

# Converting Colors

$Y_{xy}(16.9268, 0.5867, 0.3724)$

Have a look what the booklet for  
Yxy(16.9268, 0.5867, 0.3724)  
contains.

<b>Yxy(16.9528, 0.5871, 0.3720)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**Yxy(16.9528, 0.5871, 0.3720)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CB4500
RGB	203, 69, 0
RGB Percent	80%, 27%, 0%
CMY	0.2040, 0.7293, 0.9997
CMYK	0.00, 0.66, 1.00, 0.20
HSL	20°, 100%, 40%
HSV	20°, 100%, 80%
XYZ	26.7553, 16.9528, 1.8639
YIQ	101.2000, 102.0130, 6.9490

# Conversions

## Conversions Part 2

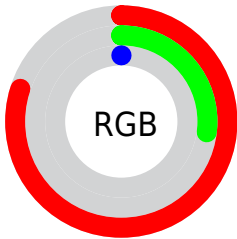
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	203, 105, 0
Decimal	13321472
CIELab	48.20, 50.96, 59.15
CIElCh	48, 78.073, 49.251
Yxy	16.9528, 0.5871, 0.3720
Android (android.graphics.Color)	4291511552 (0xFFCB4500)
YUV	101.2000, -49.8916, 89.2786
Hunter-Lab	41.1738, 43.9379, 26.1376

# Details

The Yxy color **16.9528, 0.5871, 0.3720** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **21.3732, 0.1926, 0.2131**, and the grayscale version is **13.1840, 0.3127, 0.3290**.

A 20% lighter version of the original color is **35.7417, 0.5264, 0.3831**, and **5.5754, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **16.9482, 0.5872, 0.3720**, and if you desaturate by 10%, it is **18.8451, 0.5617, 0.3807**.

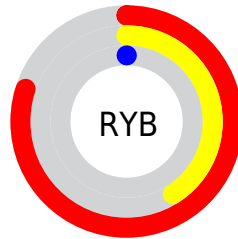
# Distribution



Red (80%)

Green (27%)

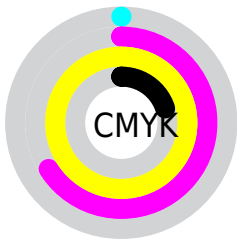
Blue (0%)



Red (80%)

Yellow (41%)

Blue (0%)

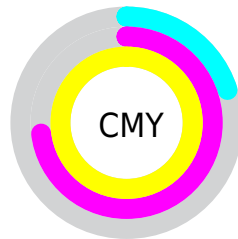


Cyan (0%)

Magenta (66%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (73%)


Yellow (100%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 16.9528, 0.5871, 0.3720 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 16.9528, 0.5871, 0.3720 by changing the saturation by 10% instead.





 16.9528, 0.5871,  
0.3720


 16.9528, 0.5871,  
0.3720


 234.9002, 0.4397,  
0.3706


 10.2008, 0.6216,  
0.3618


 38.2446, 0.5347,  
0.3793


 5.5323, 0.6593,  
0.3407

 53.5532, 0.5143,  
0.3795


 2.5629, 0.6985,  
0.3015

 72.4829, 0.4969,  
0.3787

 0.9080, 0.7582,  
0.2418

 95.4180, 0.4820,  
0.3773


 0.0000, 1.0000,  
0.0000


 122.7428, 0.4691,  
0.3757


 0.0000, 0.0000,  
0.0000


 154.8419, 0.4580,


0.3740


 192.0996, 0.4482,  
0.3723


 16.9528, 0.5871,  
0.3720


 16.9528, 0.5871,  
0.3720


 16.9482, 0.5872,  
0.3720

 18.8451, 0.5617,  
0.3807

 21.1862, 0.5308,  
0.3853

 24.0167, 0.4962,  
0.3849

 27.3663, 0.4612,  
0.3806

 31.2617, 0.4280,  
0.3736

■ 35.7276, 0.3979,  
0.3650

■ 40.7871, 0.3714,  
0.3557

■ 46.4619, 0.3486,  
0.3464

■ 52.7725, 0.3292,  
0.3374

# Harmonies

## Analogous

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



16.9528, 0.5640, 0.2922



16.9528, 0.5871, 0.3720



16.9528, 0.5192, 0.4684

# Triad

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



16.9528, 0.5871, 0.3720



16.9528, 0.1732, 0.4826



16.9528, 0.1706, 0.1375

# Complementary

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



16.9528, 0.5871, 0.3720



21.3732, 0.1926, 0.2131

# 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.



16.9528, 0.1140, 0.1410



16.9528, 0.5871, 0.3720



16.9528, 0.1099, 0.2929

# Square

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



16.9528, 0.5871, 0.3720



16.9528, 0.2829, 0.6123



16.9528, 0.0947, 0.1835



16.9528, 0.2790, 0.1642



# Rectangle

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



16.9528, 0.5871, 0.3720



16.9528, 0.4465, 0.5400



16.9528, 0.0947, 0.1835



16.9528, 0.1467, 0.1352

# Sweetspot

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



16.9538, 0.5871, 0.3720



67.9152, 0.3725, 0.3561



14.4558, 0.4281, 0.2132



13.7393, 0.3834, 0.3601



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.



16.9538, 0.5871, 0.3720



28.0191, 0.5895, 0.3702



41.1347, 0.4524, 0.4790



11.8264, 0.3282, 0.3369



10.9394, 0.5847, 0.3740



0.7046, 0.5465, 0.4043

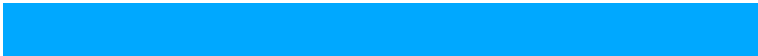


# Inverse Universe

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



21.3732, 0.1926, 0.2131



35.3565, 0.1921, 0.2114



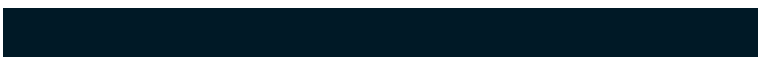
5.4495, 0.1539, 0.0739



12.0600, 0.2983, 0.3209



13.7734, 0.1930, 0.2148



0.8477, 0.1999, 0.2397



# Previews

## White Background



This preview shows how the Yxy color 16.9528, 0.5871, 0.3720 looks on a white 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



# Black Background



This preview shows how the Yxy color 16.9528, 0.5871, 0.3720 looks on a black 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

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

**Yxy 16.9528, 0.5871, 0.3720**

## **Background**



This preview shows how black text looks on a background with the Yxy color 16.9528, 0.5871, 0.3720.



This preview shows how white text looks on a background with the Yxy color 16.9528, 0.5871, 0.3720.

# 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

16.9528, 0.5871, 0.3720

### Protanopia

17.2908, 0.4317, 0.4789

### Deuteranopia

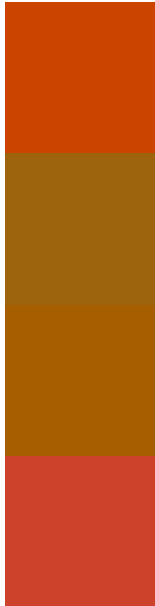
16.9570, 0.4701, 0.4649



## Tritanopia

16.9215, 0.5345, 0.3256

# Trichromacy



## Original Color

16.9528, 0.5871, 0.3720

## Protanomaly

16.1208, 0.4973, 0.4348

## Deuteranomaly

16.1124, 0.5204, 0.4250

## Tritanomaly

16.9082, 0.5649, 0.3500

# Monochromacy



## Original Color

16.9528, 0.5871, 0.3720

## Achromatopsia

13.0136, 0.3127, 0.3290

## Achromatomaly

12.9182, 0.4348, 0.3750

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 16.9528, 0.5871, 0.3720 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, 69, 0)` looks like.

```
.text, #text, p{  
    color:rgb(203, 69, 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, 69, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 69, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 16.9528, 0.5871, 0.3720 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, 69, 0) }
```

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

```
.border{ border-color:rgb(203, 69, 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, 69, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 69, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 69, 0);  
box-shadow:4px 4px 4px 4px rgb(203, 69, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 16.9528, 0.5871, 0.3720 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 69, 0) }
```

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

```
.background{ background-color: rgb(203, 69,  
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