43.8454



44.9399, 32.3498, 103.5447

# Complementary

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



38.9917, 32.3498, 4.1891



17.2821, 13.0368, 72.1258

# 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.



33.6266, 32.3498, 129.4333



38.9917, 32.3498, 4.1891



17.3907, 32.3498, 84.2098

# Square

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



38.9917, 32.3498, 4.1891



15.5492, 32.3498, 17.6318



23.7559, 32.3498, 120.8463



53.5701, 32.3498, 61.7833



# Rectangle

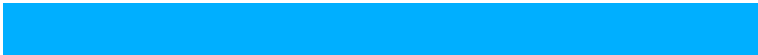
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



38.9917, 32.3498, 4.1891



22.2090, 32.3498, 4.8256



23.7559, 32.3498, 120.8463



41.2344, 32.3498, 115.2286

# Sweetspot

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



38.9924, 32.3515, 4.1897



75.8694, 77.5809, 53.3590



32.7312, 16.6437, 11.9225



15.7661, 16.0161, 10.1635



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.



38.9924, 32.3515, 4.1897



52.1896, 43.1592, 5.5799



51.9244, 66.3374, 10.0680



14.3752, 15.0363, 14.4514



22.8120, 19.0620, 2.4770



1.6687, 1.4963, 0.2009



# Inverse Universe

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



17.2821, 13.0368, 72.1258



23.0741, 17.2681, 96.7247



13.7168, 5.5172, 70.8623



13.4121, 14.1632, 17.4146



10.1659, 7.8015, 42.0184



0.7912, 0.7139, 2.9413



# Previews

## White Background



This preview shows how the XYZ color 38.9917, 32.3498, 4.1891 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 38.9917, 32.3498, 4.1891 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 38.9917, 32.3498, 4.1891**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.9917, 32.3498, 4.1891.



This preview shows how white text looks on a background with the XYZ color 38.9917, 32.3498,



# 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

38.9917, 32.3498, 4.1891

### Protanopia

29.2781, 32.4818, 5.2568

### Deuteranopia

32.9394, 32.4695, 4.5312



## Tritanopia

43.5609, 32.4899, 25.8051

# Trichromacy



## Original Color

38.9917, 32.3498, 4.1891

## Protanomaly

32.2324, 32.0981, 4.8133

## Deuteranomaly

35.1266, 32.4678, 4.4155

## Tritanomaly

40.7396, 31.8927, 12.3962

# Monochromacy



## Original Color

38.9917, 32.3498, 4.1891

## Achromatopsia

26.5089, 27.8894, 30.3716

## Achromatomaly

28.5434, 28.4131, 14.1051

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.9917, 32.3498, 4.1891 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(224, 132, 0)` looks like.

```
.text, #text, p{  
    color:rgb(224, 132, 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(224, 132, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 132, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 38.9917, 32.3498, 4.1891 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(224, 132, 0) }
```



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

```
.border{ border-color:rgb(224, 132, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(224, 132, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 132, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 132, 0);  
box-shadow:4px 4px 4px 4px rgb(224, 132,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.9917, 32.3498, 4.1891 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 132, 0) }
```

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

```
.background{ background-color: rgb(224,  
132, 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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