

# Converting Colors

$Y_{xy}(50.3399, 0.4754, 0.4406)$

Have a look what the booklet for  
Yxy(50.3399, 0.4754, 0.4406)  
contains.

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# **Color**

**Yxy(50.4420, 0.4750, 0.4406)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F8AE30
RGB	248, 174, 48
RGB Percent	97%, 68%, 19%
CMY	0.0275, 0.3176, 0.8119
CMYK	0.00, 0.30, 0.81, 0.03
HSL	38°, 93%, 58%
HSV	38°, 81%, 97%
XYZ	54.3803, 50.4420, 9.6625
YIQ	181.7620, 84.5500, -23.4980

# Conversions

## Conversions Part 2

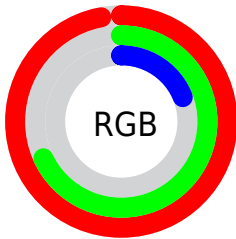
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	165, 248, 48
Decimal	16297520
CIE Lab	76.34, 17.07, 70.00
CIE LCh	76, 72.049, 76.296
Yxy	50.4420, 0.4750, 0.4406
Android (android.graphics.Color)	4294487600 (0xFFFF8AE30)
YUV	181.7620, -65.9447, 58.0907
Hunter-Lab	71.0225, 12.3838, 41.6495

# Details

The Yxy color **50.4420, 0.4750, 0.4406** is a light color, and the websafe version is hex **CC9900**. The color can be described as light washed orange. A complement of this color would be **21.3140, 0.1820, 0.1544**, and the grayscale version is **46.9738, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.3185, 0.4107, 0.4480**, and **24.3582, 0.4962, 0.4442** is the 20% darker color. If you saturate the color by 10%, you get **46.8694, 0.4921, 0.4410**, and if you desaturate by 10%, it is **54.3761, 0.4550, 0.4350**.

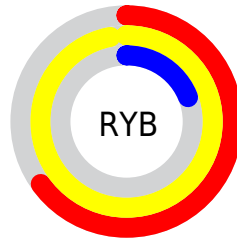
# Distribution



Red (97%)

Green (68%)

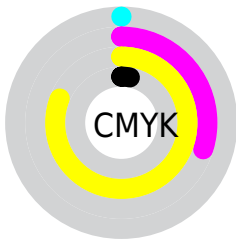
Blue (19%)



Red (65%)

Yellow (97%)

Blue (19%)

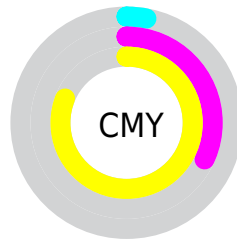


Cyan (0%)

Magenta (30%)

Yellow (81%)

Black (3%)



Cyan (3%)

Magenta (32%)


Yellow (81%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.4420, 0.4750, 0.4406 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 50.4420, 0.4750, 0.4406 by changing the saturation by 10% instead.





 50.4420, 0.4750,  
0.4406

 50.4420, 0.4750,  
0.4406


388.3919, 0.4015,  
0.3960

 35.7647, 0.4894,  
0.4472


 90.8294, 0.4510,  
0.4277


 24.2525, 0.5053,  
0.4531


 117.3084, 0.4412,  
0.4218


 15.5211, 0.5226,  
0.4571


 148.4900, 0.4325,  
0.4165

 9.1859, 0.5419,  
0.4581

 184.7586, 0.4248,  
0.4116

 4.8626, 0.5541,  
0.4459

 226.4988, 0.4179,  
0.4071

 2.1669, 0.5734,  
0.4266

 274.0948, 0.4118,

 0.7019, 0.6121,

0.4031

0.3879

327.9310, 0.4064,  
0.3994

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

50.4420, 0.4750,  
0.4406

50.4420, 0.4750,  
0.4406

46.8694, 0.4921,  
0.4410


54.3761, 0.4550,  
0.4350


43.8220, 0.5051,  
0.4371


58.6852, 0.4331,  
0.4249

63.3905, 0.4105,  
0.4114

68.5085, 0.3883,  
0.3958

 74.0544, 0.3672,  
0.3792

 80.0423, 0.3476,  
0.3623

 86.4854, 0.3298,  
0.3458

 93.3963, 0.3137,  
0.3300

 98.6962, 0.3084,  
0.3290

# Harmonies

## Analogous

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



50.4420, 0.5041, 0.3724



50.4420, 0.4750, 0.4406



50.4420, 0.4044, 0.4975

# Triad

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



50.4420, 0.4750, 0.4406



50.4420, 0.1732, 0.3231



50.4420, 0.2842, 0.2067

# Complementary

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



50.4420, 0.4750, 0.4406



21.3140, 0.1820, 0.1544

# 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.



50.4420, 0.2074, 0.1881



50.4420, 0.4750, 0.4406



50.4420, 0.1522, 0.2391

# Square

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



50.4420, 0.4750, 0.4406



50.4420, 0.2306, 0.4335



50.4420, 0.1640, 0.1968



50.4420, 0.3841, 0.2486



# Rectangle

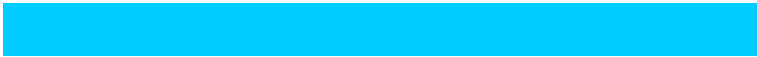
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



50.4420, 0.4750, 0.4406



50.4420, 0.3459, 0.5113



50.4420, 0.1640, 0.1968



50.4420, 0.2550, 0.1977

# Sweetspot

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



50.4445, 0.4750, 0.4406



83.0634, 0.3540, 0.3680



23.5392, 0.4908, 0.2659



17.2924, 0.3610, 0.3740



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.



50.4445, 0.4750, 0.4406



47.6511, 0.5012, 0.4385



83.3005, 0.3971, 0.5086



19.0482, 0.3278, 0.3439



23.9504, 0.5034, 0.4385



2.4209, 0.4907, 0.4486



# Inverse Universe

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



21.3140, 0.1820, 0.1544



16.2204, 0.1671, 0.1198



10.2397, 0.1710, 0.0849



17.6946, 0.2979, 0.3136



8.0164, 0.1660, 0.1174



0.9376, 0.1725, 0.1410



# Previews

## White Background



This preview shows how the Yxy color 50.4420, 0.4750, 0.4406 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 50.4420, 0.4750, 0.4406 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 50.4420, 0.4750, 0.4406**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.4420, 0.4750, 0.4406.



This preview shows how white text looks on a background with the Yxy color 50.4420, 0.4750, 0.4406.

# 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

50.4420, 0.4750, 0.4406

### Protanopia

50.6402, 0.4288, 0.4723

### Deuteranopia

50.4420, 0.4619, 0.4521



## Tritanopia

50.5495, 0.3888, 0.3166

# Trichromacy



## Original Color

50.4420, 0.4750, 0.4406

## Protanomaly

50.5275, 0.4450, 0.4609

## Deuteranomaly

50.3503, 0.4668, 0.4476

## Tritanomaly

49.9179, 0.4285, 0.3692

# Monochromacy



## Original Color

50.4420, 0.4750, 0.4406

## Achromatopsia

46.7784, 0.3127, 0.3290

## Achromatomaly

47.0555, 0.3763, 0.3866

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.4420, 0.4750, 0.4406 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(248, 174, 48)` looks like.

```
.text, #text, p{  
    color:rgb(248, 174, 48)  
}
```

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(248, 174, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(248, 174, 48) }
```

## Border

The CSS property to change the border of an element to Yxy 50.4420, 0.4750, 0.4406 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(248, 174, 48) }
```

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

```
.border{ border-color:rgb(248, 174, 48) }
```

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

Here you see how a box with a 4 pixel rgb(248, 174, 48) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(248, 174, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(248, 174, 48);  
box-shadow:4px 4px 4px 4px rgb(248, 174,  
48) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.4420, 0.4750, 0.4406 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(248, 174, 48) }
```

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

```
.background{ background-color: rgb(248,  
174, 48) }
```

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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