

# Converting Colors

$Y_{xy}(58.9343, 0.5336, 0.3806)$

Have a look what the booklet for  
Yxy(58.9343, 0.5336, 0.3806)  
contains.

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# Color

**Yxy(43.8743, 0.4894, 0.4013)**

# Conversions

Conversions Part 1	
Format	Color
Hex	FF9749
RGB	255, 151, 73
RGB Percent	100%, 59%, 29%
CMY	0.0000, 0.4078, 0.7138
CMYK	0.00, 0.41, 0.71, 0.00
HSL	26°, 100%, 64%
HSV	26°, 71%, 100%
XYZ	53.5063, 43.8743, 11.9498
YIQ	173.2040, 87.0220, -2.2100

# Conversions

## Conversions Part 2

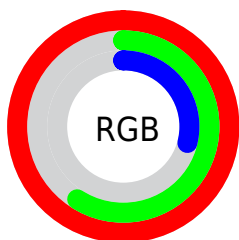
Format	Color
<a href="#">RYB</a>	<a href="#">255, 210, 73</a>
Decimal	<a href="#">16750409</a>
CIELab	<a href="#">72.14, 32.92, 56.22</a>
CIELCh	<a href="#">72, 65.146, 59.650</a>
Yxy	<a href="#">43.8743, 0.4894, 0.4013</a>
Android (android.graphics.Color)	<a href="#">4294940489</a> (0xFFFF9749)
YUV	<a href="#">173.2040, -49.4006, 71.7351</a>
Hunter-Lab	<a href="#">66.2377, 28.2751, 35.6700</a>

# Details

The Yxy color **43.8743, 0.4894, 0.4013** 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 **40.0666, 0.2063, 0.2264**, and the grayscale version is **42.1239, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.8833, 0.4119, 0.4111**, and **20.3082, 0.5313, 0.4060** is the 20% darker color. If you saturate the color by 10%, you get **39.2015, 0.5194, 0.4022**, and if you desaturate by 10%, it is **49.2696, 0.4581, 0.3958**.

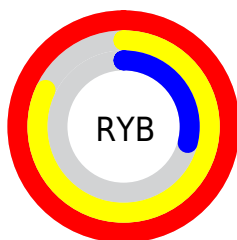
# Distribution



Red (100%)

Green (59%)

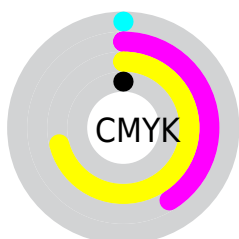
Blue (29%)



Red (100%)

Yellow (82%)

Blue (29%)

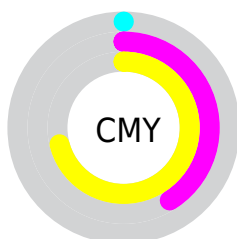


Cyan (0%)

Magenta (41%)

Yellow (71%)

Black (0%)



Cyan (0%)

Magenta (41%)


Yellow (71%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 43.8743, 0.4894, 0.4013 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 43.8743, 0.4894, 0.4013 by changing the saturation by 10% instead.





 43.8743, 0.4894,  
0.4013

 43.8743, 0.4894,  
0.4013


362.1951, 0.4035,  
0.3743


 30.5717, 0.5084,  
0.4044

 81.0286, 0.4597,  
0.3941


 20.2729, 0.5310,  
0.4062


 105.6490, 0.4480,  
0.3906


 12.5936, 0.5575,  
0.4051


 134.8109, 0.4379,  
0.3873

 7.1493, 0.5965,  
0.4035

 168.8985, 0.4292,  
0.3842

 3.5556, 0.6217,  
0.3783

 208.2964, 0.4215,  
0.3814

 1.4282, 0.6614,  
0.3386


253.3888, 0.4148,


 0.2374, 0.8147,

0.3788


0.1853


304.5603, 0.4088,  
0.3765


 0.0000, 0.0000,  
0.0000


 43.8743, 0.4894,  
0.4013


 43.8743, 0.4894,  
0.4013


 39.2015, 0.5194,  
0.4022


 49.2696, 0.4581,  
0.3958


 35.2052, 0.5458,  
0.3976


 55.4156, 0.4276,  
0.3870

 32.2625, 0.5647,  
0.3898

 62.3468, 0.3993,  
0.3763

 70.0931, 0.3737,  
0.3646

 78.6824, 0.3512,  
0.3528

 88.1416, 0.3317,  
0.3413

 98.4957, 0.3148,  
0.3304

99.9980, 0.3127,  
0.3290

# Harmonies

## Analogous

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



43.8743, 0.4847, 0.3362



43.8743, 0.4894, 0.4013



43.8743, 0.4421, 0.4637

# Triad

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



43.8743, 0.4894, 0.4013



43.8743, 0.2063, 0.3815



43.8743, 0.2413, 0.1989

# Complementary

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



43.8743, 0.4894, 0.4013



40.0666, 0.2063, 0.2264

# 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.



43.8743, 0.1850, 0.1952



43.8743, 0.4894, 0.4013



43.8743, 0.1662, 0.2837

# Square

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



43.8743, 0.4894, 0.4013



43.8743, 0.2784, 0.4736



43.8743, 0.1601, 0.2211



43.8743, 0.3269, 0.2273



# Rectangle

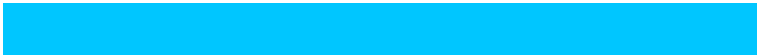
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



43.8743, 0.4894, 0.4013



43.8743, 0.3925, 0.4935



43.8743, 0.1601, 0.2211



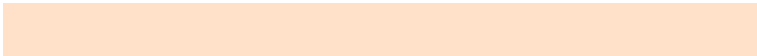
43.8743, 0.2190, 0.1947

# Sweetspot

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



43.8766, 0.4894, 0.4013



79.0285, 0.3505, 0.3524



29.2829, 0.4086, 0.2311



16.3874, 0.3563, 0.3556



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.



43.8766, 0.4894, 0.4013



37.2748, 0.5322, 0.4008



83.9550, 0.4176, 0.4767



19.2675, 0.3284, 0.3392



17.1417, 0.5619, 0.3921



1.8807, 0.5418, 0.4080

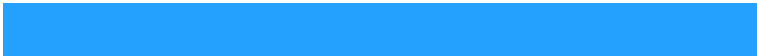


# Inverse Universe

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



40.0666, 0.2063, 0.2264



33.0746, 0.1922, 0.2018



15.6408, 0.1783, 0.1148



19.1007, 0.2979, 0.3186



14.7657, 0.1839, 0.1819



1.6547, 0.1889, 0.2002



# Previews

## White Background



This preview shows how the Yxy color 43.8743, 0.4894, 0.4013 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 43.8743, 0.4894, 0.4013 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 43.8743, 0.4894, 0.4013**

## Background



This preview shows how black text looks on a background with the Yxy color 43.8743, 0.4894, 0.4013.



This preview shows how white text looks on a background with the Yxy color 43.8743, 0.4894, 0.4013.

# 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

43.8743, 0.4894, 0.4013

### Protanopia

44.3052, 0.4086, 0.4478

### Deuteranopia

44.1654, 0.4468, 0.4380



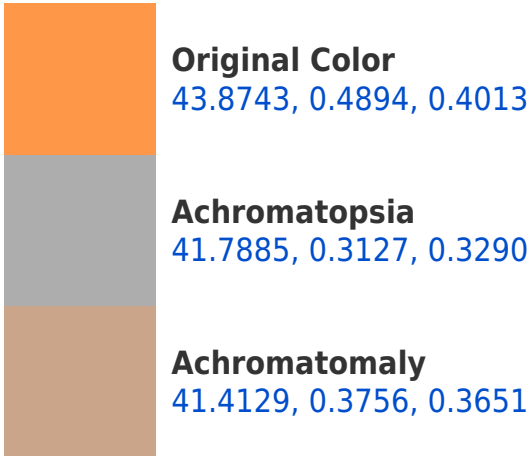
## Tritanopia

43.8439, 0.4173, 0.3199

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 43.8743, 0.4894, 0.4013 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(255, 151, 73)` looks like.

```
.text, #text, p{  
    color:rgb(255, 151, 73)  
}
```

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(255, 151, 73) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 151, 73) }
```

## Border

The CSS property to change the border of an element to Yxy 43.8743, 0.4894, 0.4013 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(255, 151, 73) }
```

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

```
.border{ border-color:rgb(255, 151, 73) }
```

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

Here you see how a box with a 4 pixel rgb(255, 151, 73) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 151, 73); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 151, 73);  
box-shadow:4px 4px 4px 4px rgb(255, 151,  
73) }
```



# Background

The CSS property to change the background color of an element to Yxy 43.8743, 0.4894, 0.4013 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 151, 73) }
```

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

```
.background{ background-color: rgb(255,  
151, 73) }
```

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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