

# Converting Colors

$Y_{xy}(38.8850, 0.4665, 0.4207)$

Have a look what the booklet for  
Yxy(38.8850, 0.4665, 0.4207)  
contains.

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# Color

**Yxy(38.6971, 0.4668, 0.4206)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E09842
RGB	224, 152, 66
RGB Percent	88%, 60%, 26%
CMY	0.1216, 0.4039, 0.7412
CMYK	0.00, 0.32, 0.71, 0.12
HSL	33°, 72%, 57%
HSV	33°, 71%, 88%
XYZ	42.9477, 38.6971, 10.3597
YIQ	163.7240, 70.5180, -11.4820

# Conversions

## Conversions Part 2

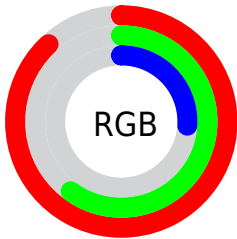
Format	Color
<a href="#">RYB</a>	<a href="#">198, 224, 66</a>
Decimal	<a href="#">14719042</a>
CIELab	<a href="#">68.53, 19.32, 54.44</a>
CIElCh	<a href="#">69, 57.766, 70.459</a>
Yxy	<a href="#">38.6971, 0.4668, 0.4206</a>
Android (android.graphics.Color)	<a href="#">4292909122</a> <a href="#">(0xFFE09842)</a>
YUV	<a href="#">163.7240, -48.1779, 52.8621</a>
Hunter-Lab	<a href="#">62.2070, 14.3742, 33.6710</a>

# Details

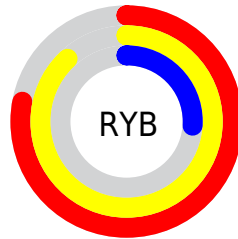
The Yxy color **38.6971, 0.4668, 0.4206** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **24.7063, 0.2007, 0.2001**, and the grayscale version is **37.1956, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.7106, 0.4167, 0.4175**, and **17.2174, 0.5037, 0.4334** is the 20% darker color. If you saturate the color by 10%, you get **35.3133, 0.4910, 0.4247**, and if you desaturate by 10%, it is **42.4731, 0.4412, 0.4121**.

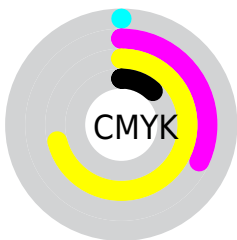
# Distribution



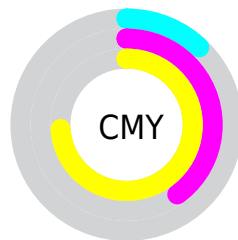
- Red (88%)
- Green (60%)
- Blue (26%)



- Red (78%)
- Yellow (88%)
- Blue (26%)



- Cyan (0%)
- Magenta (32%)
- Yellow (71%)
- Black (12%)



- Cyan (12%)
- Magenta (40%)
- Yellow (74%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.6971, 0.4668, 0.4206 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 38.6971, 0.4668, 0.4206 by changing the saturation by 10% instead.





 38.6971, 0.4668,  
0.4206


 38.6971, 0.4668,  
0.4206

340.6010, 0.3909,  
0.3811

 26.5242, 0.4838,  
0.4272


 73.1754, 0.4403,  
0.4085


 17.2162, 0.5038,  
0.4333


 96.2495, 0.4300,  
0.4032


 10.3887, 0.5271,  
0.4376


 123.7261, 0.4211,  
0.3985

 5.6575, 0.5590,  
0.4410

 155.9897, 0.4134,  
0.3942

 2.6379, 0.5782,  
0.4218

 193.4246, 0.4067,  
0.3904

 0.9458, 0.6113,  
0.3887

236.4151, 0.4008,

 0.0000, 1.0000,

0.3870

0.0000

285.3458, 0.3955,  
0.3839

0.0000, 0.0000,  
0.0000

38.6971, 0.4668,  
0.4206

38.6971, 0.4668,  
0.4206

35.3133, 0.4910,  
0.4247

42.4731, 0.4412,  
0.4121

32.2959, 0.5123,  
0.4235

46.6532, 0.4156,  
0.4004

29.7509, 0.5294,  
0.4179

51.2554, 0.3912,  
0.3868

56.2946, 0.3685,  
0.3722

61.7847, 0.3480,  
0.3576

■ 67.7388, 0.3297,  
0.3433

■ 74.1696, 0.3135,  
0.3297

■ 81.0890, 0.2993,  
0.3170

■ 87.6712, 0.2938,  
0.3176

# Harmonies

## Analogous

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



38.6971, 0.4805, 0.3592



38.6971, 0.4668, 0.4206



38.6971, 0.4111, 0.4721

# Triad

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



38.6971, 0.4668, 0.4206



38.6971, 0.1962, 0.3433



38.6971, 0.2727, 0.2139

# Complementary

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



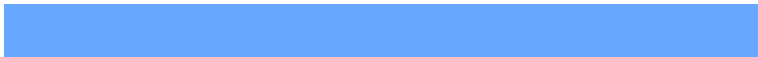
38.6971, 0.4668, 0.4206



24.7063, 0.2007, 0.2001

# 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.



38.6971, 0.2088, 0.2017



38.6971, 0.4668, 0.4206



38.6971, 0.1696, 0.2625

# Square

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



38.6971, 0.4668, 0.4206



38.6971, 0.2548, 0.4356



38.6971, 0.1744, 0.2160



38.6971, 0.3586, 0.2484



# Rectangle

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



38.6971, 0.4668, 0.4206



38.6971, 0.3606, 0.4878



38.6971, 0.1744, 0.2160



38.6971, 0.2482, 0.2071

# Sweetspot

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



38.6991, 0.4668, 0.4206



82.4299, 0.3492, 0.3585



21.6261, 0.4352, 0.2517



17.1939, 0.3547, 0.3625



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.



38.6991, 0.4668, 0.4206



45.2669, 0.5023, 0.4248



68.7101, 0.4029, 0.4877



14.9310, 0.3278, 0.3418



17.5534, 0.5272, 0.4196



1.3951, 0.5061, 0.4363



# Inverse Universe

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



24.7063, 0.2007, 0.2001



25.5245, 0.1836, 0.1686



10.6270, 0.1797, 0.1060



14.2667, 0.2981, 0.3159



8.8921, 0.1733, 0.1439



0.7937, 0.1815, 0.1733



# Previews

## White Background



This preview shows how the Yxy color 38.6971, 0.4668, 0.4206 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 38.6971, 0.4668, 0.4206 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 38.6971, 0.4668, 0.4206**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.6971, 0.4668, 0.4206.



This preview shows how white text looks on a background with the Yxy color 38.6971, 0.4668, 0.4206.

# 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

38.6971, 0.4668, 0.4206

### Protanopia

38.8993, 0.4120, 0.4529

### Deuteranopia

38.7217, 0.4473, 0.4372



## Tritanopia

38.7678, 0.3950, 0.3176

# Trichromacy



**Original Color**

38.6971, 0.4668, 0.4206

**Protanomaly**

38.5497, 0.4324, 0.4409

**Deuteranomaly**

38.4547, 0.4543, 0.4306

**Tritanomaly**

38.4322, 0.4263, 0.3583

# Monochromacy



**Original Color**

38.6971, 0.4668, 0.4206

**Achromatopsia**

37.1238, 0.3127, 0.3290

**Achromatomaly**

37.1392, 0.3690, 0.3732

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.6971, 0.4668, 0.4206 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(224, 152, 66)` looks like.

```
.text, #text, p{  
    color:rgb(224, 152, 66)  
}
```

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(224, 152, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 152, 66) }
```

## Border

The CSS property to change the border of an element to Yxy 38.6971, 0.4668, 0.4206 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(224, 152, 66) }
```

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

```
.border{ border-color:rgb(224, 152, 66) }
```

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

Here you see how a box with a 4 pixel rgb(224, 152, 66) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 152, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 152, 66);  
box-shadow:4px 4px 4px 4px rgb(224, 152,  
66) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.6971, 0.4668, 0.4206 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 152, 66) }
```

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

```
.background{ background-color: rgb(224,  
152, 66) }
```

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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