

# Converting Colors

$Y_{xy}(49.1630, 0.4882, 0.4318)$

Have a look what the booklet for  
Yxy(49.1630, 0.4882, 0.4318)  
contains.

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# Color

**Yxy(49.0947, 0.4882, 0.4315)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA72E
RGB	255, 167, 46
RGB Percent	100%, 65%, 18%
CMY	0.0001, 0.3450, 0.8195
CMYK	0.00, 0.34, 0.82, 0.00
HSL	35°, 100%, 59%
HSV	35°, 82%, 100%
XYZ	55.5458, 49.0947, 9.1363
YIQ	179.5180, 91.2890, -18.9750

# Conversions

## Conversions Part 2

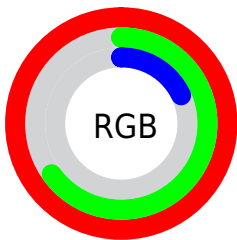
Format	Color
R <sub>Y</sub> B	198, 255, 46
Decimal	16754478
CIE Lab	75.51, 23.59, 70.22
CIE LCh	76, 74.074, 71.430
Yxy	49.0947, 0.4882, 0.4315
Android (android.graphics.Color)	4294944558 (0xFFFFA72E)
YUV	179.5180, -65.8244, 66.1977
Hunter-Lab	70.0676, 18.8869, 41.3164

# Details

The Yxy color **49.0947, 0.4882, 0.4315** 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 **24.8472, 0.1841, 0.1651**, and the grayscale version is **45.6961, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.4818, 0.4160, 0.4438**, and **23.4679, 0.5123, 0.4314** is the 20% darker color. If you saturate the color by 10%, you get **45.1806, 0.5072, 0.4300**, and if you desaturate by 10%, it is **53.4594, 0.4660, 0.4276**.

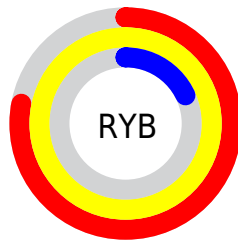
# Distribution



Red (100%)

Green (65%)

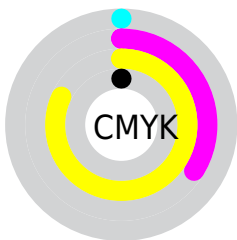
Blue (18%)



Red (78%)

Yellow (100%)

Blue (18%)

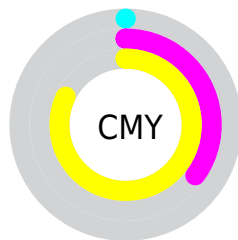


Cyan (0%)

Magenta (34%)

Yellow (82%)

Black (0%)



Cyan (0%)

Magenta (35%)

Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.0947, 0.4882, 0.4315 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 49.0947, 0.4882, 0.4315 by changing the saturation by 10% instead.




 49.0947, 0.4882,  
0.4315


 49.0947, 0.4882,  
0.4315


383.1150, 0.4079,  
0.3926

 34.6946, 0.5041,  
0.4364


 88.8321, 0.4619,  
0.4209

 23.4277, 0.5218,  
0.4400


 114.9382, 0.4511,  
0.4158

 14.9097, 0.5416,  
0.4413


 145.7150, 0.4416,  
0.4111

 8.7560, 0.5627,  
0.4373

 181.5471, 0.4332,  
0.4068

 4.5824, 0.5795,  
0.4205

 222.8187, 0.4258,  
0.4028

 2.0044, 0.6058,  
0.3942

 269.9143, 0.4192,

 0.6100, 0.6623,

0.3991

0.3377

323.2183, 0.4133,  
0.3957

■ 0.0000, 1.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 49.0947, 0.4882,  
0.4315

■ 49.0947, 0.4882,  
0.4315

■ 45.1806, 0.5072,  
0.4300

■ 53.4594, 0.4660,  
0.4276

■ 42.3227, 0.5201,  
0.4252

■ 58.2933, 0.4420,  
0.4191

■ 63.6213, 0.4175,  
0.4071

■ 69.4640, 0.3936,  
0.3928

75.8400, 0.3712,  
0.3774

82.7667, 0.3507,  
0.3618

90.2605, 0.3322,  
0.3464

98.3371, 0.3157,  
0.3318

99.9954, 0.3127,  
0.3290

# Harmonies

## Analogous

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



49.0947, 0.5098, 0.3613



49.0947, 0.4882, 0.4315



49.0947, 0.4200, 0.4952

# Triad

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



49.0947, 0.4882, 0.4315



49.0947, 0.1757, 0.3403



49.0947, 0.2679, 0.1984

# Complementary

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



49.0947, 0.4882, 0.4315



24.8472, 0.1841, 0.1651

# 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.



49.0947, 0.1946, 0.1835



49.0947, 0.4882, 0.4315



49.0947, 0.1487, 0.2466

# Square

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



49.0947, 0.4882, 0.4315



49.0947, 0.2402, 0.4550



49.0947, 0.1556, 0.1970



49.0947, 0.3693, 0.2377



# Rectangle

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



49.0947, 0.4882, 0.4315



49.0947, 0.3611, 0.5176



49.0947, 0.1556, 0.1970



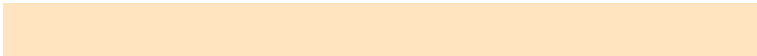
49.0947, 0.2396, 0.1905

# Sweetspot

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



49.0972, 0.4882, 0.4315



80.6096, 0.3568, 0.3665



25.0058, 0.4786, 0.2563



16.7320, 0.3640, 0.3720



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.



49.0972, 0.4882, 0.4315



43.0208, 0.5170, 0.4265



90.4107, 0.4049, 0.5046



19.7343, 0.3280, 0.3428



22.4213, 0.5180, 0.4269



2.3994, 0.5036, 0.4383



# Inverse Universe

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



24.8472, 0.1841, 0.1651



18.4691, 0.1705, 0.1328



10.1344, 0.1652, 0.0801



18.6344, 0.2979, 0.3149



9.5847, 0.1700, 0.1321



1.1437, 0.1762, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 49.0947, 0.4882, 0.4315 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 49.0947, 0.4882, 0.4315 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 49.0947, 0.4882, 0.4315**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.0947, 0.4882, 0.4315.



This preview shows how white text looks on a background with the Yxy color 49.0947, 0.4882, 0.4315.

# 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

49.0947, 0.4882, 0.4315

### Protanopia

49.3350, 0.4282, 0.4730

### Deuteranopia

49.2665, 0.4639, 0.4536



## Tritanopia

48.9208, 0.3961, 0.3187

# Trichromacy



## Original Color

49.0947, 0.4882, 0.4315

## Protanomaly

49.0330, 0.4504, 0.4578

## Deuteranomaly

48.9388, 0.4730, 0.4452

## Tritanomaly

48.5559, 0.4387, 0.3685

# Monochromacy



## Original Color

49.0947, 0.4882, 0.4315

## Achromatopsia

45.6411, 0.3127, 0.3290

## Achromatomaly

45.5640, 0.3807, 0.3841

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.0947, 0.4882, 0.4315 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, 167, 46)` looks like.

```
.text, #text, p{  
    color:rgb(255, 167, 46)  
}
```

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, 167, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 167, 46) }
```

## Border

The CSS property to change the border of an element to Yxy 49.0947, 0.4882, 0.4315 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, 167, 46) }
```

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

```
.border{ border-color:rgb(255, 167, 46) }
```

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

Here you see how a box with a 4 pixel rgb(255, 167, 46) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 167, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 167, 46);  
box-shadow:4px 4px 4px 4px rgb(255, 167,  
46) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.0947, 0.4882, 0.4315 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 167, 46) }
```

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

```
.background{ background-color: rgb(255,  
167, 46) }
```

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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