

# Converting Colors

$Yxy(43.0147, 0.5121, 0.4316)$

Have a look what the booklet for  
Yxy(43.0147, 0.5121, 0.4316)  
contains.

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# Color

**Yxy(42.9657, 0.5123, 0.4315)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FB9800
RGB	251, 152, 0
RGB Percent	98%, 60%, 0%
CMY	0.0157, 0.4039, 1.0000
CMYK	0.00, 0.39, 1.00, 0.02
HSL	36°, 100%, 49%
HSV	36°, 100%, 98%
XYZ	51.0112, 42.9657, 5.5960
YIQ	164.2730, 107.7960, -26.2840

# Conversions

## Conversions Part 2

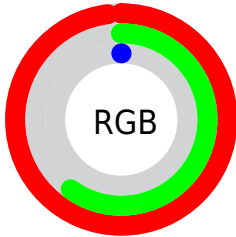
Format	Color
<a href="#">RYB</a>	163, 251, 0
Decimal	16488448
CIELab	71.53, 29.04, 76.56
CIELCh	72, 81.879, 69.228
Yxy	42.9657, 0.5123, 0.4315
Android (android.graphics.Color)	4294678528 (0xFFFB9800)
YUV	164.2730, -80.9866, 76.0596
Hunter-Lab	65.5482, 24.2035, 40.8220

# Details

The Yxy color **42.9657, 0.5123, 0.4315** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **15.8875, 0.1670, 0.1213**, and the grayscale version is **37.6187, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.4215, 0.4392, 0.4496**, and **19.8057, 0.5315, 0.4162** is the 20% darker color. If you saturate the color by 10%, you get **42.9686, 0.5123, 0.4315**, and if you desaturate by 10%, it is **46.3882, 0.4971, 0.4362**.

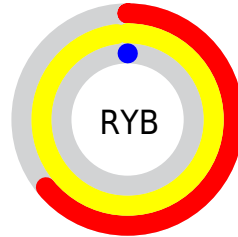
# Distribution



Red (98%)

Green (60%)

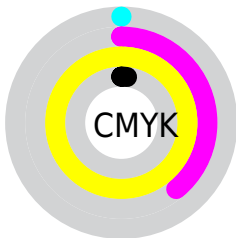
Blue (0%)



Red (64%)

Yellow (98%)

Blue (0%)

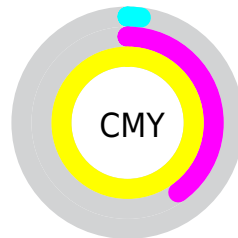


Cyan (0%)

Magenta (39%)

Yellow (100%)

Black (2%)



Cyan (2%)

Magenta (40%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.9657, 0.5123, 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 42.9657, 0.5123, 0.4315 by changing the saturation by 10% instead.





 42.9657, 0.5123,  
0.4315


 42.9657, 0.5123,  
0.4315


358.4707, 0.4214,  
0.3965


 29.8582, 0.5294,  
0.4338


 79.6591, 0.4831,  
0.4236


 19.7310, 0.5478,  
0.4333


 104.0138, 0.4709,  
0.4192


 12.1996, 0.5699,  
0.4301


 132.8863, 0.4601,  
0.4148

 6.8798, 0.5859,  
0.4141

 166.6611, 0.4505,  
0.4107

 3.3870, 0.6093,  
0.3907

 205.7226, 0.4420,  
0.4067

 1.3370, 0.6470,  
0.3530

 250.4550, 0.4344,


 0.1696, 0.8369,

0.4031


0.1631

 301.2430, 0.4276,  
0.3997


 0.0000, 0.0000,  
0.0000

 42.9657, 0.5123,  
0.4315


 42.9657, 0.5123,  
0.4315


 42.9686, 0.5123,  
0.4315

 46.3882, 0.4971,  
0.4362

 50.1730, 0.4786,  
0.4360

 54.3572, 0.4573,  
0.4306

 58.9636, 0.4343,  
0.4207

 64.0120, 0.4108,  
0.4076

69.5205, 0.3880,  
0.3924

75.5055, 0.3664,  
0.3763

81.9825, 0.3466,  
0.3600

88.9661, 0.3287,  
0.3441

# Harmonies

## Analogous

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



42.9657, 0.5365, 0.3542



42.9657, 0.5123, 0.4315



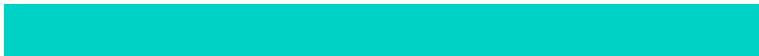
42.9657, 0.4352, 0.5092

# Triad

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



42.9657, 0.5123, 0.4315



42.9657, 0.1613, 0.3497



42.9657, 0.2534, 0.1812

# Complementary

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



42.9657, 0.5123, 0.4315



15.8875, 0.1670, 0.1213

# 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.



42.9657, 0.1757, 0.1668



42.9657, 0.5123, 0.4315



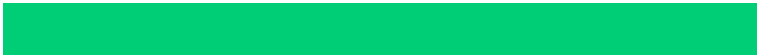
42.9657, 0.1307, 0.2389

# Square

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



42.9657, 0.5123, 0.4315



42.9657, 0.2342, 0.4867



42.9657, 0.1365, 0.1826



42.9657, 0.3676, 0.2222



# Rectangle

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



42.9657, 0.5123, 0.4315



42.9657, 0.3695, 0.5440



42.9657, 0.1365, 0.1826



42.9657, 0.2229, 0.1733

# Sweetspot

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



42.9686, 0.5123, 0.4315



78.2524, 0.3665, 0.3763



21.4374, 0.5424, 0.2762



16.1759, 0.3754, 0.3832



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.



42.9686, 0.5123, 0.4315



44.5133, 0.5123, 0.4314



85.1480, 0.4015, 0.5194



18.9745, 0.3279, 0.3433



22.8779, 0.5103, 0.4330



2.3255, 0.4965, 0.4440



# Inverse Universe

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



15.8875, 0.1670, 0.1213



16.4441, 0.1670, 0.1212



7.1731, 0.1527, 0.0615



17.7661, 0.2979, 0.3142



8.6152, 0.1679, 0.1244



0.9980, 0.1744, 0.1479



# Previews

## White Background



This preview shows how the Yxy color 42.9657, 0.5123, 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 42.9657, 0.5123, 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 42.9657, 0.5123, 0.4315**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.9657, 0.5123, 0.4315.



This preview shows how white text looks on a background with the Yxy color 42.9657, 0.5123, 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

42.9657, 0.5123, 0.4315

### Protanopia

43.1035, 0.4378, 0.4847

### Deuteranopia

43.1670, 0.4719, 0.4635



## Tritanopia

42.8730, 0.4208, 0.3189

# Trichromacy



## Original Color

42.9657, 0.5123, 0.4315

## Protanomaly

42.4157, 0.4660, 0.4650

## Deuteranomaly

43.1643, 0.4868, 0.4517

## Tritanomaly

42.4917, 0.4739, 0.3777

# Monochromacy



## Original Color

42.9657, 0.5123, 0.4315

## Achromatopsia

37.1238, 0.3127, 0.3290

## Achromatomaly

37.8769, 0.4020, 0.4024

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.9657, 0.5123, 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(251, 152, 0)` looks like.

```
.text, #text, p{  
    color:rgb(251, 152, 0)  
}
```

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(251, 152, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(251, 152, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 42.9657, 0.5123, 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(251, 152, 0) }
```

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

```
.border{ border-color:rgb(251, 152, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(251, 152, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(251, 152, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(251, 152, 0);  
box-shadow:4px 4px 4px 4px rgb(251, 152,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.9657, 0.5123, 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(251, 152, 0) }
```

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

```
.background{ background-color: rgb(251,  
152, 0) }
```

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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