

# Converting Colors

$Y_{xy}(43.6629, 0.5083, 0.4346)$

Have a look what the booklet for  
Yxy(43.6629, 0.5083, 0.4346)  
contains.

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# Color

**Yxy(43.7667, 0.5081, 0.4348)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FA9B00
RGB	250, 155, 0
RGB Percent	98%, 61%, 0%
CMY	0.0196, 0.3921, 1.0000
CMYK	0.00, 0.38, 1.00, 0.02
HSL	37°, 100%, 49%
HSV	37°, 100%, 98%
XYZ	51.1450, 43.7667, 5.7477
YIQ	165.7350, 106.3750, -28.0650

# Conversions

## Conversions Part 2

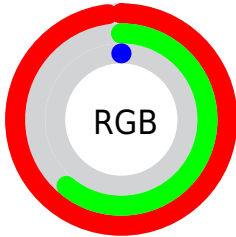
Format	Color
<b>RYB</b>	153, 250, 0
Decimal	16423680
CIELab	72.07, 27.06, 76.82
CIELCh	72, 81.451, 70.594
Yxy	43.7667, 0.5081, 0.4348
Android (android.graphics.Color)	4294613760 (0xFFFA9B00)
YUV	165.7350, -81.7074, 73.9004
Hunter-Lab	66.1564, 22.2233, 41.1584

# Details

The Yxy color **43.7667, 0.5081, 0.4348** 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 **15.0849, 0.1659, 0.1172**, and the grayscale version is **38.3641, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.8890, 0.4370, 0.4520**, and **20.2653, 0.5260, 0.4206** is the 20% darker color. If you saturate the color by 10%, you get **43.7693, 0.5081, 0.4348**, and if you desaturate by 10%, it is **47.1269, 0.4935, 0.4391**.

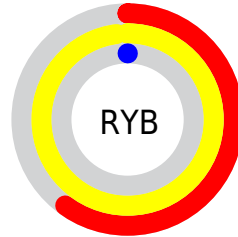
# Distribution



Red (98%)

Green (61%)

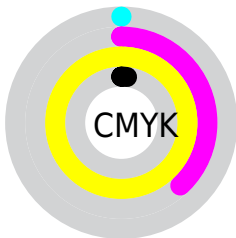
Blue (0%)



Red (60%)

Yellow (98%)

Blue (0%)

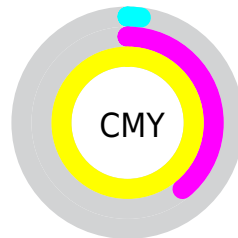


Cyan (0%)

Magenta (38%)

Yellow (100%)

Black (2%)



Cyan (2%)

Magenta (39%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 43.7667, 0.5081, 0.4348 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 43.7667, 0.5081, 0.4348 by changing the saturation by 10% instead.





 43.7667, 0.5081,  
0.4348

 43.7667, 0.5081,  
0.4348


361.7554, 0.4196,  
0.3978

 30.4871, 0.5246,  
0.4377


 80.8666, 0.4797,  
0.4261


 20.2086, 0.5424,  
0.4380

 105.4557, 0.4679,  
0.4214


 12.5468, 0.5639,  
0.4361


 134.5834, 0.4573,  
0.4168

 7.1172, 0.5787,  
0.4213

 168.6342, 0.4480,  
0.4125

 3.5355, 0.6004,  
0.3996

 207.9923, 0.4397,  
0.4084


 1.4173, 0.6352,  
0.3648


 253.0424, 0.4322,


 0.2294, 0.7931,

0.4046


0.2069


 304.1686, 0.4256,  
0.4011

 0.0000, 0.0000,  
0.0000


 43.7667, 0.5081,  
0.4348


 43.7667, 0.5081,  
0.4348

 43.7693, 0.5081,  
0.4348

 47.1269, 0.4935,  
0.4391

 50.8287, 0.4758,  
0.4386

 54.9078, 0.4551,  
0.4328

 59.3859, 0.4327,  
0.4227

 64.2824, 0.4098,  
0.4093

■ 69.6142, 0.3874,  
0.3938

■ 75.3973, 0.3661,  
0.3774

■ 81.6463, 0.3465,  
0.3607

■ 88.3751, 0.3287,  
0.3445

# Harmonies

## Analogous

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



43.7667, 0.5348, 0.3578



43.7667, 0.5081, 0.4348



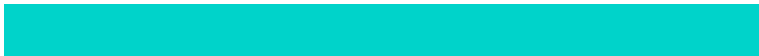
43.7667, 0.4304, 0.5109

# Triad

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



43.7667, 0.5081, 0.4348



43.7667, 0.1604, 0.3436



43.7667, 0.2585, 0.1838

# Complementary

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



43.7667, 0.5081, 0.4348



15.0849, 0.1659, 0.1172

# 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.



43.7667, 0.1795, 0.1682



43.7667, 0.5081, 0.4348



43.7667, 0.1318, 0.2364

# Square

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



43.7667, 0.5081, 0.4348



43.7667, 0.2312, 0.4793



43.7667, 0.1389, 0.1825



43.7667, 0.3727, 0.2256



# Rectangle

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



43.7667, 0.5081, 0.4348



43.7667, 0.3648, 0.5430



43.7667, 0.1389, 0.1825



43.7667, 0.2276, 0.1755

# Sweetspot

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



43.7693, 0.5081, 0.4348



78.8506, 0.3662, 0.3774



21.1653, 0.5492, 0.2799



16.3184, 0.3750, 0.3844



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.



43.7693, 0.5081, 0.4348



45.7509, 0.5082, 0.4347



83.7166, 0.3986, 0.5217



19.0179, 0.3278, 0.3437



23.5032, 0.5062, 0.4362



2.3812, 0.4930, 0.4467



# Inverse Universe

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



15.0849, 0.1659, 0.1172



15.7493, 0.1659, 0.1171



7.1657, 0.1534, 0.0619



17.7239, 0.2979, 0.3139



8.2571, 0.1667, 0.1202



0.9620, 0.1733, 0.1438



# Previews

## White Background



This preview shows how the Yxy color 43.7667, 0.5081, 0.4348 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 43.7667, 0.5081, 0.4348 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 43.7667, 0.5081, 0.4348**

## **Background**



This preview shows how black text looks on a background with the Yxy color 43.7667, 0.5081, 0.4348.



This preview shows how white text looks on a background with the Yxy color 43.7667, 0.5081, 0.4348.

# 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

43.7667, 0.5081, 0.4348

### Protanopia

44.1638, 0.4379, 0.4853

### Deuteranopia

43.8526, 0.4725, 0.4631



## Tritanopia

43.8774, 0.4162, 0.3188

# Trichromacy



**Original Color**

43.7667, 0.5081, 0.4348

**Protanomaly**

43.6790, 0.4637, 0.4672

**Deuteranomaly**

43.5180, 0.4857, 0.4526

**Tritanomaly**

43.2784, 0.4689, 0.3792

# Monochromacy



**Original Color**

43.7667, 0.5081, 0.4348

**Achromatopsia**

38.1326, 0.3127, 0.3290

**Achromatomaly**

38.7516, 0.3999, 0.4021

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 43.7667, 0.5081, 0.4348 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(250, 155, 0)` looks like.

```
.text, #text, p{  
    color:rgb(250, 155, 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(250, 155, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 155, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 43.7667, 0.5081, 0.4348 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(250, 155, 0) }
```

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

```
.border{ border-color:rgb(250, 155, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(250, 155, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 155, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 155, 0);  
box-shadow:4px 4px 4px 4px rgb(250, 155,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 43.7667, 0.5081, 0.4348 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 155, 0) }
```

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

```
.background{ background-color: rgb(250,  
155, 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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