

# Converting Colors

$Y_{xy}(27.3821, 0.5096, 0.4336)$

Have a look what the booklet for  
Yxy(27.3821, 0.5096, 0.4336)  
contains.

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**Color**

**Yxy(27.5046, 0.5088, 0.4342)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CC7D00
RGB	204, 125, 0
RGB Percent	80%, 49%, 0%
CMY	0.2001, 0.5097, 0.9999
CMYK	0.00, 0.39, 1.00, 0.20
HSL	37°, 100%, 40%
HSV	37°, 100%, 80%
XYZ	32.2302, 27.5046, 3.6107
YIQ	134.3710, 87.2090, -22.1270

# Conversions

## Conversions Part 2

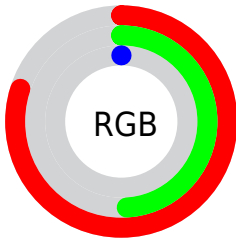
<b>Format</b>	<b>Color</b>
<b>RYB</b>	129, 204, 0
Decimal	13401344
CIELab	59.44, 23.50, 65.81
CIElCh	59, 69.882, 70.348
Yxy	27.5046, 0.5088, 0.4342
Android (android.graphics.Color)	4291591424 (0xFFCC7D00)
YUV	134.3710, -66.2449, 61.0646
Hunter-Lab	52.4448, 17.9194, 32.6294

# Details

The Yxy color **27.5046, 0.5088, 0.4342** 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 **9.9473, 0.1671, 0.1214**, and the grayscale version is **24.2113, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.5305, 0.4672, 0.4294**, and **11.0982, 0.5299, 0.4175** is the 20% darker color. If you saturate the color by 10%, you get **27.5035, 0.5088, 0.4342**, and if you desaturate by 10%, it is **29.6379, 0.4935, 0.4379**.

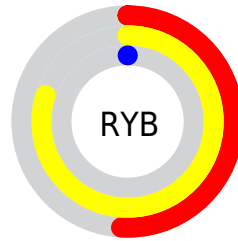
# Distribution



Red (80%)

Green (49%)

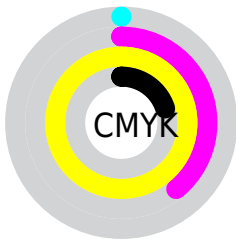
Blue (0%)



Red (51%)

Yellow (80%)

Blue (0%)

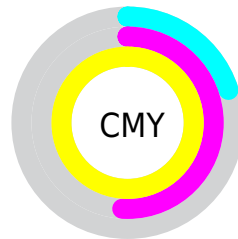


Cyan (0%)

Magenta (39%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (51%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 27.5046, 0.5088, 0.4342 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 27.5046, 0.5088, 0.4342 by changing the saturation by 10% instead.





 27.5046, 0.5088,  
0.4342


 27.5046, 0.5088,  
0.4342


290.0921, 0.4119,  
0.3932


 17.9526, 0.5283,  
0.4372


 55.6925, 0.4762,  
0.4241

 10.9159, 0.5540,  
0.4399


 75.0972, 0.4629,  
0.4187


 6.0103, 0.5718,  
0.4282

 98.5549, 0.4514,  
0.4135

 2.8514, 0.5935,  
0.4065

 126.4500, 0.4414,  
0.4087

 1.0546, 0.6299,  
0.3701

 159.1668, 0.4326,  
0.4043

 0.0000, 1.0000,  
0.0000


 197.0899, 0.4249,

 0.0000, 0.0000,


0.4003

0.0000


 240.6035, 0.4180,  
0.3966


 27.5046, 0.5088,  
0.4342

 27.5046, 0.5088,  
0.4342


 27.5035, 0.5088,  
0.4342

 29.6379, 0.4935,  
0.4379

 31.9870, 0.4753,  
0.4370

 34.5758, 0.4543,  
0.4310

 37.4176, 0.4318,  
0.4208

 40.5240, 0.4089,  
0.4075

■ 43.9056, 0.3866,  
0.3923

■ 47.5723, 0.3655,  
0.3762

■ 51.5331, 0.3461,  
0.3600

■ 55.7965, 0.3285,  
0.3441

# Harmonies

## Analogous

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



27.5046, 0.5350, 0.3571



27.5046, 0.5088, 0.4342



27.5046, 0.4312, 0.5105

# Triad

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



27.5046, 0.5088, 0.4342



27.5046, 0.1606, 0.3446



27.5046, 0.2576, 0.1834

# Complementary

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



27.5046, 0.5088, 0.4342



9.9473, 0.1671, 0.1214

# 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.



27.5046, 0.1789, 0.1680



27.5046, 0.5088, 0.4342



27.5046, 0.1316, 0.2369

# Square

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



27.5046, 0.5088, 0.4342



27.5046, 0.2317, 0.4805



27.5046, 0.1385, 0.1826



27.5046, 0.3718, 0.2250



# Rectangle

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



27.5046, 0.5088, 0.4342



27.5046, 0.3657, 0.5431



27.5046, 0.1385, 0.1826



27.5046, 0.2268, 0.1752

# Sweetspot

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



27.5060, 0.5088, 0.4342



78.5534, 0.3663, 0.3769



13.4373, 0.5394, 0.2745



16.2476, 0.3752, 0.3838



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.



27.5060, 0.5088, 0.4342



45.1324, 0.5102, 0.4331



53.3112, 0.4018, 0.5192



12.3390, 0.3275, 0.3432



17.5013, 0.5072, 0.4355



1.0474, 0.4856, 0.4526



# Inverse Universe

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



9.9473, 0.1671, 0.1214



16.0900, 0.1664, 0.1191



4.5121, 0.1531, 0.0617



11.5443, 0.2983, 0.3144



6.4295, 0.1678, 0.1240



0.4778, 0.1788, 0.1637



# Previews

## White Background



This preview shows how the Yxy color 27.5046, 0.5088, 0.4342 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 27.5046, 0.5088, 0.4342 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 27.5046, 0.5088, 0.4342**

## Background



This preview shows how black text looks on a background with the Yxy color 27.5046, 0.5088, 0.4342.



This preview shows how white text looks on a background with the Yxy color 27.5046, 0.5088, 0.4342.

# 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

27.5046, 0.5088, 0.4342

### Protanopia

27.6624, 0.4371, 0.4845

### Deuteranopia

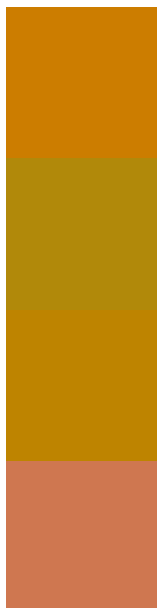
27.5534, 0.4723, 0.4632



## Tritanopia

27.5268, 0.4186, 0.3180

# Trichromacy



## Original Color

27.5046, 0.5088, 0.4342

## Protanomaly

27.2603, 0.4637, 0.4659

## Deuteranomaly

27.4497, 0.4859, 0.4524

## Tritanomaly

27.0382, 0.4701, 0.3764

# Monochromacy



## Original Color

27.5046, 0.5088, 0.4342

## Achromatopsia

23.8398, 0.3127, 0.3290

## Achromatomaly

24.2594, 0.3988, 0.4022

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.5046, 0.5088, 0.4342 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(204, 125, 0)` looks like.

```
.text, #text, p{  
    color:rgb(204, 125, 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(204, 125, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 125, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 27.5046, 0.5088, 0.4342 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(204, 125, 0) }
```

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

```
.border{ border-color:rgb(204, 125, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 125, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 125, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 125, 0);  
box-shadow:4px 4px 4px 4px rgb(204, 125,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 27.5046, 0.5088, 0.4342 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 125, 0) }
```

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

```
.background{ background-color: rgb(204,  
125, 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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