

# Converting Colors

$Y_{xy}(38.2212, 0.5251, 0.4008)$

Have a look what the booklet for  
Yxy(38.2212, 0.5251, 0.4008)  
contains.

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# Color

**Yxy(38.2095, 0.5254, 0.4010)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF852B
RGB	255, 133, 43
RGB Percent	100%, 52%, 17%
CMY	0.0000, 0.4784, 0.8317
CMYK	0.00, 0.48, 0.83, 0.00
HSL	25°, 100%, 58%
HSV	25°, 83%, 100%
XYZ	50.0630, 38.2095, 7.0130
YIQ	159.2180, 101.6020, -2.1260

# Conversions

## Conversions Part 2

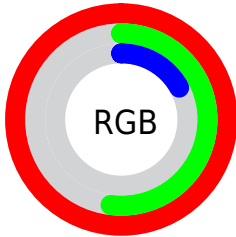
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 199, 43
Decimal	16745771
CIE Lab	68.17, 40.97, 64.96
CIE LCh	68, 76.802, 57.757
Yxy	38.2095, 0.5254, 0.4010
Android (android.graphics.Color)	4294935851 (0xFFFF852B)
YUV	159.2180, -57.2955, 84.0008
Hunter-Lab	61.8138, 36.3929, 36.5430

# Details

The Yxy color **38.2095, 0.5254, 0.4010** 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 **34.6060, 0.1949, 0.2076**, and the grayscale version is **35.0056, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.0895, 0.4424, 0.4186**, and **16.9612, 0.5632, 0.3910** is the 20% darker color. If you saturate the color by 10%, you get **34.3392, 0.5511, 0.3954**, and if you desaturate by 10%, it is **42.7606, 0.4956, 0.4011**.

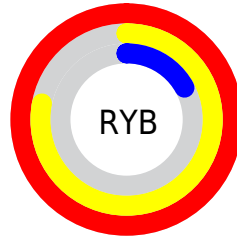
# Distribution



Red (100%)

Green (52%)

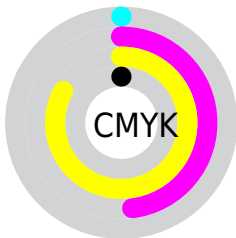
Blue (17%)



Red (100%)

Yellow (78%)

Blue (17%)

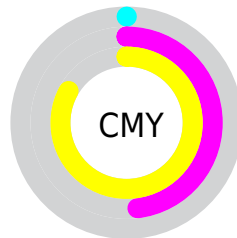


Cyan (0%)

Magenta (48%)

Yellow (83%)

Black (0%)



Cyan (0%)

Magenta (48%)


Yellow (83%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.2095, 0.5254, 0.4010 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 38.2095, 0.5254, 0.4010 by changing the saturation by 10% instead.





 38.2095, 0.5254,  
0.4010


 38.2095, 0.5254,  
0.4010


338.5178, 0.4224,  
0.3790

 26.1453, 0.5471,  
0.4009

 72.4291, 0.4905,  
0.3971


 16.9324, 0.5719,  
0.3976


 95.3534, 0.4765,  
0.3944


 10.1863, 0.6055,  
0.3922


 122.6664, 0.4643,  
0.3916

 5.5227, 0.6304,  
0.3696

 154.7527, 0.4538,  
0.3888

 2.5571, 0.6650,  
0.3350

 191.9966, 0.4445,  
0.3861

 0.9051, 0.7199,  
0.2801

 234.7825, 0.4362,

 0.0000, 1.0000,

0.3836

0.0000

283.4948, 0.4290,  
0.3812

■ 0.0000, 0.0000,  
0.0000

■ 38.2095, 0.5254,  
0.4010

■ 38.2095, 0.5254,  
0.4010

■ 34.3392, 0.5511,  
0.3954

■ 42.7606, 0.4956,  
0.4011

■ 32.0544, 0.5658,  
0.3889

■ 48.0282, 0.4642,  
0.3965

■ 54.0501, 0.4333,  
0.3883

■ 60.8593, 0.4044,  
0.3779

■ 68.4865, 0.3782,  
0.3664

76.9605, 0.3551,  
0.3547

86.3085, 0.3350,  
0.3432

96.5564, 0.3177,  
0.3323

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



38.2095, 0.5204, 0.3271



38.2095, 0.5254, 0.4010



38.2095, 0.4666, 0.4789

# Triad

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



38.2095, 0.5254, 0.4010



38.2095, 0.1872, 0.4018



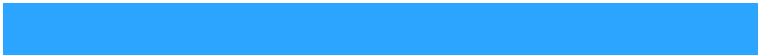
38.2095, 0.2208, 0.1752

# Complementary

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



38.2095, 0.5254, 0.4010



34.6060, 0.1949, 0.2076

# 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.



38.2095, 0.1594, 0.1719



38.2095, 0.5254, 0.4010



38.2095, 0.1410, 0.2763

# Square

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



38.2095, 0.5254, 0.4010



38.2095, 0.2727, 0.5186



38.2095, 0.1336, 0.2014



38.2095, 0.3210, 0.2060



# Rectangle

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



38.2095, 0.5254, 0.4010



38.2095, 0.4071, 0.5233



38.2095, 0.1336, 0.2014



38.2095, 0.1960, 0.1709

# Sweetspot

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



38.2112, 0.5254, 0.4010



75.3478, 0.3591, 0.3568



25.7575, 0.4318, 0.2268



15.4811, 0.3671, 0.3610



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.



38.2112, 0.5254, 0.4010



32.0544, 0.5658, 0.3889



82.1909, 0.4274, 0.4875



19.2556, 0.3284, 0.3391



17.0303, 0.5630, 0.3912



1.8693, 0.5428, 0.4072



# Inverse Universe

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



34.6060, 0.1949, 0.2076



27.9856, 0.1835, 0.1806



11.0248, 0.1624, 0.0866



19.1129, 0.2979, 0.3187



14.9253, 0.1842, 0.1832



1.6699, 0.1893, 0.2014



# Previews

## White Background



This preview shows how the Yxy color 38.2095, 0.5254, 0.4010 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 38.2095, 0.5254, 0.4010 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 38.2095, 0.5254, 0.4010**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.2095, 0.5254, 0.4010.



This preview shows how white text looks on a background with the Yxy color 38.2095, 0.5254, 0.4010.

# 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

38.2095, 0.5254, 0.4010

### Protanopia

38.4502, 0.4249, 0.4677

### Deuteranopia

38.2543, 0.4653, 0.4558



## Tritanopia

38.1880, 0.4475, 0.3212

# Trichromacy



## Original Color

38.2095, 0.5254, 0.4010

## Protanomaly

37.6615, 0.4628, 0.4421

## Deuteranomaly

37.7850, 0.4884, 0.4351

## Tritanomaly

37.9198, 0.4831, 0.3558

# Monochromacy



## Original Color

38.2095, 0.5254, 0.4010

## Achromatopsia

34.6704, 0.3127, 0.3290

## Achromatomaly

34.5664, 0.3931, 0.3736

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.2095, 0.5254, 0.4010 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, 133, 43)` looks like.

```
.text, #text, p{  
    color:rgb(255, 133, 43)  
}
```

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, 133, 43) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 133, 43) }
```

## Border

The CSS property to change the border of an element to Yxy 38.2095, 0.5254, 0.4010 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, 133, 43) }
```

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

```
.border{ border-color:rgb(255, 133, 43) }
```

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

Here you see how a box with a 4 pixel rgb(255, 133, 43) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 133, 43); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 133, 43);  
box-shadow:4px 4px 4px 4px rgb(255, 133,  
43) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.2095, 0.5254, 0.4010 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 133, 43) }
```

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

```
.background{ background-color: rgb(255,  
133, 43) }
```

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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