

# Converting Colors

XYZ(34.0340, 34.8478, 3.6630)

Have a look what the booklet for  
XYZ(34.0340, 34.8478, 3.6630)  
contains.

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# Color

**XYZ(34.3206, 34.8470,  
4.9172)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C49A00
RGB	196, 154, 0
RGB Percent	77%, 60%, 0%
CMY	0.2314, 0.3961, 1.0000
CMYK	0.00, 0.21, 1.00, 0.23
HSL	47°, 100%, 38%
HSV	47°, 100%, 77%
XYZ	34.3206, 34.8470, 4.9172
YIQ	149.0020, 74.4660, -38.9900

# Conversions

## Conversions Part 2

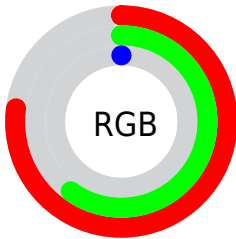
Format	Color
<a href="#">RYB</a>	53, 196, 0
Decimal	12884480
CIELab	65.63, 4.20, 69.52
CIELCh	66, 69.645, 86.545
Yxy	34.8470, 0.4633, 0.4704
Android (android.graphics.Color)	4291074560 (0xFFC49A00)
YUV	149.0020, -73.4580, 41.2172
Hunter-Lab	59.0313, 0.4744, 36.3832

# Details

The XYZ color **34.3206, 34.8470, 4.9172** 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 **10.7921, 5.6419, 52.7444**, and the grayscale version is **28.8469, 30.3492, 33.0502**.

A 20% lighter version of the original color is **65.0319, 66.8662, 15.9575**, and **15.1668, 15.0189, 2.0996** is the 20% darker color. If you saturate the color by 10%, you get **34.3209, 34.8479, 4.9174**, and if you desaturate by 10%, it is **35.1495, 36.3086, 5.7995**.

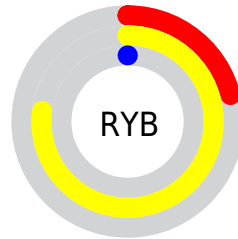
# Distribution



Red (77%)

Green (60%)

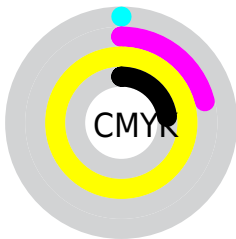
Blue (0%)



Red (21%)

Yellow (77%)

Blue (0%)

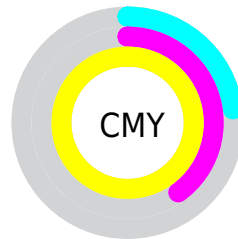


Cyan (0%)

Magenta (21%)

Yellow (100%)

Black (23%)



Cyan (23%)

Magenta (40%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.3206, 34.8470, 4.9172 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 34.3206, 34.8470, 4.9172 by changing the saturation by 10% instead.





 34.3206, 34.8470,  
4.9172


 34.3206, 34.8470,  
4.9172


313.1201,  
323.8925, 157.9315


 23.3041, 23.5450,  
2.1409


 65.7729, 67.2487,  
16.0752


 14.9401, 14.9965,  
0.6399


 86.9394, 89.1172,  
25.2940

 8.8634, 8.8169,  
0.0000


 112.2199,  
115.2767, 37.4974

 4.7086, 4.6220,  
0.0000

 141.9797,  
146.1115, 53.1038

 2.1103, 2.0272,  
0.0000

 176.5843,  
182.0061, 72.5319

 0.6948, 0.6232,  
0.0000

 216.3990,

 0.0000, 0.0000,

223.3449, 96.2002

0.0000

261.7891,  
270.5122, 124.5273

34.3206, 34.8470,  
4.9172

34.3206, 34.8470,  
4.9172

34.3209, 34.8479,  
4.9174

35.1495, 36.3086,  
5.7995

36.1263, 37.8671,  
7.3429

37.2957, 39.5422,  
9.7788

38.6807, 41.3435,  
13.2267

40.3006, 43.2791,  
17.7877

■ 42.1727, 45.3562,  
23.5506

■ 44.3121, 47.5814,  
30.5950

■ 46.7329, 49.9605,  
38.9940

■ 49.4483, 52.4991,  
48.8150

# Harmonies

## Analogous

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



45.1898, 34.8470, 7.6799



34.3206, 34.8470, 4.9172



25.0862, 34.8470, 6.5680

# Triad

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



34.3206, 34.8470, 4.9172



18.4582, 34.8470, 69.0917



52.3891, 34.8470, 78.2361

# Complementary

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



34.3206, 34.8470, 4.9172



10.7921, 5.6419, 52.7444

# 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.



42.7109, 34.8470, 113.9296



34.3206, 34.8470, 4.9172



23.4186, 34.8470, 107.0090

# Square

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



34.3206, 34.8470, 4.9172



17.1124, 34.8470, 34.6479



31.9497, 34.8470, 126.5114



56.8873, 34.8470, 41.4395



# Rectangle

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



34.3206, 34.8470, 4.9172



20.7972, 34.8470, 10.8910



31.9497, 34.8470, 126.5114



49.5477, 34.8470, 91.3648

# Sweetspot

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



34.3214, 34.8487, 4.9179



80.0782, 85.9985, 54.7620



23.1914, 11.9065, 3.3112



16.7739, 18.0318, 10.4995



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.



34.3214, 34.8487, 4.9179



61.9781, 62.7362, 8.8427



30.6344, 45.0960, 7.0901



10.7244, 11.3802, 10.6932



22.1175, 22.5208, 3.1812



1.0024, 1.0667, 0.1531



# Inverse Universe

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



10.7921, 5.6419, 52.7444



19.3991, 9.9182, 95.4997



11.5692, 4.8133, 52.5435



9.6994, 10.0901, 12.7212



6.9864, 3.7292, 33.9082

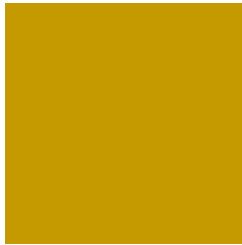


0.3537, 0.2648, 1.4824



# Previews

## White Background



This preview shows how the XYZ color 34.3206, 34.8470, 4.9172 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

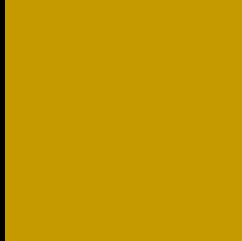
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 34.3206, 34.8470, 4.9172 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 34.3206, 34.8470, 4.9172**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.3206, 34.8470, 4.9172.



This preview shows how white text looks on a background with the XYZ color 34.3206, 34.8470,



# 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

34.3206, 34.8470, 4.9172

### Protanopia

31.4425, 34.8646, 5.3308

### Deuteranopia

35.4841, 34.7139, 5.1469



## Tritanopia

40.5570, 34.8154, 35.1543

# Trichromacy



## Original Color

34.3206, 34.8470, 4.9172

## Protanomaly

32.5094, 34.9060, 5.1964

## Deuteranomaly

35.0860, 34.7512, 5.0594

## Tritanomaly

36.7257, 34.1668, 16.2145

# Monochromacy



## Original Color

34.3206, 34.8470, 4.9172

## Achromatopsia

28.5667, 30.0544, 32.7292

## Achromatomaly

28.8581, 31.0664, 15.3019

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.3206, 34.8470, 4.9172 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(196, 154, 0)` looks like.

```
.text, #text, p{  
    color:rgb(196, 154, 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(196, 154, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 154, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 34.3206, 34.8470, 4.9172 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(196, 154, 0) }
```



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

```
.border{ border-color:rgb(196, 154, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(196, 154, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 154, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 154, 0);  
box-shadow:4px 4px 4px 4px rgb(196, 154,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.3206, 34.8470, 4.9172 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 154, 0) }
```

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

```
.background{ background-color: rgb(196,  
154, 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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