

# Converting Colors

$Y_{xy}(32.9931, 0.4775, 0.4314)$

Have a look what the booklet for  
Yxy(32.9931, 0.4775, 0.4314)  
contains.

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# Color

**Yxy(32.9409, 0.4786, 0.4310)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D28D2D
RGB	210, 141, 45
RGB Percent	82%, 55%, 18%
CMY	0.1764, 0.4471, 0.8237
CMYK	0.00, 0.33, 0.79, 0.18
HSL	35°, 65%, 50%
HSV	35°, 79%, 82%
XYZ	36.5789, 32.9409, 6.9092
YIQ	150.6870, 71.9400, -15.2280

# Conversions

## Conversions Part 2

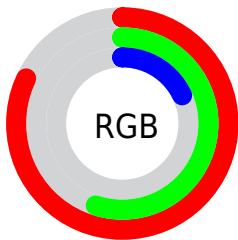
<b>Format</b>	<b>Color</b>
<b>RYB</b>	164, 210, 45
Decimal	13798701
CIELab	64.11, 18.38, 58.35
CIELCh	64, 61.179, 72.519
Yxy	32.9409, 0.4786, 0.4310
Android (android.graphics.Color)	4291988781 (0xFFD28D2D)
YUV	150.6870, -52.1037, 52.0175
Hunter-Lab	57.3942, 13.3233, 33.0385

# Details

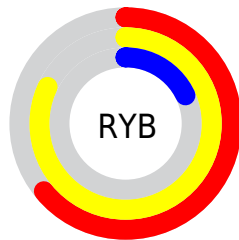
The Yxy color **32.9409, 0.4786, 0.4310** is a dark color, and the websafe version is hex **CC9933**. The color can be described as dark washed orange. A complement of this color would be **17.2402, 0.1886, 0.1736**, and the grayscale version is **31.0101, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.1721, 0.4367, 0.4243**, and **13.9662, 0.5080, 0.4348** is the 20% darker color. If you saturate the color by 10%, you get **30.3313, 0.4988, 0.4319**, and if you desaturate by 10%, it is **35.8395, 0.4559, 0.4251**.

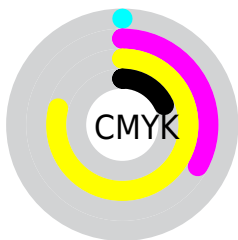
# Distribution



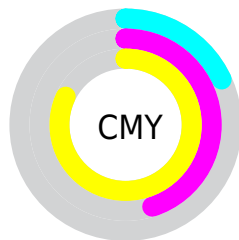
- Red (82%)
- Green (55%)
- Blue (18%)



- Red (64%)
- Yellow (82%)
- Blue (18%)



- Cyan (0%)
- Magenta (33%)
- Yellow (79%)
- Black (18%)




- Cyan (18%)
- Magenta (45%)
- Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 32.9409, 0.4786, 0.4310 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 Yxy color 32.9409, 0.4786, 0.4310 by changing the saturation by 10% instead.





 32.9409, 0.4786,  
0.4310

 32.9409, 0.4786,  
0.4310


315.3833, 0.3963,  
0.3871


 22.0812, 0.4965,  
0.4376


 64.2832, 0.4501,  
0.4179


 13.9166, 0.5169,  
0.4428


 85.5347, 0.4389,  
0.4120

 8.0627, 0.5474,  
0.4508


 111.0188, 0.4292,  
0.4067


 4.1351, 0.5627,  
0.4373

 141.1199, 0.4208,  
0.4019

 1.7494, 0.5858,  
0.4142

 176.2226, 0.4135,  
0.3976

 0.4553, 0.6595,  
0.3405

 216.7111, 0.4070,

 0.0000, 0.0000,

0.3937

0.0000

262.9699, 0.4013,  
0.3902

■ 32.9409, 0.4786,  
0.4310

■ 32.9409, 0.4786,  
0.4310

■ 30.3313, 0.4988,  
0.4319

■ 35.8395, 0.4559,  
0.4251

■ 27.9848, 0.5156,  
0.4277

■ 39.0373, 0.4319,  
0.4150

■ 27.6714, 0.5179,  
0.4270

■ 42.5493, 0.4079,  
0.4020

■ 46.3876, 0.3849,  
0.3873

■ 50.5635, 0.3634,  
0.3719

■ 55.0876, 0.3438,  
0.3564

■ 59.9698, 0.3263,  
0.3413

■ 65.2195, 0.3106,  
0.3270

■ 70.8458, 0.2968,  
0.3137

# Harmonies

## Analogous

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



32.9409, 0.4998, 0.3639



32.9409, 0.4786, 0.4310



32.9409, 0.4134, 0.4892

# Triad

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



32.9409, 0.4786, 0.4310



32.9409, 0.1810, 0.3366



32.9409, 0.2737, 0.2051

# Complementary

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



32.9409, 0.4786, 0.4310



17.2402, 0.1886, 0.1736

# 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.



32.9409, 0.2022, 0.1900



32.9409, 0.4786, 0.4310



32.9409, 0.1556, 0.2492

# Square

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



32.9409, 0.4786, 0.4310



32.9409, 0.2419, 0.4435



32.9409, 0.1633, 0.2024



32.9409, 0.3701, 0.2438



# Rectangle

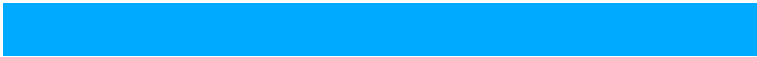
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



32.9409, 0.4786, 0.4310



32.9409, 0.3570, 0.5072



32.9409, 0.1633, 0.2024



32.9409, 0.2463, 0.1972

# Sweetspot

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



32.9426, 0.4786, 0.4310



81.4121, 0.3547, 0.3651



16.8498, 0.4662, 0.2559



16.8948, 0.3619, 0.3707



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



32.9426, 0.4786, 0.4310



44.6629, 0.5099, 0.4296



58.4314, 0.4031, 0.5003



12.9345, 0.3276, 0.3425



17.0798, 0.5161, 0.4284



1.1099, 0.4936, 0.4462



# Inverse Universe

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



17.2402, 0.1886, 0.1736



19.7059, 0.1730, 0.1395



7.3678, 0.1706, 0.0885



12.2183, 0.2982, 0.3151



7.2653, 0.1703, 0.1329



0.5615, 0.1804, 0.1693



# Previews

## White Background



This preview shows how the Yxy color 32.9409, 0.4786, 0.4310 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 Yxy color 32.9409, 0.4786, 0.4310 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](#).

**Yxy 32.9409, 0.4786, 0.4310**

## **Background**



This preview shows how black text looks on a background with the Yxy color 32.9409, 0.4786, 0.4310.



This preview shows how white text looks on a background with the Yxy color 32.9409, 0.4786, 0.4310.

# 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

32.9409, 0.4786, 0.4310

### Protanopia

33.1126, 0.4246, 0.4667

### Deuteranopia

33.0827, 0.4585, 0.4492



## Tritanopia

33.0545, 0.3975, 0.3169

# Trichromacy



**Original Color**

32.9409, 0.4786, 0.4310

**Protanomaly**

33.0380, 0.4439, 0.4535

**Deuteranomaly**

32.8427, 0.4664, 0.4421

**Tritanomaly**

32.6856, 0.4344, 0.3636

# Monochromacy



**Original Color**

32.9409, 0.4786, 0.4310

**Achromatopsia**

30.9469, 0.3127, 0.3290

**Achromatomaly**

30.8079, 0.3756, 0.3810

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 32.9409, 0.4786, 0.4310 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(210, 141, 45)` looks like.

```
.text, #text, p{  
    color:rgb(210, 141, 45)  
}
```

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(210, 141, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(210, 141, 45) }
```

## Border

The CSS property to change the border of an element to Yxy 32.9409, 0.4786, 0.4310 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(210, 141, 45) }
```

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

```
.border{ border-color:rgb(210, 141, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(210, 141, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(210, 141, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(210, 141, 45);  
box-shadow:4px 4px 4px 4px rgb(210, 141,  
45) }
```



# Background

The CSS property to change the background color of an element to Yxy 32.9409, 0.4786, 0.4310 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(210, 141, 45) }
```

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

```
.background{ background-color: rgb(210,  
141, 45) }
```

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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