

# Converting Colors

$Y_{xy}(40.8036, 0.5092, 0.4028)$

Have a look what the booklet for  
Yxy(40.8036, 0.5092, 0.4028)  
contains.

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# **Color**

**Yxy(40.8915, 0.5090, 0.4031)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8E38
RGB	255, 142, 56
RGB Percent	100%, 56%, 22%
CMY	0.0000, 0.4432, 0.7803
CMYK	0.00, 0.44, 0.78, 0.00
HSL	26°, 100%, 61%
HSV	26°, 78%, 100%
XYZ	51.6343, 40.8915, 8.9168
YIQ	165.9830, 94.9540, -2.7900

# Conversions

## Conversions Part 2

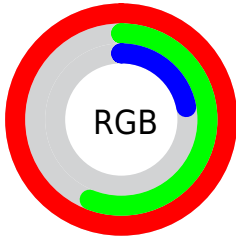
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 207, 56
Decimal	16748088
CIE <sub>Lab</sub>	70.10, 36.86, 61.60
CIE <sub>LCh</sub>	70, 71.781, 59.105
Yxy	40.8915, 0.5090, 0.4031
Android (android.graphics.Color)	4294938168 (0xFFFF8E38)
YUV	165.9830, -54.2216, 78.0679
Hunter-Lab	63.9465, 32.2255, 36.4950

# Details

The Yxy color **40.8915, 0.5090, 0.4031** 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 **36.4538, 0.1991, 0.2142**, and the grayscale version is **38.3557, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.2966, 0.4282, 0.4170**, and **18.5188, 0.5503, 0.4013** is the 20% darker color. If you saturate the color by 10%, you get **36.6665, 0.5367, 0.4005**, and if you desaturate by 10%, it is **45.7985, 0.4784, 0.4005**.

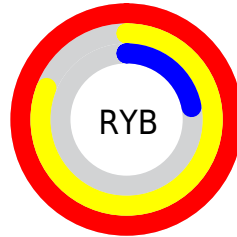
# Distribution



Red (100%)

Green (56%)

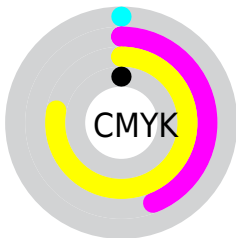
Blue (22%)



Red (100%)

Yellow (81%)

Blue (22%)

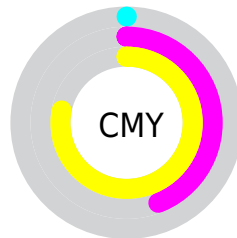


Cyan (0%)

Magenta (44%)

Yellow (78%)

Black (0%)



Cyan (0%)

Magenta (44%)


Yellow (78%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.8915, 0.5090, 0.4031 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 40.8915, 0.5090, 0.4031 by changing the saturation by 10% instead.




 40.8915, 0.5090,  
0.4031

 40.8915, 0.5090,  
0.4031


349.8669, 0.4139,  
0.3777


 28.2343, 0.5295,  
0.4047


 76.5192, 0.4765,  
0.3973

 18.5024, 0.5532,  
0.4041


 100.2584, 0.4636,  
0.3941


 11.3113, 0.5816,  
0.3998


 128.4605, 0.4524,  
0.3909

 6.2766, 0.6129,  
0.3871


 161.5098, 0.4427,  
0.3879

 3.0140, 0.6427,  
0.3573

 199.7907, 0.4341,  
0.3851

 1.1390, 0.6898,  
0.3102

 243.6876, 0.4266,

 0.0111, 0.9880,

0.3825

0.0120

293.5849, 0.4199,  
0.3800

0.0000, 0.0000,  
0.0000

40.8915, 0.5090,  
0.4031

40.8915, 0.5090,  
0.4031

36.6665, 0.5367,  
0.4005

45.7985, 0.4784,  
0.4005

33.0865, 0.5596,  
0.3925


51.4321, 0.4474,  
0.3937

32.4474, 0.5637,  
0.3906

57.8235, 0.4176,  
0.3840

65.0036, 0.3903,  
0.3728

73.0013, 0.3658,  
0.3609

 81.8440, 0.3444,  
0.3491

 91.5575, 0.3258,  
0.3377

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.



40.8915, 0.5052, 0.3327



40.8915, 0.5090, 0.4031



40.8915, 0.4547, 0.4741

# Triad

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



40.8915, 0.5090, 0.4031



40.8915, 0.1946, 0.3901



40.8915, 0.2314, 0.1859

# Complementary

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



40.8915, 0.5090, 0.4031



36.4538, 0.1991, 0.2142

# 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.



40.8915, 0.1714, 0.1819



40.8915, 0.5090, 0.4031



40.8915, 0.1516, 0.2780

# Square

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



40.8915, 0.5090, 0.4031



40.8915, 0.2738, 0.4965



40.8915, 0.1453, 0.2093



40.8915, 0.3258, 0.2162



# Rectangle

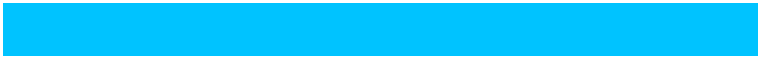
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



40.8915, 0.5090, 0.4031



40.8915, 0.3995, 0.5114



40.8915, 0.1453, 0.2093



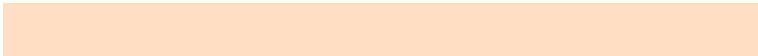
40.8915, 0.2074, 0.1815

# Sweetspot

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



40.8891, 0.5090, 0.4031



77.3383, 0.3547, 0.3549



27.0739, 0.4216, 0.2278



15.8817, 0.3626, 0.3592



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.



40.8891, 0.5090, 0.4031



34.4544, 0.5510, 0.3963



82.9395, 0.4236, 0.4836



19.2777, 0.3283, 0.3393



17.2378, 0.5609, 0.3928



1.8905, 0.5410, 0.4087



# Inverse Universe

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



36.4538, 0.1991, 0.2142



29.6010, 0.1863, 0.1876



12.7763, 0.1686, 0.0977



19.0903, 0.2979, 0.3185



14.6304, 0.1835, 0.1807



1.6418, 0.1887, 0.1991



# Previews

## White Background



This preview shows how the Yxy color 40.8915, 0.5090, 0.4031 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 40.8915, 0.5090, 0.4031 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 40.8915, 0.5090, 0.4031**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.8915, 0.5090, 0.4031.



This preview shows how white text looks on a background with the Yxy color 40.8915, 0.5090, 0.4031.

# 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

40.8915, 0.5090, 0.4031

### Protanopia

41.0817, 0.4190, 0.4600

### Deuteranopia

41.0151, 0.4582, 0.4478



## Tritanopia

40.9127, 0.4314, 0.3200

# Trichromacy



**Original Color**

40.8915, 0.5090, 0.4031

**Protanomaly**

40.2737, 0.4529, 0.4383

**Deuteranomaly**

40.5136, 0.4775, 0.4301

**Tritanomaly**

40.6292, 0.4652, 0.3546

# Monochromacy



**Original Color**

40.8915, 0.5090, 0.4031

**Achromatopsia**

38.1326, 0.3127, 0.3290

**Achromatomaly**

37.6261, 0.3847, 0.3701

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.8915, 0.5090, 0.4031 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, 142, 56)` looks like.

```
.text, #text, p{  
    color:rgb(255, 142, 56)  
}
```

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, 142, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 142, 56) }
```

## Border

The CSS property to change the border of an element to Yxy 40.8915, 0.5090, 0.4031 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, 142, 56) }
```

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

```
.border{ border-color:rgb(255, 142, 56) }
```

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

Here you see how a box with a 4 pixel rgb(255, 142, 56) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 142, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 142, 56);  
box-shadow:4px 4px 4px 4px rgb(255, 142,  
56) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.8915, 0.5090, 0.4031 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 142, 56) }
```

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

```
.background{ background-color: rgb(255,  
142, 56) }
```

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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