

# Converting Colors

$Y_{xy}(49.4293, 0.5125, 0.3906)$

Have a look what the booklet for  
Yxy(49.4293, 0.5125, 0.3906)  
contains.

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# Color

**Yxy(43.5406, 0.4910, 0.4010)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9648
RGB	255, 150, 72
RGB Percent	100%, 59%, 28%
CMY	0.0001, 0.4117, 0.7176
CMYK	0.00, 0.41, 0.72, 0.00
HSL	26°, 100%, 64%
HSV	26°, 72%, 100%
XYZ	53.3128, 43.5406, 11.7266
YIQ	172.5030, 87.6180, -1.9980

# Conversions

## Conversions Part 2

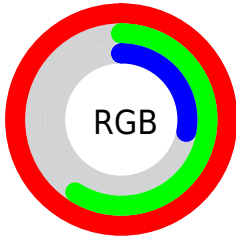
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 208, 72
Decimal	16750152
CIE <sub>Lab</sub>	71.92, 33.38, 56.43
CIE <sub>LCh</sub>	72, 65.567, 59.392
Yxy	43.5406, 0.4910, 0.4010
Android (android.graphics.Color)	4294940232 (0xFFFF9648)
YUV	172.5030, -49.5480, 72.3499
Hunter-Lab	65.9853, 28.7447, 35.6529

# Details

The Yxy color **43.5406, 0.4910, 0.4010** 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 **40.0347, 0.2060, 0.2263**, and the grayscale version is **41.7488, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.3779, 0.4132, 0.4111**, and **20.1165, 0.5332, 0.4052** is the 20% darker color. If you saturate the color by 10%, you get **38.8947, 0.5210, 0.4017**, and if you desaturate by 10%, it is **48.9118, 0.4596, 0.3957**.

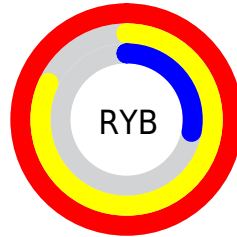
# Distribution



Red (100%)

Green (59%)

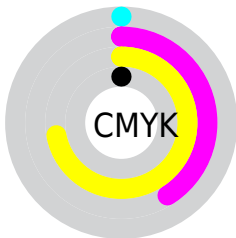
Blue (28%)



Red (100%)

Yellow (82%)

Blue (28%)

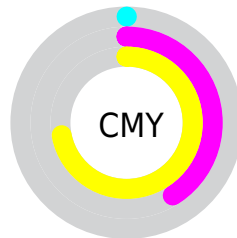


Cyan (0%)

Magenta (41%)

Yellow (72%)

Black (0%)



Cyan (0%)

Magenta (41%)


Yellow (72%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 43.5406, 0.4910, 0.4010 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 43.5406, 0.4910, 0.4010 by changing the saturation by 10% instead.





 43.5406, 0.4910,  
0.4010

 43.5406, 0.4910,  
0.4010


360.8303, 0.4043,  
0.3743


 30.3095, 0.5102,  
0.4040


 80.5260, 0.4610,  
0.3940

 20.0736, 0.5330,  
0.4056


 105.0491, 0.4492,  
0.3905

 12.4486, 0.5597,  
0.4041


 134.1050, 0.4390,  
0.3872

 7.0500, 0.5984,  
0.4016

 168.0781, 0.4302,  
0.3842

 3.4934, 0.6240,  
0.3760

 207.3528, 0.4225,  
0.3814

 1.3944, 0.6646,  
0.3354

252.3135, 0.4157,

 0.2126, 0.8288,

0.3788

0.1712

303.3445, 0.4096,  
0.3765

0.0000, 0.0000,  
0.0000

43.5406, 0.4910,  
0.4010

43.5406, 0.4910,  
0.4010

38.8947, 0.5210,  
0.4017

48.9118, 0.4596,  
0.3957

34.9276, 0.5474,  
0.3968


55.0369, 0.4290,  
0.3871


32.1314, 0.5654,  
0.3893

61.9507, 0.4004,  
0.3765

69.6835, 0.3747,  
0.3649

78.2636, 0.3521,  
0.3531

 87.7178, 0.3324,  
0.3417

 98.0719, 0.3154,  
0.3308

99.9974, 0.3127,  
0.3290

# Harmonies

## Analogous

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



43.5406, 0.4859, 0.3355



43.5406, 0.4910, 0.4010



43.5406, 0.4435, 0.4641

# Triad

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



43.5406, 0.4910, 0.4010



43.5406, 0.2059, 0.3829



43.5406, 0.2401, 0.1978

# Complementary

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



43.5406, 0.4910, 0.4010



40.0347, 0.2060, 0.2263

# 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.



43.5406, 0.1837, 0.1943



43.5406, 0.4910, 0.4010



43.5406, 0.1653, 0.2839

# Square

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



43.5406, 0.4910, 0.4010



43.5406, 0.2787, 0.4757



43.5406, 0.1590, 0.2205



43.5406, 0.3261, 0.2263



# Rectangle

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



43.5406, 0.4910, 0.4010



43.5406, 0.3937, 0.4946



43.5406, 0.1590, 0.2205



43.5406, 0.2177, 0.1937

# Sweetspot

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



43.5429, 0.4910, 0.4010



78.0559, 0.3526, 0.3534



29.1380, 0.4093, 0.2309



16.1921, 0.3585, 0.3566



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.



43.5429, 0.4910, 0.4010



37.1360, 0.5328, 0.4003



83.8918, 0.4179, 0.4771



19.2602, 0.3284, 0.3392



17.0729, 0.5626, 0.3915



1.8736, 0.5424, 0.4075

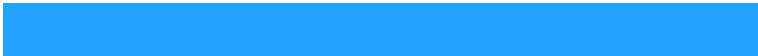


# Inverse Universe

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



40.0347, 0.2060, 0.2263



33.2583, 0.1924, 0.2025



15.4557, 0.1777, 0.1137



19.1082, 0.2979, 0.3186



14.8639, 0.1841, 0.1827



1.6640, 0.1892, 0.2009



# Previews

## White Background



This preview shows how the Yxy color 43.5406, 0.4910, 0.4010 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 43.5406, 0.4910, 0.4010 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 43.5406, 0.4910, 0.4010**

## Background



This preview shows how black text looks on a background with the Yxy color 43.5406, 0.4910, 0.4010.



This preview shows how white text looks on a background with the Yxy color 43.5406, 0.4910, 0.4010.

# 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

43.5406, 0.4910, 0.4010

### Protanopia

43.7592, 0.4091, 0.4482

### Deuteranopia

43.6262, 0.4474, 0.4383



## Tritanopia

43.5064, 0.4188, 0.3199

# Trichromacy



**Original Color**

43.5406, 0.4910, 0.4010

**Protanomaly**

42.9250, 0.4391, 0.4306

**Deuteranomaly**

43.2430, 0.4643, 0.4234

**Tritanomaly**

43.2730, 0.4486, 0.3520

# Monochromacy



**Original Color**

43.5406, 0.4910, 0.4010

**Achromatopsia**

41.7885, 0.3127, 0.3290

**Achromatomaly**

41.3844, 0.3765, 0.3664

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 43.5406, 0.4910, 0.4010 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, 150, 72)` looks like.

```
.text, #text, p{  
    color:rgb(255, 150, 72)  
}
```

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, 150, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 150, 72) }
```

## Border

The CSS property to change the border of an element to Yxy 43.5406, 0.4910, 0.4010 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, 150, 72) }
```

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

```
.border{ border-color:rgb(255, 150, 72) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 150, 72)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 150, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 150, 72);  
box-shadow:4px 4px 4px 4px rgb(255, 150,  
72) }
```



# Background

The CSS property to change the background color of an element to Yxy 43.5406, 0.4910, 0.4010 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 150, 72) }
```

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

```
.background{ background-color: rgb(255,  
150, 72) }
```

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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