

# Converting Colors

$Y_{xy}(50.3795, 0.4640, 0.4089)$

Have a look what the booklet for  
Yxy(50.3795, 0.4640, 0.4089)  
contains.

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# Color

**Yxy(50.3241, 0.4639, 0.4085)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA957
RGB	255, 169, 87
RGB Percent	100%, 66%, 34%
CMY	0.0000, 0.3372, 0.6588
CMYK	0.00, 0.34, 0.66, 0.00
HSL	29°, 100%, 67%
HSV	29°, 66%, 100%
XYZ	57.1490, 50.3241, 15.7194
YIQ	185.3660, 77.5780, -7.2700

# Conversions

## Conversions Part 2

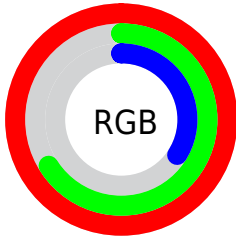
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 247, 87
Decimal	16755031
CIE Lab	76.27, 24.31, 54.16
CIE LCh	76, 59.368, 65.830
Yxy	50.3241, 0.4639, 0.4085
Android (android.graphics.Color)	4294945111 (0xFFFFA957)
YUV	185.3660, -48.4944, 61.0690
Hunter-Lab	70.9395, 19.6558, 36.5197

# Details

The Yxy color **50.3241, 0.4639, 0.4085** is a light color, and the websafe version is hex **FF9933**. The color can be described as light muted orange. A complement of this color would be **39.1343, 0.2095, 0.2220**, and the grayscale version is **48.9752, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.4648, 0.3929, 0.4137**, and **24.3133, 0.4986, 0.4193** is the 20% darker color. If you saturate the color by 10%, you get **45.3635, 0.4919, 0.4134**, and if you desaturate by 10%, it is **55.9214, 0.4355, 0.3997**.

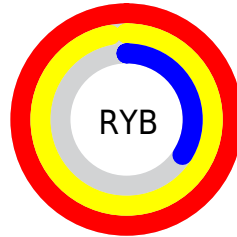
# Distribution



Red (100%)

Green (66%)

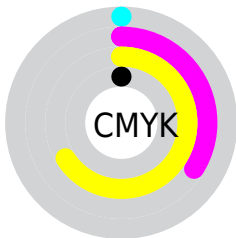
Blue (34%)



Red (100%)

Yellow (97%)

Blue (34%)

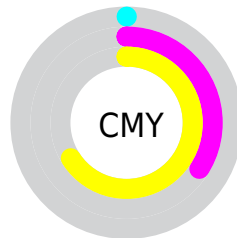


Cyan (0%)

Magenta (34%)

Yellow (66%)

Black (0%)



Cyan (0%)

Magenta (34%)


Yellow (66%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.3241, 0.4639, 0.4085 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 50.3241, 0.4639, 0.4085 by changing the saturation by 10% instead.





 50.3241, 0.4639,  
0.4085


 50.3241, 0.4639,  
0.4085


387.9320, 0.3917,  
0.3761

 35.6710, 0.4798,  
0.4138


 90.6549, 0.4390,  
0.3988


 24.1802, 0.4988,  
0.4188


 117.1014, 0.4293,  
0.3945

 15.4673, 0.5212,  
0.4228


 148.2477, 0.4208,  
0.3906

 9.1480, 0.5485,  
0.4244

 184.4784, 0.4135,  
0.3871

 4.8379, 0.5805,  
0.4195

226.1778, 0.4070,  
0.3840

 2.1524, 0.6065,  
0.3935

273.7302, 0.4013,

 0.6939, 0.6560,

0.3811

0.3440

327.5202, 0.3962,  
0.3785

■ 0.0000, 1.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 50.3241, 0.4639,  
0.4085

■ 50.3241, 0.4639,  
0.4085

■ 45.3635, 0.4919,  
0.4134

■ 55.9214, 0.4355,  
0.3997

■ 41.0022, 0.5176,  
0.4131

■ 62.1759, 0.4082,  
0.3882

■ 37.2075, 0.5392,  
0.4073

■ 69.1152, 0.3829,  
0.3754

■ 35.7928, 0.5472,  
0.4037

■ 76.7631, 0.3600,  
0.3620

85.1418, 0.3398,  
0.3488

94.2725, 0.3221,  
0.3361

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.



50.3241, 0.4684, 0.3498



50.3241, 0.4639, 0.4085



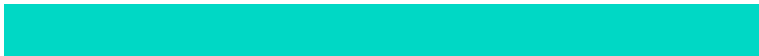
50.3241, 0.4167, 0.4590

# Triad

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



50.3241, 0.4639, 0.4085



50.3241, 0.2093, 0.3566



50.3241, 0.2640, 0.2161

# Complementary

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



50.3241, 0.4639, 0.4085



39.1343, 0.2095, 0.2220

# 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.



50.3241, 0.2071, 0.2083



50.3241, 0.4639, 0.4085



50.3241, 0.1785, 0.2766

# Square

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



50.3241, 0.4639, 0.4085



50.3241, 0.2693, 0.4396



50.3241, 0.1784, 0.2268



50.3241, 0.3432, 0.2462



# Rectangle

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



50.3241, 0.4639, 0.4085



50.3241, 0.3707, 0.4772



50.3241, 0.1784, 0.2268



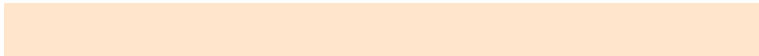
50.3241, 0.2420, 0.2108

# Sweetspot

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



50.3264, 0.4639, 0.4085



81.5994, 0.3478, 0.3542



31.1259, 0.4129, 0.2459



16.9639, 0.3535, 0.3579



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.



50.3264, 0.4639, 0.4085



43.9395, 0.5002, 0.4139



91.6948, 0.4051, 0.4772



19.4508, 0.3282, 0.3406



18.9992, 0.5445, 0.4058



2.0677, 0.5265, 0.4201



# Inverse Universe

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



39.1343, 0.2095, 0.2220



31.9945, 0.1939, 0.1967



16.5265, 0.1849, 0.1192



18.9154, 0.2979, 0.3171



12.4891, 0.1782, 0.1614



1.4348, 0.1838, 0.1816



# Previews

## White Background



This preview shows how the Yxy color 50.3241, 0.4639, 0.4085 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

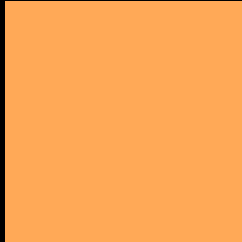
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.3241, 0.4639, 0.4085 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 50.3241, 0.4639, 0.4085**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.3241, 0.4639, 0.4085.



This preview shows how white text looks on a background with the Yxy color 50.3241, 0.4639, 0.4085.

# 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

50.3241, 0.4639, 0.4085

### Protanopia

50.5954, 0.4035, 0.4420

### Deuteranopia

50.2039, 0.4390, 0.4295



## Tritanopia

50.1178, 0.3911, 0.3176

# Trichromacy



**Original Color**

50.3241, 0.4639, 0.4085

**Protanomaly**

50.2188, 0.4250, 0.4297

**Deuteranomaly**

50.0166, 0.4486, 0.4214

**Tritanomaly**

50.1233, 0.4201, 0.3534

# Monochromacy



**Original Color**

50.3241, 0.4639, 0.4085

**Achromatopsia**

48.5150, 0.3127, 0.3290

**Achromatomaly**

48.1118, 0.3662, 0.3661

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.3241, 0.4639, 0.4085 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, 169, 87)` looks like.

```
.text, #text, p{  
    color:rgb(255, 169, 87)  
}
```

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, 169, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 169, 87) }
```

## Border

The CSS property to change the border of an element to Yxy 50.3241, 0.4639, 0.4085 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, 169, 87) }
```

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

```
.border{ border-color:rgb(255, 169, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 169, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 169, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 169, 87);  
box-shadow:4px 4px 4px 4px rgb(255, 169,  
87) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.3241, 0.4639, 0.4085 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 169, 87) }
```

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

```
.background{ background-color: rgb(255,  
169, 87) }
```

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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