

# Converting Colors

Yxy(45.6286, 0.4823, 0.4039)

Have a look what the booklet for  
Yxy(45.6286, 0.4823, 0.4039)  
contains.

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# Color

**Yxy(45.5587, 0.4828, 0.4041)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9C4C
RGB	255, 156, 76
RGB Percent	100%, 61%, 30%
CMY	0.0000, 0.3882, 0.7022
CMYK	0.00, 0.39, 0.70, 0.00
HSL	27°, 100%, 65%
HSV	27°, 70%, 100%
XYZ	54.4314, 45.5587, 12.7510
YIQ	176.4810, 84.6840, -3.8920

# Conversions

## Conversions Part 2

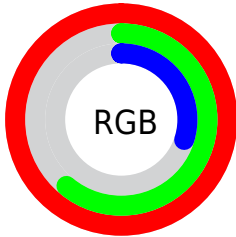
Format	Color
<a href="#">RYB</a>	<a href="#">255, 221, 76</a>
Decimal	<a href="#">16751692</a>
CIELab	<a href="#">73.26, 30.48, 56.04</a>
CIELCh	<a href="#">73, 63.797, 61.459</a>
Yxy	<a href="#">45.5587, 0.4828, 0.4041</a>
Android (android.graphics.Color)	<a href="#">4294941772</a> ( <a href="#">0xFFFF9C4C</a> )
YUV	<a href="#">176.4810, -49.5371, 68.8612</a>
Hunter-Lab	<a href="#">67.4972, 25.8268, 36.0474</a>

# Details

The Yxy color **45.5587, 0.4828, 0.4041** 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 **39.3871, 0.2065, 0.2238**, and the grayscale version is **43.9099, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.4070, 0.4072, 0.4130**, and **21.2999, 0.5222, 0.4105** is the 20% darker color. If you saturate the color by 10%, you get **40.8140, 0.5121, 0.4060**, and if you desaturate by 10%, it is **50.9977, 0.4524, 0.3978**.

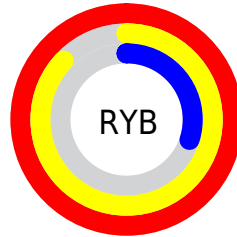
# Distribution



Red (100%)

Green (61%)

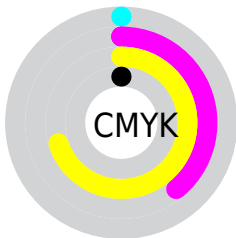
Blue (30%)



Red (100%)

Yellow (87%)

Blue (30%)

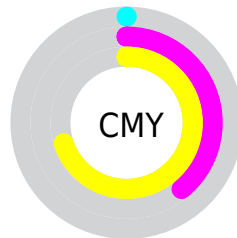


Cyan (0%)

Magenta (39%)

Yellow (70%)

Black (0%)



Cyan (0%)

Magenta (39%)


Yellow (70%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.5587, 0.4828, 0.4041 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 45.5587, 0.4828, 0.4041 by changing the saturation by 10% instead.





 45.5587, 0.4828,  
0.4041


 45.5587, 0.4828,  
0.4041


369.0316, 0.4006,  
0.3753

 31.8977, 0.5010,  
0.4079


 83.5582, 0.4544,  
0.3961

 21.2834, 0.5225,  
0.4107


 108.6654, 0.4432,  
0.3923

 13.3313, 0.5478,  
0.4110


 138.3569, 0.4336,  
0.3888

 7.6571, 0.5842,  
0.4110

 173.0171, 0.4252,  
0.3856

 3.8763, 0.6097,  
0.3903

 213.0302, 0.4179,  
0.3827

 1.6046, 0.6453,  
0.3547

258.7807, 0.4114,

 0.3607, 0.7550,

0.3800

0.2450

310.6531, 0.4057,  
0.3775

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

45.5587, 0.4828,  
0.4041

45.5587, 0.4828,  
0.4041

40.8140, 0.5121,  
0.4060

50.9977, 0.4524,  
0.3978

36.7200, 0.5382,  
0.4024

57.1566, 0.4228,  
0.3882

33.3007, 0.5593,  
0.3941

64.0675, 0.3953,  
0.3769

71.7585, 0.3706,  
0.3647

80.2557, 0.3487,  
0.3524

89.5839, 0.3296,  
0.3405

99.7667, 0.3131,  
0.3292

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



45.5587, 0.4812, 0.3404



45.5587, 0.4828, 0.4041



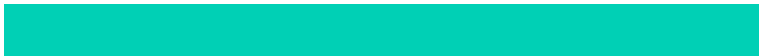
45.5587, 0.4351, 0.4636

# Triad

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



45.5587, 0.4828, 0.4041



45.5587, 0.2063, 0.3738



45.5587, 0.2478, 0.2033

# Complementary

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



45.5587, 0.4828, 0.4041



39.3871, 0.2065, 0.2238

# 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.



45.5587, 0.1908, 0.1983



45.5587, 0.4828, 0.4041



45.5587, 0.1689, 0.2808

# Square

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



45.5587, 0.4828, 0.4041



45.5587, 0.2751, 0.4642



45.5587, 0.1647, 0.2219



45.5587, 0.3323, 0.2325



# Rectangle

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



45.5587, 0.4828, 0.4041



45.5587, 0.3862, 0.4902



45.5587, 0.1647, 0.2219



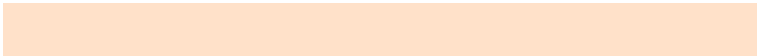
45.5587, 0.2254, 0.1987

# Sweetspot

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



45.5611, 0.4828, 0.4041



79.5629, 0.3503, 0.3533



29.6113, 0.4104, 0.2346



16.5138, 0.3561, 0.3567



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.



45.5611, 0.4828, 0.4041



39.1916, 0.5225, 0.4053



85.9197, 0.4145, 0.4773



19.3243, 0.3283, 0.3397



17.6880, 0.5565, 0.3963



1.9364, 0.5371, 0.4118



# Inverse Universe

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



39.3871, 0.2065, 0.2238



32.5584, 0.1924, 0.1995



15.7134, 0.1794, 0.1151



19.0430, 0.2979, 0.3181



14.0251, 0.1821, 0.1754



1.5838, 0.1873, 0.1944



# Previews

## White Background



This preview shows how the Yxy color 45.5587, 0.4828, 0.4041 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 45.5587, 0.4828, 0.4041 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 45.5587, 0.4828, 0.4041**

## Background



This preview shows how black text looks on a background with the Yxy color 45.5587, 0.4828, 0.4041.



This preview shows how white text looks on a background with the Yxy color 45.5587, 0.4828, 0.4041.

# 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

45.5587, 0.4828, 0.4041

### Protanopia

45.9516, 0.4080, 0.4474

### Deuteranopia

45.4410, 0.4453, 0.4354



## Tritanopia

45.6108, 0.4088, 0.3188

# Trichromacy



**Original Color**

45.5587, 0.4828, 0.4041

**Protanomaly**

45.2999, 0.4356, 0.4317

**Deuteranomaly**

45.4156, 0.4589, 0.4245

**Tritanomaly**

45.3015, 0.4399, 0.3532

# Monochromacy



**Original Color**

45.5587, 0.4828, 0.4041

**Achromatopsia**

43.4154, 0.3127, 0.3290

**Achromatomaly**

43.2485, 0.3731, 0.3660

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.5587, 0.4828, 0.4041 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, 156, 76)` looks like.

```
.text, #text, p{  
    color:rgb(255, 156, 76)  
}
```

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, 156, 76) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 156, 76) }
```

## Border

The CSS property to change the border of an element to Yxy 45.5587, 0.4828, 0.4041 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, 156, 76) }
```

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

```
.border{ border-color:rgb(255, 156, 76) }
```

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

Here you see how a box with a 4 pixel rgb(255, 156, 76) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 156, 76); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 156, 76);  
box-shadow:4px 4px 4px 4px rgb(255, 156,  
76) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.5587, 0.4828, 0.4041 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 156, 76) }
```

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

```
.background{ background-color: rgb(255,  
156, 76) }
```

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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