

# Converting Colors

XYZ(32.7399, 33.9569, 1.2466)

Have a look what the booklet for  
XYZ(32.7399, 33.9569, 1.2466)  
contains.

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# Color

**XYZ(33.3836, 34.1199,  
4.8263)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C19900
RGB	193, 153, 0
RGB Percent	76%, 60%, 0%
CMY	0.2431, 0.4000, 0.9999
CMYK	0.00, 0.21, 1.00, 0.24
HSL	48°, 100%, 38%
HSV	48°, 100%, 76%
XYZ	33.3836, 34.1199, 4.8263
YIQ	147.5180, 72.9530, -39.1030

# Conversions

## Conversions Part 2

Format	Color
<a href="#">RYB</a>	<a href="#">50, 193, 0</a>
Decimal	<a href="#">12687616</a>
CIELab	<a href="#">65.06, 3.39, 68.97</a>
CIELCh	<a href="#">65, 69.057, 87.185</a>
Yxy	<a href="#">34.1199, 0.4615, 0.4717</a>
Android (android.graphics.Color)	<a href="#">4290877696</a> ( <a href="#">0xFFC19900</a> )
YUV	<a href="#">147.5180, -72.7264, 39.8877</a>
Hunter-Lab	<a href="#">58.4122, -0.2056, 35.9897</a>

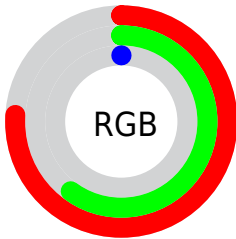
# Details

The XYZ color **33.3836, 34.1199, 4.8263** 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 **10.3848, 5.3684, 50.9407**, and the grayscale version is **28.2207, 29.6904, 32.3328**.

A 20% lighter version of the original color is **64.4219, 66.1909, 15.8593**, and **14.5829, 14.5711, 2.0439** is the 20% darker color. If you saturate the color by 10%, you get **33.3838, 34.1206, 4.8264**, and if you desaturate by 10%, it is **34.1702, 35.5011, 5.6816**.

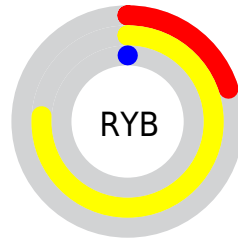
# Distribution



Red (76%)

Green (60%)

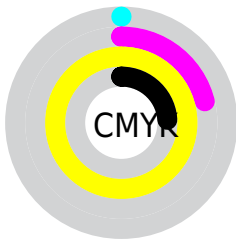
Blue (0%)



Red (20%)

Yellow (76%)

Blue (0%)

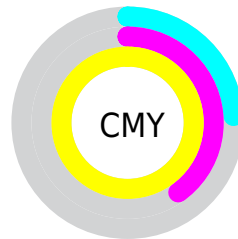


Cyan (0%)

Magenta (21%)

Yellow (100%)

Black (24%)



Cyan (24%)

Magenta (40%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.3836, 34.1199, 4.8263 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 33.3836, 34.1199, 4.8263 by changing the saturation by 10% instead.





 33.3836, 34.1199,  
4.8263


 33.3836, 34.1199,  
4.8263


309.0092,  
320.6664, 157.0092


 22.5811, 22.9857,  
2.0888


 64.3246, 66.1201,  
15.8746


 14.4035, 14.5830,  
0.6091


 85.1939, 87.7549,  
25.0224


 8.4854, 8.5272,  
0.0000


 110.1495,  
113.6587, 37.1441

 4.4615, 4.4341,  
0.0000

 139.5567,  
144.2158, 52.6582

 1.9664, 1.9192,  
0.0000

 173.7809,  
179.8108, 71.9832


 0.6150, 0.5599,  
0.0000


 213.1875,


 0.0000, 0.0000,


220.8279, 95.5377


0.0000


 258.1418,  
267.6517, 123.7401


 33.3836, 34.1199,  
4.8263


 33.3836, 34.1199,  
4.8263


 33.3838, 34.1206,  
4.8264

 34.1702, 35.5011,  
5.6816

 35.0977, 36.9727,  
7.1726

 36.2096, 38.5538,  
9.5246

 37.5280, 40.2537,  
12.8525

 39.0715, 42.0800,  
17.2536

■ 40.8566, 44.0397,  
22.8132

■ 42.8979, 46.1389,  
29.6082

■ 45.2090, 48.3834,  
37.7087

■ 47.8024, 50.7785,  
47.1796

# Harmonies

## Analogous

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



44.0072, 34.1199, 7.4270



33.3836, 34.1199, 4.8263



24.4141, 34.1199, 6.5400

# Triad

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



33.3836, 34.1199, 4.8263



18.1557, 34.1199, 68.4185



51.4241, 34.1199, 75.7016

# Complementary

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



33.3836, 34.1199, 4.8263



10.3848, 5.3684, 50.9407

# 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.



42.0324, 34.1199, 110.8274



33.3836, 34.1199, 4.8263



23.0852, 34.1199, 105.3161

# Square

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



33.3836, 34.1199, 4.8263



16.7657, 34.1199, 34.5110



31.4946, 34.1199, 123.7698



55.6775, 34.1199, 39.9218



# Rectangle

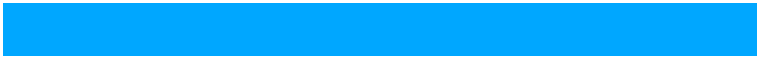
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



33.3836, 34.1199, 4.8263



20.2704, 34.1199, 10.8844



31.4946, 34.1199, 123.7698



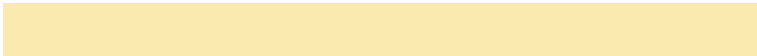
48.6798, 34.1199, 88.5567

# Sweetspot

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



33.3844, 34.1216, 4.8270



76.6458, 82.4506, 52.3963



22.4072, 11.5036, 3.2137



16.0995, 17.3401, 10.0817



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.



33.3844, 34.1216, 4.8270



59.6079, 60.7443, 8.5832



29.6042, 43.5704, 6.8500



10.7305, 11.3924, 10.6953



22.2631, 22.8119, 3.2297



1.0076, 1.0771, 0.1548



# Inverse Universe

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



10.3848, 5.3684, 50.9407



18.4582, 9.3331, 91.1889



11.1845, 4.6541, 50.7607



9.6937, 10.0787, 12.7193



6.9542, 3.6649, 33.8975



0.3512, 0.2598, 1.4815



# Previews

## White Background



This preview shows how the XYZ color 33.3836, 34.1199, 4.8263 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

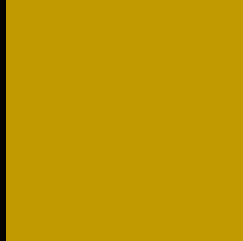
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.3836, 34.1199, 4.8263 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 33.3836, 34.1199, 4.8263**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.3836, 34.1199, 4.8263.



This preview shows how white text looks on a background with the XYZ color 33.3836, 34.1199,



# 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

33.3836, 34.1199, 4.8263

### Protanopia

30.8075, 34.2810, 5.2516

### Deuteranopia

34.7921, 34.1186, 5.0996



## Tritanopia

39.5102, 34.0634, 34.6295

# Trichromacy



## Original Color

33.3836, 34.1199, 4.8263

## Protanomaly

31.6183, 34.1944, 5.1060

## Deuteranomaly

34.1364, 34.0211, 4.9973

## Tritanomaly

35.7253, 33.4266, 15.8783

# Monochromacy



## Original Color

33.3836, 34.1199, 4.8263

## Achromatopsia

28.1479, 29.6138, 32.2495

## Achromatomaly

28.2366, 30.5134, 14.9911

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.3836, 34.1199, 4.8263 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, 153, 0)` looks like.

```
.text, #text, p{  
    color:rgb(193, 153, 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, 153, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 153, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 33.3836, 34.1199, 4.8263 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, 153, 0) }
```



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

```
.border{ border-color:rgb(193, 153, 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, 153, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 153, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 153, 0);  
box-shadow:4px 4px 4px 4px rgb(193, 153,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.3836, 34.1199, 4.8263 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 153, 0) }
```

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

```
.background{ background-color: rgb(193,  
153, 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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