

# Converting Colors

$Yxy(46.7119, 0.4729, 0.4566)$

Have a look what the booklet for  
Yxy(46.7119, 0.4729, 0.4566)  
contains.

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# Color

**Yxy(46.8866, 0.4725, 0.4568)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E9AC16
RGB	233, 172, 22
RGB Percent	91%, 67%, 9%
CMY	0.0863, 0.3254, 0.9134
CMYK	0.00, 0.26, 0.91, 0.09
HSL	43°, 83%, 50%
HSV	43°, 91%, 91%
XYZ	48.4981, 46.8866, 7.2567
YIQ	173.1390, 84.5060, -33.7180

# Conversions

## Conversions Part 2

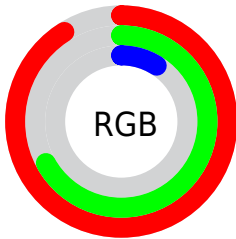
<b>Format</b>	<b>Color</b>
<b>RYB</b>	108, 233, 22
Decimal	15313942
CIELab	74.12, 11.11, 74.29
CIELCh	74, 75.112, 81.495
Yxy	46.8866, 0.4725, 0.4568
Android (android.graphics.Color)	4293504022 (0xFFE9AC16)
YUV	173.1390, -74.5115, 52.4981
Hunter-Lab	68.4738, 6.5974, 41.6482

# Details

The Yxy color **46.8866, 0.4725, 0.4568** is a dark color, and the websafe version is hex **CC9900**. The color can be described as middle washed orange. A complement of this color would be **12.2485, 0.1666, 0.1125**, and the grayscale version is **42.2251, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.8863, 0.4206, 0.4591**, and **22.2036, 0.4846, 0.4534** is the 20% darker color. If you saturate the color by 10%, you get **44.4582, 0.4827, 0.4550**, and if you desaturate by 10%, it is **49.6525, 0.4590, 0.4544**.

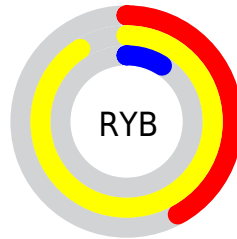
# Distribution



Red (91%)

Green (67%)

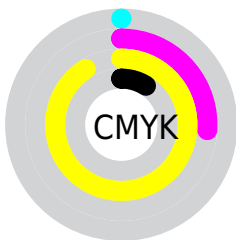
Blue (9%)



Red (42%)

Yellow (91%)

Blue (9%)

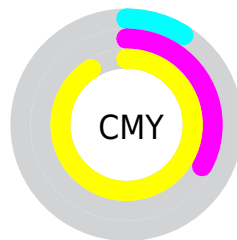


Cyan (0%)

Magenta (26%)

Yellow (91%)

Black (9%)



Cyan (9%)

Magenta (33%)


Yellow (91%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.8866, 0.4725, 0.4568 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 46.8866, 0.4725, 0.4568 by changing the saturation by 10% instead.




 46.8866, 0.4725,  
0.4568


 46.8866, 0.4725,  
0.4568


374.3617, 0.4013,  
0.4046


 32.9460, 0.4855,  
0.4645


 85.5443, 0.4499,  
0.4416

 22.0851, 0.4992,  
0.4714


 111.0303, 0.4404,  
0.4348

 13.9194, 0.5166,  
0.4792

 141.1334, 0.4319,  
0.4285

 8.0647, 0.5249,  
0.4751

 176.2382, 0.4244,  
0.4227

 4.1363, 0.5339,  
0.4661

 216.7291, 0.4177,  
0.4176

 1.7501, 0.5487,  
0.4513

 262.9903, 0.4116,

 0.4558, 0.6071,

0.4128

0.3929

315.4064, 0.4062,  
0.4085

■ 0.0000, 0.0000,  
0.0000

■ 46.8866, 0.4725,  
0.4568

■ 46.8866, 0.4725,  
0.4568

■ 44.4582, 0.4827,  
0.4550

■ 49.6525, 0.4590,  
0.4544

■ 52.6471, 0.4426,  
0.4471


■ 55.8886, 0.4240,  
0.4354


■ 59.3908, 0.4043,  
0.4204

■ 63.1658, 0.3844,  
0.4032

 67.2247, 0.3649,  
0.3848

 71.5776, 0.3464,  
0.3660

 76.2341, 0.3292,  
0.3476

 81.2030, 0.3135,  
0.3299

# Harmonies

## Analogous

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



46.8866, 0.5145, 0.3849



46.8866, 0.4725, 0.4568



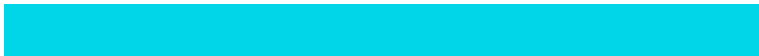
46.8866, 0.3922, 0.5145

# Triad

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



46.8866, 0.4725, 0.4568



46.8866, 0.1588, 0.3030



46.8866, 0.2992, 0.2063

# Complementary

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



46.8866, 0.4725, 0.4568



12.2485, 0.1666, 0.1125

# 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.



46.8866, 0.2128, 0.1823



46.8866, 0.4725, 0.4568



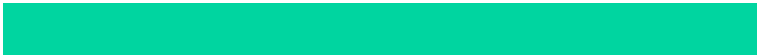
46.8866, 0.1438, 0.2223

# Square

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



46.8866, 0.4725, 0.4568



46.8866, 0.2118, 0.4212



46.8866, 0.1617, 0.1856



46.8866, 0.4072, 0.2534



# Rectangle

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



46.8866, 0.4725, 0.4568



46.8866, 0.3294, 0.5229



46.8866, 0.1617, 0.1856



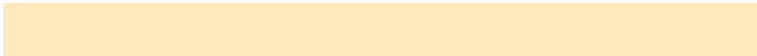
46.8866, 0.2667, 0.1955

# Sweetspot

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



46.8889, 0.4725, 0.4568



84.2832, 0.3585, 0.3784



18.5592, 0.5512, 0.2878



17.6566, 0.3650, 0.3848



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.



46.8889, 0.4725, 0.4568



54.4222, 0.4830, 0.4547



69.3768, 0.3855, 0.5273



16.8485, 0.3275, 0.3457



25.4539, 0.4815, 0.4559



2.1625, 0.4708, 0.4644



# Inverse Universe

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



12.2485, 0.1666, 0.1125



12.0801, 0.1595, 0.0941



7.5581, 0.1674, 0.0739



15.2583, 0.2980, 0.3118



5.8247, 0.1604, 0.0974



0.6175, 0.1679, 0.1245



# Previews

## White Background



This preview shows how the Yxy color 46.8866, 0.4725, 0.4568 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 46.8866, 0.4725, 0.4568 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 46.8866, 0.4725, 0.4568**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.8866, 0.4725, 0.4568.



This preview shows how white text looks on a background with the Yxy color 46.8866, 0.4725, 0.4568.

# 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

46.8866, 0.4725, 0.4568

### Protanopia

47.0634, 0.4369, 0.4829

### Deuteranopia

46.9302, 0.4700, 0.4592



## Tritanopia

46.8209, 0.3798, 0.3159

# Trichromacy



**Original Color**

46.8866, 0.4725, 0.4568

**Protanomaly**

46.9093, 0.4500, 0.4731

**Deuteranomaly**

47.0971, 0.4708, 0.4586

**Tritanomaly**

46.0124, 0.4286, 0.3811

# Monochromacy



**Original Color**

46.8866, 0.4725, 0.4568

**Achromatopsia**

41.7885, 0.3127, 0.3290

**Achromatomaly**

42.7972, 0.3814, 0.4008

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.8866, 0.4725, 0.4568 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(233, 172, 22)` looks like.

```
.text, #text, p{  
    color:rgb(233, 172, 22)  
}
```

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(233, 172, 22) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 172, 22) }
```

## Border

The CSS property to change the border of an element to Yxy 46.8866, 0.4725, 0.4568 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(233, 172, 22) }
```

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

```
.border{ border-color:rgb(233, 172, 22) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 172, 22)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 172, 22); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 172, 22);  
box-shadow:4px 4px 4px 4px rgb(233, 172,  
22) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.8866, 0.4725, 0.4568 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 172, 22) }
```

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

```
.background{ background-color: rgb(233,  
172, 22) }
```

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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