

# Converting Colors

$Y_{xy}(38.4427, 0.5165, 0.4169)$

Have a look what the booklet for  
Yxy(38.4427, 0.5165, 0.4169)  
contains.

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# Color

**Yxy(38.4427, 0.5165, 0.4169)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F68C1E
RGB	246, 140, 30
RGB Percent	96%, 55%, 12%
CMY	0.0352, 0.4510, 0.8822
CMYK	0.00, 0.43, 0.88, 0.04
HSL	31°, 92%, 54%
HSV	31°, 88%, 96%
XYZ	47.6269, 38.4427, 6.1412
YIQ	159.1540, 98.4860, -11.7380

# Conversions

## Conversions Part 2

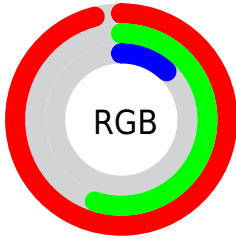
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	238, 246, 30
Decimal	16157726
CIE Lab	68.35, 33.58, 68.72
CIE LCh	68, 76.488, 63.959
Yxy	38.4427, 0.5165, 0.4169
Android (android.graphics.Color)	4294347806 (0xFFFF68C1E)
YUV	159.1540, -63.6729, 76.1639
Hunter-Lab	62.0022, 28.6108, 37.5289

# Details

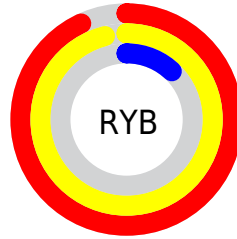
The Yxy color **38.4427, 0.5165, 0.4169** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **24.5666, 0.1842, 0.1741**, and the grayscale version is **35.0114, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.5482, 0.4434, 0.4310**, and **17.2120, 0.5446, 0.4058** is the 20% darker color. If you saturate the color by 10%, you get **35.0245, 0.5365, 0.4107**, and if you desaturate by 10%, it is **42.3490, 0.4925, 0.4176**.

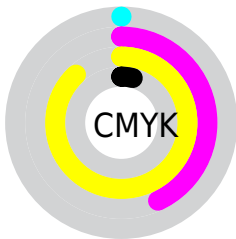
# Distribution



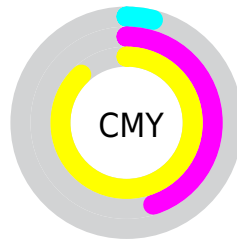
- Red (96%)
- Green (55%)
- Blue (12%)



- Red (93%)
- Yellow (96%)
- Blue (12%)



- Cyan (0%)
- Magenta (43%)
- Yellow (88%)
- Black (4%)




- Cyan (4%)
- Magenta (45%)
- Yellow (88%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.4427, 0.5165, 0.4169 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 38.4427, 0.5165, 0.4169 by changing the saturation by 10% instead.




 38.4427, 0.5165,  
0.4169


 38.4427, 0.5165,  
0.4169


339.5152, 0.4195,  
0.3871


 26.3265, 0.5362,  
0.4184


 72.7862, 0.4841,  
0.4104


 17.0680, 0.5582,  
0.4168


 95.7822, 0.4710,  
0.4066


 10.2830, 0.5869,  
0.4131


 123.1736, 0.4595,  
0.4029

 5.5870, 0.6070,  
0.3930

 155.3448, 0.4494,  
0.3993

 2.5956, 0.6370,  
0.3630

 192.6802, 0.4406,  
0.3959

 0.9245, 0.6861,  
0.3139

 235.5641, 0.4327,

 0.0000, 1.0000,

0.3928

0.0000

284.3810, 0.4257,  
0.3898

■ 0.0000, 0.0000,  
0.0000

■ 38.4427, 0.5165,  
0.4169

■ 38.4427, 0.5165,  
0.4169

■ 35.0245, 0.5365,  
0.4107

■ 42.3490, 0.4925,  
0.4176


■ 34.3247, 0.5406,  
0.4089


■ 46.7699, 0.4659,  
0.4132


■ 51.7343, 0.4384,  
0.4045


■ 57.2662, 0.4117,  
0.3930

■ 63.3876, 0.3865,  
0.3798

 70.1191, 0.3637,  
0.3660

 77.4799, 0.3432,  
0.3522

 85.4883, 0.3252,  
0.3389

 94.1618, 0.3094,  
0.3263

# Harmonies

## Analogous

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



38.4427, 0.5268, 0.3421



38.4427, 0.5165, 0.4169



38.4427, 0.4489, 0.4934

# Triad

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



38.4427, 0.5165, 0.4169



38.4427, 0.1749, 0.3730



38.4427, 0.2389, 0.1801

# Complementary

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



38.4427, 0.5165, 0.4169



24.5666, 0.1842, 0.1741

# 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.



38.4427, 0.1696, 0.1709



38.4427, 0.5165, 0.4169



38.4427, 0.1373, 0.2569

# Square

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



38.4427, 0.5165, 0.4169



38.4427, 0.2532, 0.4994



38.4427, 0.1370, 0.1928



38.4427, 0.3452, 0.2161



# Rectangle

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



38.4427, 0.5165, 0.4169



38.4427, 0.3868, 0.5320



38.4427, 0.1370, 0.1928



38.4427, 0.2114, 0.1739

# Sweetspot

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



38.4447, 0.5165, 0.4169



77.4019, 0.3599, 0.3635



22.3654, 0.4705, 0.2443



15.9996, 0.3675, 0.3684



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.



38.4447, 0.5165, 0.4169



37.1721, 0.5409, 0.4087



85.6219, 0.4169, 0.5012



17.8771, 0.3281, 0.3411



18.5980, 0.5381, 0.4109



1.8403, 0.5192, 0.4259



# Inverse Universe

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



24.5666, 0.1842, 0.1741



21.9380, 0.1754, 0.1515



7.8635, 0.1557, 0.0694



17.2703, 0.2980, 0.3166



11.1016, 0.1763, 0.1547



1.1809, 0.1827, 0.1776



# Previews

## White Background



This preview shows how the Yxy color 38.4427, 0.5165, 0.4169 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 38.4427, 0.5165, 0.4169 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 38.4427, 0.5165, 0.4169**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.4427, 0.5165, 0.4169.



This preview shows how white text looks on a background with the Yxy color 38.4427, 0.5165, 0.4169.

# 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

38.4427, 0.5165, 0.4169

### Protanopia

38.4624, 0.4324, 0.4767

### Deuteranopia

38.3343, 0.4705, 0.4604



## Tritanopia

38.3679, 0.4363, 0.3189

# Trichromacy



**Original Color**

38.4427, 0.5165, 0.4169

**Protanomaly**

37.7847, 0.4645, 0.4542

**Deuteranomaly**

38.0310, 0.4890, 0.4435

**Tritanomaly**

38.1100, 0.4761, 0.3637

# Monochromacy



**Original Color**

38.4427, 0.5165, 0.4169

**Achromatopsia**

34.6704, 0.3127, 0.3290

**Achromatomaly**

34.7027, 0.3938, 0.3835

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.4427, 0.5165, 0.4169 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(246, 140, 30)` looks like.

```
.text, #text, p{  
    color:rgb(246, 140, 30)  
}
```

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(246, 140, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(246, 140, 30) }
```

## Border

The CSS property to change the border of an element to Yxy 38.4427, 0.5165, 0.4169 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(246, 140, 30) }
```

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

```
.border{ border-color:rgb(246, 140, 30) }
```

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

Here you see how a box with a 4 pixel `rgb(246, 140, 30)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(246, 140, 30); -webkit-box-  
shadow:4px 4px 4px 4px rgb(246, 140, 30);  
box-shadow:4px 4px 4px 4px rgb(246, 140,  
30) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.4427, 0.5165, 0.4169 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(246, 140, 30) }
```

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

```
.background{ background-color: rgb(246,  
140, 30) }
```

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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