

# Converting Colors

$Y_{xy}(44.2143, 0.4815, 0.3945)$

Have a look what the booklet for  
Yxy(44.2143, 0.4815, 0.3945)  
contains.

<b>Yxy(44.3410, 0.4813, 0.3950)</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(44.3410, 0.4813, 0.3950)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF9853
RGB	255, 152, 83
RGB Percent	100%, 60%, 33%
CMY	0.0000, 0.4039, 0.6747
CMYK	0.00, 0.40, 0.67, 0.00
HSL	24°, 100%, 66%
HSV	24°, 67%, 100%
XYZ	54.0287, 44.3410, 13.8860
YIQ	174.9310, 83.5370, 0.3770

# Conversions

## Conversions Part 2

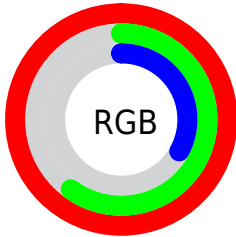
Format	Color
R <sub>Y</sub> B	255, 198, 83
Decimal	16750675
CIE Lab	72.46, 32.91, 51.84
CIE LCh	72, 61.406, 57.588
Yxy	44.3410, 0.4813, 0.3950
Android (android.graphics.Color)	4294940755 (0xFFFF9853)
YUV	174.9310, -45.3220, 70.2205
Hunter-Lab	66.5890, 28.2996, 34.2484

# Details

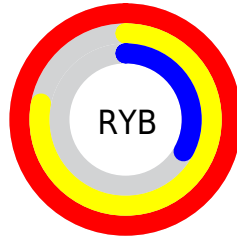
The Yxy color **44.3410, 0.4813, 0.3950** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **44.1543, 0.2124, 0.2395**, and the grayscale version is **43.0383, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.6349, 0.4044, 0.4027**, and **20.5561, 0.5227, 0.4008** is the 20% darker color. If you saturate the color by 10%, you get **39.3784, 0.5135, 0.3973**, and if you desaturate by 10%, it is **50.0905, 0.4488, 0.3887**.

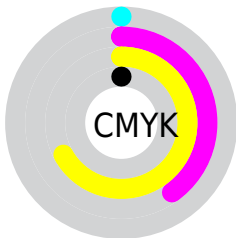
# Distribution



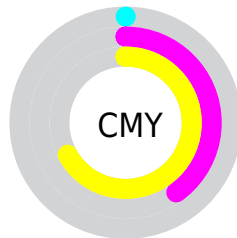
- Red (100%)
- Green (60%)
- Blue (33%)



- Red (100%)
- Yellow (78%)
- Blue (33%)



- Cyan (0%)
- Magenta (40%)
- Yellow (67%)
- Black (0%)




- Cyan (0%)
- Magenta (40%)
- Yellow (67%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.3410, 0.4813, 0.3950 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 44.3410, 0.4813, 0.3950 by changing the saturation by 10% instead.





 44.3410, 0.4813,  
0.3950


 44.3410, 0.4813,  
0.3950


364.0980, 0.3986,  
0.3699

 30.9387, 0.5001,  
0.3982


 81.7306, 0.4524,  
0.3881

 20.5522, 0.5227,  
0.4004


 106.4867, 0.4411,  
0.3848


 12.7970, 0.5498,  
0.4003

 135.7962, 0.4315,  
0.3818

 7.2889, 0.5865,  
0.3978


 170.0434, 0.4231,  
0.3789

 3.6434, 0.6207,  
0.3793

 209.6128, 0.4158,  
0.3764

 1.4762, 0.6598,  
0.3402

254.8888, 0.4094,

 0.2719, 0.7991,

0.3740

0.2009

306.2557, 0.4037,  
0.3718

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

44.3410, 0.4813,  
0.3950

44.3410, 0.4813,  
0.3950

39.3784, 0.5135,  
0.3973

50.0905, 0.4488,  
0.3887

35.1552, 0.5429,  
0.3943

56.6574, 0.4180,  
0.3797

31.6260, 0.5670,  
0.3861

64.0783, 0.3900,  
0.3692

30.8307, 0.5726,  
0.3836

72.3850, 0.3651,  
0.3581

 81.6079, 0.3435,  
0.3471

 91.7755, 0.3249,  
0.3365

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.



44.3410, 0.4721, 0.3328



44.3410, 0.4813, 0.3950



44.3410, 0.4404, 0.4540

# Triad

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



44.3410, 0.4813, 0.3950



44.3410, 0.2163, 0.3852



44.3410, 0.2407, 0.2041

# Complementary

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



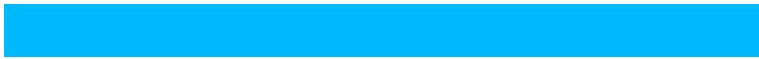
44.3410, 0.4813, 0.3950



44.1543, 0.2124, 0.2395

# 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.



44.3410, 0.1888, 0.2027



44.3410, 0.4813, 0.3950



44.3410, 0.1752, 0.2926

# Square

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



44.3410, 0.4813, 0.3950



44.3410, 0.2867, 0.4677



44.3410, 0.1669, 0.2302



44.3410, 0.3203, 0.2299



# Rectangle

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



44.3410, 0.4813, 0.3950



44.3410, 0.3947, 0.4824



44.3410, 0.1669, 0.2302



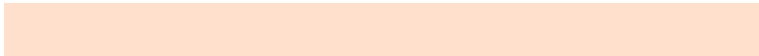
44.3410, 0.2200, 0.2007

# Sweetspot

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



44.3431, 0.4813, 0.3950



79.1834, 0.3487, 0.3498



30.9933, 0.3973, 0.2314



16.3877, 0.3546, 0.3529



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.



44.3431, 0.4813, 0.3950



37.8038, 0.5243, 0.3969



82.9142, 0.4153, 0.4697



19.1836, 0.3284, 0.3386



16.3829, 0.5697, 0.3859



1.8022, 0.5489, 0.4024



# Inverse Universe

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



44.1543, 0.2124, 0.2395



37.4027, 0.1986, 0.2181



18.2029, 0.1855, 0.1290



19.1865, 0.2979, 0.3192



15.9183, 0.1865, 0.1915



1.7640, 0.1913, 0.2088



# Previews

## White Background



This preview shows how the Yxy color 44.3410, 0.4813, 0.3950 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 44.3410, 0.4813, 0.3950 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 44.3410, 0.4813, 0.3950**

## Background



This preview shows how black text looks on a background with the Yxy color 44.3410, 0.4813, 0.3950.



This preview shows how white text looks on a background with the Yxy color 44.3410, 0.4813, 0.3950.

# 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

44.3410, 0.4813, 0.3950

### Protanopia

44.4664, 0.4018, 0.4375

### Deuteranopia

44.3126, 0.4397, 0.4290



## Tritanopia

44.2181, 0.4147, 0.3188

# Trichromacy



## Original Color

44.3410, 0.4813, 0.3950

## Protanomaly

43.9859, 0.4305, 0.4221

## Deuteranomaly

44.0972, 0.4551, 0.4168

## Tritanomaly

44.0248, 0.4423, 0.3490

# Monochromacy



## Original Color

44.3410, 0.4813, 0.3950

## Achromatopsia

42.8690, 0.3127, 0.3290

## Achromatomaly

42.4278, 0.3710, 0.3610

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.3410, 0.4813, 0.3950 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, 152, 83)` looks like.

```
.text, #text, p{  
    color:rgb(255, 152, 83)  
}
```

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, 152, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 152, 83) }
```

## Border

The CSS property to change the border of an element to Yxy 44.3410, 0.4813, 0.3950 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, 152, 83) }
```

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

```
.border{ border-color:rgb(255, 152, 83) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 152, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 152, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 152, 83);  
box-shadow:4px 4px 4px 4px rgb(255, 152,  
83) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.3410, 0.4813, 0.3950 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 152, 83) }
```

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

```
.background{ background-color: rgb(255,  
152, 83) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor