

# Converting Colors

$Y_{xy}(43.6112, 0.5114, 0.4244)$

Have a look what the booklet for  
Yxy(43.6112, 0.5114, 0.4244)  
contains.

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# Color

**Yxy(43.4678, 0.5118, 0.4238)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF971A
RGB	255, 151, 26
RGB Percent	100%, 59%, 10%
CMY	0.0000, 0.4078, 0.8977
CMYK	0.00, 0.41, 0.90, 0.00
HSL	33°, 100%, 55%
HSV	33°, 90%, 100%
XYZ	52.4937, 43.4678, 6.6053
YIQ	167.8460, 102.1090, -16.8270

# Conversions

## Conversions Part 2

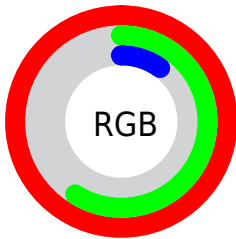
Format	Color
R <sub>Y</sub> B	217, 255, 26
Decimal	16750362
CIE Lab	71.87, 31.47, 72.92
CIE LCh	72, 79.420, 66.654
Yxy	43.4678, 0.5118, 0.4238
Android (android.graphics.Color)	4294940442 (0xFFFF971A)
YUV	167.8460, -69.9301, 76.4341
Hunter-Lab	65.9301, 26.7443, 40.2110

# Details

The Yxy color **43.4678, 0.5118, 0.4238** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle washed orange. A complement of this color would be **23.4265, 0.1793, 0.1587**, and the grayscale version is **39.3967, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.0907, 0.4351, 0.4422**, and **20.1301, 0.5365, 0.4122** is the 20% darker color. If you saturate the color by 10%, you get **39.8489, 0.5296, 0.4176**, and if you desaturate by 10%, it is **47.5533, 0.4903, 0.4249**.

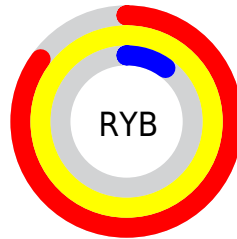
# Distribution



Red (100%)

Green (59%)

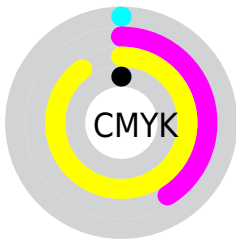
Blue (10%)



Red (85%)

Yellow (100%)

Blue (10%)

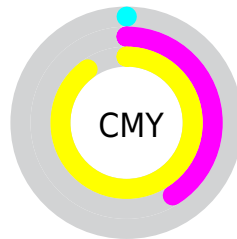


Cyan (0%)

Magenta (41%)

Yellow (90%)

Black (0%)



Cyan (0%)

Magenta (41%)


Yellow (90%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 43.4678, 0.5118, 0.4238 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 43.4678, 0.5118, 0.4238 by changing the saturation by 10% instead.





 43.4678, 0.5118,  
0.4238


 43.4678, 0.5118,  
0.4238


360.5321, 0.4198,  
0.3915


 30.2523, 0.5298,  
0.4260


 80.4163, 0.4817,  
0.4164


 20.0302, 0.5496,  
0.4256


 104.9181, 0.4693,  
0.4123

 12.4170, 0.5758,  
0.4242


 133.9509, 0.4584,  
0.4083

 7.0283, 0.5927,  
0.4073

 167.8989, 0.4488,  
0.4045

 3.4798, 0.6173,  
0.3827

 207.1467, 0.4403,  
0.4009

 1.3871, 0.6564,  
0.3436

 252.0785, 0.4327,

 0.2072, 0.8242,

0.3975

0.1758

303.0789, 0.4259,  
0.3944

■ 0.0000, 0.0000,  
0.0000

■ 43.4678, 0.5118,  
0.4238

■ 43.4678, 0.5118,  
0.4238

■ 39.8489, 0.5296,  
0.4176

■ 47.5533, 0.4903,  
0.4249

■ 39.7704, 0.5300,  
0.4174

■ 52.1366, 0.4659,  
0.4206


■ 57.2472, 0.4402,  
0.4119

■ 62.9092, 0.4145,  
0.4001

■ 69.1445, 0.3900,  
0.3862

 75.9734, 0.3673,  
0.3715

 83.4149, 0.3468,  
0.3567

 91.4869, 0.3285,  
0.3423

99.9998, 0.3127,  
0.3290

# Harmonies

## Analogous

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



43.4678, 0.5283, 0.3486



43.4678, 0.5118, 0.4238



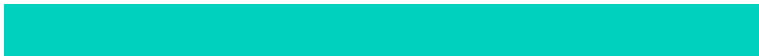
43.4678, 0.4408, 0.4993

# Triad

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



43.4678, 0.5118, 0.4238



43.4678, 0.1702, 0.3609



43.4678, 0.2473, 0.1826

# Complementary

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



43.4678, 0.5118, 0.4238



23.4265, 0.1793, 0.1587

# 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.



43.4678, 0.1746, 0.1709



43.4678, 0.5118, 0.4238



43.4678, 0.1364, 0.2493

# Square

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



43.4678, 0.5118, 0.4238



43.4678, 0.2451, 0.4897



43.4678, 0.1390, 0.1897



43.4678, 0.3558, 0.2207



# Rectangle

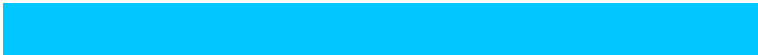
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



43.4678, 0.5118, 0.4238



43.4678, 0.3779, 0.5347



43.4678, 0.1390, 0.1897



43.4678, 0.2186, 0.1757

# Sweetspot

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



43.4701, 0.5118, 0.4238



77.9738, 0.3614, 0.3674



23.6933, 0.4884, 0.2525



16.1636, 0.3687, 0.3725



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.



43.4701, 0.5118, 0.4238



39.7708, 0.5300, 0.4174



91.4354, 0.4122, 0.5063



19.6300, 0.3281, 0.3420



21.0837, 0.5277, 0.4192



2.2713, 0.5119, 0.4317



# Inverse Universe

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



23.4265, 0.1793, 0.1587



19.6746, 0.1721, 0.1395



8.2978, 0.1556, 0.0677



18.7370, 0.2979, 0.3157



10.5699, 0.1729, 0.1425



1.2441, 0.1789, 0.1641



# Previews

## White Background



This preview shows how the Yxy color 43.4678, 0.5118, 0.4238 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 43.4678, 0.5118, 0.4238 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 43.4678, 0.5118, 0.4238**

## **Background**



This preview shows how black text looks on a background with the Yxy color 43.4678, 0.5118, 0.4238.



This preview shows how white text looks on a background with the Yxy color 43.4678, 0.5118, 0.4238.

# 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

43.4678, 0.5118, 0.4238

### Protanopia

43.6962, 0.4344, 0.4800

### Deuteranopia

43.3254, 0.4727, 0.4628



## Tritanopia

43.5064, 0.4188, 0.3199

# Trichromacy



**Original Color**

43.4678, 0.5118, 0.4238

**Protanomaly**

43.1591, 0.4628, 0.4597

**Deuteranomaly**

43.1716, 0.4884, 0.4481

**Tritanomaly**

43.1890, 0.4647, 0.3695

# Monochromacy



**Original Color**

43.4678, 0.5118, 0.4238

**Achromatopsia**

39.1572, 0.3127, 0.3290

**Achromatomaly**

39.3810, 0.3938, 0.3888

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 43.4678, 0.5118, 0.4238 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, 151, 26)` looks like.

```
.text, #text, p{  
    color:rgb(255, 151, 26)  
}
```

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, 151, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 151, 26) }
```

## Border

The CSS property to change the border of an element to Yxy 43.4678, 0.5118, 0.4238 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, 151, 26) }
```

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

```
.border{ border-color:rgb(255, 151, 26) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 151, 26)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 151, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 151, 26);  
box-shadow:4px 4px 4px 4px rgb(255, 151,  
26) }
```



# Background

The CSS property to change the background color of an element to Yxy 43.4678, 0.5118, 0.4238 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 151, 26) }
```

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

```
.background{ background-color: rgb(255,  
151, 26) }
```

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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