

# Converting Colors

$Y_{xy}(45.0251, 0.4855, 0.4185)$

Have a look what the booklet for  
Yxy(45.0251, 0.4855, 0.4185)  
contains.

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# Color

**Yxy(44.9304, 0.4854, 0.4183)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F99E3D
RGB	249, 158, 61
RGB Percent	98%, 62%, 24%
CMY	0.0235, 0.3804, 0.7606
CMYK	0.00, 0.37, 0.75, 0.02
HSL	31°, 94%, 61%
HSV	31°, 75%, 98%
XYZ	52.1377, 44.9304, 10.3438
YIQ	174.1510, 85.3730, -10.8750

# Conversions

## Conversions Part 2

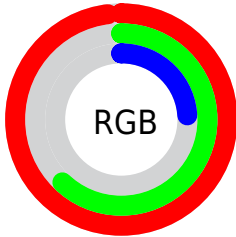
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	237, 249, 61
Decimal	16358973
CIE <sub>Lab</sub>	72.85, 26.34, 61.93
CIE <sub>LCh</sub>	73, 67.295, 66.955
Yxy	44.9304, 0.4854, 0.4183
Android (android.graphics.Color)	4294549053 (0xFFFF99E3D)
YUV	174.1510, -55.7834, 65.6426
Hunter-Lab	67.0301, 21.5391, 37.7718

# Details

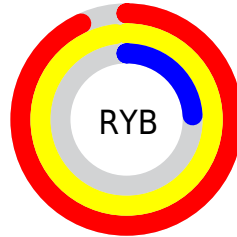
The Yxy color **44.9304, 0.4854, 0.4183** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **30.3001, 0.1959, 0.1962**, and the grayscale version is **42.6718, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.0634, 0.4151, 0.4272**, and **20.8729, 0.5213, 0.4243** is the 20% darker color. If you saturate the color by 10%, you get **40.8107, 0.5098, 0.4190**, and if you desaturate by 10%, it is **49.5826, 0.4588, 0.4126**.

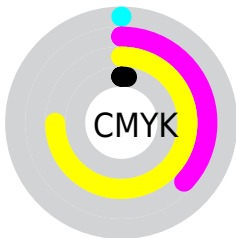
# Distribution



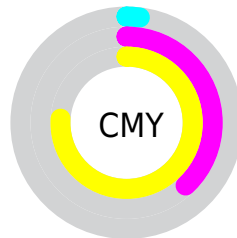
- Red (98%)
- Green (62%)
- Blue (24%)



- Red (93%)
- Yellow (98%)
- Blue (24%)



- Cyan (0%)
- Magenta (37%)
- Yellow (75%)
- Black (2%)




- Cyan (2%)
- Magenta (38%)
- Yellow (76%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.9304, 0.4854, 0.4183 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 44.9304, 0.4854, 0.4183 by changing the saturation by 10% instead.





 44.9304, 0.4854,  
0.4183

 44.9304, 0.4854,  
0.4183


366.4916, 0.4032,  
0.3836

 31.4026, 0.5028,  
0.4229


 82.6160, 0.4575,  
0.4086

 20.9056, 0.5229,  
0.4263

 107.5425, 0.4464,  
0.4041

 13.0550, 0.5458,  
0.4269


 137.0375, 0.4368,  
0.3999

 7.4665, 0.5751,  
0.4249

 171.4852, 0.4283,  
0.3960

 3.7555, 0.5957,  
0.4043

 211.2700, 0.4209,  
0.3925

 1.5377, 0.6285,  
0.3715

256.7765, 0.4143,

 0.3151, 0.7503,

0.3892

0.2497

308.3889, 0.4085,  
0.3863

0.0000, 0.0000,  
0.0000

44.9304, 0.4854,  
0.4183

44.9304, 0.4854,  
0.4183

40.8107, 0.5098,  
0.4190

49.5826, 0.4588,  
0.4126

37.1861, 0.5304,  
0.4140


54.7867, 0.4317,  
0.4030


35.6980, 0.5387,  
0.4105


60.5688, 0.4054,  
0.3909


66.9506, 0.3809,  
0.3773

73.9525, 0.3587,  
0.3632

 81.5938, 0.3388,  
0.3493

 89.8926, 0.3214,  
0.3360

 98.5243, 0.3090,  
0.3285

 98.8803, 0.3090,  
0.3290

# Harmonies

## Analogous

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



44.9304, 0.4957, 0.3517



44.9304, 0.4854, 0.4183



44.9304, 0.4271, 0.4793

# Triad

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



44.9304, 0.4854, 0.4183



44.9304, 0.1905, 0.3563



44.9304, 0.2585, 0.2012

# Complementary

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



44.9304, 0.4854, 0.4183



30.3001, 0.1959, 0.1962

# 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.



44.9304, 0.1933, 0.1909



44.9304, 0.4854, 0.4183



44.9304, 0.1587, 0.2629

# Square

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



44.9304, 0.4854, 0.4183



44.9304, 0.2571, 0.4591



44.9304, 0.1605, 0.2091



44.9304, 0.3512, 0.2357



# Rectangle

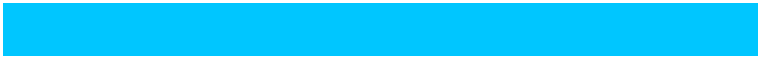
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



44.9304, 0.4854, 0.4183



44.9304, 0.3731, 0.5035



44.9304, 0.1605, 0.2091



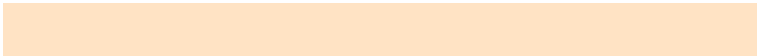
44.9304, 0.2332, 0.1949

# Sweetspot

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



44.9327, 0.4854, 0.4183



79.9847, 0.3536, 0.3598



25.8486, 0.4399, 0.2437



16.5185, 0.3611, 0.3649



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.



44.9327, 0.4854, 0.4183



40.8649, 0.5219, 0.4169



88.2307, 0.4109, 0.4913



18.7063, 0.3281, 0.3413



19.3942, 0.5363, 0.4124



2.0086, 0.5185, 0.4265



# Inverse Universe

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



30.3001, 0.1959, 0.1962



24.8103, 0.1808, 0.1655



11.1741, 0.1689, 0.0912



18.0300, 0.2980, 0.3164



11.2037, 0.1756, 0.1523



1.2489, 0.1817, 0.1743



# Previews

## White Background



This preview shows how the Yxy color 44.9304, 0.4854, 0.4183 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 44.9304, 0.4854, 0.4183 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 44.9304, 0.4854, 0.4183**

## Background



This preview shows how black text looks on a background with the Yxy color 44.9304, 0.4854, 0.4183.



This preview shows how white text looks on a background with the Yxy color 44.9304, 0.4854, 0.4183.

# 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

44.9304, 0.4854, 0.4183

### Protanopia

45.3271, 0.4184, 0.4608

### Deuteranopia

44.8922, 0.4546, 0.4451



## Tritanopia

44.9430, 0.4107, 0.3177

# Trichromacy



## Original Color

44.9304, 0.4854, 0.4183

## Protanomaly

44.7921, 0.4431, 0.4448

## Deuteranomaly

44.9016, 0.4659, 0.4357

## Tritanomaly

44.7692, 0.4441, 0.3595

# Monochromacy



## Original Color

44.9304, 0.4854, 0.4183

## Achromatopsia

42.3268, 0.3127, 0.3290

## Achromatomaly

42.1162, 0.3761, 0.3743

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.9304, 0.4854, 0.4183 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(249, 158, 61)` looks like.

```
.text, #text, p{  
    color:rgb(249, 158, 61)  
}
```

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(249, 158, 61) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(249, 158, 61) }
```

## Border

The CSS property to change the border of an element to Yxy 44.9304, 0.4854, 0.4183 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(249, 158, 61) }
```

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

```
.border{ border-color:rgb(249, 158, 61) }
```

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

Here you see how a box with a 4 pixel `rgb(249, 158, 61)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(249, 158, 61); -webkit-box-  
shadow:4px 4px 4px 4px rgb(249, 158, 61);  
box-shadow:4px 4px 4px 4px rgb(249, 158,  
61) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.9304, 0.4854, 0.4183 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(249, 158, 61) }
```

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

```
.background{ background-color: rgb(249,  
158, 61) }
```

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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