

# Converting Colors

$Y_{xy}(58.7875, 0.5253, 0.3896)$

Have a look what the booklet for  
Yxy(58.7875, 0.5253, 0.3896)  
contains.

<b>Yxy(46.1434, 0.4855, 0.4107)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(46.1434, 0.4855, 0.4107)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9E45
RGB	255, 158, 69
RGB Percent	100%, 62%, 27%
CMY	0.0000, 0.3804, 0.7294
CMYK	0.00, 0.38, 0.73, 0.00
HSL	29°, 100%, 64%
HSV	29°, 73%, 100%
XYZ	54.5474, 46.1434, 11.6622
YIQ	176.8570, 86.3810, -7.1150

# Conversions

## Conversions Part 2

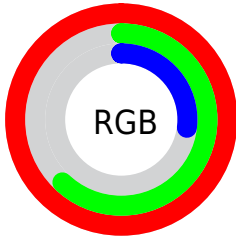
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 240, 69
Decimal	16752197
CIE Lab	73.64, 29.14, 59.57
CIE LCh	74, 66.312, 63.934
Yxy	46.1434, 0.4855, 0.4107
Android (android.graphics.Color)	4294942277 (0xFFFF9E45)
YUV	176.8570, -53.1735, 68.5314
Hunter-Lab	67.9289, 24.4611, 37.3712

# Details

The Yxy color **46.1434, 0.4855, 0.4107** 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 **35.7618, 0.2013, 0.2108**, and the grayscale version is **44.1357, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.2536, 0.4101, 0.4203**, and **21.6652, 0.5243, 0.4177** is the 20% darker color. If you saturate the color by 10%, you get **41.5958, 0.5125, 0.4119**, and if you desaturate by 10%, it is **51.3143, 0.4567, 0.4048**.

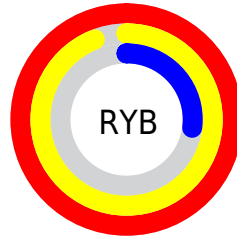
# Distribution



Red (100%)

Green (62%)

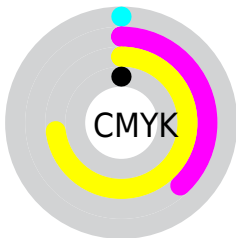
Blue (27%)



Red (100%)

Yellow (94%)

Blue (27%)

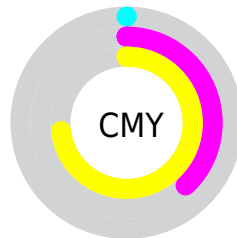


Cyan (0%)

Magenta (38%)

Yellow (73%)

Black (0%)



Cyan (0%)

Magenta (38%)


Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.1434, 0.4855, 0.4107 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 46.1434, 0.4855, 0.4107 by changing the saturation by 10% instead.





 46.1434, 0.4855,  
0.4107


 46.1434, 0.4855,  
0.4107


371.3849, 0.4029,  
0.3794


 32.3590, 0.5033,  
0.4147


 84.4336, 0.4573,  
0.4021


 21.6359, 0.5242,  
0.4177


 109.7081, 0.4461,  
0.3980

 13.5896, 0.5482,  
0.4179


 139.5815, 0.4364,  
0.3942

 7.8358, 0.5823,  
0.4177

 174.4381, 0.4280,  
0.3907

 3.9900, 0.6039,  
0.3961

 214.6624, 0.4205,  
0.3875

 1.6680, 0.6377,  
0.3623

260.6387, 0.4140,

 0.4028, 0.7355,

0.3846

0.2645

312.7514, 0.4081,  
0.3819

■ 0.0000, 1.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 46.1434, 0.4855,  
0.4107

■ 46.1434, 0.4855,  
0.4107

■ 41.5958, 0.5125,  
0.4119

■ 51.3143, 0.4567,  
0.4048

■ 37.6427, 0.5360,  
0.4074

■ 57.1443, 0.4281,  
0.3953

■ 35.1802, 0.5500,  
0.4015

■ 63.6592, 0.4010,  
0.3835

■ 70.8847, 0.3761,  
0.3707

78.8448, 0.3539,  
0.3575

87.5620, 0.3344,  
0.3447

97.0580, 0.3173,  
0.3325

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.



46.1434, 0.4893, 0.3453



46.1434, 0.4855, 0.4107



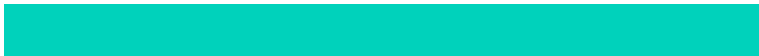
46.1434, 0.4325, 0.4715

# Triad

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



46.1434, 0.4855, 0.4107



46.1434, 0.1983, 0.3664



46.1434, 0.2519, 0.2014

# Complementary

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



46.1434, 0.4855, 0.4107



35.7618, 0.2013, 0.2108

# 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.



46.1434, 0.1910, 0.1940



46.1434, 0.4855, 0.4107



46.1434, 0.1632, 0.2722

# Square

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



46.1434, 0.4855, 0.4107



46.1434, 0.2667, 0.4636



46.1434, 0.1617, 0.2152



46.1434, 0.3407, 0.2331



# Rectangle

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



46.1434, 0.4855, 0.4107



46.1434, 0.3808, 0.4975



46.1434, 0.1617, 0.2152



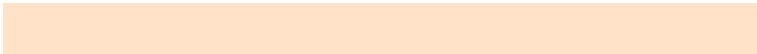
46.1434, 0.2280, 0.1960

# Sweetspot

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



46.1416, 0.4855, 0.4107



79.6309, 0.3520, 0.3563



28.3516, 0.4248, 0.2387



16.5623, 0.3577, 0.3599



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.



46.1416, 0.4855, 0.4107



39.5235, 0.5250, 0.4103



89.3176, 0.4131, 0.4846



19.4209, 0.3282, 0.3404



18.6774, 0.5474, 0.4036



2.0357, 0.5290, 0.4182



# Inverse Universe

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



35.7618, 0.2013, 0.2108



28.5709, 0.1864, 0.1828



13.5454, 0.1737, 0.1022



18.9454, 0.2979, 0.3173



12.8384, 0.1791, 0.1646



1.4689, 0.1846, 0.1846



# Previews

## White Background



This preview shows how the Yxy color 46.1434, 0.4855, 0.4107 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 46.1434, 0.4855, 0.4107 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 46.1434, 0.4855, 0.4107**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.1434, 0.4855, 0.4107.



This preview shows how white text looks on a background with the Yxy color 46.1434, 0.4855, 0.4107.

# 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

46.1434, 0.4855, 0.4107

### Protanopia

46.5343, 0.4135, 0.4540

### Deuteranopia

46.0555, 0.4503, 0.4406



## Tritanopia

45.9664, 0.4073, 0.3188

# Trichromacy



**Original Color**

46.1434, 0.4855, 0.4107

**Protanomaly**

45.7403, 0.4402, 0.4381

**Deuteranomaly**

46.0353, 0.4640, 0.4295

**Tritanomaly**

45.9297, 0.4397, 0.3563

# Monochromacy



**Original Color**

46.1434, 0.4855, 0.4107

**Achromatopsia**

43.9657, 0.3127, 0.3290

**Achromatomaly**

43.5636, 0.3746, 0.3697

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.1434, 0.4855, 0.4107 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, 158, 69)` looks like.

```
.text, #text, p{  
    color:rgb(255, 158, 69)  
}
```

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, 158, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 158, 69) }
```

## Border

The CSS property to change the border of an element to Yxy 46.1434, 0.4855, 0.4107 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, 158, 69) }
```

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

```
.border{ border-color:rgb(255, 158, 69) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 158, 69)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 158, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 158, 69);  
box-shadow:4px 4px 4px 4px rgb(255, 158,  
69) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.1434, 0.4855, 0.4107 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 158, 69) }
```

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

```
.background{ background-color: rgb(255,  
158, 69) }
```

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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