

# Converting Colors

$Y_{xy}(31.1851, 0.4471, 0.4832)$

Have a look what the booklet for  
Yxy(31.1851, 0.4471, 0.4832)  
contains.

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**Color**

**Yxy(31.3633, 0.4467, 0.4835)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B09700
RGB	176, 151, 0
RGB Percent	69%, 59%, 0%
CMY	0.3097, 0.4079, 0.9998
CMYK	0.00, 0.14, 1.00, 0.31
HSL	51°, 100%, 35%
HSV	51°, 100%, 69%
XYZ	28.9762, 31.3633, 4.5277
YIQ	141.2610, 63.3710, -41.6610

# Conversions

## Conversions Part 2

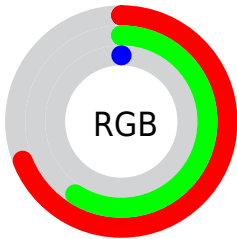
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	29, 176, 0
Decimal	11572992
CIE Lab	62.81, -3.20, 66.59
CIE LCh	63, 66.671, 92.748
Yxy	31.3633, 0.4467, 0.4835
Android (android.graphics.Color)	4289763072 (0xFFB09700)
YUV	141.2610, -69.6417, 30.4661
Hunter-Lab	56.0029, -5.6484, 34.4086

# Details

The Yxy color **31.3633, 0.4467, 0.4835** is a dark color, and the websafe version is hex **999900**. A complement of this color would be **3.8352, 0.1533, 0.0718**, and the grayscale version is **27.0086, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.9765, 0.4274, 0.4597**, and **13.2293, 0.4475, 0.4829** is the 20% darker color. If you saturate the color by 10%, you get **31.3622, 0.4467, 0.4835**, and if you desaturate by 10%, it is **32.2219, 0.4406, 0.4814**.

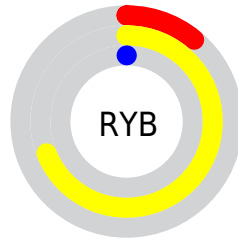
# Distribution



Red (69%)

Green (59%)

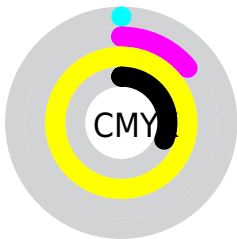
Blue (0%)



Red (11%)

Yellow (69%)

Blue (0%)

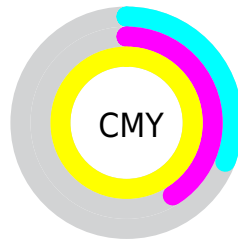


Cyan (0%)

Magenta (14%)

Yellow (100%)

Black (31%)



Cyan (31%)

Magenta (41%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.3633, 0.4467, 0.4835 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 31.3633, 0.4467, 0.4835 by changing the saturation by 10% instead.





 31.3633, 0.4467,  
0.4835


 31.3633, 0.4467,  
0.4835


308.2086, 0.3848,  
0.4103

 20.8756, 0.4573,  
0.4970


 61.8116, 0.4272,  
0.4597

 13.0331, 0.4683,  
0.5118


 82.5410, 0.4188,  
0.4498

 7.4514, 0.4758,  
0.5242


 107.4532, 0.4114,  
0.4410

 3.7460, 0.4729,  
0.5271

 136.9325, 0.4048,  
0.4333

 1.5325, 0.4678,  
0.5322

 171.3632, 0.3989,  
0.4265


 0.3114, 0.4117,  
0.5883


 211.1299, 0.3937,


 0.0000, 0.0000,


0.4205


0.0000


 256.6169, 0.3890,  
0.4151


 31.3633, 0.4467,  
0.4835


 31.3633, 0.4467,  
0.4835


 31.3622, 0.4467,  
0.4835

 32.2219, 0.4406,  
0.4814

 33.1341, 0.4322,  
0.4757

 34.1162, 0.4211,  
0.4655

 35.1751, 0.4077,  
0.4513

 36.3169, 0.3926,  
0.4339

■ 37.5467, 0.3765,  
0.4141

■ 38.8694, 0.3599,  
0.3929

■ 40.2893, 0.3435,  
0.3712

■ 41.8103, 0.3276,  
0.3497

# Harmonies

## Analogous

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



31.3633, 0.5073, 0.4123



31.3633, 0.4467, 0.4835



31.3633, 0.3574, 0.5265

# Triad

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



31.3633, 0.4467, 0.4835



31.3633, 0.1472, 0.2660



31.3633, 0.3392, 0.2203

# Complementary

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



31.3633, 0.4467, 0.4835



3.8352, 0.1533, 0.0718

# 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.



31.3633, 0.2402, 0.1867



31.3633, 0.4467, 0.4835



31.3633, 0.1450, 0.2023

# Square

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



31.3633, 0.4467, 0.4835



31.3633, 0.1856, 0.3757



31.3633, 0.1752, 0.1792



31.3633, 0.4468, 0.2747



# Rectangle

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



31.3633, 0.4467, 0.4835



31.3633, 0.2929, 0.5130



31.3633, 0.1752, 0.1792



31.3633, 0.3032, 0.2064

# Sweetspot

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



31.3648, 0.4467, 0.4835



70.3330, 0.3608, 0.3941



9.3112, 0.6187, 0.3182



15.0250, 0.3676, 0.4029



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290



# Same Dimension

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



31.3648, 0.4467, 0.4835



56.6050, 0.4472, 0.4831



34.6688, 0.3593, 0.5529



9.6965, 0.3267, 0.3484



23.0677, 0.4464, 0.4838



0.7820, 0.4378, 0.4906



# Inverse Universe

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



3.8352, 0.1533, 0.0718



6.7535, 0.1528, 0.0700



4.1496, 0.1772, 0.0750



8.4188, 0.2985, 0.3089



2.8648, 0.1536, 0.0730

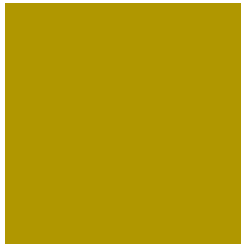


0.1511, 0.1647, 0.1130



# Previews

## White Background



This preview shows how the Yxy color 31.3633, 0.4467, 0.4835 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

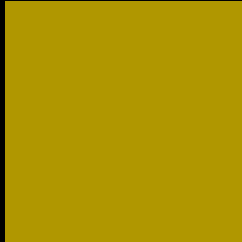
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.3633, 0.4467, 0.4835 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 31.3633, 0.4467, 0.4835**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.3633, 0.4467, 0.4835.

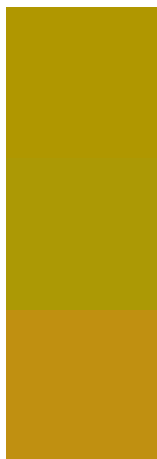


This preview shows how white text looks on a background with the Yxy color 31.3633, 0.4467, 0.4835.

# 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

31.3633, 0.4467, 0.4835

### Protanopia

31.5641, 0.4392, 0.4876

### Deuteranopia

31.1935, 0.4687, 0.4595



## Tritanopia

31.1809, 0.3495, 0.3138

# Trichromacy



## Original Color

31.3633, 0.4467, 0.4835

## Protanomaly

31.3473, 0.4418, 0.4863

## Deuteranomaly

31.3307, 0.4601, 0.4689

## Tritanomaly

30.6148, 0.4040, 0.3971

# Monochromacy



## Original Color

31.3633, 0.4467, 0.4835

## Achromatopsia

26.6356, 0.3127, 0.3290

## Achromatomaly

27.8590, 0.3783, 0.4166

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.3633, 0.4467, 0.4835 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(176, 151, 0)` looks like.

```
.text, #text, p{  
    color:rgb(176, 151, 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(176, 151, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 151, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 31.3633, 0.4467, 0.4835 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(176, 151, 0) }
```

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

```
.border{ border-color:rgb(176, 151, 0) }
```

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

Here you see how a box with a 4 pixel rgb(176, 151, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 151, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 151, 0);  
box-shadow:4px 4px 4px 4px rgb(176, 151,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.3633, 0.4467, 0.4835 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 151, 0) }
```

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

```
.background{ background-color: rgb(176,  
151, 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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