

# Converting Colors

$Y_{xy}(47.5290, 0.4775, 0.4890)$

Have a look what the booklet for  
Yxy(47.5290, 0.4775, 0.4890)  
contains.

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**Color**

**Yxy(48.0095, 0.4633, 0.4704)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E2B200
RGB	226, 178, 0
RGB Percent	89%, 70%, 0%
CMY	0.1137, 0.3019, 1.0000
CMYK	0.00, 0.21, 1.00, 0.11
HSL	47°, 100%, 44%
HSV	47°, 100%, 89%
XYZ	47.2849, 48.0095, 6.7666
YIQ	172.0600, 85.7460, -45.1820

# Conversions

## Conversions Part 2

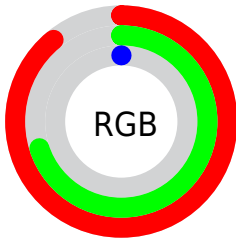
<b>Format</b>	<b>Color</b>
<b>RYB</b>	61, 226, 0
Decimal	14856704
CIELab	74.83, 4.67, 77.39
CIELCh	75, 77.526, 86.545
Yxy	48.0095, 0.4633, 0.4704
Android (android.graphics.Color)	4293046784 (0xFFE2B200)
YUV	172.0600, -84.8256, 47.3054
Hunter-Lab	69.2889, 0.5583, 42.7121

# Details

The Yxy color **48.0095, 0.4633, 0.4704** 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 **7.6054, 0.1556, 0.0800**, and the grayscale version is **41.6946, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.1319, 0.4191, 0.4674**, and **22.9210, 0.4679, 0.4667** is the 20% darker color. If you saturate the color by 10%, you get **48.0124, 0.4633, 0.4704**, and if you desaturate by 10%, it is **50.0166, 0.4553, 0.4704**.

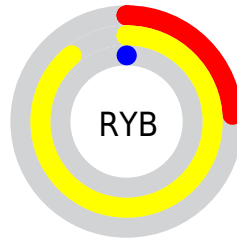
# Distribution



Red (89%)

Green (70%)

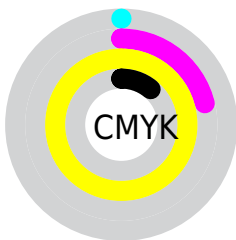
Blue (0%)



Red (24%)

Yellow (89%)

Blue (0%)

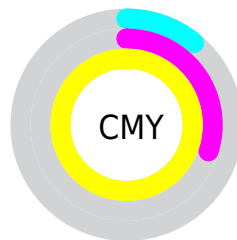


Cyan (0%)

Magenta (21%)

Yellow (100%)

Black (11%)



Cyan (11%)

Magenta (30%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.0095, 0.4633, 0.4704 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 48.0095, 0.4633, 0.4704 by changing the saturation by 10% instead.




 48.0095, 0.4633,  
0.4704


 48.0095, 0.4633,  
0.4704


378.8298, 0.3982,  
0.4115

 33.8344, 0.4744,  
0.4796


 87.2185, 0.4432,  
0.4529

 22.7664, 0.4857,  
0.4882


 113.0213, 0.4345,  
0.4451

 14.4211, 0.5005,  
0.4995


 143.4687, 0.4268,  
0.4380

 8.4141, 0.5031,  
0.4969

 178.9452, 0.4198,  
0.4316

 4.3611, 0.5070,  
0.4930

 219.8352, 0.4135,  
0.4258

 1.8775, 0.5132,  
0.4868

 266.5230, 0.4079,

 0.5348, 0.5378,

0.4206

0.4622

319.3931, 0.4028,  
0.4158

0.0000, 0.0000,  
0.0000

48.0095, 0.4633,  
0.4704

48.0095, 0.4633,  
0.4704

48.0124, 0.4633,  
0.4704

50.0166, 0.4553,  
0.4704

52.1587, 0.4447,  
0.4663

54.4622, 0.4313,  
0.4575

56.9407, 0.4155,  
0.4444

59.6058, 0.3983,  
0.4280

■ 62.4677, 0.3802,  
0.4092

■ 65.5356, 0.3622,  
0.3891

■ 68.8180, 0.3447,  
0.3687

■ 72.3228, 0.3281,  
0.3485

# Harmonies

## Analogous

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



48.0095, 0.5152, 0.3973



48.0095, 0.4633, 0.4704



48.0095, 0.3772, 0.5241

# Triad

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



48.0095, 0.4633, 0.4704



48.0095, 0.1508, 0.2847



48.0095, 0.3166, 0.2106

# Complementary

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



48.0095, 0.4633, 0.4704



7.6054, 0.1556, 0.0800

# 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.



48.0095, 0.2230, 0.1819



48.0095, 0.4633, 0.4704



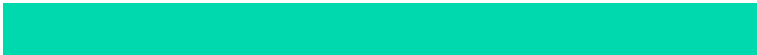
48.0095, 0.1416, 0.2108

# Square

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



48.0095, 0.4633, 0.4704



48.0095, 0.1975, 0.4024



48.0095, 0.1652, 0.1802



48.0095, 0.4272, 0.2616



# Rectangle

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



48.0095, 0.4633, 0.4704



48.0095, 0.3126, 0.5238



48.0095, 0.1652, 0.1802



48.0095, 0.2819, 0.1982

# Sweetspot

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



48.0124, 0.4633, 0.4704



86.0824, 0.3626, 0.3896



16.3913, 0.6057, 0.3111



18.0520, 0.3702, 0.3982



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.



48.0124, 0.4633, 0.4704



62.9589, 0.4636, 0.4701



62.0745, 0.3695, 0.5448



15.5095, 0.3272, 0.3473



27.5681, 0.4624, 0.4710



2.0358, 0.4545, 0.4773



# Inverse Universe

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



7.6054, 0.1556, 0.0800



9.8732, 0.1553, 0.0791



6.5825, 0.1671, 0.0694



13.7127, 0.2981, 0.3100



4.4789, 0.1562, 0.0823



0.4405, 0.1640, 0.1104



# Previews

## White Background



This preview shows how the Yxy color 48.0095, 0.4633, 0.4704 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 48.0095, 0.4633, 0.4704 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 48.0095, 0.4633, 0.4704**

## Background



This preview shows how black text looks on a background with the Yxy color 48.0095, 0.4633, 0.4704.



This preview shows how white text looks on a background with the Yxy color 48.0095, 0.4633, 0.4704.

# 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

48.0095, 0.4633, 0.4704

### Protanopia

48.1320, 0.4392, 0.4868

### Deuteranopia

48.0126, 0.4708, 0.4613



## Tritanopia

47.7868, 0.3669, 0.3145

# Trichromacy



## Original Color

48.0095, 0.4633, 0.4704

## Protanomaly

47.9183, 0.4488, 0.4802

## Deuteranomaly

47.8912, 0.4679, 0.4648

## Tritanomaly

47.0975, 0.4227, 0.3932

# Monochromacy



## Original Color

48.0095, 0.4633, 0.4704

## Achromatopsia

41.2543, 0.3127, 0.3290

## Achromatomaly

42.5827, 0.3855, 0.4142

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.0095, 0.4633, 0.4704 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(226, 178, 0)` looks like.

```
.text, #text, p{  
    color:rgb(226, 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(226, 178, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 178, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 48.0095, 0.4633, 0.4704 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(226, 178, 0) }
```

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

```
.border{ border-color:rgb(226, 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(226, 178, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 178, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 178, 0);  
box-shadow:4px 4px 4px 4px rgb(226, 178,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.0095, 0.4633, 0.4704 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 178, 0) }
```

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

```
.background{ background-color: rgb(226,  
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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