

# Converting Colors

$Y_{xy}(43.8557, 0.5017, 0.4150)$

Have a look what the booklet for  
Yxy(43.8557, 0.5017, 0.4150)  
contains.

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# Color

**Yxy(43.9555, 0.5014, 0.4153)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF9833
RGB	255, 152, 51
RGB Percent	100%, 60%, 20%
CMY	0.0000, 0.4039, 0.8001
CMYK	0.00, 0.40, 0.80, 0.00
HSL	30°, 100%, 60%
HSV	30°, 80%, 100%
XYZ	53.0684, 43.9555, 8.8165
YIQ	171.2830, 93.8090, -9.5750

# Conversions

## Conversions Part 2

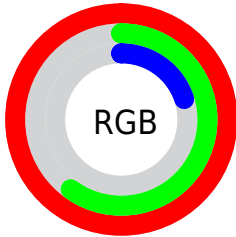
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 251, 51
Decimal	16750643
CIE <sub>Lab</sub>	72.20, 31.55, 65.54
CIE <sub>LCh</sub>	72, 72.742, 64.293
Yxy	43.9555, 0.5014, 0.4153
Android (android.graphics.Color)	4294940723 (0xFFFF9833)
YUV	171.2830, -59.2995, 73.4198
Hunter-Lab	66.2989, 26.8555, 38.5248

# Details

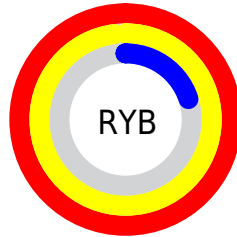
The Yxy color **43.9555, 0.5014, 0.4153** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **31.0273, 0.1924, 0.1928**, and the grayscale version is **41.1420, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.9056, 0.4243, 0.4294**, and **20.3208, 0.5350, 0.4134** is the 20% darker color. If you saturate the color by 10%, you get **39.8347, 0.5253, 0.4129**, and if you desaturate by 10%, it is **48.6538, 0.4745, 0.4123**.

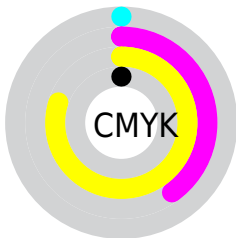
# Distribution



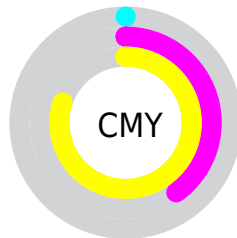
- Red (100%)
- Green (60%)
- Blue (20%)



- Red (100%)
- Yellow (98%)
- Blue (20%)



- Cyan (0%)
- Magenta (40%)
- Yellow (80%)
- Black (0%)




- Cyan (0%)
- Magenta (40%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 43.9555, 0.5014, 0.4153 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 43.9555, 0.5014, 0.4153 by changing the saturation by 10% instead.





 43.9555, 0.5014,  
0.4153


 43.9555, 0.5014,  
0.4153


362.5267, 0.4121,  
0.3842

 30.6355, 0.5200,  
0.4182


 81.1508, 0.4714,  
0.4075

 20.3215, 0.5411,  
0.4193


 105.7949, 0.4593,  
0.4035

 12.6289, 0.5660,  
0.4173


 134.9825, 0.4488,  
0.3997

 7.1735, 0.5923,  
0.4077

 169.0979, 0.4396,  
0.3961

 3.5709, 0.6166,  
0.3834

 208.5257, 0.4314,  
0.3928

 1.4365, 0.6551,  
0.3449

 253.6501, 0.4242,

 0.2434, 0.8061,

0.3897

0.1939

304.8557, 0.4178,  
0.3869

■ 0.0000, 0.0000,  
0.0000

■ 43.9555, 0.5014,  
0.4153

■ 43.9555, 0.5014,  
0.4153

■ 39.8347, 0.5253,  
0.4129

■ 48.6538, 0.4745,  
0.4123

■ 36.2495, 0.5451,  
0.4054

■ 53.9598, 0.4464,  
0.4048

■ 59.9019, 0.4187,  
0.3941

■ 66.5057, 0.3927,  
0.3815

■ 73.7949, 0.3690,  
0.3681

81.7918, 0.3478,  
0.3546

90.5175, 0.3291,  
0.3414

99.9923, 0.3127,  
0.3290

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.



43.9555, 0.5089, 0.3448



43.9555, 0.5014, 0.4153



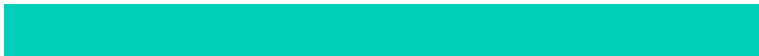
43.9555, 0.4406, 0.4840

# Triad

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



43.9555, 0.5014, 0.4153



43.9555, 0.1856, 0.3685



43.9555, 0.2462, 0.1905

# Complementary

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



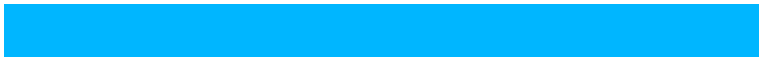
43.9555, 0.5014, 0.4153



31.0273, 0.1924, 0.1928

# 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.



43.9555, 0.1803, 0.1818



43.9555, 0.5014, 0.4153



43.9555, 0.1495, 0.2635

# Square

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



43.9555, 0.5014, 0.4153



43.9555, 0.2589, 0.4806



43.9555, 0.1489, 0.2031



43.9555, 0.3443, 0.2248



# Rectangle

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



43.9555, 0.5014, 0.4153



43.9555, 0.3834, 0.5158



43.9555, 0.1489, 0.2031



43.9555, 0.2202, 0.1846

# Sweetspot

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



43.9559, 0.5014, 0.4153



78.5131, 0.3559, 0.3599



26.0394, 0.4462, 0.2398



16.1994, 0.3636, 0.3648



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.



43.9559, 0.5014, 0.4153



37.6265, 0.5374, 0.4088



90.8685, 0.4158, 0.4938



19.4727, 0.3282, 0.3408



19.2390, 0.5425, 0.4075

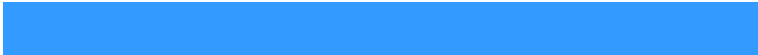


2.0914, 0.5247, 0.4216



# Inverse Universe

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



31.0273, 0.1924, 0.1928



24.2768, 0.1792, 0.1631



10.5972, 0.1635, 0.0835



18.8935, 0.2979, 0.3169



12.2393, 0.1775, 0.1590



1.4103, 0.1832, 0.1794



# Previews

## White Background



This preview shows how the Yxy color 43.9555, 0.5014, 0.4153 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 43.9555, 0.5014, 0.4153 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 43.9555, 0.5014, 0.4153**

## **Background**



This preview shows how black text looks on a background with the Yxy color 43.9555, 0.5014, 0.4153.



This preview shows how white text looks on a background with the Yxy color 43.9555, 0.5014, 0.4153.

# 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

43.9555, 0.5014, 0.4153

### Protanopia

44.2884, 0.4237, 0.4664

### Deuteranopia

43.8751, 0.4616, 0.4512



## Tritanopia

43.8774, 0.4162, 0.3188

# Trichromacy



## Original Color

43.9555, 0.5014, 0.4153

## Protanomaly

43.7118, 0.4521, 0.4482

## Deuteranomaly

43.7081, 0.4769, 0.4370

## Tritanomaly

43.7242, 0.4544, 0.3610

# Monochromacy



## Original Color

43.9555, 0.5014, 0.4153

## Achromatopsia

40.7240, 0.3127, 0.3290

## Achromatomaly

40.6398, 0.3845, 0.3769

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 43.9555, 0.5014, 0.4153 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, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 152, 51)  
}
```

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, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 152, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 43.9555, 0.5014, 0.4153 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, 51) }
```

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

```
.border{ border-color:rgb(255, 152, 51) }
```

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, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 152, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 152, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 152,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 43.9555, 0.5014, 0.4153 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, 51) }
```

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

```
.background{ background-color: rgb(255,  
152, 51) }
```

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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