

# Converting Colors

$Y_{xy}(43.8379, 0.4461, 0.4840)$

Have a look what the booklet for  
Yxy(43.8379, 0.4461, 0.4840)  
contains.

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**Color**

**Yxy(43.8880, 0.4459, 0.4841)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CCB000
RGB	204, 176, 0
RGB Percent	80%, 69%, 0%
CMY	0.2001, 0.3098, 0.9992
CMYK	0.00, 0.14, 1.00, 0.20
HSL	52°, 100%, 40%
HSV	52°, 100%, 80%
XYZ	40.4248, 43.8880, 6.3461
YIQ	164.3080, 73.1840, -48.8000

# Conversions

## Conversions Part 2

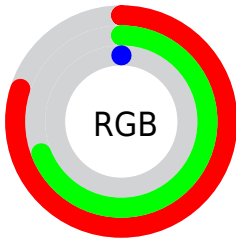
Format	Color
R <sub>Y</sub> B	32, 204, 0
Decimal	13414400
CIE Lab	72.15, -3.96, 74.45
CIE LCh	72, 74.550, 93.042
Yxy	43.8880, 0.4459, 0.4841
Android (android.graphics.Color)	4291604480 (0xFFCCB000)
YUV	164.3080, -81.0038, 34.8099
Hunter-Lab	66.2480, -7.0126, 40.6940

# Details

The Yxy color **43.8880, 0.4459, 0.4841** is a dark color, and the websafe version is hex **CC9900**. The color can be described as dark washed orange. A complement of this color would be **5.1994, 0.1529, 0.0702**, and the grayscale version is **37.6585, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.9763, 0.4212, 0.4671**, and **20.4350, 0.4468, 0.4835** is the 20% darker color. If you saturate the color by 10%, you get **43.8784, 0.4459, 0.4841**, and if you desaturate by 10%, it is **45.0520, 0.4402, 0.4824**.

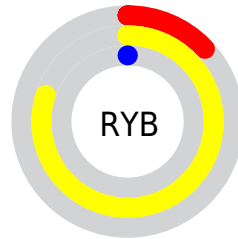
# Distribution



Red (80%)

Green (69%)

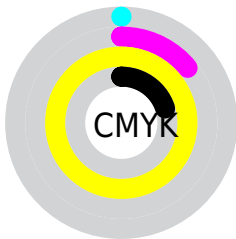
Blue (0%)



Red (13%)

Yellow (80%)

Blue (0%)

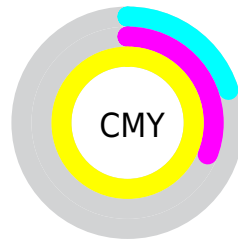


Cyan (0%)

Magenta (14%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (31%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 43.8880, 0.4459, 0.4841 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 43.8880, 0.4459, 0.4841 by changing the saturation by 10% instead.





 43.8880, 0.4459,  
0.4841

 43.8880, 0.4459,  
0.4841


362.2510, 0.3884,  
0.4150


 30.5825, 0.4553,  
0.4963


 81.0492, 0.4284,  
0.4624

 20.2811, 0.4641,  
0.5086


 105.6736, 0.4208,  
0.4532


 12.5996, 0.4754,  
0.5246


 134.8398, 0.4139,  
0.4449

 7.1534, 0.4729,  
0.5271

 168.9322, 0.4077,  
0.4376

 3.5582, 0.4691,  
0.5309

 208.3351, 0.4021,  
0.4310

 1.4296, 0.4625,  
0.5375

 253.4329, 0.3971,

 0.2384, 0.3529,

0.4251

0.6471

304.6101, 0.3925,  
0.4198

■ 0.0000, 0.0000,  
0.0000

■ 43.8880, 0.4459,  
0.4841

■ 43.8880, 0.4459,  
0.4841

■ 43.8784, 0.4459,  
0.4841

■ 45.0520, 0.4402,  
0.4824

■ 46.2918, 0.4322,  
0.4769

■ 47.6283, 0.4213,  
0.4669

■ 49.0715, 0.4081,  
0.4528

■ 50.6302, 0.3930,  
0.4352

■ 52.3118, 0.3768,  
0.4152

■ 54.1231, 0.3602,  
0.3938

■ 56.0704, 0.3436,  
0.3717

■ 58.1595, 0.3277,  
0.3499

# Harmonies

## Analogous

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



43.8880, 0.5069, 0.4130



43.8880, 0.4459, 0.4841



43.8880, 0.3564, 0.5265

# Triad

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



43.8880, 0.4459, 0.4841



43.8880, 0.1470, 0.2652



43.8880, 0.3403, 0.2207

# Complementary

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



43.8880, 0.4459, 0.4841



5.1994, 0.1529, 0.0702

# 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.



43.8880, 0.2410, 0.1869



43.8880, 0.4459, 0.4841



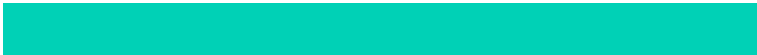
43.8880, 0.1452, 0.2020

# Square

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



43.8880, 0.4459, 0.4841



43.8880, 0.1850, 0.3745



43.8880, 0.1757, 0.1792



43.8880, 0.4476, 0.2754



# Rectangle

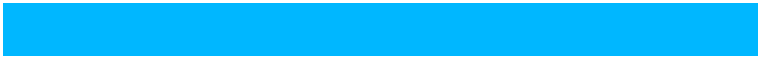
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



43.8880, 0.4459, 0.4841



43.8880, 0.2920, 0.5124



43.8880, 0.1757, 0.1792



43.8880, 0.3043, 0.2068

# Sweetspot

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



43.8901, 0.4459, 0.4841



89.4961, 0.3610, 0.3948



12.9374, 0.6203, 0.3192



18.8768, 0.3681, 0.4041



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.



43.8901, 0.4459, 0.4841



72.4433, 0.4463, 0.4838



48.1376, 0.3587, 0.5533



12.8238, 0.3269, 0.3488



27.7238, 0.4455, 0.4845



1.5045, 0.4397, 0.4891



# Inverse Universe

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



5.1994, 0.1529, 0.0702



8.4224, 0.1525, 0.0689



5.7231, 0.1763, 0.0746



11.0882, 0.2982, 0.3084



3.3471, 0.1532, 0.0716

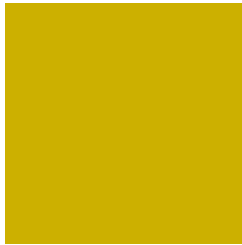


0.2555, 0.1612, 0.1003



# Previews

## White Background



This preview shows how the Yxy color 43.8880, 0.4459, 0.4841 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

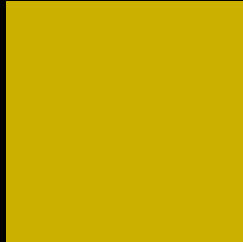
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 43.8880, 0.4459, 0.4841 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 ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 43.8880, 0.4459, 0.4841**

## Background



This preview shows how black text looks on a background with the Yxy color 43.8880, 0.4459, 0.4841.



This preview shows how white text looks on a background with the Yxy color 43.8880, 0.4459, 0.4841.

# 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

43.8880, 0.4459, 0.4841

### Protanopia

44.1311, 0.4396, 0.4878

### Deuteranopia

43.9031, 0.4696, 0.4595



## Tritanopia

43.9816, 0.3493, 0.3146

# Trichromacy



## Original Color

43.8880, 0.4459, 0.4841

## Protanomaly

43.8684, 0.4418, 0.4866

## Deuteranomaly

43.9066, 0.4614, 0.4684

## Tritanomaly

42.8768, 0.4040, 0.3981

# Monochromacy



## Original Color

43.8880, 0.4459, 0.4841

## Achromatopsia

37.1238, 0.3127, 0.3290

## Achromatomaly

38.5884, 0.3799, 0.4177

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 43.8880, 0.4459, 0.4841 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, 176, 0)` looks like.

```
.text, #text, p{  
    color:rgb(204, 176, 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, 176, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 176, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 43.8880, 0.4459, 0.4841 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, 176, 0) }
```

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

```
.border{ border-color:rgb(204, 176, 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, 176, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 176, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 176, 0);  
box-shadow:4px 4px 4px 4px rgb(204, 176,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 43.8880, 0.4459, 0.4841 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 176, 0) }
```

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

```
.background{ background-color: rgb(204,  
176, 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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