

Converting Colors

$Y_{xy}(31.2498, 0.4893, 0.4497)$

Have a look what the booklet for
Yxy(31.2498, 0.4893, 0.4497)
contains.

Yxy(31.1617, 0.4889, 0.4500)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	29

Color

Yxy(31.1617, 0.4889, 0.4500)

Conversions

Conversions Part 1

Format	Color
Hex	CB8B00
RGB	203, 139, 0
RGB Percent	80%, 55%, 0%
CMY	0.2040, 0.4548, 0.9999
CMYK	0.00, 0.32, 1.00, 0.20
HSL	41°, 100%, 40%
HSV	41°, 100%, 80%
XYZ	33.8555, 31.1617, 4.2311
YIQ	142.2900, 82.7630, -29.6610

Conversions

Conversions Part 2

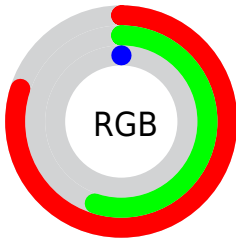
Format	Color
R _Y B	93, 203, 0
Decimal	13339392
CIE Lab	62.64, 15.45, 67.85
CIE LCh	63, 69.587, 77.172
Yxy	31.1617, 0.4889, 0.4500
Android (android.graphics.Color)	4291529472 (0xFFCB8B00)
YUV	142.2900, -70.1490, 53.2427
Hunter-Lab	55.8227, 10.5674, 34.5820

Details

The Yxy color **31.1617, 0.4889, 0.4500** 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 **7.9756, 0.1618, 0.1023**, and the grayscale version is **27.4326, 0.3127, 0.3290**.

A 20% lighter version of the original color is **59.4272, 0.4536, 0.4400**, and **12.9844, 0.5033, 0.4386** is the 20% darker color. If you saturate the color by 10%, you get **31.1602, 0.4889, 0.4500**, and if you desaturate by 10%, it is **33.1221, 0.4767, 0.4519**.

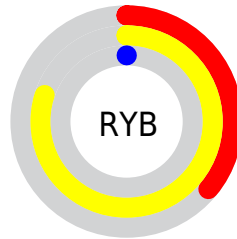
Distribution



Red (80%)

Green (55%)

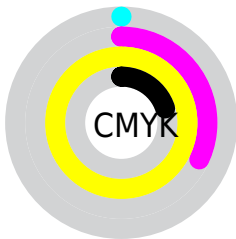
Blue (0%)



Red (36%)

Yellow (80%)

Blue (0%)

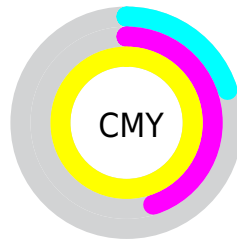


Cyan (0%)

Magenta (32%)

Yellow (100%)

Black (20%)



Cyan (20%)


Magenta (45%)


Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 31.1617, 0.4889, 0.4500 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 31.1617, 0.4889, 0.4500 by changing the saturation by 10% instead.


 31.1617, 0.4889,
0.4500


 31.1617, 0.4889,
0.4500

307.2826, 0.4045,
0.3995

 20.7220, 0.5052,
0.4562


 61.4946, 0.4611,
0.4359


 12.9210, 0.5242,
0.4616


 82.1565, 0.4496,
0.4292


 7.3741, 0.5405,
0.4595


 106.9947, 0.4396,
0.4230

 3.6972, 0.5536,
0.4464

 136.3935, 0.4307,
0.4173

 1.5056, 0.5752,
0.4248

 170.7373, 0.4230,
0.4122

 0.2927, 0.6913,
0.3087


 210.4104, 0.4161,


 0.0000, 0.0000,


0.4076


0.0000

 255.7974, 0.4099,
0.4033


 31.1617, 0.4889,
0.4500


 31.1617, 0.4889,
0.4500


 31.1602, 0.4889,
0.4500

 33.1221, 0.4767,
0.4519

 35.2452, 0.4618,
0.4495

 37.5531, 0.4441,
0.4421

 40.0574, 0.4246,
0.4306

 42.7680, 0.4041,
0.4159

■ 45.6940, 0.3837,
0.3992

■ 48.8435, 0.3640,
0.3814

■ 52.2242, 0.3454,
0.3634

■ 55.8431, 0.3283,
0.3458

Harmonies

Analogous

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



31.1617, 0.5267, 0.3745



31.1617, 0.4889, 0.4500



31.1617, 0.4078, 0.5176

Triad

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



31.1617, 0.4889, 0.4500



31.1617, 0.1564, 0.3168



31.1617, 0.2827, 0.1953

Complementary

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



31.1617, 0.4889, 0.4500



7.9756, 0.1618, 0.1023

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.



31.1617, 0.1976, 0.1743



31.1617, 0.4889, 0.4500



31.1617, 0.1362, 0.2250

Square

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



31.1617, 0.4889, 0.4500



31.1617, 0.2168, 0.4457



31.1617, 0.1501, 0.1817



31.1617, 0.3961, 0.2411

Rectangle

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



31.1617, 0.4889, 0.4500



31.1617, 0.3428, 0.5366



31.1617, 0.1501, 0.1817



31.1617, 0.2502, 0.1854

Sweetspot

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



31.1633, 0.4889, 0.4500



81.5863, 0.3648, 0.3822



13.0666, 0.5718, 0.2924



16.9719, 0.3731, 0.3898



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.



31.1633, 0.4889, 0.4500



51.7811, 0.4900, 0.4491



50.7796, 0.3871, 0.5309



12.4771, 0.3273, 0.3448



20.0061, 0.4877, 0.4510



1.1644, 0.4712, 0.4640

Inverse Universe

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



7.9756, 0.1618, 0.1023



13.0098, 0.1612, 0.1001



4.7088, 0.1581, 0.0645



11.4113, 0.2983, 0.3127



5.2208, 0.1624, 0.1047



0.4058, 0.1736, 0.1450

Previews

White Background



This preview shows how the Yxy color 31.1617, 0.4889, 0.4500 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 31.1617, 0.4889, 0.4500 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 31.1617, 0.4889, 0.4500

Background



This preview shows how black text looks on a background with the Yxy color 31.1617, 0.4889, 0.4500.



This preview shows how white text looks on a background with the Yxy color 31.1617, 0.4889, 0.4500.

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

31.1617, 0.4889, 0.4500

Protanopia

31.1435, 0.4380, 0.4855

Tritanopia

31.1199, 0.3947, 0.3165

Trichromacy



Original Color

31.1617, 0.4889, 0.4500

Protanomaly

30.9522, 0.4575, 0.4720

Tritanomaly

30.7450, 0.4491, 0.3848

Monochromacy



Original Color

31.1617, 0.4889, 0.4500

Achromatopsia

27.0498, 0.3127, 0.3290

Achromatomaly

27.6805, 0.3925, 0.4072

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.1617, 0.4889, 0.4500 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(203, 139, 0)` looks like.

```
.text, #text, p{  
    color:rgb(203, 139, 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(203, 139, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 139, 0) }
```

Border

The CSS property to change the border of an element to Yxy 31.1617, 0.4889, 0.4500 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(203, 139, 0) }
```

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

```
.border{ border-color:rgb(203, 139, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 139, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 139, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 139, 0);  
box-shadow:4px 4px 4px 4px rgb(203, 139,  
0) }
```

Background

The CSS property to change the background color of an element to Yxy 31.1617, 0.4889, 0.4500 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 139, 0) }
```

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

```
.background{ background-color: rgb(203,  
139, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor