

# Converting Colors

$Y_{xy}(40.0227, 0.5023, 0.3901)$

Have a look what the booklet for  
Yxy(40.0227, 0.5023, 0.3901)  
contains.

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# **Color**

**Yxy(39.8919, 0.5031, 0.3899)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8A47
RGB	255, 138, 71
RGB Percent	100%, 54%, 28%
CMY	0.0000, 0.4589, 0.7216
CMYK	0.00, 0.46, 0.72, 0.00
HSL	22°, 100%, 64%
HSV	22°, 72%, 100%
XYZ	51.4737, 39.8919, 10.9475
YIQ	165.3450, 91.2390, 3.9670

# Conversions

## Conversions Part 2

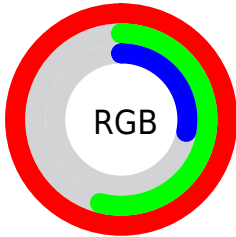
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 176, 71
Decimal	16747079
CIE <sub>Lab</sub>	69.39, 39.48, 54.23
CIE <sub>LCh</sub>	69, 67.080, 53.942
Yxy	39.8919, 0.5031, 0.3899
Android (android.graphics.Color)	4294937159 (0xFFFF8A47)
YUV	165.3450, -46.5121, 78.6274
Hunter-Lab	63.1600, 34.9427, 33.9353

# Details

The Yxy color **39.8919, 0.5031, 0.3899** is a light color, and the websafe version is hex **FF9966**. The color can be described as light washed orange. A complement of this color would be **44.5300, 0.2096, 0.2416**, and the grayscale version is **37.9920, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.8051, 0.4215, 0.4016**, and **17.9091, 0.5494, 0.3907** is the 20% darker color. If you saturate the color by 10%, you get **35.3166, 0.5361, 0.3891**, and if you desaturate by 10%, it is **45.2926, 0.4686, 0.3862**.

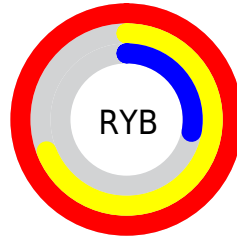
# Distribution



Red (100%)

Green (54%)

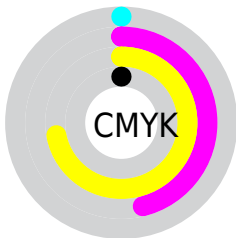
Blue (28%)



Red (100%)

Yellow (69%)

Blue (28%)

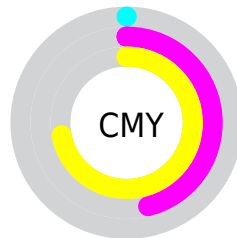


Cyan (0%)

Magenta (46%)

Yellow (72%)

Black (0%)



Cyan (0%)

Magenta (46%)

Yellow (72%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.8919, 0.5031, 0.3899 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 39.8919, 0.5031, 0.3899 by changing the saturation by 10% instead.





 39.8919, 0.5031,  
0.3899


 39.8919, 0.5031,  
0.3899


345.6677, 0.4087,  
0.3691

 27.4543, 0.5245,  
0.3912


 74.9989, 0.4701,  
0.3851

 17.9147, 0.5500,  
0.3905


 98.4370, 0.4572,  
0.3825

 10.8888, 0.5803,  
0.3858


 126.3108, 0.4462,  
0.3799

 5.9921, 0.6226,  
0.3774

 159.0045, 0.4366,  
0.3774

 2.8403, 0.6547,  
0.3453

 196.9027, 0.4283,  
0.3751

 1.0489, 0.7054,  
0.2946

240.3897, 0.4210,

 0.0000, 1.0000,

0.3730

0.0000

289.8499, 0.4145,  
0.3710

■ 0.0000, 0.0000,  
0.0000

■ 39.8919, 0.5031,  
0.3899

■ 39.8919, 0.5031,  
0.3899

■ 35.3166, 0.5361,  
0.3891

■ 45.2926, 0.4686,  
0.3862

■ 31.5274, 0.5647,  
0.3831


■ 51.5726, 0.4353,  
0.3791


■ 29.0605, 0.5830,  
0.3753

■ 58.7690, 0.4046,  
0.3701

■ 66.9195, 0.3773,  
0.3602

■ 76.0593, 0.3537,  
0.3501

 86.2218, 0.3334,  
0.3402

 97.4386, 0.3161,  
0.3309

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.



39.8919, 0.4870, 0.3227



39.8919, 0.5031, 0.3899



39.8919, 0.4607, 0.4578

# Triad

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



39.8919, 0.5031, 0.3899



39.8919, 0.2120, 0.4064



39.8919, 0.2233, 0.1897

# Complementary

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



39.8919, 0.5031, 0.3899



44.5300, 0.2096, 0.2416

# 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.



39.8919, 0.1712, 0.1909



39.8919, 0.5031, 0.3899



39.8919, 0.1637, 0.2975

# Square

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



39.8919, 0.5031, 0.3899



39.8919, 0.2923, 0.4960



39.8919, 0.1514, 0.2239



39.8919, 0.3083, 0.2148



# Rectangle

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



39.8919, 0.5031, 0.3899



39.8919, 0.4113, 0.4951



39.8919, 0.1514, 0.2239



39.8919, 0.2022, 0.1870

# Sweetspot

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



39.8886, 0.5031, 0.3899



76.2115, 0.3533, 0.3499



29.5102, 0.3934, 0.2197



15.7596, 0.3594, 0.3527



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.



39.8886, 0.5031, 0.3899



33.3873, 0.5507, 0.3869



76.8720, 0.4267, 0.4689



19.0697, 0.3285, 0.3377



15.4429, 0.5800, 0.3777



1.7028, 0.5584, 0.3948



# Inverse Universe

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



44.5300, 0.2096, 0.2416



37.9068, 0.1970, 0.2205



17.4073, 0.1802, 0.1251



19.3040, 0.2980, 0.3201



17.5987, 0.1902, 0.2048



1.9216, 0.1946, 0.2206



# Previews

## White Background



This preview shows how the Yxy color 39.8919, 0.5031, 0.3899 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 39.8919, 0.5031, 0.3899 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 39.8919, 0.5031, 0.3899**

## Background



This preview shows how black text looks on a background with the Yxy color 39.8919, 0.5031, 0.3899.



This preview shows how white text looks on a background with the Yxy color 39.8919, 0.5031, 0.3899.

# 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

39.8919, 0.5031, 0.3899

### Protanopia

40.0349, 0.4057, 0.4438

### Deuteranopia

39.8684, 0.4476, 0.4369



## Tritanopia

39.9581, 0.4375, 0.3211

# Trichromacy



**Original Color**

39.8919, 0.5031, 0.3899

**Protanomaly**

38.9866, 0.4421, 0.4233

**Deuteranomaly**

39.6817, 0.4688, 0.4190

**Tritanomaly**

39.8489, 0.4641, 0.3486

# Monochromacy



**Original Color**

39.8919, 0.5031, 0.3899

**Achromatopsia**

37.6262, 0.3127, 0.3290

**Achromatomaly**

37.0871, 0.3805, 0.3609

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.8919, 0.5031, 0.3899 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, 138, 71)` looks like.

```
.text, #text, p{  
    color:rgb(255, 138, 71)  
}
```

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, 138, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 138, 71) }
```

## Border

The CSS property to change the border of an element to Yxy 39.8919, 0.5031, 0.3899 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, 138, 71) }
```

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

```
.border{ border-color:rgb(255, 138, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 138, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 138, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 138, 71);  
box-shadow:4px 4px 4px 4px rgb(255, 138,  
71) }
```



# Background

The CSS property to change the background color of an element to Yxy 39.8919, 0.5031, 0.3899 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 138, 71) }
```

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

```
.background{ background-color: rgb(255,  
138, 71) }
```

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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