

# Converting Colors

$Y_{xy}(38.7571, 0.5496, 0.3998)$

Have a look what the booklet for  
Yxy(38.7571, 0.5496, 0.3998)  
contains.

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# **Color**

**Yxy(36.4563, 0.5429, 0.4050)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7F08
RGB	255, 127, 8
RGB Percent	100%, 50%, 3%
CMY	0.0001, 0.5019, 0.9687
CMYK	0.00, 0.50, 0.97, 0.00
HSL	29°, 100%, 52%
HSV	29°, 97%, 100%
XYZ	48.8694, 36.4563, 4.6898
YIQ	151.7060, 114.4870, -9.8730

# Conversions

## Conversions Part 2

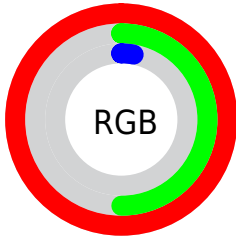
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 238, 8
Decimal	16744200
CIE Lab	66.87, 43.38, 72.77
CIE LCh	67, 84.715, 59.201
Yxy	36.4563, 0.5429, 0.4050
Android (android.graphics.Color)	4294934280 (0xFFFF7F08)
YUV	151.7060, -70.8471, 90.5888
Hunter-Lab	60.3791, 38.8105, 37.6601

# Details

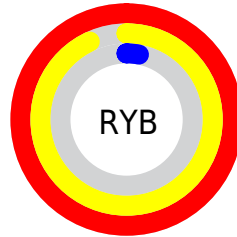
The Yxy color **36.4563, 0.5429, 0.4050** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **24.8627, 0.1799, 0.1660**, and the grayscale version is **31.5416, 0.3127, 0.3290**.

A 20% lighter version of the original color is **54.8157, 0.4613, 0.4283**, and **16.1085, 0.5721, 0.3840** is the 20% darker color. If you saturate the color by 10%, you get **35.3951, 0.5490, 0.4023**, and if you desaturate by 10%, it is **40.1928, 0.5214, 0.4115**.

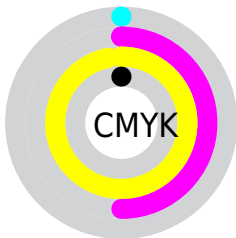
# Distribution



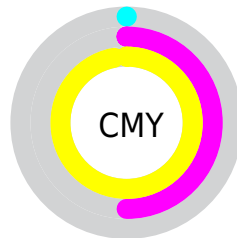
- Red (100%)
- Green (50%)
- Blue (3%)



- Red (100%)
- Yellow (93%)
- Blue (3%)



- Cyan (0%)
- Magenta (50%)
- Yellow (97%)
- Black (0%)




- Cyan (0%)
- Magenta (50%)
- Yellow (97%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.4563, 0.5429, 0.4050 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 36.4563, 0.5429, 0.4050 by changing the saturation by 10% instead.





 36.4563, 0.5429,  
0.4050


 36.4563, 0.5429,  
0.4050


330.9506, 0.4338,  
0.3851


 24.7868, 0.5645,  
0.4029


 69.7358, 0.5069,  
0.4031


 15.9183, 0.5890,  
0.3970


 92.1145, 0.4922,  
0.4008


 9.4664, 0.6158,  
0.3842


 118.8319, 0.4792,  
0.3981

 5.0466, 0.6415,  
0.3585

 150.2721, 0.4678,  
0.3954

 2.2746, 0.6793,  
0.3207

 186.8198, 0.4578,  
0.3927

 0.7602, 0.7410,  
0.2590


 228.8591, 0.4489,


 0.0000, 1.0000,

0.3900


0.0000


 276.7746, 0.4409,  
0.3875

 0.0000, 0.0000,  
0.0000


 36.4563, 0.5429,  
0.4050

 36.4563, 0.5429,  
0.4050


 35.3951, 0.5490,  
0.4023

 40.1928, 0.5214,  
0.4115

 44.4990, 0.4958,  
0.4124

 49.4135, 0.4676,  
0.4082

 54.9677, 0.4389,  
0.3998

 61.1898, 0.4112,  
0.3887

68.1059, 0.3855,  
0.3761

75.7403, 0.3623,  
0.3629

84.1158, 0.3417,  
0.3498

93.2542, 0.3237,  
0.3372

# Harmonies

## Analogous

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



36.4563, 0.5458, 0.3265



36.4563, 0.5429, 0.4050



36.4563, 0.4721, 0.4918

# Triad

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



36.4563, 0.5429, 0.4050



36.4563, 0.1699, 0.4026



36.4563, 0.2155, 0.1633

# Complementary

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



36.4563, 0.5429, 0.4050



24.8627, 0.1799, 0.1660

# 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.



36.4563, 0.1484, 0.1577



36.4563, 0.5429, 0.4050



36.4563, 0.1245, 0.2626

# Square

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



36.4563, 0.5429, 0.4050



36.4563, 0.2597, 0.5412



36.4563, 0.1196, 0.1856



36.4563, 0.3270, 0.1972



# Rectangle

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



36.4563, 0.5429, 0.4050



36.4563, 0.4054, 0.5441



36.4563, 0.1196, 0.1856



36.4563, 0.1883, 0.1581

# Sweetspot

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



36.4583, 0.5429, 0.4050



74.0638, 0.3670, 0.3657



23.3155, 0.4789, 0.2426



15.1507, 0.3768, 0.3714



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.



36.4583, 0.5429, 0.4050



35.3995, 0.5490, 0.4023



87.6448, 0.4247, 0.4999



19.4317, 0.3282, 0.3405



18.7926, 0.5464, 0.4044



2.0472, 0.5281, 0.4189



# Inverse Universe

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



24.8627, 0.1799, 0.1660



23.7514, 0.1780, 0.1606



7.6474, 0.1514, 0.0632



18.9346, 0.2979, 0.3172



12.7114, 0.1787, 0.1635



1.4565, 0.1843, 0.1835



# Previews

## White Background



This preview shows how the Yxy color 36.4563, 0.5429, 0.4050 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 36.4563, 0.5429, 0.4050 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 36.4563, 0.5429, 0.4050**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.4563, 0.5429, 0.4050.



This preview shows how white text looks on a background with the Yxy color 36.4563, 0.5429, 0.4050.

# 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

36.4563, 0.5429, 0.4050

### Protanopia

36.8072, 0.4356, 0.4828

### Deuteranopia

36.5645, 0.4715, 0.4638



## Tritanopia

36.4933, 0.4592, 0.3224

# Trichromacy



## Original Color

36.4563, 0.5429, 0.4050

## Protanomaly

35.8785, 0.4771, 0.4534

## Deuteranomaly

36.1047, 0.4993, 0.4409

## Tritanomaly

36.0660, 0.5058, 0.3654

# Monochromacy



## Original Color

36.4563, 0.5429, 0.4050

## Achromatopsia

31.3989, 0.3127, 0.3290

## Achromatomaly

31.3838, 0.4095, 0.3881

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.4563, 0.5429, 0.4050 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, 127, 8)` looks like.

```
.text, #text, p{  
    color:rgb(255, 127, 8)  
}
```

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, 127, 8) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 127, 8) }
```

## Border

The CSS property to change the border of an element to Yxy 36.4563, 0.5429, 0.4050 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, 127, 8) }
```

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

```
.border{ border-color:rgb(255, 127, 8) }
```

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

Here you see how a box with a 4 pixel rgb(255, 127, 8) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 127, 8); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 127, 8);  
box-shadow:4px 4px 4px 4px rgb(255, 127,  
8) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.4563, 0.5429, 0.4050 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 127, 8) }
```

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

```
.background{ background-color: rgb(255,  
127, 8) }
```

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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