

# Converting Colors

$Y_{xy}(45.4597, 0.4756, 0.4205)$

Have a look what the booklet for  
Yxy(45.4597, 0.4756, 0.4205)  
contains.

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# Color

**Yxy(45.6465, 0.4754, 0.4209)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F5A242
RGB	245, 162, 66
RGB Percent	96%, 64%, 26%
CMY	0.0393, 0.3647, 0.7412
CMYK	0.00, 0.34, 0.73, 0.04
HSL	32°, 90%, 61%
HSV	32°, 73%, 96%
XYZ	51.5570, 45.6465, 11.2462
YIQ	175.8730, 80.2840, -12.2600

# Conversions

## Conversions Part 2

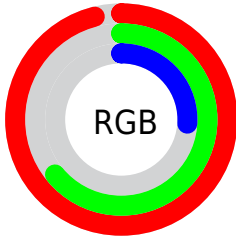
Format	Color
R <sub>Y</sub> B	221, 245, 66
Decimal	16097858
CIE Lab	73.32, 22.79, 60.15
CIE LCh	73, 64.328, 69.248
Yxy	45.6465, 0.4754, 0.4209
Android (android.graphics.Color)	4294287938 (0xFFF5A242)
YUV	175.8730, -54.1674, 60.6244
Hunter-Lab	67.5622, 17.9803, 37.4243

# Details

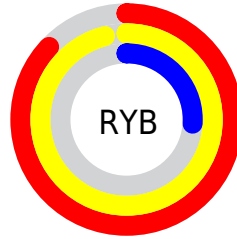
The Yxy color **45.6465, 0.4754, 0.4209** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **29.2356, 0.1976, 0.1960**, and the grayscale version is **43.6039, 0.3127, 0.3290**.

A 20% lighter version of the original color is **72.2176, 0.4097, 0.4265**, and **21.3466, 0.5118, 0.4309** is the 20% darker color. If you saturate the color by 10%, you get **41.5966, 0.4994, 0.4234**, and if you desaturate by 10%, it is **50.1861, 0.4495, 0.4137**.

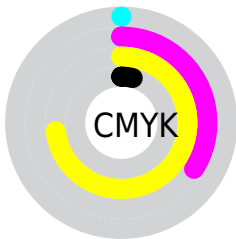
# Distribution



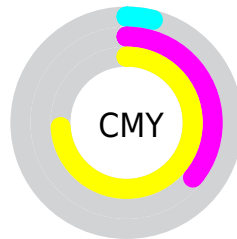
- Red (96%)
- Green (64%)
- Blue (26%)



- Red (87%)
- Yellow (96%)
- Blue (26%)



- Cyan (0%)
- Magenta (34%)
- Yellow (73%)
- Black (4%)




- Cyan (4%)
- Magenta (36%)
- Yellow (74%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.6465, 0.4754, 0.4209 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 45.6465, 0.4754, 0.4209 by changing the saturation by 10% instead.





 45.6465, 0.4754,  
0.4209

 45.6465, 0.4754,  
0.4209

369.3856, 0.3980,  
0.3837

 31.9670, 0.4919,  
0.4265


 83.6897, 0.4491,  
0.4100

 21.3363, 0.5111,  
0.4313


 108.8222, 0.4386,  
0.4051

 13.3700, 0.5330,  
0.4340


 138.5410, 0.4295,  
0.4007

 7.6838, 0.5634,  
0.4366

 173.2307, 0.4215,  
0.3966

 3.8933, 0.5812,  
0.4188

 213.2757, 0.4146,  
0.3929

 1.6141, 0.6099,  
0.3901

259.0602, 0.4084,

 0.3671, 0.7119,

0.3896

0.2881

310.9687, 0.4029,  
0.3865

■ 0.0000, 0.0000,  
0.0000

■ 45.6465, 0.4754,  
0.4209

■ 45.6465, 0.4754,  
0.4209

■ 41.5966, 0.4994,  
0.4234

■ 50.1861, 0.4495,  
0.4137

■ 38.0028, 0.5201,  
0.4203

■ 55.2317, 0.4234,  
0.4029


■ 35.7560, 0.5324,  
0.4154

■ 60.8064, 0.3981,  
0.3898


■ 66.9297, 0.3747,  
0.3755

■ 73.6197, 0.3533,  
0.3610

 80.8934, 0.3343,  
0.3467

 88.7670, 0.3174,  
0.3330

 96.7977, 0.3066,  
0.3269

 98.1505, 0.3066,  
0.3290

# Harmonies

## Analogous

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



45.6465, 0.4885, 0.3568



45.6465, 0.4754, 0.4209



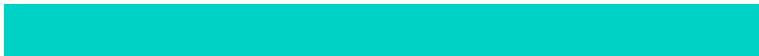
45.6465, 0.4177, 0.4769

# Triad

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



45.6465, 0.4754, 0.4209



45.6465, 0.1924, 0.3476



45.6465, 0.2672, 0.2079

# Complementary

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



45.6465, 0.4754, 0.4209



29.2356, 0.1976, 0.1960

# 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.



45.6465, 0.2019, 0.1962



45.6465, 0.4754, 0.4209



45.6465, 0.1639, 0.2613

# Square

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



45.6465, 0.4754, 0.4209



45.6465, 0.2544, 0.4456



45.6465, 0.1677, 0.2119



45.6465, 0.3569, 0.2429



# Rectangle

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



45.6465, 0.4754, 0.4209



45.6465, 0.3652, 0.4961



45.6465, 0.1677, 0.2119



45.6465, 0.2421, 0.2013

# Sweetspot

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



45.6488, 0.4754, 0.4209



81.4140, 0.3513, 0.3595



25.4930, 0.4429, 0.2505



16.9826, 0.3568, 0.3635



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.



45.6488, 0.4754, 0.4209



43.4820, 0.5105, 0.4225



84.0460, 0.4049, 0.4915



17.9549, 0.3280, 0.3417



19.5447, 0.5301, 0.4173



1.9234, 0.5124, 0.4313



# Inverse Universe

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



29.2356, 0.1976, 0.1960



24.7286, 0.1816, 0.1650



11.8639, 0.1751, 0.0984



17.1929, 0.2980, 0.3160



10.2541, 0.1738, 0.1457



1.1047, 0.1804, 0.1694



# Previews

## White Background



This preview shows how the Yxy color 45.6465, 0.4754, 0.4209 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 45.6465, 0.4754, 0.4209 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 45.6465, 0.4754, 0.4209**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.6465, 0.4754, 0.4209.



This preview shows how white text looks on a background with the Yxy color 45.6465, 0.4754, 0.4209.

# 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

45.6465, 0.4754, 0.4209

### Protanopia

45.9202, 0.4163, 0.4579

### Deuteranopia

45.4923, 0.4514, 0.4415



## Tritanopia

45.6100, 0.4011, 0.3175

# Trichromacy



## Original Color

45.6465, 0.4754, 0.4209

## Protanomaly

45.4535, 0.4381, 0.4442

## Deuteranomaly

45.5312, 0.4598, 0.4343

## Tritanomaly

45.4752, 0.4331, 0.3591

# Monochromacy



## Original Color

45.6465, 0.4754, 0.4209

## Achromatopsia

43.4154, 0.3127, 0.3290

## Achromatomaly

43.3209, 0.3721, 0.3741

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.6465, 0.4754, 0.4209 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(245, 162, 66)` looks like.

```
.text, #text, p{  
    color:rgb(245, 162, 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(245, 162, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 162, 66) }
```

## Border

The CSS property to change the border of an element to Yxy 45.6465, 0.4754, 0.4209 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(245, 162, 66) }
```

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

```
.border{ border-color:rgb(245, 162, 66) }
```

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

Here you see how a box with a 4 pixel rgb(245, 162, 66) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 162, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 162, 66);  
box-shadow:4px 4px 4px 4px rgb(245, 162,  
66) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.6465, 0.4754, 0.4209 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 162, 66) }
```

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

```
.background{ background-color: rgb(245,  
162, 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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