

# Converting Colors

$Y_{xy}(24.1778, 0.5289, 0.4183)$

Have a look what the booklet for  
Yxy(24.1778, 0.5289, 0.4183)  
contains.

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**Color**

**Yxy(24.2062, 0.5287, 0.4184)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CC6F00
RGB	204, 111, 0
RGB Percent	80%, 44%, 0%
CMY	0.2000, 0.5647, 0.9999
CMYK	0.00, 0.46, 1.00, 0.20
HSL	33°, 100%, 40%
HSV	33°, 100%, 80%
XYZ	30.5875, 24.2062, 3.0605
YIQ	126.1530, 91.0590, -14.8050

# Conversions

## Conversions Part 2

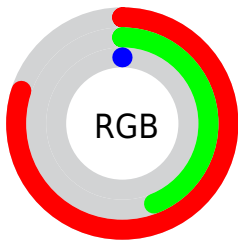
Format	Color
<b>RYB</b>	171, 204, 0
Decimal	13397760
CIELab	56.29, 31.03, 63.83
CIElCh	56, 70.977, 64.076
Yxy	24.2062, 0.5287, 0.4184
Android (android.graphics.Color)	4291587840 (0xFFCC6F00)
YUV	126.1530, -62.1934, 68.2718
Hunter-Lab	49.1998, 24.8738, 30.7517

# Details

The Yxy color **24.2062, 0.5287, 0.4184** 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 **12.1927, 0.1729, 0.1423**, and the grayscale version is **21.1131, 0.3127, 0.3290**.

A 20% lighter version of the original color is **47.8477, 0.4825, 0.4174**, and **9.2849, 0.5568, 0.3961** is the 20% darker color. If you saturate the color by 10%, you get **24.2055, 0.5287, 0.4184**, and if you desaturate by 10%, it is **26.3962, 0.5103, 0.4238**.

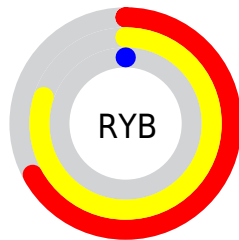
# Distribution



Red (80%)

Green (44%)

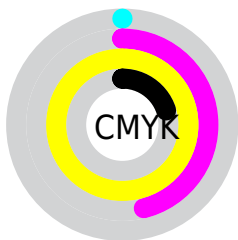
Blue (0%)



Red (67%)

Yellow (80%)

Blue (0%)

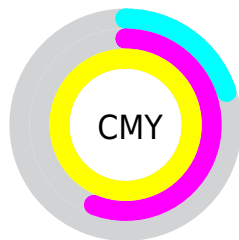


Cyan (0%)

Magenta (46%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (56%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.2062, 0.5287, 0.4184 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 24.2062, 0.5287, 0.4184 by changing the saturation by 10% instead.





 24.2062, 0.5287,  
0.4184

 24.2062, 0.5287,  
0.4184


273.8613, 0.4191,  
0.3871


 15.4867, 0.5516,  
0.4180


 50.3665, 0.4911,  
0.4125


 9.1616, 0.5833,  
0.4167

 68.5760, 0.4761,  
0.4084

 4.8468, 0.6037,  
0.3963

 90.7176, 0.4631,  
0.4043

 2.1576, 0.6348,  
0.3652

 117.1758, 0.4518,  
0.4004

 0.6967, 0.6915,  
0.3085

 148.3348, 0.4420,  
0.3967

 0.0000, 1.0000,  
0.0000

 184.5792, 0.4334,


 0.0000, 0.0000,


0.3932

0.0000

 226.2932, 0.4258,  
0.3900


 24.2062, 0.5287,  
0.4184

 24.2062, 0.5287,  
0.4184


 24.2055, 0.5287,  
0.4184

 26.3962, 0.5103,  
0.4238

 28.8572, 0.4888,  
0.4244

 31.6154, 0.4645,  
0.4199

 34.6864, 0.4389,  
0.4111

 38.0841, 0.4136,  
0.3993

■ 41.8214, 0.3894,  
0.3856

■ 45.9100, 0.3670,  
0.3712

■ 50.3609, 0.3467,  
0.3566

■ 55.1848, 0.3287,  
0.3424

# Harmonies

## Analogous

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



24.2062, 0.5429, 0.3401



24.2062, 0.5287, 0.4184



24.2062, 0.4542, 0.5018

# Triad

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



24.2062, 0.5287, 0.4184



24.2062, 0.1646, 0.3752



24.2062, 0.2336, 0.1714

# Complementary

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



24.2062, 0.5287, 0.4184



12.1927, 0.1729, 0.1423

# 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.



24.2062, 0.1610, 0.1614



24.2062, 0.5287, 0.4184



24.2062, 0.1267, 0.2496

# Square

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



24.2062, 0.5287, 0.4184



24.2062, 0.2464, 0.5157



24.2062, 0.1271, 0.1832



24.2062, 0.3475, 0.2090



# Rectangle

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



24.2062, 0.5287, 0.4184



24.2062, 0.3877, 0.5465



24.2062, 0.1271, 0.1832



24.2062, 0.2046, 0.1649

# Sweetspot

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



24.2075, 0.5287, 0.4184



75.7446, 0.3679, 0.3718



13.6686, 0.5115, 0.2592



15.5802, 0.3772, 0.3780



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.



24.2075, 0.5287, 0.4184



39.6495, 0.5305, 0.4170



55.0863, 0.4135, 0.5099



12.2081, 0.3277, 0.3416



15.4227, 0.5268, 0.4200



0.9462, 0.5002, 0.4410



# Inverse Universe

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



12.1927, 0.1729, 0.1423



19.7713, 0.1722, 0.1400



4.4043, 0.1509, 0.0605



11.6725, 0.2983, 0.3161



7.8539, 0.1736, 0.1448



0.5562, 0.1840, 0.1824



# Previews

## White Background



This preview shows how the Yxy color 24.2062, 0.5287, 0.4184 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 24.2062, 0.5287, 0.4184 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 24.2062, 0.5287, 0.4184**

## **Background**



This preview shows how black text looks on a background with the Yxy color 24.2062, 0.5287, 0.4184.



This preview shows how white text looks on a background with the Yxy color 24.2062, 0.5287, 0.4184.

# 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

24.2062, 0.5287, 0.4184

### Protanopia

24.4211, 0.4361, 0.4831

### Deuteranopia

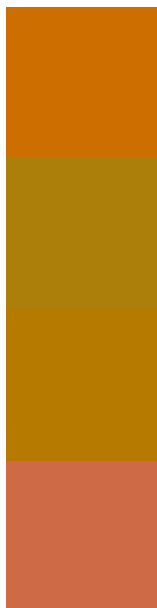
24.3584, 0.4703, 0.4648



## Tritanopia

24.2362, 0.4457, 0.3207

# Trichromacy



## Original Color

24.2062, 0.5287, 0.4184

## Protanomaly

23.9736, 0.4717, 0.4586

## Deuteranomaly

23.9863, 0.4932, 0.4466

## Tritanomaly

24.0157, 0.4941, 0.3709

# Monochromacy



## Original Color

24.2062, 0.5287, 0.4184

## Achromatopsia

20.8637, 0.3127, 0.3290

## Achromatomaly

21.1240, 0.4058, 0.3966

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.2062, 0.5287, 0.4184 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, 111, 0)` looks like.

```
.text, #text, p{  
    color:rgb(204, 111, 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, 111, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 111, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 24.2062, 0.5287, 0.4184 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, 111, 0) }
```

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

```
.border{ border-color:rgb(204, 111, 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, 111, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 111, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 111, 0);  
box-shadow:4px 4px 4px 4px rgb(204, 111,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.2062, 0.5287, 0.4184 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 111, 0) }
```

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

```
.background{ background-color: rgb(204,  
111, 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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