

# Converting Colors

$Y_{xy}(48.4051, 0.4842, 0.4226)$

Have a look what the booklet for  
Yxy(48.4051, 0.4842, 0.4226)  
contains.

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# Color

**Yxy(48.4965, 0.4839, 0.4227)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA53C
RGB	255, 165, 60
RGB Percent	100%, 65%, 24%
CMY	0.0000, 0.3530, 0.7645
CMYK	0.00, 0.35, 0.76, 0.00
HSL	32°, 100%, 62%
HSV	32°, 76%, 100%
XYZ	55.5180, 48.4965, 10.7158
YIQ	179.9400, 87.3450, -13.5750

# Conversions

## Conversions Part 2

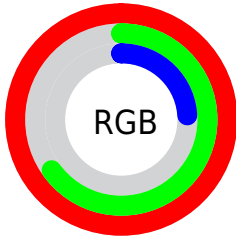
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	227, 255, 60
Decimal	16753980
CIE Lab	75.14, 25.13, 64.79
CIE LCh	75, 69.496, 68.803
Yxy	48.4965, 0.4839, 0.4227
Android (android.graphics.Color)	4294944060 (0xFFFFA53C)
YUV	179.9400, -59.1304, 65.8276
Hunter-Lab	69.6394, 20.4349, 39.6243

# Details

The Yxy color **48.4965, 0.4839, 0.4227** 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 **30.0122, 0.1932, 0.1880**, and the grayscale version is **45.8965, 0.3127, 0.3290**.

A 20% lighter version of the original color is **73.6613, 0.4110, 0.4333**, and **23.1477, 0.5162, 0.4283** is the 20% darker color. If you saturate the color by 10%, you get **44.2335, 0.5068, 0.4233**, and if you desaturate by 10%, it is **53.2768, 0.4585, 0.4170**.

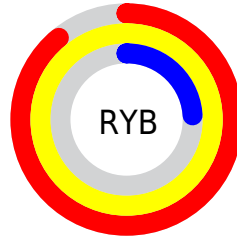
# Distribution



Red (100%)

Green (65%)

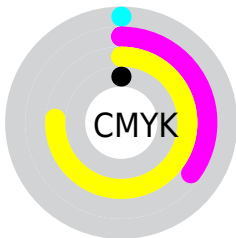
Blue (24%)



Red (89%)

Yellow (100%)

Blue (24%)

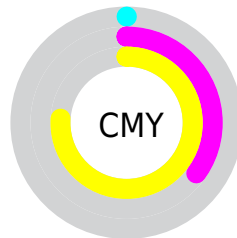


Cyan (0%)

Magenta (35%)

Yellow (76%)

Black (0%)



Cyan (0%)

Magenta (35%)


Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.4965, 0.4839, 0.4227 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 48.4965, 0.4839, 0.4227 by changing the saturation by 10% instead.





 48.4965, 0.4839,  
0.4227


 48.4965, 0.4839,  
0.4227


380.7568, 0.4040,  
0.3865


 34.2202, 0.5004,  
0.4276


 87.9432, 0.4572,  
0.4126


 23.0628, 0.5193,  
0.4314


 113.8824, 0.4464,  
0.4079


 14.6399, 0.5404,  
0.4326


 144.4781, 0.4370,  
0.4035

 8.5671, 0.5678,  
0.4322

 180.1145, 0.4287,  
0.3995

 4.4599, 0.5858,  
0.4142

 221.1763, 0.4214,  
0.3958

 1.9340, 0.6140,  
0.3860

268.0476, 0.4149,

 0.5687, 0.6774,

0.3924

0.3226

321.1130, 0.4092,  
0.3893

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

48.4965, 0.4839,  
0.4227

48.4965, 0.4839,  
0.4227

44.2335, 0.5068,  
0.4233

53.2768, 0.4585,  
0.4170


40.4619, 0.5260,  
0.4183

58.6062, 0.4323,  
0.4073

39.2283, 0.5322,  
0.4157

64.5067, 0.4067,  
0.3948

71.0001, 0.3825,  
0.3807

 78.1067, 0.3604,  
0.3661

 85.8455, 0.3405,  
0.3516

 94.2345, 0.3229,  
0.3376

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.



48.4965, 0.4980, 0.3557



48.4965, 0.4839, 0.4227



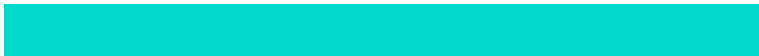
48.4965, 0.4230, 0.4832

# Triad

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



48.4965, 0.4839, 0.4227



48.4965, 0.1868, 0.3497



48.4965, 0.2632, 0.2020

# Complementary

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



48.4965, 0.4839, 0.4227



30.0122, 0.1932, 0.1880

# 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.



48.4965, 0.1957, 0.1901



48.4965, 0.4839, 0.4227



48.4965, 0.1571, 0.2579

# Square

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



48.4965, 0.4839, 0.4227



48.4965, 0.2517, 0.4548



48.4965, 0.1608, 0.2063



48.4965, 0.3576, 0.2380



# Rectangle

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



48.4965, 0.4839, 0.4227



48.4965, 0.3679, 0.5056



48.4965, 0.1608, 0.2063



48.4965, 0.2371, 0.1952

# Sweetspot

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



48.4948, 0.4839, 0.4227



80.7055, 0.3533, 0.3611



26.7320, 0.4525, 0.2497



16.6925, 0.3607, 0.3664



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.



48.4948, 0.4839, 0.4227



42.0827, 0.5180, 0.4212



91.8950, 0.4070, 0.4956



19.6069, 0.3281, 0.3418



20.7999, 0.5298, 0.4175



2.2439, 0.5138, 0.4303



# Inverse Universe

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



30.0122, 0.1932, 0.1880



22.9975, 0.1782, 0.1566



11.6341, 0.1698, 0.0900



18.7598, 0.2979, 0.3159



10.8009, 0.1736, 0.1448



1.2674, 0.1795, 0.1663



# Previews

## White Background



This preview shows how the Yxy color 48.4965, 0.4839, 0.4227 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 48.4965, 0.4839, 0.4227 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 48.4965, 0.4839, 0.4227**

## Background



This preview shows how black text looks on a background with the Yxy color 48.4965, 0.4839, 0.4227.



This preview shows how white text looks on a background with the Yxy color 48.4965, 0.4839, 0.4227.

# 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

48.4965, 0.4839, 0.4227

### Protanopia

48.7766, 0.4205, 0.4633

### Deuteranopia

48.4920, 0.4564, 0.4469



## Tritanopia

48.5409, 0.3975, 0.3187

# Trichromacy



## Original Color

48.4965, 0.4839, 0.4227

## Protanomaly

48.0582, 0.4436, 0.4480

## Deuteranomaly

48.3257, 0.4665, 0.4384

## Tritanomaly

48.3347, 0.4346, 0.3625

# Monochromacy



## Original Color

48.4965, 0.4839, 0.4227

## Achromatopsia

45.6411, 0.3127, 0.3290

## Achromatomaly

45.7029, 0.3763, 0.3779

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.4965, 0.4839, 0.4227 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, 165, 60)` looks like.

```
.text, #text, p{  
    color:rgb(255, 165, 60)  
}
```

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, 165, 60) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 165, 60) }
```

## Border

The CSS property to change the border of an element to Yxy 48.4965, 0.4839, 0.4227 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, 165, 60) }
```

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

```
.border{ border-color:rgb(255, 165, 60) }
```

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

Here you see how a box with a 4 pixel rgb(255, 165, 60) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 165, 60); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 165, 60);  
box-shadow:4px 4px 4px 4px rgb(255, 165,  
60) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.4965, 0.4839, 0.4227 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 165, 60) }
```

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

```
.background{ background-color: rgb(255,  
165, 60) }
```

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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