

# Converting Colors

$Y_{xy}(25.3208, 0.5307, 0.4520)$

Have a look what the booklet for  
Yxy(25.3208, 0.5307, 0.4520)  
contains.

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**Color**

**Yxy(25.5751, 0.5114, 0.4321)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C77800
RGB	199, 120, 0
RGB Percent	78%, 47%, 0%
CMY	0.2196, 0.5294, 0.9996
CMYK	0.00, 0.40, 1.00, 0.22
HSL	36°, 100%, 39%
HSV	36°, 100%, 78%
XYZ	30.2687, 25.5751, 3.3441
YIQ	129.9410, 85.6040, -20.5720

# Conversions

## Conversions Part 2

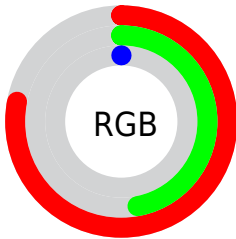
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	131, 199, 0
Decimal	13072384
CIE Lab	57.63, 24.07, 64.32
CIE LCh	58, 68.674, 69.483
Yxy	25.5751, 0.5114, 0.4321
Android (android.graphics.Color)	4291262464 (0xFFC77800)
YUV	129.9410, -64.0609, 60.5647
Hunter-Lab	50.5718, 18.3367, 31.4797

# Details

The Yxy color **25.5751, 0.5114, 0.4321** 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 **9.7294, 0.1680, 0.1246**, and the grayscale version is **22.5150, 0.3127, 0.3290**.

A 20% lighter version of the original color is **51.5645, 0.4722, 0.4255**, and **9.9954, 0.5343, 0.4140** is the 20% darker color. If you saturate the color by 10%, you get **25.5656, 0.5115, 0.4321**, and if you desaturate by 10%, it is **27.6070, 0.4956, 0.4359**.

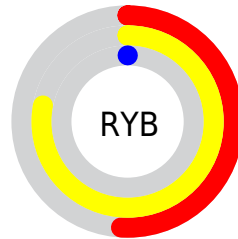
# Distribution



Red (78%)

Green (47%)

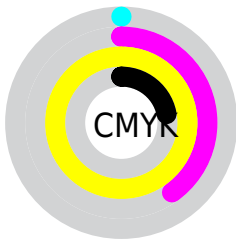
Blue (0%)



Red (51%)

Yellow (78%)

Blue (0%)

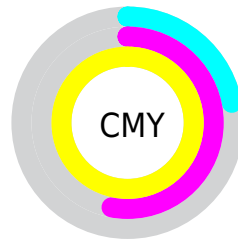


Cyan (0%)

Magenta (40%)

Yellow (100%)

Black (22%)



Cyan (22%)

Magenta (53%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 25.5751, 0.5114, 0.4321 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 25.5751, 0.5114, 0.4321 by changing the saturation by 10% instead.





 25.5751, 0.5114,  
0.4321


 25.5751, 0.5114,  
0.4321


280.6900, 0.4119,  
0.3918


 16.5060, 0.5318,  
0.4347


 52.5887, 0.4776,  
0.4223


 9.8829, 0.5603,  
0.4380


 71.3020, 0.4639,  
0.4170


 5.3214, 0.5770,  
0.4230

 93.9988, 0.4521,  
0.4119

 2.4371, 0.6011,  
0.3989

 121.0636, 0.4419,  
0.4072

 0.8449, 0.6425,  
0.3575

 152.8807, 0.4329,  
0.4028

 0.0000, 1.0000,  
0.0000


 189.8346, 0.4250,


 0.0000, 0.0000,


0.3988

0.0000


 232.3095, 0.4181,  
0.3952

 25.5751, 0.5114,  
0.4321


 25.5751, 0.5114,  
0.4321


 25.5656, 0.5115,  
0.4321

 27.6070, 0.4956,  
0.4359

 29.8498, 0.4768,  
0.4351

 32.3263, 0.4554,  
0.4293

 35.0492, 0.4325,  
0.4193

 38.0300, 0.4093,  
0.4062

■ 41.2787, 0.3867,  
0.3912

■ 44.8048, 0.3655,  
0.3753

■ 48.6171, 0.3460,  
0.3594

■ 52.7238, 0.3284,  
0.3438

# Harmonies

## Analogous

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



25.5751, 0.5361, 0.3549



25.5751, 0.5114, 0.4321



25.5751, 0.4343, 0.5095

# Triad

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



25.5751, 0.5114, 0.4321



25.5751, 0.1612, 0.3485



25.5751, 0.2544, 0.1818

# Complementary

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



25.5751, 0.5114, 0.4321



9.7294, 0.1680, 0.1246

# 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.



25.5751, 0.1765, 0.1671



25.5751, 0.5114, 0.4321



25.5751, 0.1310, 0.2385

# Square

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



25.5751, 0.5114, 0.4321



25.5751, 0.2337, 0.4851



25.5751, 0.1371, 0.1827



25.5751, 0.3685, 0.2229



# Rectangle

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



25.5751, 0.5114, 0.4321



25.5751, 0.3686, 0.5437



25.5751, 0.1371, 0.1827



25.5751, 0.2238, 0.1738

# Sweetspot

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



25.5764, 0.5114, 0.4321



78.1392, 0.3666, 0.3761



12.7177, 0.5389, 0.2743



16.1489, 0.3755, 0.3830



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.



25.5764, 0.5114, 0.4321



44.2823, 0.5131, 0.4308



50.4395, 0.4018, 0.5192



11.6827, 0.3275, 0.3429



16.6157, 0.5099, 0.4334



0.9254, 0.4862, 0.4522



# Inverse Universe

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



9.7294, 0.1680, 0.1246



16.5798, 0.1672, 0.1220



4.2743, 0.1532, 0.0618



10.9671, 0.2983, 0.3147



6.4106, 0.1686, 0.1271



0.4444, 0.1804, 0.1694



# Previews

## White Background



This preview shows how the Yxy color 25.5751, 0.5114, 0.4321 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

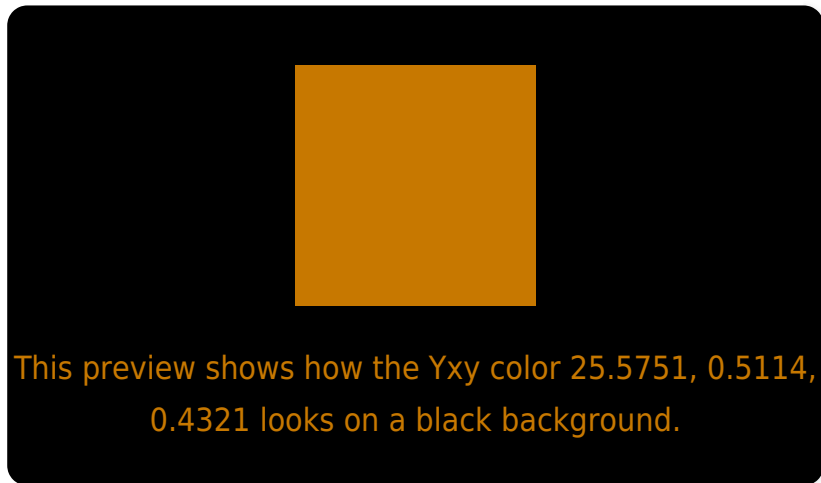
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



## 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 25.5751, 0.5114, 0.4321**

## **Background**



This preview shows how black text looks on a background with the Yxy color 25.5751, 0.5114, 0.4321.



This preview shows how white text looks on a background with the Yxy color 25.5751, 0.5114, 0.4321.

# 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

25.5751, 0.5114, 0.4321

### Protanopia

25.6678, 0.4376, 0.4836

### Deuteranopia

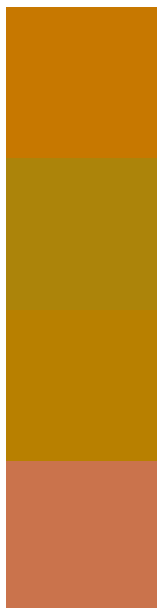
25.7326, 0.4715, 0.4638



## Tritanopia

25.6409, 0.4206, 0.3190

# Trichromacy



## Original Color

25.5751, 0.5114, 0.4321

## Protanomaly

25.2951, 0.4650, 0.4646

## Deuteranomaly

25.6287, 0.4855, 0.4527

## Tritanomaly

25.3398, 0.4732, 0.3772

# Monochromacy



## Original Color

25.5751, 0.5114, 0.4321

## Achromatopsia

22.3228, 0.3127, 0.3290

## Achromatomaly

22.5148, 0.3997, 0.3992

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 25.5751, 0.5114, 0.4321 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(199, 120, 0)` looks like.

```
.text, #text, p{  
    color:rgb(199, 120, 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(199, 120, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 120, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 25.5751, 0.5114, 0.4321 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(199, 120, 0) }
```

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

```
.border{ border-color:rgb(199, 120, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(199, 120, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 120, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 120, 0);  
box-shadow:4px 4px 4px 4px rgb(199, 120,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 25.5751, 0.5114, 0.4321 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 120, 0) }
```

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

```
.background{ background-color: rgb(199,  
120, 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](#).

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