

# Converting Colors

$Y_{xy}(39.5203, 0.4768, 0.4169)$

Have a look what the booklet for  
Yxy(39.5203, 0.4768, 0.4169)  
contains.

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# Color

**Yxy(39.6592, 0.4763, 0.4172)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E89740
RGB	232, 151, 64
RGB Percent	91%, 59%, 25%
CMY	0.0901, 0.4079, 0.7489
CMYK	0.00, 0.35, 0.72, 0.09
HSL	31°, 79%, 58%
HSV	31°, 72%, 91%
XYZ	45.2773, 39.6592, 10.1239
YIQ	165.3010, 76.2030, -9.8850

# Conversions

## Conversions Part 2

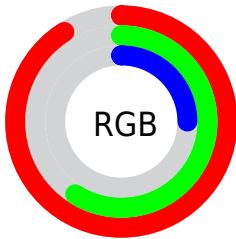
Format	Color
R <sub>Y</sub> B	220, 232, 64
Decimal	15243072
CIE Lab	69.23, 23.14, 56.33
CIE LCh	69, 60.903, 67.667
Yxy	39.6592, 0.4763, 0.4172
Android (android.graphics.Color)	4293433152 (0xFFE89740)
YUV	165.3010, -49.9414, 58.4950
Hunter-Lab	62.9756, 18.1282, 34.5514

# Details

The Yxy color **39.6592, 0.4763, 0.4172** is a light color, and the websafe version is hex **FF9933**. The color can be described as light muted orange. A complement of this color would be **27.1895, 0.1998, 0.2026**, and the grayscale version is **37.9989, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.1836, 0.4186, 0.4183**, and **17.7810, 0.5141, 0.4277** is the 20% darker color. If you saturate the color by 10%, you get **36.0167, 0.5015, 0.4197**, and if you desaturate by 10%, it is **43.7575, 0.4495, 0.4101**.

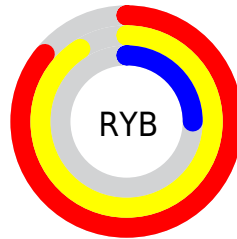
# Distribution



Red (91%)

Green (59%)

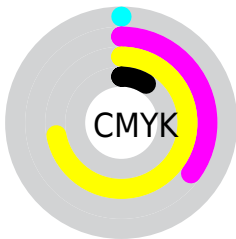
Blue (25%)



Red (86%)

Yellow (91%)

Blue (25%)

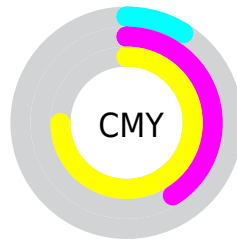


Cyan (0%)

Magenta (35%)

Yellow (72%)

Black (9%)



Cyan (9%)

Magenta (41%)


Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.6592, 0.4763, 0.4172 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 39.6592, 0.4763, 0.4172 by changing the saturation by 10% instead.





 39.6592, 0.4763,  
0.4172


 39.6592, 0.4763,  
0.4172


344.6851, 0.3961,  
0.3807

 27.2729, 0.4940,  
0.4227


 74.6443, 0.4485,  
0.4064


 17.7783, 0.5149,  
0.4273


 98.0119, 0.4376,  
0.4016


 10.7909, 0.5391,  
0.4294


 125.8087, 0.4282,  
0.3972

 5.9264, 0.5710,  
0.4290

 158.4191, 0.4200,  
0.3932

 2.8004, 0.5926,  
0.4074

 196.2276, 0.4129,  
0.3896

 1.0284, 0.6290,  
0.3710

239.6185, 0.4066,

 0.0000, 1.0000,

0.3863

0.0000

288.9762, 0.4011,  
0.3834

■ 0.0000, 0.0000,  
0.0000

■ 39.6592, 0.4763,  
0.4172

■ 39.6592, 0.4763,  
0.4172

■ 36.0167, 0.5015,  
0.4197

■ 43.7575, 0.4495,  
0.4101

■ 32.8000, 0.5233,  
0.4167


■ 48.3269, 0.4227,  
0.3995


■ 30.6180, 0.5376,  
0.4113


■ 53.3886, 0.3971,  
0.3867


■ 58.9605, 0.3735,  
0.3729

■ 65.0593, 0.3521,  
0.3589

 71.7008, 0.3331,  
0.3451

 78.9001, 0.3164,  
0.3320

 86.6713, 0.3018,  
0.3198

 93.8243, 0.2987,  
0.3257

# Harmonies

## Analogous

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



39.6592, 0.4863, 0.3534



39.6592, 0.4763, 0.4172



39.6592, 0.4209, 0.4736

# Triad

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



39.6592, 0.4763, 0.4172



39.6592, 0.1957, 0.3528



39.6592, 0.2634, 0.2075

# Complementary

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



39.6592, 0.4763, 0.4172



27.1895, 0.1998, 0.2026

# 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.



39.6592, 0.2001, 0.1972



39.6592, 0.4763, 0.4172



39.6592, 0.1655, 0.2655

# Square

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



39.6592, 0.4763, 0.4172



39.6592, 0.2589, 0.4488



39.6592, 0.1676, 0.2144



39.6592, 0.3517, 0.2411



# Rectangle

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



39.6592, 0.4763, 0.4172



39.6592, 0.3694, 0.4942



39.6592, 0.1676, 0.2144



39.6592, 0.2389, 0.2012

# Sweetspot

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



39.6612, 0.4763, 0.4172



80.8325, 0.3515, 0.3585



22.8819, 0.4360, 0.2479



16.8454, 0.3571, 0.3623



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.



39.6612, 0.4763, 0.4172



42.5470, 0.5130, 0.4189



74.7917, 0.4064, 0.4889



15.5959, 0.3279, 0.3412



17.2479, 0.5352, 0.4133



1.4604, 0.5137, 0.4303



# Inverse Universe

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



27.1895, 0.1998, 0.2026



26.3490, 0.1840, 0.1726



10.6857, 0.1751, 0.1000



15.0287, 0.2981, 0.3165



9.9062, 0.1757, 0.1524



0.9173, 0.1832, 0.1794



# Previews

## White Background



This preview shows how the Yxy color 39.6592, 0.4763, 0.4172 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 39.6592, 0.4763, 0.4172 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 39.6592, 0.4763, 0.4172**

## **Background**



This preview shows how black text looks on a background with the Yxy color 39.6592, 0.4763, 0.4172.



This preview shows how white text looks on a background with the Yxy color 39.6592, 0.4763, 0.4172.

# 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

39.6592, 0.4763, 0.4172

### Protanopia

39.9979, 0.4147, 0.4552

### Deuteranopia

39.6755, 0.4491, 0.4405



## Tritanopia

39.6175, 0.4035, 0.3180

# Trichromacy



**Original Color**

39.6592, 0.4763, 0.4172

**Protanomaly**

39.5788, 0.4378, 0.4410

**Deuteranomaly**

39.5218, 0.4599, 0.4313

**Tritanomaly**

39.2690, 0.4348, 0.3574

# Monochromacy



**Original Color**

39.6592, 0.4763, 0.4172

**Achromatopsia**

37.6262, 0.3127, 0.3290

**Achromatomaly**

37.5189, 0.3721, 0.3727

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.6592, 0.4763, 0.4172 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(232, 151, 64)` looks like.

```
.text, #text, p{  
    color:rgb(232, 151, 64)  
}
```

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(232, 151, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 151, 64) }
```

## Border

The CSS property to change the border of an element to Yxy 39.6592, 0.4763, 0.4172 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(232, 151, 64) }
```

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

```
.border{ border-color:rgb(232, 151, 64) }
```

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

Here you see how a box with a 4 pixel rgb(232, 151, 64) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 151, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 151, 64);  
box-shadow:4px 4px 4px 4px rgb(232, 151,  
64) }
```



# Background

The CSS property to change the background color of an element to Yxy 39.6592, 0.4763, 0.4172 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 151, 64) }
```

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

```
.background{ background-color: rgb(232,  
151, 64) }
```

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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