

# Converting Colors

$Y_{xy}(19.7960, 0.5484, 0.3835)$

Have a look what the booklet for  
Yxy(19.7960, 0.5484, 0.3835)  
contains.

|   |    |
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**Color**

**Yxy(19.7647, 0.5493, 0.3831)**

# Conversions

## Conversions Part 1

| <b>Format</b> | <b>Color</b>              |
|---------------|---------------------------|
| Hex           | CB581D                    |
| RGB           | 203, 88, 29               |
| RGB Percent   | 80%, 35%, 11%             |
| CMY           | 0.2040, 0.6549, 0.8860    |
| CMYK          | 0.00, 0.57, 0.86, 0.20    |
| HSL           | 20°, 75%, 46%             |
| HSV           | 20°, 86%, 80%             |
| XYZ           | 28.3392, 19.7647, 3.4876  |
| YIQ           | 115.6590, 87.4790, 6.0310 |

# Conversions

## Conversions Part 2

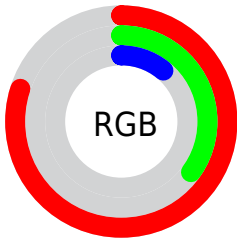
| Format                              | Color                          |
|-------------------------------------|--------------------------------|
| R <sub>Y</sub> B                    | 203, 118, 29                   |
| Decimal                             | 13326365                       |
| CIE Lab                             | 51.57, 42.78, 52.98            |
| CIE LCh                             | 52, 68.099, 51.082             |
| Yxy                                 | 19.7647, 0.5493,<br>0.3831     |
| Android<br>(android.graphics.Color) | 4291516445<br>(0xFFCB581D)     |
| YUV                                 | 115.6590, -42.7229,<br>76.5981 |
| Hunter-Lab                          | 44.4575, 35.9833,<br>26.4691   |

# Details

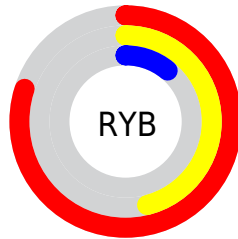
The Yxy color **19.7647, 0.5493, 0.3831** is a dark color, and the websafe version is hex **CC6633**. The color can be described as dark washed red. A complement of this color would be **24.5326, 0.2008, 0.2316**, and the grayscale version is **17.4717, 0.3127, 0.3290**.

A 20% lighter version of the original color is **40.8743, 0.4942, 0.3871**, and **7.0125, 0.6035, 0.3590** is the 20% darker color. If you saturate the color by 10%, you get **17.6917, 0.5768, 0.3757**, and if you desaturate by 10%, it is **22.3115, 0.5164, 0.3855**.

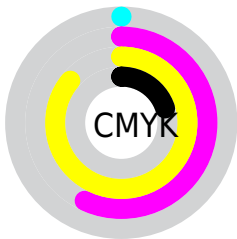
# Distribution



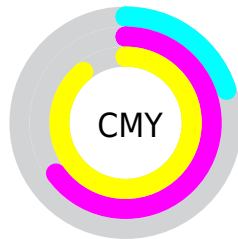
- Red (80%)
- Green (35%)
- Blue (11%)



- Red (80%)
- Yellow (46%)
- Blue (11%)



- Cyan (0%)
- Magenta (57%)
- Yellow (86%)
- Black (20%)




- Cyan (20%)
- Magenta (65%)
- Yellow (89%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.7647, 0.5493, 0.3831 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 19.7647, 0.5493, 0.3831 by changing the saturation by 10% instead.





 19.7647, 0.5493,  
0.3831


 19.7647, 0.5493,  
0.3831


250.6384, 0.4213,  
0.3691

 12.2241, 0.5797,  
0.3785


 43.0223, 0.5027,  
0.3832


 6.8965, 0.6232,  
0.3714


 59.5082, 0.4849,  
0.3815

 3.3975, 0.6576,  
0.3424

 79.7446, 0.4700,  
0.3794

 1.3426, 0.7051,  
0.2949

 104.1159, 0.4572,  
0.3772

 0.1738, 0.8793,  
0.1207

 133.0065, 0.4463,  
0.3751

 0.0000, 1.0000,  
0.0000

 166.8009, 0.4369,

 0.0000, 0.0000,

0.3729


0.0000


 205.8834, 0.4286,  
0.3709

 19.7647, 0.5493,  
0.3831


 19.7647, 0.5493,  
0.3831


 17.6917, 0.5768,  
0.3757

 22.3115, 0.5164,  
0.3855

 16.9271, 0.5874,  
0.3718

 25.3607, 0.4812,  
0.3834

 28.9416, 0.4467,  
0.3778

 33.0803, 0.4147,  
0.3699

 37.8007, 0.3861,  
0.3610

■ 43.1253, 0.3612,  
0.3517

■ 49.0754, 0.3399,  
0.3425

■ 55.6711, 0.3218,  
0.3337

■ 62.9317, 0.3064,  
0.3255

# Harmonies

## Analogous

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



19.7647, 0.5279, 0.3073



19.7647, 0.5493, 0.3831



19.7647, 0.4943, 0.4673

# Triad

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



19.7647, 0.5493, 0.3831



19.7647, 0.1920, 0.4442



19.7647, 0.1944, 0.1605

# Complementary

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



19.7647, 0.5493, 0.3831



24.5326, 0.2008, 0.2316

# 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.



19.7647, 0.1389, 0.1633



19.7647, 0.5493, 0.3831



19.7647, 0.1342, 0.2955

# Square

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



19.7647, 0.5493, 0.3831



19.7647, 0.2897, 0.5567



19.7647, 0.1194, 0.2023



19.7647, 0.2932, 0.1868



# Rectangle

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



19.7647, 0.5493, 0.3831



19.7647, 0.4330, 0.5229



19.7647, 0.1194, 0.2023



19.7647, 0.1714, 0.1580

# Sweetspot

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



19.7658, 0.5493, 0.3831



71.5947, 0.3628, 0.3523



15.6219, 0.4077, 0.2110



14.6343, 0.3712, 0.3556



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.



19.7658, 0.5493, 0.3831



27.9841, 0.5897, 0.3700



43.0578, 0.4423, 0.4762



11.8248, 0.3282, 0.3369



10.9256, 0.5849, 0.3738



0.7038, 0.5467, 0.4041

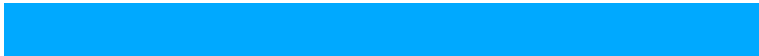


# Inverse Universe

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



24.5326, 0.2008, 0.2316



35.4371, 0.1922, 0.2118



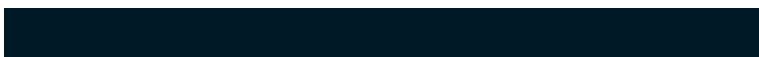
7.6047, 0.1648, 0.0979



12.0616, 0.2983, 0.3210



13.8037, 0.1931, 0.2151



0.8491, 0.2000, 0.2400



# Previews

## White Background



This preview shows how the Yxy color 19.7647, 0.5493, 0.3831 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 19.7647, 0.5493, 0.3831 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 19.7647, 0.5493, 0.3831**

## Background



This preview shows how black text looks on a background with the Yxy color 19.7647, 0.5493, 0.3831.



This preview shows how white text looks on a background with the Yxy color 19.7647, 0.5493, 0.3831.

# 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

19.7647, 0.5493, 0.3831

### Protanopia

19.9585, 0.4221, 0.4671

### Deuteranopia

19.8147, 0.4679, 0.4605



## Tritanopia

19.7183, 0.4900, 0.3225

# Trichromacy



## Original Color

19.7647, 0.5493, 0.3831

## Protanomaly

19.1716, 0.4721, 0.4333

## Deuteranomaly

19.2360, 0.5018, 0.4291

## Tritanomaly

19.5833, 0.5173, 0.3483

# Monochromacy



## Original Color

19.7647, 0.5493, 0.3831

## Achromatopsia

17.4647, 0.3127, 0.3290

## Achromatomaly

17.2441, 0.4042, 0.3675

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.7647, 0.5493, 0.3831 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, 88, 29)` looks like.

```
.text, #text, p{  
  color:rgb(203, 88, 29)  
}
```

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, 88, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 88, 29) }
```

## Border

The CSS property to change the border of an element to Yxy 19.7647, 0.5493, 0.3831 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, 88, 29) }
```

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

```
.border{ border-color:rgb(203, 88, 29) }
```

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

Here you see how a box with a 4 pixel rgb(203, 88, 29) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 88, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 88, 29);  
box-shadow:4px 4px 4px 4px rgb(203, 88,  
29) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.7647, 0.5493, 0.3831 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 88, 29) }
```

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

```
.background{ background-color: rgb(203, 88,  
29) }
```

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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