

# Converting Colors

$Y_{xy}(19.9690, 0.5391, 0.3987)$

Have a look what the booklet for  
Yxy(19.9690, 0.5391, 0.3987)  
contains.

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**Color**

**Yxy(19.9707, 0.5391, 0.3990)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C45F14
RGB	196, 95, 20
RGB Percent	77%, 37%, 8%
CMY	0.2314, 0.6274, 0.9212
CMYK	0.00, 0.52, 0.90, 0.23
HSL	26°, 81%, 42%
HSV	26°, 90%, 77%
XYZ	26.9830, 19.9707, 3.0982
YIQ	116.6490, 84.2710, -1.9130

# Conversions

## Conversions Part 2

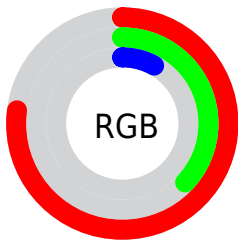
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	196, 151, 20
Decimal	12869396
CIE <sub>Lab</sub>	51.80, 36.36, 55.84
CIE <sub>LCh</sub>	52, 66.636, 56.935
Yxy	19.9707, 0.5391, 0.3990
Android (android.graphics.Color)	4291059476 (0xFFC45F14)
YUV	116.6490, -47.6480, 69.5908
Hunter-Lab	44.6886, 29.5733, 27.1715

# Details

The Yxy color **19.9707, 0.5391, 0.3990** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed red. A complement of this color would be **17.8266, 0.1907, 0.1988**, and the grayscale version is **17.8093, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.6085, 0.4931, 0.3974**, and **7.0277, 0.5833, 0.3750** is the 20% darker color. If you saturate the color by 10%, you get **18.0391, 0.5624, 0.3914**, and if you desaturate by 10%, it is **22.2479, 0.5117, 0.4019**.

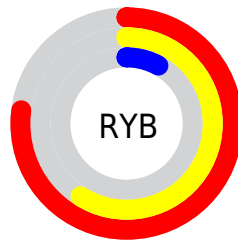
# Distribution



Red (77%)

Green (37%)

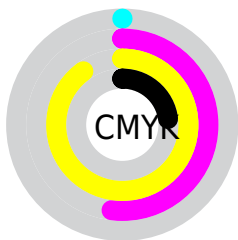
Blue (8%)



Red (77%)

Yellow (59%)

Blue (8%)

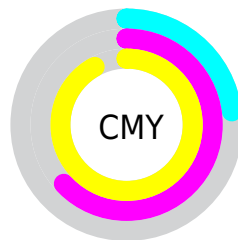


Cyan (0%)

Magenta (52%)

Yellow (90%)

Black (23%)



Cyan (23%)

Magenta (63%)


Yellow (92%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.9707, 0.5391, 0.3990 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 19.9707, 0.5391, 0.3990 by changing the saturation by 10% instead.





 19.9707, 0.5391,  
0.3990


 19.9707, 0.5391,  
0.3990


251.7565, 0.4181,  
0.3763


 12.3737, 0.5669,  
0.3964


 43.3681, 0.4956,  
0.3960


 6.9988, 0.6075,  
0.3925


 59.9372, 0.4789,  
0.3931


 3.4613, 0.6349,  
0.3651

 80.2660, 0.4647,  
0.3900

 1.3771, 0.6779,  
0.3221

 104.7386, 0.4525,  
0.3869

 0.1997, 0.8463,  
0.1537

 133.7396, 0.4421,  
0.3840

 0.0000, 1.0000,  
0.0000

 167.6533, 0.4330,

 0.0000, 0.0000,


0.3812


0.0000


 206.8641, 0.4251,  
0.3786


 19.9707, 0.5391,  
0.3990


 19.9707, 0.5391,  
0.3990


 18.0391, 0.5624,  
0.3914


 22.2479, 0.5117,  
0.4019

 17.9950, 0.5629,  
0.3912

 24.8959, 0.4814,  
0.3997

 27.9360, 0.4505,  
0.3934

 31.3865, 0.4208,  
0.3843

 35.2640, 0.3934,  
0.3735

■ 39.5843, 0.3689,  
0.3620

■ 44.3620, 0.3473,  
0.3504

■ 49.6112, 0.3285,  
0.3393

■ 55.3453, 0.3123,  
0.3287

# Harmonies

## Analogous

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



19.9707, 0.5341, 0.3225



19.9707, 0.5391, 0.3990



19.9707, 0.4755, 0.4825

# Triad

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



19.9707, 0.5391, 0.3990



19.9707, 0.1802, 0.4115



19.9707, 0.2123, 0.1663

# Complementary

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



19.9707, 0.5391, 0.3990



17.8266, 0.1907, 0.1988

# 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.



19.9707, 0.1496, 0.1633



19.9707, 0.5391, 0.3990



19.9707, 0.1317, 0.2740

# Square

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



19.9707, 0.5391, 0.3990



19.9707, 0.2706, 0.5379



19.9707, 0.1239, 0.1941



19.9707, 0.3174, 0.1977



# Rectangle

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



19.9707, 0.5391, 0.3990



19.9707, 0.4123, 0.5331



19.9707, 0.1239, 0.1941



19.9707, 0.1868, 0.1621

# Sweetspot

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



19.9718, 0.5391, 0.3990



73.6547, 0.3636, 0.3593



13.6608, 0.4421, 0.2273



15.1500, 0.3715, 0.3633



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.



19.9718, 0.5391, 0.3990



32.1145, 0.5655, 0.3892



44.9698, 0.4305, 0.4903



10.7674, 0.3279, 0.3388



11.7266, 0.5605, 0.3931



0.6431, 0.5215, 0.4242



# Inverse Universe

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



17.8266, 0.1907, 0.1988



27.8979, 0.1834, 0.1802



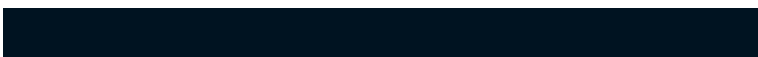
5.3219, 0.1576, 0.0773



10.6864, 0.2984, 0.3190



10.2542, 0.1847, 0.1848



0.5774, 0.1945, 0.2202



# Previews

## White Background



This preview shows how the Yxy color 19.9707, 0.5391, 0.3990 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 19.9707, 0.5391, 0.3990 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 19.9707, 0.5391, 0.3990**

## **Background**



This preview shows how black text looks on a background with the Yxy color 19.9707, 0.5391, 0.3990.



This preview shows how white text looks on a background with the Yxy color 19.9707, 0.5391, 0.3990.

# 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

19.9707, 0.5391, 0.3990

### Protanopia

20.0746, 0.4308, 0.4744

### Deuteranopia

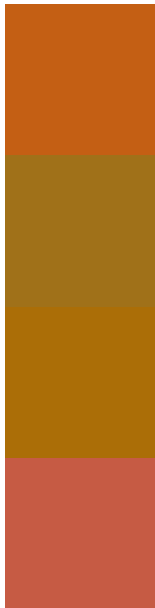
20.1250, 0.4705, 0.4646



## Tritanopia

20.1131, 0.4672, 0.3219

# Trichromacy



## Original Color

19.9707, 0.5391, 0.3990

## Protanomaly

19.3540, 0.4730, 0.4449

## Deuteranomaly

19.8251, 0.4971, 0.4398

## Tritanomaly

19.9053, 0.5030, 0.3567

# Monochromacy



## Original Color

19.9707, 0.5391, 0.3990

## Achromatopsia

17.7888, 0.3127, 0.3290

## Achromatomaly

17.6575, 0.4018, 0.3765

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.9707, 0.5391, 0.3990 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, 95, 20)` looks like.

```
.text, #text, p{  
    color:rgb(196, 95, 20)  
}
```

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, 95, 20) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 95, 20) }
```

## Border

The CSS property to change the border of an element to Yxy 19.9707, 0.5391, 0.3990 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, 95, 20) }
```

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

```
.border{ border-color:rgb(196, 95, 20) }
```

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

Here you see how a box with a 4 pixel rgb(196, 95, 20) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 95, 20); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 95, 20);  
box-shadow:4px 4px 4px 4px rgb(196, 95,  
20) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.9707, 0.5391, 0.3990 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 95, 20) }
```

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

```
.background{ background-color: rgb(196, 95,  
20) }
```

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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