

Converting Colors

$Y_{xy}(21.6608, 0.5569, 0.4431)$

Have a look what the booklet for
Yxy(21.6608, 0.5569, 0.4431)
contains.

Yxy(21.8389, 0.5308, 0.4167)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(21.8389, 0.5308, 0.4167)

Conversions

Conversions Part 1

Format	Color
Hex	C46900
RGB	196, 105, 0
RGB Percent	77%, 41%, 0%
CMY	0.2313, 0.5882, 0.9997
CMYK	0.00, 0.46, 1.00, 0.23
HSL	32°, 100%, 38%
HSV	32°, 100%, 77%
XYZ	27.8188, 21.8389, 2.7515
YIQ	120.2390, 87.9410, -13.3630

Conversions

Conversions Part 2

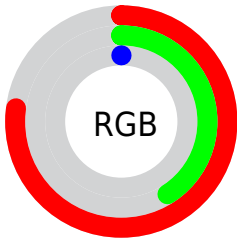
Format	Color
R_{YB}	170, 196, 0
Decimal	12871936
CIE Lab	53.86, 30.87, 61.75
CIE LCh	54, 69.038, 63.438
Yxy	21.8389, 0.5308, 0.4167
Android (android.graphics.Color)	4291062016 (0xFFC46900)
YUV	120.2390, -59.2778, 66.4424
Hunter-Lab	46.7321, 24.4767, 29.2216

Details

The Yxy color **21.8389, 0.5308, 0.4167** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed orange. A complement of this color would be **11.4856, 0.1738, 0.1455**, and the grayscale version is **19.0393, 0.3127, 0.3290**.

A 20% lighter version of the original color is **45.7556, 0.4888, 0.4123**, and **7.9792, 0.5612, 0.3926** is the 20% darker color. If you saturate the color by 10%, you get **21.8315, 0.5309, 0.4167**, and if you desaturate by 10%, it is **23.8445, 0.5119, 0.4221**.

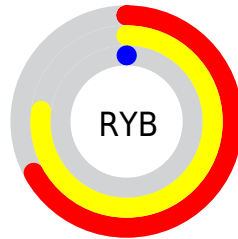
Distribution



Red (77%)

Green (41%)

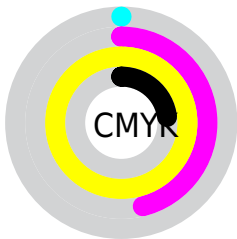
Blue (0%)



Red (67%)

Yellow (77%)

Blue (0%)

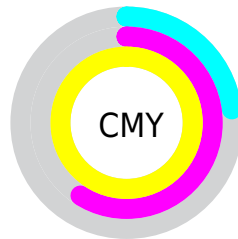


Cyan (0%)

Magenta (46%)

Yellow (100%)

Black (23%)



Cyan (23%)


Magenta (59%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 21.8389, 0.5308, 0.4167 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 21.8389, 0.5308, 0.4167 by changing the saturation by 10% instead.


 21.8389, 0.5308,
0.4167

 21.8389, 0.5308,
0.4167


261.7038, 0.4181,
0.3857

 13.7386, 0.5548,
0.4159


 46.4796, 0.4917,
0.4110


 7.9391, 0.5871,
0.4129


 63.7887, 0.4762,
0.4070


 4.0560, 0.6094,
0.3906

 84.9363, 0.4628,
0.4029

 1.7049, 0.6443,
0.3557

 110.3066, 0.4513,
0.3989

 0.4268, 0.7378,
0.2622

 140.2842, 0.4413,
0.3952

 0.0000, 1.0000,
0.0000


 175.2533, 0.4326,


 0.0000, 0.0000,


0.3918


0.0000


 215.5984, 0.4249,
0.3886


 21.8389, 0.5308,
0.4167


 21.8389, 0.5308,
0.4167


 21.8315, 0.5309,
0.4167

 23.8445, 0.5119,
0.4221

 26.1032, 0.4899,
0.4228

 28.6395, 0.4652,
0.4183

 31.4678, 0.4394,
0.4097

 34.6011, 0.4137,
0.3980

■ 38.0511, 0.3894,
0.3846

■ 41.8290, 0.3669,
0.3704

■ 45.9449, 0.3467,
0.3561

■ 50.4086, 0.3286,
0.3421

Harmonies

Analogous

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



21.8389, 0.5437, 0.3383



21.8389, 0.5308, 0.4167



21.8389, 0.4566, 0.5007

Triad

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



21.8389, 0.5308, 0.4167



21.8389, 0.1650, 0.3787



21.8389, 0.2311, 0.1702

Complementary

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



21.8389, 0.5308, 0.4167



11.4856, 0.1738, 0.1455

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.



21.8389, 0.1592, 0.1607



21.8389, 0.5308, 0.4167



21.8389, 0.1262, 0.2510

Square

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



21.8389, 0.5308, 0.4167



21.8389, 0.2480, 0.5194



21.8389, 0.1259, 0.1833



21.8389, 0.3449, 0.2074

Rectangle

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



21.8389, 0.5308, 0.4167



21.8389, 0.3900, 0.5466



21.8389, 0.1259, 0.1833



21.8389, 0.2023, 0.1638

Sweetspot

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



21.8401, 0.5308, 0.4167



75.3998, 0.3681, 0.3711



12.5032, 0.5108, 0.2588



15.4985, 0.3775, 0.3772



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.



21.8401, 0.5308, 0.4167



39.0224, 0.5330, 0.4150



50.3643, 0.4135, 0.5098



10.9510, 0.3276, 0.3413



14.2001, 0.5289, 0.4182



0.7504, 0.4981, 0.4427

Inverse Universe

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



11.4856, 0.1738, 0.1455



20.2841, 0.1730, 0.1428



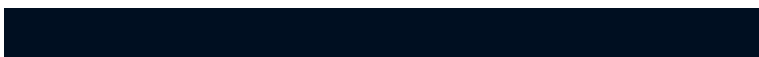
4.0306, 0.1510, 0.0606



10.5019, 0.2984, 0.3164



7.5425, 0.1744, 0.1480



0.4637, 0.1863, 0.1906

Previews

White Background



This preview shows how the Yxy color 21.8389, 0.5308, 0.4167 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 21.8389, 0.5308, 0.4167 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 × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 21.8389, 0.5308, 0.4167

Background



This preview shows how black text looks on a background with the Yxy color 21.8389, 0.5308, 0.4167.



This preview shows how white text looks on a background with the Yxy color 21.8389, 0.5308, 0.4167.

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

21.8389, 0.5308, 0.4167

Protanopia

22.1137, 0.4356, 0.4833

Deuteranopia

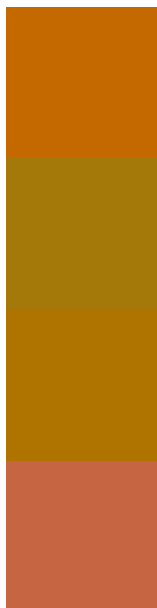
21.9524, 0.4700, 0.4650



Tritanopia

21.8770, 0.4473, 0.3217

Trichromacy



Original Color

21.8389, 0.5308, 0.4167

Protanomaly

21.5892, 0.4716, 0.4586

Deuteranomaly

21.6047, 0.4939, 0.4460

Tritanomaly

21.7065, 0.4949, 0.3714

Monochromacy



Original Color

21.8389, 0.5308, 0.4167

Achromatopsia

18.7821, 0.3127, 0.3290

Achromatomaly

19.0792, 0.4075, 0.3957

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.8389, 0.5308, 0.4167 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, 105, 0)` looks like.

```
.text, #text, p{  
    color:rgb(196, 105, 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, 105, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 105, 0) }
```

Border

The CSS property to change the border of an element to Yxy 21.8389, 0.5308, 0.4167 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, 105, 0) }
```

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

```
.border{ border-color:rgb(196, 105, 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, 105, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 105, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 105, 0);  
box-shadow:4px 4px 4px 4px rgb(196, 105,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 21.8389, 0.5308, 0.4167 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 105, 0) }
```

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

```
.background{ background-color: rgb(196,  
105, 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