

# Converting Colors

$Y_{xy}(44.9799, 0.4772, 0.3942)$

Have a look what the booklet for  
Yxy(44.9799, 0.4772, 0.3942)  
contains.

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# Color

**Yxy(45.0431, 0.4772, 0.3946)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9A56
RGB	255, 154, 86
RGB Percent	100%, 60%, 34%
CMY	0.0001, 0.3960, 0.6626
CMYK	0.00, 0.40, 0.66, 0.00
HSL	24°, 100%, 67%
HSV	24°, 66%, 100%
XYZ	54.4718, 45.0431, 14.6339
YIQ	176.4470, 82.0240, 0.2640

# Conversions

## Conversions Part 2

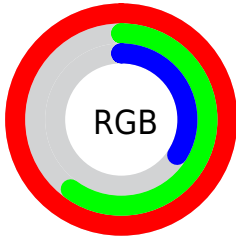
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 200, 86
Decimal	16751190
CIE Lab	72.92, 32.04, 50.86
CIE LCh	73, 60.115, 57.792
Yxy	45.0431, 0.4772, 0.3946
Android (android.graphics.Color)	4294941270 (0xFFFF9A56)
YUV	176.4470, -44.5904, 68.8910
Hunter-Lab	67.1142, 27.4260, 34.0521

# Details

The Yxy color **45.0431, 0.4772, 0.3946** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **44.7397, 0.2137, 0.2411**, and the grayscale version is **43.8705, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.6959, 0.4013, 0.4017**, and **20.9676, 0.5172, 0.4008** is the 20% darker color. If you saturate the color by 10%, you get **39.9894, 0.5095, 0.3974**, and if you desaturate by 10%, it is **50.8866, 0.4449, 0.3879**.

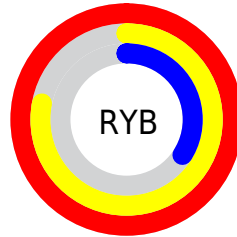
# Distribution



Red (100%)

Green (60%)

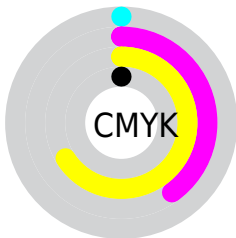
Blue (34%)



Red (100%)

Yellow (78%)

Blue (34%)

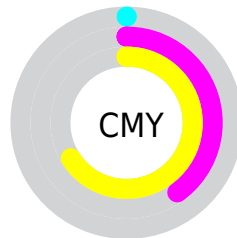


Cyan (0%)

Magenta (40%)

Yellow (66%)

Black (0%)



Cyan (0%)

Magenta (40%)


Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.0431, 0.4772, 0.3946 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 45.0431, 0.4772, 0.3946 by changing the saturation by 10% instead.





 45.0431, 0.4772,  
0.3946

 45.0431, 0.4772,  
0.3946


366.9481, 0.3966,  
0.3693

 31.4914, 0.4956,  
0.3980


 82.7851, 0.4490,  
0.3875


 20.9733, 0.5178,  
0.4006

 107.7441, 0.4380,  
0.3842

 13.1045, 0.5445,  
0.4011

 137.2744, 0.4286,  
0.3811

 7.5005, 0.5793,  
0.3987

 171.7603, 0.4204,  
0.3783

 3.7771, 0.6162,  
0.3838

 211.5862, 0.4133,  
0.3757

 1.5496, 0.6537,  
0.3463

257.1366, 0.4071,

 0.3233, 0.7752,

0.3734

0.2248

308.7957, 0.4015,  
0.3712

■ 0.0000, 1.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 45.0431, 0.4772,  
0.3946

■ 45.0431, 0.4772,  
0.3946

■ 39.9894, 0.5095,  
0.3974

■ 50.8866, 0.4449,  
0.3879

■ 35.6783, 0.5393,  
0.3952

■ 57.5494, 0.4144,  
0.3786

■ 32.0663, 0.5641,  
0.3875

■ 65.0678, 0.3867,  
0.3679

■ 30.8779, 0.5723,  
0.3838

■ 73.4734, 0.3623,  
0.3568

82.7961, 0.3411,  
0.3458

93.0643, 0.3228,  
0.3353

99.9967, 0.3127,  
0.3290

# Harmonies

## Analogous

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



45.0431, 0.4682, 0.3336



45.0431, 0.4772, 0.3946



45.0431, 0.4374, 0.4519

# Triad

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



45.0431, 0.4772, 0.3946



45.0431, 0.2184, 0.3831



45.0431, 0.2429, 0.2068

# Complementary

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



45.0431, 0.4772, 0.3946



44.7397, 0.2137, 0.2411

# 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.



45.0431, 0.1917, 0.2054



45.0431, 0.4772, 0.3946



45.0431, 0.1781, 0.2933

# Square

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



45.0431, 0.4772, 0.3946



45.0431, 0.2872, 0.4632



45.0431, 0.1700, 0.2324



45.0431, 0.3208, 0.2323



# Rectangle

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



45.0431, 0.4772, 0.3946



45.0431, 0.3928, 0.4789



45.0431, 0.1700, 0.2324



45.0431, 0.2226, 0.2035

# Sweetspot

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



45.0454, 0.4772, 0.3946



79.2117, 0.3486, 0.3499



31.5227, 0.3951, 0.2325



16.3945, 0.3546, 0.3530



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.



45.0454, 0.4772, 0.3946



38.2976, 0.5211, 0.3972



83.1293, 0.4139, 0.4680



19.1868, 0.3284, 0.3386



16.4104, 0.5694, 0.3861



1.8051, 0.5486, 0.4026



# Inverse Universe

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



44.7397, 0.2137, 0.2411



37.7780, 0.1994, 0.2194



18.8851, 0.1877, 0.1326



19.1833, 0.2979, 0.3192



15.8738, 0.1864, 0.1912



1.7598, 0.1912, 0.2085



# Previews

## White Background



This preview shows how the Yxy color 45.0431, 0.4772, 0.3946 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 45.0431, 0.4772, 0.3946 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

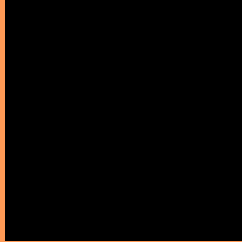
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.0431, 0.4772, 0.3946**

## Background



This preview shows how black text looks on a background with the Yxy color 45.0431, 0.4772, 0.3946.



This preview shows how white text looks on a background with the Yxy color 45.0431, 0.4772, 0.3946.

# 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

45.0431, 0.4772, 0.3946

### Protanopia

45.4564, 0.3993, 0.4360

### Deuteranopia

45.2646, 0.4369, 0.4280



## Tritanopia

44.9084, 0.4117, 0.3188

# Trichromacy



## Original Color

45.0431, 0.4772, 0.3946

## Protanomaly

44.9412, 0.4277, 0.4209

## Deuteranomaly

45.0272, 0.4521, 0.4159

## Tritanomaly

44.7386, 0.4381, 0.3480

# Monochromacy



## Original Color

45.0431, 0.4772, 0.3946

## Achromatopsia

43.4154, 0.3127, 0.3290

## Achromatomaly

42.9676, 0.3707, 0.3609

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.0431, 0.4772, 0.3946 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, 154, 86)` looks like.

```
.text, #text, p{  
    color:rgb(255, 154, 86)  
}
```

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, 154, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 154, 86) }
```

## Border

The CSS property to change the border of an element to Yxy 45.0431, 0.4772, 0.3946 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, 154, 86) }
```

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

```
.border{ border-color:rgb(255, 154, 86) }
```

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

Here you see how a box with a 4 pixel rgb(255, 154, 86) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 154, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 154, 86);  
box-shadow:4px 4px 4px 4px rgb(255, 154,  
86) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.0431, 0.4772, 0.3946 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 154, 86) }
```

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

```
.background{ background-color: rgb(255,  
154, 86) }
```

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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