

# Converting Colors

$Y_{xy}(19.9600, 0.5478, 0.3845)$

Have a look what the booklet for  
Yxy(19.9600, 0.5478, 0.3845)  
contains.

<b>Yxy(19.9300, 0.5480, 0.3843)</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(19.9300, 0.5480, 0.3843)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CB591D
RGB	203, 89, 29
RGB Percent	80%, 35%, 11%
CMY	0.2040, 0.6509, 0.8863
CMYK	0.00, 0.56, 0.86, 0.20
HSL	21°, 75%, 45%
HSV	21°, 86%, 80%
XYZ	28.4196, 19.9300, 3.5110
YIQ	116.2460, 87.2040, 5.5080

# Conversions

## Conversions Part 2

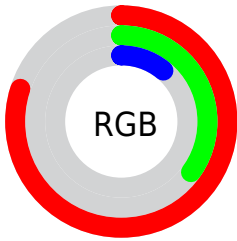
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	203, 121, 29
Decimal	13326621
CIE <sub>Lab</sub>	51.76, 42.29, 53.17
CIE <sub>LCh</sub>	52, 67.932, 51.503
Yxy	19.9300, 0.5480, 0.3843
Android (android.graphics.Color)	4291516701 (0xFFCB591D)
YUV	116.2460, -43.0123, 76.0833
Hunter-Lab	44.6430, 35.5071, 26.5872

# Details

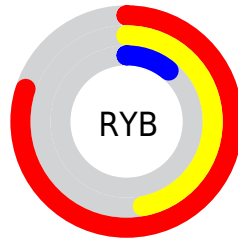
The Yxy color **19.9300, 0.5480, 0.3843** is a dark color, and the websafe version is hex **CC6633**. The color can be described as dark washed red. A complement of this color would be **24.2046, 0.2003, 0.2297**, and the grayscale version is **17.6610, 0.3127, 0.3290**.

A 20% lighter version of the original color is **41.1705, 0.4932, 0.3881**, and **7.0739, 0.6019, 0.3603** is the 20% darker color. If you saturate the color by 10%, you get **17.8444, 0.5754, 0.3769**, and if you desaturate by 10%, it is **22.4835, 0.5153, 0.3867**.

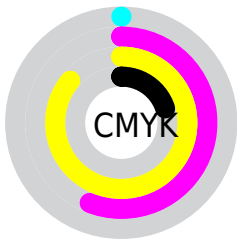
# Distribution



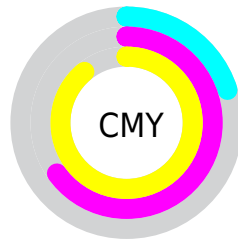
- Red (80%)
- Green (35%)
- Blue (11%)



- Red (80%)
- Yellow (47%)
- Blue (11%)



- Cyan (0%)
- Magenta (56%)
- Yellow (86%)
- Black (20%)




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


# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.9300, 0.5480, 0.3843 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 19.9300, 0.5480, 0.3843 by changing the saturation by 10% instead.





 19.9300, 0.5480,  
0.3843


 19.9300, 0.5480,  
0.3843


251.5359, 0.4209,  
0.3695


 12.3442, 0.5782,  
0.3799


 43.2998, 0.5017,  
0.3841


 6.9785, 0.6210,  
0.3730


 59.8525, 0.4841,  
0.3823

 3.4487, 0.6552,  
0.3448

 80.1631, 0.4693,  
0.3802

 1.3702, 0.7021,  
0.2979

 104.6157, 0.4566,  
0.3779

 0.1946, 0.8676,  
0.1324

 133.5950, 0.4458,  
0.3756

 0.0000, 1.0000,  
0.0000


 167.4851, 0.4364,

 0.0000, 0.0000,


0.3735

0.0000


 206.6707, 0.4281,  
0.3715


 19.9300, 0.5480,  
0.3843


 19.9300, 0.5480,  
0.3843


 17.8444, 0.5754,  
0.3769


 22.4835, 0.5153,  
0.3867

 17.0781, 0.5858,  
0.3731

 25.5327, 0.4805,  
0.3844

 29.1066, 0.4463,  
0.3787

 33.2305, 0.4144,  
0.3707

 37.9280, 0.3860,  
0.3616

■ 43.2209, 0.3612,  
0.3521

■ 49.1302, 0.3399,  
0.3427

■ 55.6756, 0.3218,  
0.3338

■ 62.8759, 0.3064,  
0.3255

# Harmonies

## Analogous

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



19.9300, 0.5278, 0.3085



19.9300, 0.5480, 0.3843



19.9300, 0.4926, 0.4683

# Triad

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



19.9300, 0.5480, 0.3843



19.9300, 0.1915, 0.4414



19.9300, 0.1960, 0.1613

# Complementary

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



19.9300, 0.5480, 0.3843



24.2046, 0.2003, 0.2297

# 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.



19.9300, 0.1400, 0.1636



19.9300, 0.5480, 0.3843



19.9300, 0.1345, 0.2940

# Square

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



19.9300, 0.5480, 0.3843



19.9300, 0.2885, 0.5546



19.9300, 0.1201, 0.2021



19.9300, 0.2950, 0.1880



# Rectangle

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



19.9300, 0.5480, 0.3843



19.9300, 0.4313, 0.5233



19.9300, 0.1201, 0.2021



19.9300, 0.1728, 0.1587

# Sweetspot

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



19.9311, 0.5480, 0.3843



71.7950, 0.3627, 0.3527



15.6167, 0.4078, 0.2110



14.6811, 0.3710, 0.3560



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.



19.9311, 0.5480, 0.3843



28.2352, 0.5881, 0.3712



43.0495, 0.4423, 0.4762



11.8360, 0.3282, 0.3371



11.0244, 0.5833, 0.3751



0.7097, 0.5453, 0.4052



# Inverse Universe

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



24.2046, 0.2003, 0.2297



34.8670, 0.1915, 0.2095



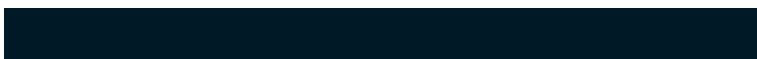
7.5976, 0.1647, 0.0978



12.0500, 0.2983, 0.3208



13.5891, 0.1925, 0.2130



0.8391, 0.1995, 0.2383



# Previews

## White Background



This preview shows how the Yxy color 19.9300, 0.5480, 0.3843 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 19.9300, 0.5480, 0.3843 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 19.9300, 0.5480, 0.3843**

## **Background**



This preview shows how black text looks on a background with the Yxy color 19.9300, 0.5480, 0.3843.



This preview shows how white text looks on a background with the Yxy color 19.9300, 0.5480, 0.3843.

# 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

19.9300, 0.5480, 0.3843

### Protanopia

20.0442, 0.4234, 0.4662

### Deuteranopia

20.1491, 0.4676, 0.4609



## Tritanopia

19.8869, 0.4877, 0.3225

# Trichromacy



## Original Color

19.9300, 0.5480, 0.3843

## Protanomaly

19.1716, 0.4721, 0.4333

## Deuteranomaly

19.5577, 0.5013, 0.4296

## Tritanomaly

19.7396, 0.5163, 0.3495

# Monochromacy



## Original Color

19.9300, 0.5480, 0.3843

## 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 19.9300, 0.5480, 0.3843 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, 89, 29)` looks like.

```
.text, #text, p{  
    color:rgb(203, 89, 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, 89, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 89, 29) }
```

## Border

The CSS property to change the border of an element to Yxy 19.9300, 0.5480, 0.3843 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, 89, 29) }
```

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

```
.border{ border-color:rgb(203, 89, 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, 89, 29) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 89, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 89, 29);  
box-shadow:4px 4px 4px 4px rgb(203, 89,  
29) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.9300, 0.5480, 0.3843 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 89, 29) }
```

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

```
.background{ background-color: rgb(203, 89,  
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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