

# Converting Colors

$Y_{xy}(45.7095, 0.4489, 0.4818)$

Have a look what the booklet for  
Yxy(45.7095, 0.4489, 0.4818)  
contains.

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# Color

**Yxy(45.5424, 0.4493, 0.4815)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D2B200
RGB	210, 178, 0
RGB Percent	82%, 70%, 0%
CMY	0.1765, 0.3019, 1.0000
CMYK	0.00, 0.15, 1.00, 0.18
HSL	51°, 100%, 41%
HSV	51°, 100%, 82%
XYZ	42.4968, 45.5424, 6.5452
YIQ	167.2760, 76.2100, -48.5740

# Conversions

## Conversions Part 2

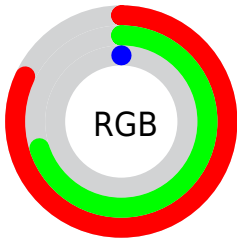
Format	Color
R <sub>Y</sub> B	38, 210, 0
Decimal	13808128
CIE Lab	73.25, -2.35, 75.53
CIE LCh	73, 75.566, 91.785
Yxy	45.5424, 0.4493, 0.4815
Android (android.graphics.Color)	4291998208 (0xFFD2B200)
YUV	167.2760, -82.4671, 37.4689
Hunter-Lab	67.4851, -5.6938, 41.4892

# Details

The Yxy color **45.5424, 0.4493, 0.4815** is a dark color, and the websafe version is hex **FFCC33**. The color can be described as middle washed orange. A complement of this color would be **5.6851, 0.1533, 0.0717**, and the grayscale version is **39.1693, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.1170, 0.4195, 0.4679**, and **21.4057, 0.4501, 0.4808** is the 20% darker color. If you saturate the color by 10%, you get **45.5450, 0.4493, 0.4815**, and if you desaturate by 10%, it is **46.8870, 0.4432, 0.4802**.

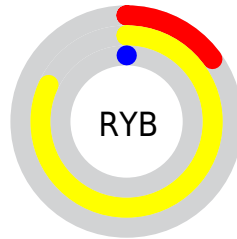
# Distribution



Red (82%)

Green (70%)

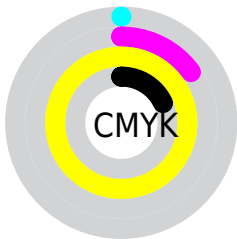
Blue (0%)



Red (15%)

Yellow (82%)

Blue (0%)

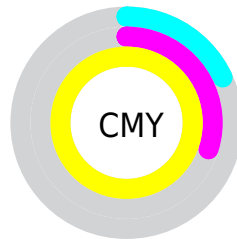


Cyan (0%)

Magenta (15%)

Yellow (100%)

Black (18%)



Cyan (18%)

Magenta (30%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.5424, 0.4493, 0.4815 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 45.5424, 0.4493, 0.4815 by changing the saturation by 10% instead.




 45.5424, 0.4493,  
0.4815

 45.5424, 0.4493,  
0.4815


368.9659, 0.3905,  
0.4147

 31.8849, 0.4590,  
0.4930


 83.5337, 0.4314,  
0.4608

 21.2736, 0.4683,  
0.5045


 108.6363, 0.4236,  
0.4518


 13.3241, 0.4804,  
0.5196


 138.3228, 0.4165,  
0.4438

 7.6521, 0.4789,  
0.5211

 172.9774, 0.4102,  
0.4367

 3.8732, 0.4768,  
0.5232

 212.9846, 0.4045,  
0.4303

 1.6029, 0.4732,  
0.5268

 258.7288, 0.3994,

 0.3595, 0.4415,

0.4245

0.5585

310.5945, 0.3947,  
0.4194

0.0000, 0.0000,  
0.0000

45.5424, 0.4493,  
0.4815

45.5424, 0.4493,  
0.4815

45.5450, 0.4493,  
0.4815

46.8870, 0.4432,  
0.4802

48.3177, 0.4347,  
0.4750

49.8572, 0.4234,  
0.4652

51.5165, 0.4097,  
0.4513

53.3048, 0.3942,  
0.4340

■ 55.2304, 0.3777,  
0.4142

■ 57.3006, 0.3607,  
0.3931

■ 59.5221, 0.3440,  
0.3713

■ 61.9013, 0.3279,  
0.3498

# Harmonies

## Analogous

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



45.5424, 0.5086, 0.4099



45.5424, 0.4493, 0.4815



45.5424, 0.3604, 0.5263

# Triad

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



45.5424, 0.4493, 0.4815



45.5424, 0.1477, 0.2688



45.5424, 0.3357, 0.2188

# Complementary

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



45.5424, 0.4493, 0.4815



5.6851, 0.1533, 0.0717

# 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.



45.5424, 0.2375, 0.1859



45.5424, 0.4493, 0.4815



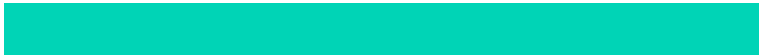
45.5424, 0.1444, 0.2036

# Square

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



45.5424, 0.4493, 0.4815



45.5424, 0.1874, 0.3798



45.5424, 0.1736, 0.1793



45.5424, 0.4438, 0.2727



# Rectangle

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



45.5424, 0.4493, 0.4815



45.5424, 0.2960, 0.5149



45.5424, 0.1736, 0.1793



45.5424, 0.2999, 0.2051

# Sweetspot

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



45.5450, 0.4493, 0.4815



88.8041, 0.3613, 0.3938



13.8221, 0.6173, 0.3174



18.7093, 0.3685, 0.4029



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.



45.5450, 0.4493, 0.4815



70.4535, 0.4496, 0.4812



51.6653, 0.3613, 0.5513



13.4780, 0.3270, 0.3485



27.9024, 0.4488, 0.4819



1.6451, 0.4425, 0.4868



# Inverse Universe

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



5.6851, 0.1533, 0.0717



8.6606, 0.1530, 0.0706



5.9549, 0.1737, 0.0731



11.7042, 0.2982, 0.3087



3.5611, 0.1537, 0.0734

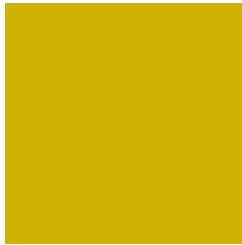


0.2936, 0.1618, 0.1023



# Previews

## White Background



This preview shows how the Yxy color 45.5424, 0.4493, 0.4815 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 45.5424, 0.4493, 0.4815 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 45.5424, 0.4493, 0.4815**

## Background



This preview shows how black text looks on a background with the Yxy color 45.5424, 0.4493, 0.4815.



This preview shows how white text looks on a background with the Yxy color 45.5424, 0.4493, 0.4815.

# 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

45.5424, 0.4493, 0.4815

### Protanopia

45.7596, 0.4391, 0.4878

### Deuteranopia

45.6703, 0.4698, 0.4596



## Tritanopia

45.3403, 0.3529, 0.3137

# Trichromacy



## Original Color

45.5424, 0.4493, 0.4815

## Protanomaly

45.7731, 0.4432, 0.4853

## Deuteranomaly

45.6733, 0.4617, 0.4683

## Tritanomaly

44.5406, 0.4077, 0.3976

# Monochromacy



## Original Color

45.5424, 0.4493, 0.4815

## Achromatopsia

38.6429, 0.3127, 0.3290

## Achromatomaly

40.2337, 0.3807, 0.4174

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.5424, 0.4493, 0.4815 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(210, 178, 0)` looks like.

```
.text, #text, p{  
    color:rgb(210, 178, 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(210, 178, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(210, 178, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 45.5424, 0.4493, 0.4815 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(210, 178, 0) }
```

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

```
.border{ border-color:rgb(210, 178, 0) }
```

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

Here you see how a box with a 4 pixel rgb(210, 178, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(210, 178, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(210, 178, 0);  
box-shadow:4px 4px 4px 4px rgb(210, 178,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.5424, 0.4493, 0.4815 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(210, 178, 0) }
```

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

```
.background{ background-color: rgb(210,  
178, 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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