

# Converting Colors

XYZ(33.4652, 24.0087, 2.8703)

Have a look what the booklet for  
XYZ(33.4652, 24.0087, 2.8703)  
contains.

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# Color

**XYZ(33.4706, 24.0198,  
2.8722)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DA6400
RGB	218, 100, 0
RGB Percent	85%, 39%, 0%
CMY	0.1451, 0.6078, 1.0000
CMYK	0.00, 0.54, 1.00, 0.15
HSL	28°, 100%, 43%
HSV	28°, 100%, 85%
XYZ	33.4706, 24.0198, 2.8722
YIQ	123.8820, 102.4280, -6.0840

# Conversions

## Conversions Part 2

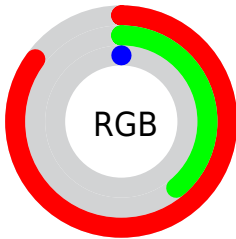
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">218, 185, 0</a>
Decimal	<a href="#">14312448</a>
CIELab	<a href="#">56.11, 42.28, 64.79</a>
CIELCh	<a href="#">56, 77.360, 56.874</a>
Yxy	<a href="#">24.0198, 0.5545, 0.3979</a>
Android (android.graphics.Color)	<a href="#">4292502528 (0xFFDA6400)</a>
YUV	<a href="#">123.8820, -61.0738, 82.5415</a>
Hunter-Lab	<a href="#">49.0100, 36.1362, 30.8323</a>

# Details

The XYZ color **33.4706, 24.0198, 2.8722** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed orange. A complement of this color would be **19.1330, 18.0182, 68.7985**, and the grayscale version is **19.2931, 20.2979, 22.1044**.

A 20% lighter version of the original color is **53.5854, 44.4241, 10.7515**, and **14.5745, 9.0825, 0.9849** is the 20% darker color. If you saturate the color by 10%, you get **33.4708, 24.0205, 2.8723**, and if you desaturate by 10%, it is **34.8290, 26.5083, 4.0302**.

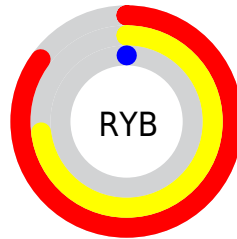
# Distribution



Red (85%)

Green (39%)

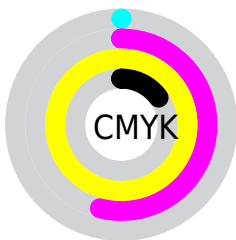
Blue (0%)



Red (85%)

Yellow (73%)

Blue (0%)

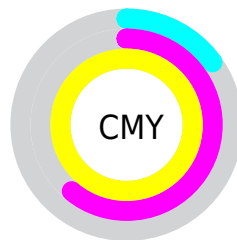


Cyan (0%)

Magenta (54%)

Yellow (100%)

Black (15%)



Cyan (15%)

Magenta (61%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.4706, 24.0198, 2.8722 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 33.4706, 24.0198, 2.8722 by changing the saturation by 10% instead.





 33.4706, 24.0198,  
2.8722


 33.4706, 24.0198,  
2.8722


309.3926,  
272.9206, 134.7159


 22.6482, 15.3483,  
1.0298


 64.4593, 50.0625,  
11.3114

 14.4532, 9.0642,  
0.0000


 85.3563, 68.2025,  
18.7453

 8.5203, 4.7831,  
0.0000


 110.3422, 90.2675,  
28.8800

 4.4843, 2.1206,  
0.0000

 139.7824,  
116.6418, 42.1342

 1.9796, 0.6762,  
0.0000

 174.0421,  
147.7099, 58.9263


 0.6225, 0.0000,  
0.0000


 213.4869,


 0.0000, 0.0000,


183.8561, 79.6749


0.0000


 258.4819,  
225.4649, 104.7986


 33.4706, 24.0198,  
2.8722


 33.4706, 24.0198,  
2.8722


 33.4708, 24.0205,  
2.8723

 34.8290, 26.5083,  
4.0302

 36.5189, 29.4011,  
6.0945

 38.5999, 32.7332,  
9.3466

 41.1076, 36.5282,  
13.9450

 44.0728, 40.8076,  
20.0234

■ 47.5228, 45.5908,  
27.6989

■ 51.4823, 50.8960,  
37.0770

■ 55.9745, 56.7406,  
48.2538

■ 61.0206, 63.1406,  
61.3184

# Harmonies

## Analogous

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



41.6621, 24.0198, 9.7098



33.4706, 24.0198, 2.8722



23.7723, 24.0198, 1.4201

# Triad

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



33.4706, 24.0198, 2.8722



9.6882, 24.0198, 23.5807



31.4356, 24.0198, 98.3467

# Complementary

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



33.4706, 24.0198, 2.8722



19.1330, 18.0182, 68.7985

# 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.



21.9131, 24.0198, 111.4651



33.4706, 24.0198, 2.8722



10.7502, 24.0198, 55.0124

# Square

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



33.4706, 24.0198, 2.8722



11.3226, 24.0198, 7.5175



14.7239, 24.0198, 92.0488



40.2894, 24.0198, 62.9343



# Rectangle

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



33.4706, 24.0198, 2.8722



18.2306, 24.0198, 1.7315



14.7239, 24.0198, 92.0488



28.1446, 24.0198, 106.2149

# Sweetspot

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



33.4711, 24.0211, 2.8726



73.2700, 72.3821, 52.4926



32.2975, 16.2591, 19.1743



15.1510, 14.7859, 9.9585



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.



33.4711, 24.0211, 2.8726



47.5988, 33.9775, 4.0496



51.2501, 59.5791, 8.7989



13.5457, 14.0308, 13.7199



20.1576, 14.6008, 1.7558



1.3914, 1.1169, 0.1423

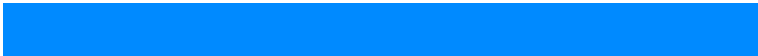


# Inverse Universe

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



19.1330, 18.0182, 68.7985



27.1416, 25.4032, 98.0805



12.7734, 5.2991, 66.6786



12.9196, 13.7790, 16.6308



11.5714, 11.0122, 41.2541



0.8355, 0.8851, 2.7012



# Previews

## White Background



This preview shows how the XYZ color 33.4706, 24.0198, 2.8722 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 33.4706, 24.0198, 2.8722 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 33.4706, 24.0198, 2.8722**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.4706, 24.0198, 2.8722.



This preview shows how white text looks on a background with the XYZ color 33.4706, 24.0198,



# 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

33.4706, 24.0198, 2.8722

### Protanopia

21.7391, 24.0539, 4.1589

### Tritanopia

35.9853, 24.1017, 14.5598

# Trichromacy



## Original Color

33.4706, 24.0198, 2.8722

## Protanomaly

24.9367, 23.1782, 3.5403

## Tritanomaly

34.5953, 23.9403, 7.5002

# Monochromacy



## Original Color

33.4706, 24.0198, 2.8722

## Achromatopsia

19.1579, 20.1556, 21.9495

## Achromatomaly

21.6426, 20.0951, 10.1352

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.4706, 24.0198, 2.8722 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(218, 100, 0)` looks like.

```
.text, #text, p{  
    color:rgb(218, 100, 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(218, 100, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(218, 100, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 33.4706, 24.0198, 2.8722 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(218, 100, 0) }
```

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

```
.border{ border-color:rgb(218, 100, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(218, 100, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(218, 100, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(218, 100, 0);  
box-shadow:4px 4px 4px 4px rgb(218, 100,  
0) }
```



# Background

The CSS property to change the background color of an element to XYZ 33.4706, 24.0198, 2.8722 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(218, 100, 0) }
```

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

```
.background{ background-color: rgb(218,  
100, 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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